march 8, 93

Juleet Shen:

Enclosed are the guarterly reports for Alameda Golf Course and Alameda Fire 3th tron #2.

The report for Pron Goode Loyota will be sent to you from Ron Goode Joyota.

If you have any questions, please July gree to call out office.

Thank you.

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 CLUBHOUS DRIVE ALAMEDA, CALIFORNIA

3-8-93

prepared by:

Helen Mawhenney ENVIRONMENTAL TECHNICAL SERVICES

Helen Mawhinney

Senior Environmental Specialist

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Appendix B

Groundwater Analytical Results 1st Quarter, September 5, 1992

Appendix C

Groundwater Analytical Results 2nd Quarter, January 11, 1993

Appendix D

Groundwater Development Reports

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, Calfornia.

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 os 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	В	Ţ	Ē	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	<u>B</u>	I	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

Sample #	TPHq	В	T	E	X	Lead
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

Groundwater Analytical Results (cont.)

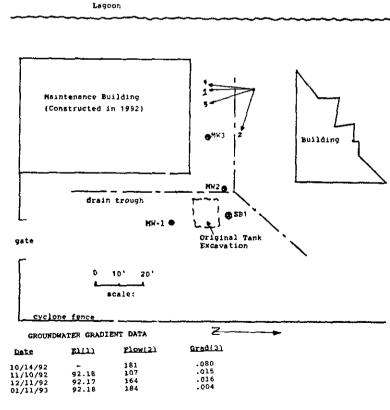
TABLE III GROUNDWATER ANALYTICAL RESULTS SECOND QUARTER JANUARY 11, 1993

Results for TPHg & BTEX reported in ug/L

Sample #	TPHg	<u>B</u>	T	E	X	Lead
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

Groundwater Gradient



NOTES

Water elev. in HW1
 Flow azimuth (*E of N)
 Gradient (ft/ft)

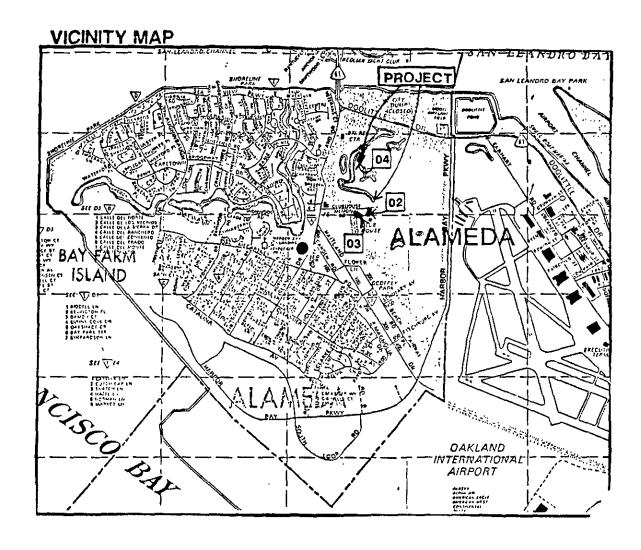
4.0 REPORT

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



ENVIRONMENTAL TECHNICAL SERVICES

Site:

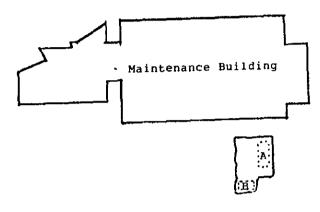
ALAMEDA GOLF COURSE 1 MEMORIAL CLUB HOUSE DRIVE ALAMEDA, CALIFORNIA

Figure 1.

Site Location Map

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

7/10/91



B1dg.



KEY

A) 500 gal gasoline tank

 $(\hat{\mathbf{B}})$, 125 gal gasoline tank

0 12.5 25 Scale

ENVIRONMENTAL TECHNICAL SERVICES Site:

ALAMEDA GOLF COURSE 1 MEMORIAL CLUB HOUSE DRIVE ALAMEDA, CALIFORNIA

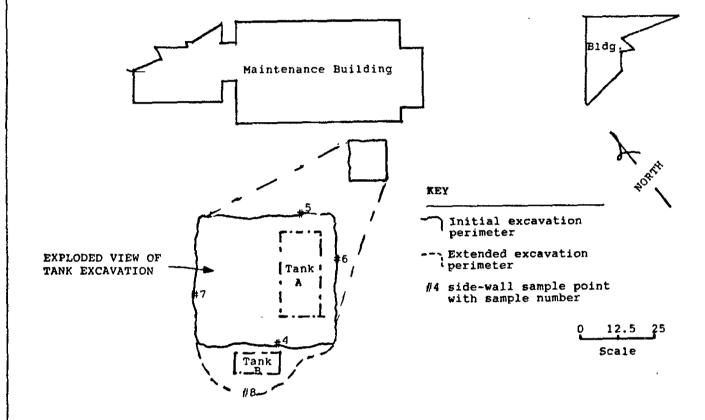
Figure 2.

Tank Location Map

ENVIRONMENTAL TECHNICAL SERVICES

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

7/10/91



ENVIRONMENTAL TECHNICAL SERVICES:

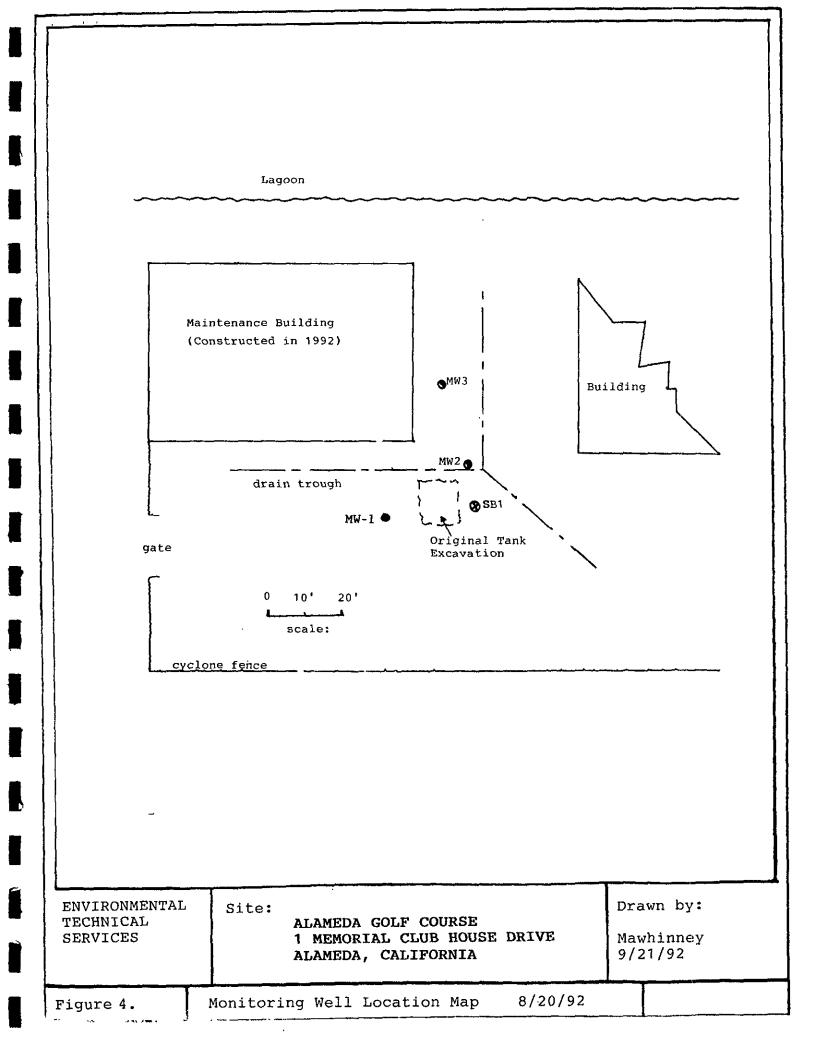
Site:

ALAMEDA GOLF COURSE

1 MEMORIAL CLUBHOUSE DRIVE
ALAMEDA, CALIFORNIA

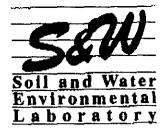
Figure 3. Excavation/S

Excavation/Sampling Map



APPENDIX B

GROUNDWATER ANALYTICAL RESULTS FIRST QUARTER



Drinking Water Waste Water • Asbestos Hazardous Waste — Soil Calderon Testing — Air

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

Laboratory Report

Client Report Date
Environmental Tech. Services 09/29/32
1548 Jacob Ave.

San Jose CA 95118

Sample Site

Alameda Golf Course Alameda, CA Date Received 0/9/05/92

MW ALAM GOIF

Analysis Requested

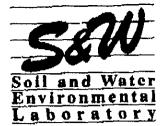
Total Hydrocarbons - Gas BTEX Procedure EPA 5030 EPA 602 Date Analyzed の多/のち/32

Client Ref. #	Matrix/Analysis	Concentration	Detection Limit
MU-1	Water/TPH-0	*	50 ppb
·	Water/BTEX		
7		*	O.5 ppb
	- •	*	0.5 ppb
		*	0.5 ppb
	Xylenes	*	0.5 ppb
50 610 W	A Samuel Communication of the Print Laboration	*	50 ppb
		•	mar. beham
MM2		<u> </u>	0.5 ppb
			0.5 ppb
	• = =		
	_		0.5 ppb
	Xylenes	*	0.5 ppb
	Matar/TSH-G	*	50 ppb
			• • •
mm-0		#	0.5 ppb
	= ' ' ' '	*	O.5 ppb
	. = =		0.5 ppb
	Xylenes Xylenes	#	0.5 ppb
•	Client Ref. # MU-1 MU-1 MU-2 MU-2 MU-2 MU-3	MW-1 Mater/FH-0 Water/BTEX Berizere Toluere Ethylberizere Xylenes MW-2 Mater/FH-0 Water/FH-0 Water/BTEX Berizere Toluere Ethylberizere Xylenes MW-3 MW-3 Water/BTEX Berizere Toluere Toluere Toluere Ethylberizere Toluere Ethylberizere	MW-1 Water/TPH-0 * MW-1 Water/RTEX Benzene * Toluene * Xylenes * MW-2 Water/TPH-0 * MW-2 Water/BTEX Benzene * Toluene * Xylenes * * MW-2 Water/TPH-0 * Water/BTEX Benzene * Toluene * Xylenes * Toluene * Toluene * Xylenes * * MW-3 Water/TPH-0 * MW-3 Water/BTEX Benzene * Toluene * Toluene * Ethylbenzene * * ** ** ** ** ** ** ** **

* No detectable amount @ detection limit

Analyst Signature

R. G. Canoy



Drinking Water
Waste Water • Ashestos
Hazardous Waste — Soil
Calderon Testing — Air

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

Laboratory Report

Client Envicemmental Tech. Services 1548 Jacob Ave. e. Rd. San Jose, CA 95118 Report Date 10--01 - 9⊆

Sample Site

Date Received

Alameda Golf Course Alameda, CA 9-17-92

Analysis Requested
Heavy Metals

Procedure EPA-6010/7000 Date Analyzed 9--21--92

S&W Ref.#	C	lient Ref. #	Matrix/Anelysis	Gancentration		Detection Limit
2492-ET2	C	MW1	Total Lea	id (5.0	ppb
	p	MH-2	Total Lee	ıd	6.3	ppb
	Æ	E-UM	Total Lea	rd (5.0	ppb
		L				

MDL- 5.00 ppb

This analysis performed for 5 & W Laboratory by West Laboratory Davis, California

Analyst Signature

JR. W. Lunery

CHAIN OF CUSTODY RECORD

PROJECT NO.	1	Cont	<u></u>	SITE	NAME.	& ADDR	ESS	pHae	ese Drice	TANK TANK		ANAL'	YSES	REQ	JEST	ED (⊓	}	
fulitte	JITNESS DATE	CON CONTRACTOR OF THE TIME	an	WATER	ECTO)	D H	DATE	1)4	ola, Ca pt on	THE WATER THE PARTY OF THE PART	TPH (Gasoline) & B, T, X, & E	TPH (Diesel) & B, T, X, & E	folal Oil & Grease	Halogenated HC's	B,T,X&E	Heavy Metals	FOTALLEAD	REMARKS
			SOIL	Š	,		<u></u>				=	# "	မ	± =	B,	Ĭ	15	
mw-1				4												1	1/	
MW-2				V							1/		<u> </u>			<u> </u>	1/	1
mw-3				<i>Y</i>							V		<u> </u>			<u> </u>	<u> / </u>	<u> </u>
												<u> </u>			<u> </u>	<u> </u>		
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										3300								
·		-								35,455						1		<u> </u>
										*55.65				<u> </u>				
	7										_						,	
										0. \$380000434B								(1) See attached "Table 2" for specific analysis method.
Relinquished by: (Signature) Date/Time Received by: (Signature) Pelinquished by: (Signature) Pelinquished by: (Signature) Pate/Time Received by: (Signature)									for a	nalysis ave all	: sample	s recei	ived fo	r analy:	the laboratory accepting samples sis been stored in Ice? Il analyzed?			
Relinquished by:	(Signa	ature)			ate/Ti	ne	Receive	ed by:	(Signature)	<u> </u>	<u> </u>	3. D	id any	sampie	s recel	ved for	analys	sis have head space? ners and properly packaged?
Relinquished by:	(Signa	alure)		[l Date/Ti	me	Rec'd to	or Labo	ratory by: (Sig	net	Ire)	-		mbiss i	ı ehhi			note and property passages t
							}						Signa	ture				Title Date

Rev: 12-88

APPENDIX C

GROUNDWATER ANALYTICAL RESULTS
SECOND QUARTER

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

Analysis Requested

Laboratory Report

Client Envionmental Tech. Services 1548 Jacob Ave. CA 95118 San Juse

Date Received 01/12/93

Sample Site Alameda Golf Cource

1 Club House Memorial Dr.

EMWALGLE

Procedure

Date Analyzed 01/14/93 EPA 5030 Total Hydrocarbons - Gas EPA 3510 Total Hydrocarbons - Diesel MPA Bose Total Oil & Grease BIFY FPA 602 S&W Ref. # Detection Limit Client Ref. # Matrix/Analysis Concentration Hatery/TPH-G 50 ppb 0123-ET3-A MW-1 50 ppb はあもほかノチPH-D 0123-ET3-A MH-1 Water/TOG 5 ppm 0123~ET3-A MH-1 MW-1 WATENIAM 0123-ET3-A 0.5 ppb おきいえきつき dag 2.0 Tolluene O.S ppb **Eも打り1かを行ぶるい事** dag C.O XYIMME いっちゅう/TPH-G 50 ppb MW-2 0123-ET3-B Water/TPH-D 50 ppb 0123-ET3-B MW-@ Water/TOG 5 ppm MM-2 0123-ET3-B Water/算了在X MM----0123-ET3-B O.S ppb Bentを表が表 O. 5 ppb Toluerie O. 5 ppb Ethylbenzene O.S ppb Xyleves 50 ppb **以来七根ケイナア州一日** 0123-ET3-C E-WM 50 ppb はあも海ケノ丁戸村一D MW-3 0123-ET3-C mag 2 Water/TOG MW-3 0123-ET3-C Mater/BTEX 0123-ET3-C E-WM 見合うるをつき O.5 ppb 0.5 ppb Toluerie O. 5 ppb Ethy 1 bevizevie 0.5 ppb Xy 1 myes

No detectable amount @ detection limit

Analyst Signature

APPENDIX D GROUNDWATER DEVELOPMENT REPORTS

MONITORING WELL SAMPLING DATA/ MW-1

Projec	ct Name:		Well#		
ALAMEI	DA GOLF COURSI	3		MW-1	
Date:	Septemb	per 18, 1992			· · · · · · · · · · · · · · · · · · ·
Name:			Time Bec	man:	
Mawhir	nney		11:27		
DEPTH	OF WELL(ft.)	DEPTH TO W	ATER(ft.)	WELL D	IAM.
9.77		5.36		2"	
Time	Gallons	Salinity	Нq	Temp.	Cond.
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
Volume Evacua		g Equip.	Samp	ling Equi	p.
10 gal		ess Steel Bai			el Bailer
		Completion o	f Sampling		1,2
Not me	asured. Slo	w Recharge			
Sheen	Floatin	g Product	Sample	Color	Odor
no 	no		grey		no
Sedime	nt/Foreign Ma	tter: very li	ttle silt		
Sample	ID# An	alysis		Labora	atory
MW-1	TP	Hg, BTEX, Tot	al Lead	S & W	Lab.
	Containers ml VOAs, 2 Li	ters			

MONITORING WELL SAMPLING DATA/ MW-2

Project Na	16:		Well#		
Alameda Go	LF COURSE	;		MW-2	
Date:	Septemb	er 18, 1992			
Name:		·	Time Bec	an:	
Mawhinney			12:19		
DEPTH OF W	ELL(ft.)	DEPTH TO	NATER(ft.)	WELL D	(AM.
9.77		1.89		2**	
Time G	allons	Salinity	Hq	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	Purgir	g Equip.	Samp	oling Equip	p.
10 gallons	Stainl	ess Steel Ba	iler Stai	inless Ste	el Bailer
Depth to W	ater Upor	Completion	of Sampling	1	
Not measur	e. Slow	Recharge			
Sheen	Floatir	g Product	Sample	Color	Odor
no	no	•	grey		no
Sediment/F	oreign Ma	tter: silt			
Sample ID#	År	alysis	······································	Labor	atory
MW-2	TI	Hg, BTEX & T	otal Lead	S & 1	W Lab.

Sample Containers
3/ 40-ml VOAs, 2 Liters

MONITORING WELL SAMPLING DATA/ MW-3

Project	Name:		Well#		
	GOLF COURSE			MW-3	
Date:		er 18, 1992		•	
			Time Be	man t	, <u>, , , , , , , , , , , , , , , , , , </u>
Name:				gan.	
Mawhinn	-		1:29		
DEPTH O	F WELL(ft.)	DEPTH TO	WATER(ft.)	WELL D	IAM.
9.71		2.28	3	24	
Time	Gallons	Salinity	рн	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 Evacuat		g Equip.	Sar	mpling Equi	.p.
10 gall	ons Stainl	ess Steel B	ailer Sta	ainless Ste	eel Bailer
Depth t	o Water Upon	Completion	of Samplin	ng	
Not mea	sure. Slow	Recharge			
Sheen	Floatin	g Product	Sampl	e Color	Odor
no	nc	•	gre	у	no
Sedimer	nt/Foreign Ma	tter: silt			
Sample	ID ∉ A r	nalysis		Labo	ratory
MW-3	TI	PHg, BTEX, T	OTAL LEAD	S & 1	W Lab.
	Containers ml VOAs				

MONITORING WELL SAMPLING DATA MONITORING WELL NO.1

		MONTIONING N	ELL NO.1	
PROJECT	NAME:	WELL #		
ALAMEDA	GOLF COURSE	COURSE MW-1		
DATE:	JANUARY 11	, 1993		
NAME:	· · · · · · · · · · · · · · · · · · ·		TIME	BEGAN:
Helen Mawhinney 12:45				.5
DEPTH O	F WELL(FT.)	DEPTH OF	WATER(FT.)	WELL DIAM.
9.8		3.2		2"
TIME	GALLONS	рН	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 EVACUATI		PURGING EQUI	P. SA	MPLING EQUIP.
8 gallor		Stainless St Bailer		inless Steel ler
DEPTH TO	WATER UPON	COMPLETION C	F SAMPLING	
Not measured. Recharge very slow.				
SHEEN	FLOATIN	G PRODUCT	SAMPLE CO	LOR ODOR
no	no		grey	no
SEDIMENT/FOREIGN MATTER: very little silt				
SAMPLE]	D#	<u>ANALYSIS</u>	LABO	RATORY
MW-1	1	TPHg, TOG	S &	W Lab.
CAMPID	MANUAL TANDO			

SAMPLE CONTAINERS
3/ 40-ml VOAs, 2 Liters

MONITORING		SAMPLING	
MONTTO	RTNG	WELL NO. 2	2

MONITORING WELL SAMPLING DATA MONITORING WELL NO.2					
PROJECT	NAME:		WEL	L #	
ALAMEDA	GOLF COURSE		MW	-2	
DATE:	JANUARY 11,	, 1993	***************************************		
NAME:			TIM	E BEGAN:	
Helen M	Helen Mawhinney 1:40				
DEPTH O	F WELL(FT.)	DEPTH OF	WATER (FT.)	WELL DIAM.	
9.8		1.7		2"	
TIME	GALLONS	<u>рН</u>	TEMP.	COND.	
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 EVACUAT		PURGING EQUI	<u>P.</u> <u>S</u>	AMPLING EQUIP.	
8 gallo		Stainless St Bailer		tainless Steel ailer	
DEPTH TO WATER UPON COMPLETION OF SAMPLING Not measured.					
SHEEN no	FLOATING no	PRODUCT	<u>SAMPLE C</u> gr		
SEDIMENT/FOREIGN MATTER: very little silt					
SAMPLE :		NALYSIS PHg, TOG		ORATORY W Lab	
SAMPLE CONTAINERS 3/ 40-ml VOAs, 2 Liters					

MONITORING WELL SAMPLING DATA MONITORING WELL NO.3

DDO TROP MARKE	7 -		EATHER T	И	
PROJECT NAME:			WELL #		
ALAMEDA GOLF COURSE			MW-3		
DATE:	NT13 D17 4	1 1000			
J.F.	ANUARY 1	1, 1993 			
NAME:			TIME	BEGAN:	
Helen Mawhir	nney	2:10p			
DEPTH OF WEI	L(FT.)	DEPTH OF WA	TER(FT.)	WELL DIAM.	
9.7		2.4		2"	
TIME GA	LLONS	<u>р</u> Н	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.	SAM	PLING EQUIP.	
8 gallons		Stainless Stee Bailer	l Stai Bail	nless Steel er	
DEPTH TO WAT	ER UPON	COMPLETION OF	SAMPLING		
Not measured. Recharge very slow					
SHEEN	FLOATI	NG PRODUCT	SAMPLE COL	OR ODOR	
no	n	o	grey	no	
SEDIMENT/FOREIGN MATTER:					
SAMPLE ID#		ANALYSIS	LABOR	ATORY	
MW-3		TPHg, BTEX	S & W	Lab.	
SAMPLE CONTAINERS 3/ 40-ml VOAs, 2 Liters					