

ALCO HAZMAT 94 FEB 14 PM 3: 33

February 8, 1994

Mr. Steve Chrissanthos Alameda Cellars 1702 Lincoln Avenue Alameda, CA 94501

RE: Field Investigation and Results of Groundwater Sampling at 2425 Encinal, Alameda, California Permit No. 93681

Dear Mr. Chrissanthos:

Thank you for providing ACC with the opportunity to present this report.

The enclosed report describes the materials and procedures used during a field investigation performed at 2425 Encinal, Alameda, California. ACC's investigative approach was to drill and install three groundwater monitoring wells. This work was performed to evaluate the vertical extent of groundwater contamination.

Soil samples collected during drilling were submitted to Chromalab, Inc. for petroleum hydrocarbon analyses, in accordance with the "Tri Regional Guidelines for Underground Storage Tank Sites".

The results of the chemical analysis of the soil samples indicated below detectable levels of Total Petroleum Hydrocarbons (TPH) as gasoline and Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) from the three borings.

Analysis of the groundwater samples from monitoring wells MW-1, MW-2, MW-3, and MW-4 indicated elevated concentrations of hydrocarbons. Analytical results of groundwater samples from monitoring wells MW-5 and MW-6 indicated below detectable levels of constituents indicating a lateral extent of contamination.

If you have any comments regarding this report, please call me.

Sincerely.

Misty C. Kaltreider

Geologist

cc:

Mr. Richard Hiett - Regional Water Quality Control Board

Ms. Juliet Shin - Alameda County Health Care Services - Division of

Hazardous Materials

Mr. Wyman Hong - Alameda County Flood Control and Water Conservation District,
Zone 7



SOIL AND GROUNDWATER INVESTIGATION

2425 ENCINAL ALAMEDA, CALIFORNIA

January 1994

Prepared for: Mr. Steve Chrissanthos Alameda Cellars 1702 Lincoln Avenue Alameda, CA 94501

Prepared by:

Prepared by:

Misty Kaltreider Project Geologist

Reviewed by:

Christopher M. Palmer, CEG #1262 Certified Engineering Geologist

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1.0 INTRODUCTION

This report presents the procedures and findings of a soil and groundwater investigation conducted by ACC Environmental Consultants. Inc., ("ACC") on behalf of Mr. Steve Chrissanthos and Alameda Cellars, site owner at 2425 Encinal, Alameda, California. The project objective, as described in the Work Plan prepared on November 5, 1993, was to drill and install three groundwater monitoring wells to evaluate the extent of groundwater impact from the previous underground storage of gasoline.

2.0 BACKGROUND

The site is presently occupied by Alameda Cellars, a commercial liquor store. The property is owned by Mr. Steve Chrissanthos. In March, 1990, two 10,000-gallon gasoline tanks were removed from the above referenced site. Analysis of the soil samples collected from beneath the two gasoline tanks indicated up to 710 parts per million (ppm) of Total Petroleum Hydrocarbons (TPH) as gasoline. Soil samples collected from beneath the diesel tank indicated less than detectable levels of TPH as diesel.

In December 1992, five borings were drilled on-site. Three of the borings were converted into monitoring wells MW-1, MW-2a, and MW-3. Analytical results of the soil collected during drilling and soil sampling indicated a maximum soil concentration of Total Petroleum Hydrocarbons (TPH) as gasoline as 1,365 ppm. Benzene concentration was 18.9 ppm in the same sample.

Initial groundwater samples collected in January, 1993, from the monitoring wells indicated a maximum TPH-gasoline concentration of 5,680 ppb (MW-2a) and a maximum benzene concentration of 1,560 ppb (MW-1).

Additional soil investigation was conducted in May, 1993 to evaluate the extent of contamination in the soil and groundwater. Findings of the additional investigation indicated the lateral extent of hydrocarbon impacted soil did not appear to extend beyond the property boundaries along the northern, western, and eastern sides. However, along the southern side, the impacted soil appears to extend into Park and Encinal Avenues. Field observations made during the additional investigation and soil sample analysis indicated the soil hydrocarbon plume is primarily around the former tank excavation and the former dispenser island. The vertical limit of hydrocarbons in the soil is estimated to occur at the present groundwater table.

Analysis of "grab" groundwater samples collected from borings drilled during the additional investigation indicate the residual hydrocarbons from the former tank excavation and dispenser island is migrating off-site via the groundwater.

Per request of Alameda County Health Care Services - Hazardous Materials Division, this preliminary Site Assessment was conducted to further evaluate the groundwater contamination from the gasoline release on-site.

ACC was retained by Mr. Chrissanthos, to perform the work requested by the Alameda County Health Care Services.

3.0 FIELD PROCEDURES

Borings MW-4 and MW-5 were drilled on December 10, 1993 using a B-53 mobile drill rig equipped with 8-inch outside diameter hollow-stem augers. Boring MW-6 was drilled on December 14, 1993 using a SEMCO Limited Access drill rig equipped with 8-inch outside diameter hollow-stem augers. Concurrent with drilling, subsurface soil samples were obtained with a Modified California Sampler equipped with three six-inch long brass liners. The sampler and brass liners were pre-cleaned prior to use and between sample drives by washing them with a trisodium phosphate (TSP) and potable water solution, a potable water rinse, and distilled water rinse.

Soil samples were collected every five feet, at any noted changes in lithology, and at the approximate soil/groundwater interface. Subsurface soil samples were obtained by drilling to the approximate sampling location and then driving the sampler eighteen inches into undisturbed material.

An HNU photoionization detector (PID) was used during drilling and sampling procedures to detect field evidence of volatile hydrocarbon vapor in the soil.

Soil sample and drill cuttings were prescreened for volatile organic compounds with a PID calibrated for Hexane. Upon removal from the sampler, each end of the brass liner was covered with Teflon tape and plastic caps, labeled, and stored in an ice-filled cooler to be transported under chain of custody to Chromalab, Inc., a Cal-EPA certified analytical laboratory.

A minimum of two soil samples were selected from each boring and submitted to ChromaLab for analysis according to the "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites", dated August 10, 1990. Samples from the borings were submitted for analysis for Total Petroleum Hydrocarbons (TPH) as gasoline by EPA test method 5030 and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA test method 8020. Copies of the analytical results and chain of custody forms are provided in Appendix A.

The soil cuttings and samples were logged by an ACC geologist during drilling operations. Soil cuttings are described in accordance with the Unified Soil Classification System. Lithologic logs of the borings and the Unified Soil Classification System are attached in Appendix B. Soil cuttings were stored on-site in DOT approved drums pending disposal at an accepting facility.

3.1 Monitoring Well Construction and Development

Monitoring wells MW-4, MW-5 and MW-6 were installed within borings MW-4, MW-5, and MW-6, respectively, upon completion of drilling. Well construction details are attached in Appendix B. The three monitoring Wells were installed with well casings consisting of 2-inch I.D. Schedule 40 PVC with 13 feet of 0.020-inch factory slotted screen below 5 feet of solid casing.

The wells were installed with Lonestar #2/12 sand used as annular fill to at least one foot above the top of the screen. One-half foot of 1/4-inch pelletized bentonite was placed between the annular sand and neat cement seal. "Christy" boxes were cemented over the tops of the PVC casings and set slightly above grade to drain surface waters away from the well head. Locking expansion plugs with locks were placed on each well.

The wells were developed on December 31, 1992 and December 15, 1993, by bailing with designated disposal Teflon bailers. Each well was developed until development water was clear and essentially free of fine material. Approximately four well volumes of water were removed from each well and placed in sealed 55-gallon drums on-site. The drums were labeled pending analytical results.

3.2 Groundwater Sampling

Groundwater samples were taken on December 20, 1993 from monitoring wells MW-1, MW-2a, MW-3, MW-4, MW-5, and MW-6. Prior to groundwater sampling the depth to the surface of the water table was measured from the top of the PVC casing using a Solinst Water Level Meter. Information regarding well elevations and groundwater level measurements is summarized in Table 1.

TABLE 1 - Groundwater Depth Information

Date Sampled	Depth to Groundwater (Ft.)	Groundwater Elevation (Ft.)
		-
Well No. MW-1	Elevation of Top of Casing-27.61	
01/09/93	6.75	20.86
02/09/93	6.41	21.20
03/10/93	6.34	21.27
04/12/93	6.52	21.09
05/17/93	7.38	20.23
06/28/93	8.42	19.19
07/13/93	8.68	18.93
08/10/93	8.25	19.36
09/10/93	8.73	18.88
10/12/93	9.04	18.57
12/20/93	7.87	19.74
Well No. MW-2a	Elevation of Top of Casing-27.98	MSL
01/09/93	7.06	20.92
02/09/93	6.63	21.35
03/10/93	6.57	21.41
04/12/93	6.77	21.21
05/17/93	7.61	20.37
06/28/93	8.68	19.30
07/13/93	8.94	19.04
08/10/93	8.66	19.32
09/10/93	8.95	19.03
10/12/93	9.36	18.62
12/20/93	8.24	19.74

TABLE 1 - Groundwater Depth Information, cont.

Date Sampled	Groundwater Elevation (Ft.)	
Well No. MW-3	Elevation of Top of Casing-27.89 M	I SL
01/09/93	6.68	21.21
02/09/93	6.25	21.64
03/10/93	6.18	21.71
04/12/93	6.41	21.48
05/17/93	7.37	20.52
06/28/93	8.47	19.42
07/13/93	8.74	19.15
08/10/93	8.45	19.44
09/10/93	8.52	19.37
10/12/93	9.20	18.69
12/20/93	7.95	19.94
Well No. MW-4	Elevation of Top of Casing-26.97 M	ISL
12/20/93	7.25	19.72
Well No. MW-5	Elevation of Top of Casing-27.34 M	ISL
12/20/93	8.01	19.33
Well No. MW-6	Elevation of Top of Casing-28.03 M	ISL
12/20/93	8.00	20.03

Notes: All measurements in feet

MSL = Mean Sea Level

After water-level measurements were taken, each on-site well was purged by hand using a designated disposable Teflon bailer for each well. Groundwater Ph, temperature and electrical conductivity were monitored during well purging. Each well was considered to be purged when these parameters stabilized. Three to four well volumes were removed to purge each well. Worksheets of conditions monitored during purging are attached in Appendix C.

After the groundwater level had recovered to a minimum of approximately 80 percent of its static level, water samples were obtained using designated disposable Teflon bailers. Two 40 ml VOA vials, without headspace, were filled from the water collected from each monitoring well.

The samples were preserved on ice and submitted to Chromalab Inc. under chain of custody protocol. Laboratory results with chain of custody forms are attached in Appendix D.

4.0 FINDINGS

4.1 Subsurface Conditions

During drilling and sampling activities, the site was observed to be covered with a baserock/asphalt cap. Below the cap, the subsurface soils consisted of brown fine grained sand with silt to the depth investigated of 18 feet below the surface.

During drilling and sampling field evidence of volatile organics (i.e. discoloration and odor) were detected from boring MW-4 from approximately 8 to 11 feet below ground surface. No evidence of volatile organics was detected in borings MW-5 and MW-6.

Groundwater was encountered at approximately 9-1/2 to 10 feet below ground surface (bgs) during drilling. Monitoring wells MW-4, MW-5 and MW-6 were completed to the drilled depth in each boring, 18 feet below ground surface.

The sand is interpreted to be part of the Merritt Sand Formation which is interpreted to be a wind and water deposited beach and near-shore deposit and is exposed only in the Alameda and Oakland areas. A report by the Alameda County Flood Control and Water Conservation District, Geohydrology and Groundwater - Quality Overview, East Bay Plain Area, Alameda County, California, 205 (J) Report, June 1988, describes the Merritt Sand as consisting of loose well-sorted, fine to medium grained sand and silt, with lenses of sandy clay and clay.

4.2 Analytical Results - Soil

Two soil samples were collected from each boring and submitted Chromalab for analysis of TPH as gasoline with BTEX. Samples chosen for analysis were collected at the Fill material and Merritt Sand interface and capillary fringe. The samples indicated that below detectable levels of constituents were detected. Copy of the analytical results with chain of custody form is attached in Appendix A.

4.3 Analytical Results - Groundwater

One groundwater sample each from monitoring wells MW-1, MW-2a, MW-3, MW-4, MW-5, and MW-6 was collected and submitted to Chromalab for analysis for TPH as gasoline by EPA test method 5030 and BTEX by EPA test method 602. Analysis results from the groundwater samples are summarized in Table 2 and Figure 2. Copies of the analytical results are attached in Appendix D.

TABLE 2 - Analytical Results - Groundwater

Well <u>Number</u>	Date Collected	TPH-gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)
MW-1	01/09/93	5,360	1,560.0	1,026.6	641.0	2,706.2
	04/12/93	12,000	750.0	100.0	500.0	1,400.0
	07/13/93	720	119.6	32.7	70.8	262.0
	10/12/93	8,400	420.0	39.0	280.0	880.0
	12/20/93	5,200	270.0	58.0	170.0	590.0
MW-2a	01/09/93	5,680	801.6	598.6	840.2	2,196.1
	04/12/93	12,000	460.0	110.0	240.0	1,600.0
	07/13/93	550	145.2	47.5	126.8	127.4
	10/12/93	2,000	280.0	17.0	100.0	120.0
	12/20/93	3,300	450.0	40.0	200.0	350.0

TABLE 2 - Analytical Results - Groundwater

Well Number	Date Collected	TPH-gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)
MW-3	01/09/93 04/12/93 07/13/93 10/12/93 12/20/93	<50 1,500 540 3,500 690	<0.5 95.0 18.3 290.0 31.0	<0.5 30.0 106.2 230.0 10.0	<0.5 46.0 75.7 210.0 31.0	<0.5 85.0 128.0 460.0 25.0
MW-4	12/20/93	580	2.3	< 0.5	1.4	1.1
MW-5	12/20/93	< 50	< 0.5	< 0.5	< 0.5	< 0.5
MW-6	12/20/93	< 50	< 0.5	< 0.5	< 0.5	< 0.5

Note: ug/L = parts per billion (ppb)

4.4 Groundwater Gradient

Prior to calculating the groundwater gradient, elevations for the on-site monitoring wells were surveyed by Ron Archer Civil Engineer, Inc. to an accuracy of one-hundredth of a foot. The well elevation was surveyed at the top of the PVC well casing. The elevations of the monitoring wells were established relative to a nearby benchmark located in the curb on the northwest corner of the intersection of Park and Encinal Avenues in Alameda, California.

The groundwater gradient was calculated using the on-site monitoring wells. The location of the wells is shown on Figure 1 - Site Plan. Groundwater elevations were collected from the wells on December 20, 1993 and are illustrated in Figure 3. The gradient was evaluated by triangulation using the elevation of the potentiometric surface measured with respect to Mean Sea Level datum.

The historical groundwater gradient and the direction of groundwater flow on-site is summarized in Table 3.

TABLE 3 - Historic Groundwater Gradient

Date Monitored	Gradient (foot/foot)	Direction
01/09/93	0.009	west
02/09/93	0.013	southwest
03/10/93	0.012	west/southwest
04/12/93	0.012	west/southwest
05/17/93	0.0078	south/southwest
06/28/93	0.0076	southwest
07/13/93	0.0058	southwest
08/10/93	0.004	west
09/10/93	0.015	southwest
10/12/93	0.004	southwest
12/20/93	0.0083	west

5.0 CONCLUSION

The data and observations discussed herein indicate that groundwater has been impacted due to an unauthorized hydrocarbon release. The analytical parameters used for soil and groundwater sampling performed were in accordance with the guidance document "Tri-Regional Water Quality Control Boards Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites", dated August 10, 1990, for gasoline tanks.

First quarter sampling and analysis indicated elevated levels of TPH as gasoline with BTEX in the groundwater from monitoring well MW-1 and MW-2a. Groundwater from monitoring well MW-3 has below detectable levels of constituents. Second quarterly sampling and analysis of the groundwater in April indicated an increase in levels of Total Petroleum Hydrocarbons as gasoline in all wells, however, the benzene, toluene, ethylbenzene and xylenes levels have declined in water samples from monitoring wells MW-1 and MW-2a. Constituents detected during July 1993 appear decreasing due to the fluctuating groundwater elevation. During October 1993 sampling, constituents in monitoring wells MW-1 and MW-3 have increased while only TPH as gasoline and benzene have increased in monitoring well MW-2a. Benzene increase in MW-2a is probably due to residual drainage and the well's close proximity to the former tank location.

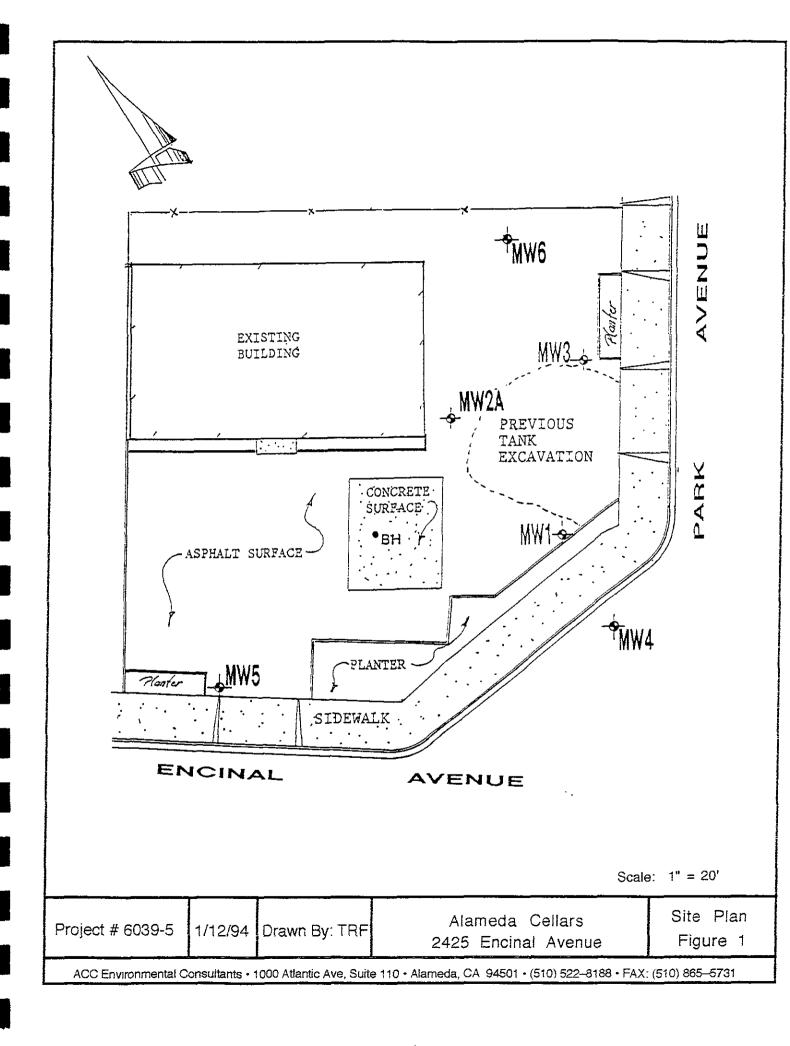
Three additional monitoring wells (MW-4, MW-5, and MW-6) were installed to evaluate the extent of groundwater contaminate plume. Laboratory analysis of the soil collected from each boring indicated below detectable levels of constituents which verifies the lateral extent of soil contamination.

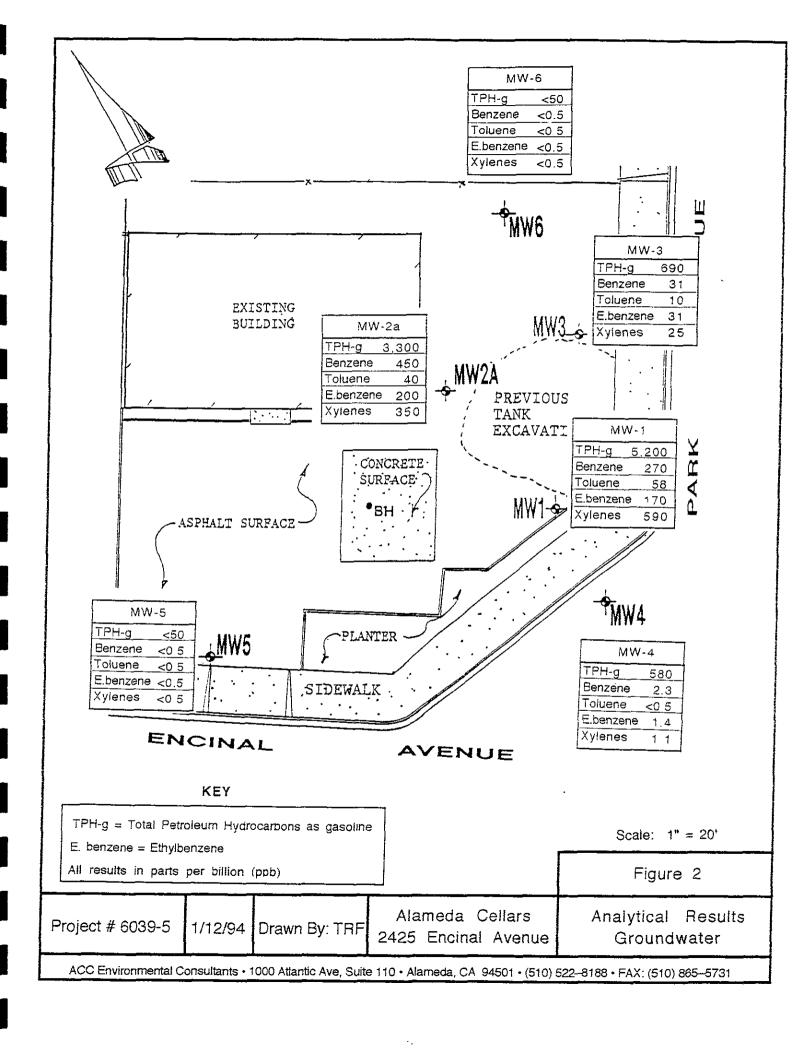
Laboratory analysis of the groundwater samples collected from monitoring well MW-5 and MW-6 indicated below detectable levels of constituents evaluated. The groundwater results indicated a lateral extent of groundwater contamination. Laboratory analysis of groundwater collected from monitoring well MW-4 indicated low detectable levels of constituents. Constituents reported from monitoring well MW-4 are low when compared with reported levels in monitoring wells MW-1, MW-2a, and MW-3. The location of the southern edge of the groundwater contaminant plume is just off-site to the south. This "side" gradient movement is attributed to the relatively flat gradient and possible recharge into the excavated area.

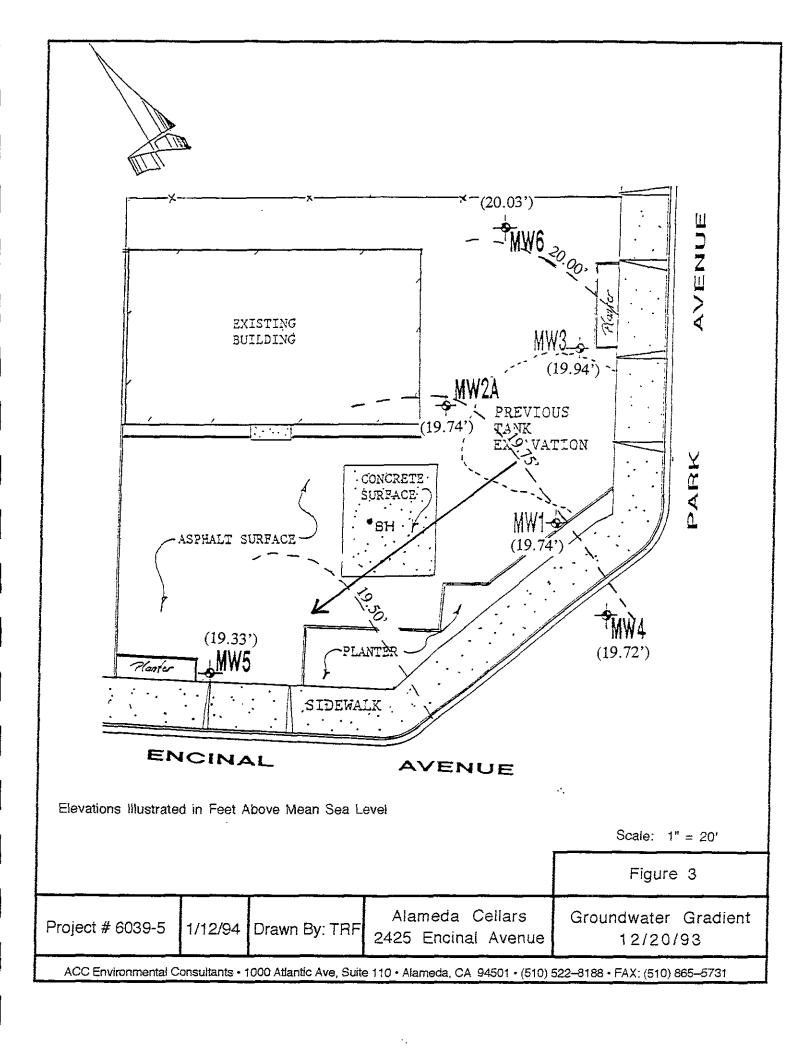
6.0 RECOMMENDATIONS

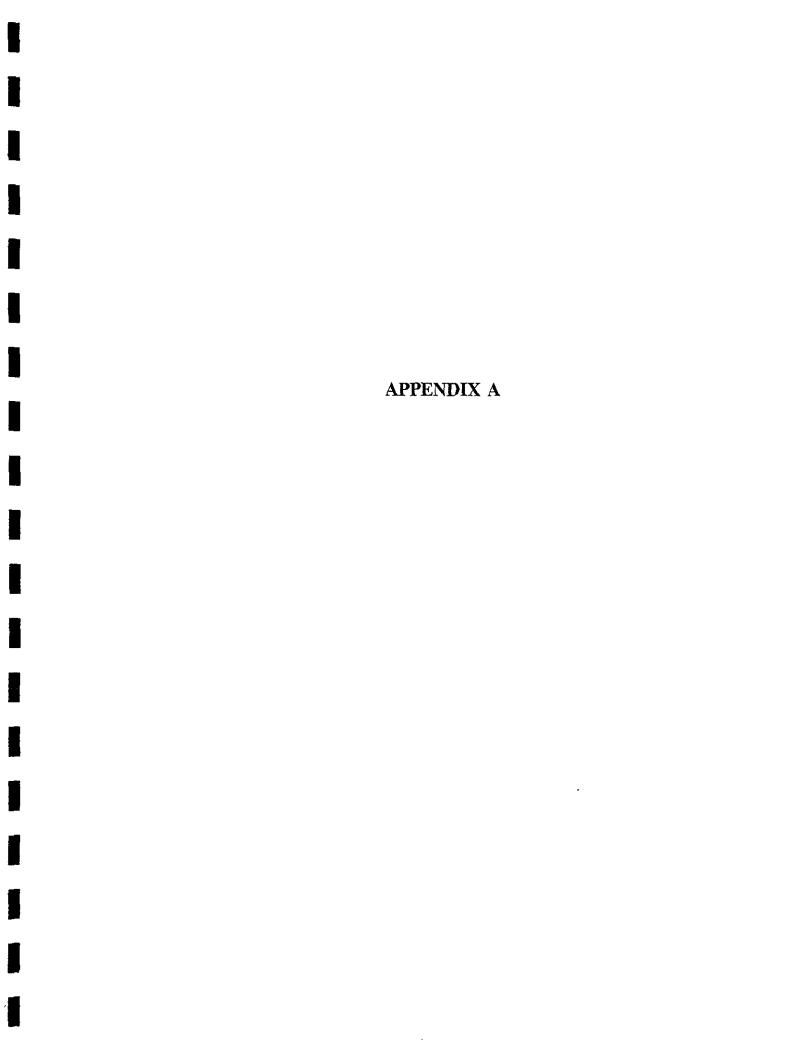
Pursuant to the Tri-Regional Board guidelines, groundwater sampling and monitoring of the on-site wells should continue on a quarterly basis.

Pursuit to the CCR Title 23, Chapter 16, Articles 5, 7, and 11 of the Underground Storage Tank regulations a Corrective Action Plan is being drafted to determine the method of cleanup. The Corrective Action Plan will identify and evaluate the appropriate corrective actions for the property located at 2425 Encinal Avenue.









Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 17, 1993

ChromaLab File#: 9312163

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: 2425 ENCINAL

Submitted: December 13, 1993

Project#: 6039-5

re: 4 samples for Gasoline and BTEX analysis.

Matrix: SOIL

Sampled on: December 10, 1993

Method: EPA 5030/8015/8020

Analyzed on: December 15, 1993

Run#: 1861

Ethyl Total Gasoline Benzene Toluene Benzene Xylenes Lab # SAMPLE ID (mg/Kg) (ug/Kg) (ug/Kg) (ug/Kg) (ug/Kg) 39363 MW-4-5 1/2 N.D. N.D. N.D. N.D. N.D. 39364 MW-4-11 N.D. N.D. N.D. N.D. N.D. *39365* MW-5-6 N.D. N.D. N.D. N.D. N.D. 39366 MW-5-11 N.D. N.D. N.D. N.D. N.D. DETECTION LIMITS 1.0 5.0 5.0 5.0 5.0 BLANK N.D. N.D. N.D. N.D. N.D. BLANK SPIKE RECOVERY(%) 96 114 109 109 112

ChromaLab, Inc.

BillyThach

Chemišt

Eric Tam

Laboratory Director

DOHS 1094

SUBM #: 9312163 DUE: 12/20/93

REF: 14438

Chain of Custody

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SAMPLERS (SIGNATURE)					TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, 8+F, E+F)	30)	୍ଥି	TOTAL RECOVERABLE HYDROCARBONS (EPA		METALS: Cd, Cr, Pb,	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)		}			1	NUMBER OF CONTAINERS
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Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 20, 1993

ChromaLab File#: 9312181

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: 2425 ENCINAL

Submitted: December 14, 1993

Project#: 6039-5

2 samples for Gasoline and BTEX analysis.

Matrix: SOIL

Sampled on: December 14, 1993 Method: EPA 5030/8015/8020

Analyzed on: December 15, 1993

Run#: 1860

Lab # SAMPLE ID	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes _(ug/Kg)
39467 MW-6-6	N.D.	N.D.	N.D.	N.D.	N.D.
39468 MW-6-10 1/2	N.D.	N.D.	N.D.	N.D.	N.D.
DETECTION LIMITS BLANK BLANK SPIKE RECOVERY(%)	1.0	5.0	5.0	5.0	5.0
	N.D.	N.D.	N.D.	N.D.	N.D.
	97	97	100	107	104

ChromaLab, And

Chemist

Eric Tam

Laboratory Director

SUBM #: 9312181 CLIENT: ACC DUE: 12/21/9:

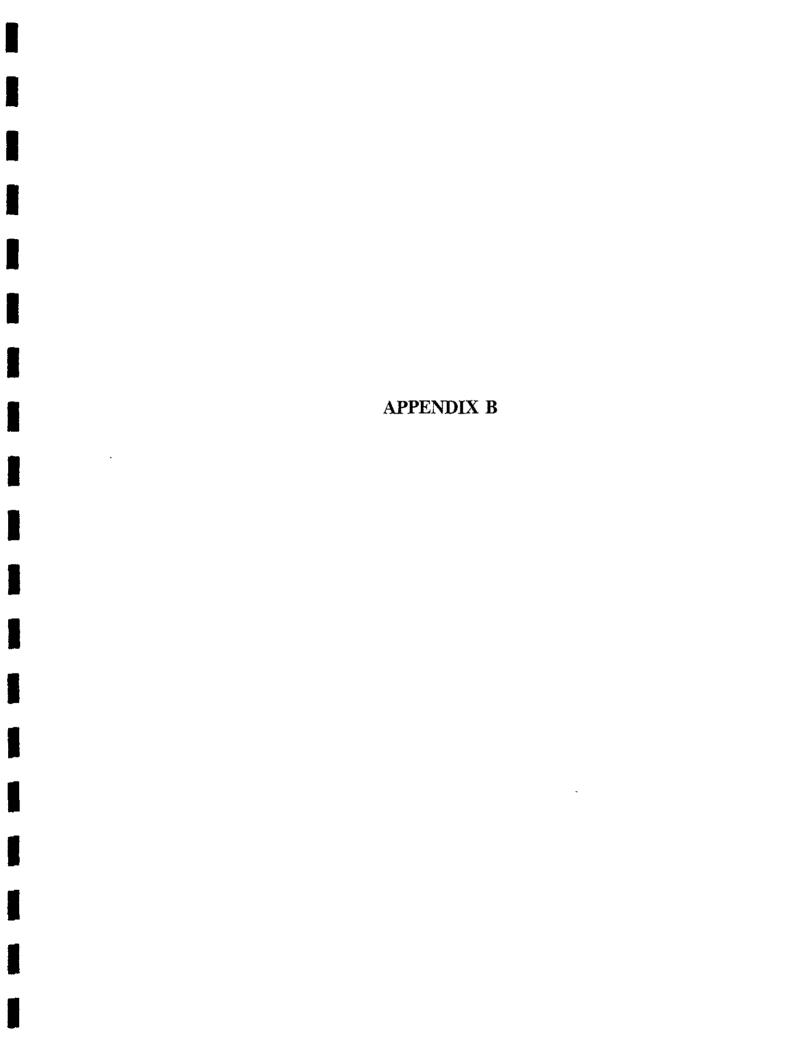
DUE: 12/21/93 REF: 14456 order "14456 181/394167.8

DOHS 1094

22

Chain of Custody

0- 16	1/ /		/													DAT	E _/	2-/	4-95	2	PAGE .	_/_		OF	
PROJ. MGR. JV). KO	freich	$e \sim 1$	ACC E	noinn	:		7						AN.	ALYSI	REPO	PIT									
PROJ. MGR. M. KO COMPANY ICOU A ADDRESS A WME SAMPLERS (SIGNATURE)	tbalia do, c				- 1	(EPA 5030, 8015) TPH - Gasoline (5030, 8015)	(0, 8015)	ROMATICS , 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	SANICS 1, 524.2)	LS, ACIDS 8270, 525)	SREASE , E+F)			RABLE NS (EPA 418.1)		, Pb, Zn, Ni	(2)	UTANT						TAINERS
Misky	Kolle	eidon	0125g		ن ن	(EPA 5030, 8015) TPH - Gasoline (5030, 80 **/PTEY (EDA 603, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	RGEABLE H A 601, 8010	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA		METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)				NUMBER OF CONTAINERS
SAMPLE ID.	DATE	TIME	MATRIX	PRESER	V.			F 18	<u>5</u> ∰	VO EP	BAS (EP.	TO (EP.	PCB (EPA	PES (EP.	10 14 14 15		MET	\ V V	PRIC	δ		ĺ	ļ		S S
MW-6.	Plukiz		5			X							-					<u> </u>							7
mus-6-10/2			1			X										··									Ť
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				 	_													 -		-					
																								_	
PROJECT INFORM	ATION		SAME	LE REC	EIPT		RELIN	IQUISH	ED BY			بــــــا	l ps	****	HED BY										
PROJECT NAME: 2425 FAC I'AN PROJECT NUMBER:	(.	TOTAL	NO. OF CO	NTAINER	3	2	(COMP	D.	Val	Look	1,-	. '	Luci	.inuuis	HED BY	•			2. RI	ELINQU	JISHED	BY			3.
PROJECT NUMBER:		HEAD S	SPACE				(SIGNA	TURE	<u>ر، حد</u>	Terc	<u> </u>	(TIME)	(SIG	NATURE)			(1)	ME) (SI	GNATU	3F)				(TIME)
		REC'D G	300D COV	IDITION/C	OLD		(PRINT	S/L ED MAM	169 11	re ic	100.	14/14	(3)	NTED NA										'	(+IMIC)
P.O. TO GO STANDARD		CONFO	RMS TO RI	ECORD			A	CE	<u>า้บเ</u> ำ	nne	dne	(, T (PRIII	NIED NA	ME)			(DA	(PI	RINTED	NAME)			(1	(DATE)
5-DAY			24	18 72		THER							(CO	MPANY)					(0)	OMPAN	n				
SPECIAL INSTRUCTIONS/COMMENTS:							HEUE	NED B/	ſ			1	REC	EIVED	BY				2. RE	CEIVE	D BY (L	ABORA	ORY)		3
							(SIGNA	TURE)				(TIME)	(S!Gi	NATURE)					_ _		10	20		14.	20
							(D20)						(TIME					NE) (SI	(SIGNATURE) (TIME) (PRINTED NAME) (DATE) (LAB)						
							[FAIRALE]	ED NAME	:-}			(DATE)	(PAII	NTED NA	ME)		*	(DA	TE) (P	INTED P	NAME)	rou	<u> </u>	(E	DATE
l							(COMP	ANY)					(CON	(PANY)			·		- L		ama	106			



Well Sampling Well Develo	pment check one
Well Number: MW-1	
Job Number: 6039-4	÷
Job Name: 2425 Encina	
Date: 12/20/93	- سو
Sampler: <u>Carl Socie</u>	•
Depth to Water (measure	ed from TOC): 7, \$7
Inside Diame	iter of Casing: 2"
Dep	oth of Boring: 18
Method of well develope	nent/purging: Bailer
	ed from well: Fgallons
Depth to Water after well of	development:
Depth to water prior	to sampling: 8.50
Bailed water stored on-s	^
Number of well volume	es removea: 4
TSP wash, distilled rinse,	new rope? New rope
Water Appearance:	
froth	Samples Cotained:
other, describe	TPH (gasoline)
Gallons Removed CH ED Temp	TPH (gasoline) TPH (diesel) TPH (motor gii)
5 675 22-1	BTXE EPA 624
10 6 -9 25 2 15 202 25 7	EPA 625
20 1 122/157	EPA 608
25 1,48 75.7	PCEs only
30	Metals Other, specify
35	Field Blank
45	
50	

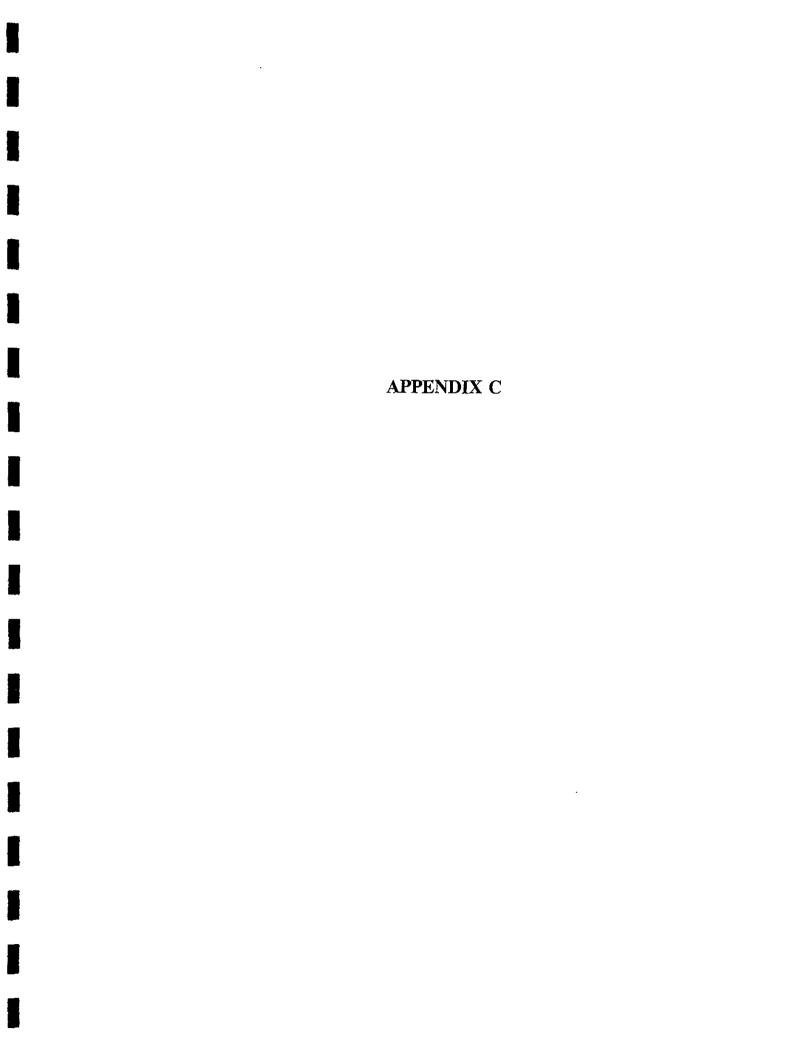
/ '	i
Well Sampling Well Developmen	nt check one
Well Number: MW-2a	
Job Number: 6039-4	
Job Name: 2425 Encina	-
Date: 12/20/93.	· •
Sampler: Carl	
Depth to Water (measured fro	om TOC): \$8.24'
Inside Diameter o	f Casing: 2"
Depth o	of Boring: 15'
Method of well development	/auraina> () a \ - 3 (
	{ / feet = 100
Amount of Water Bailed/Pumped fro	
Depth to Water after well devel	
Depth to water prior to sa	ampling: 3 8 0 '
Bailed water stored on-site ?	How? Prons
Number of well volumes re	emoved: Y
TSP wash, distilled rinse, new	rope? New Lope
Water Appearance:	
ves no	
froth X	
irridesence X	·
smell x 9as	Samples Obtained:
product	
other, describe	TPH (gasoline)
	TPH (diesel)
Gailons Removed pH EC Temp	TPH (mater gii)
5 1 1 6.9018.1	BTXE
10 7.630.0	EPA 624 EPA 625
15 1 17-2470-7	EPA 608
25 699 23	PCEs only
30 72.21 72.8	Metals
35 708 734	Other, specify
40 722 787	Field Blank
45 7.08 75.2	_
50 717 752	

Well Sampling Well Dev	relapment check one
Well Number: M \ullimber 3	1'00 Pun
Job Number: 6039-4	1 00 4001
Job Name: 2425 Francial	
Date: 12/20/43	-
Sampter: Car	
Depth to Water (meas	sured from TOC): 7.95.
Inside Dia	meter of Casing: 3"
	Depth of Boring: 15
	opmenuourging: Bailer -
Amount of Water Bailed/Pu	mped from well: 4.6 galous
Depth to Water after we	eil development:
Depth to water pri	for to sampling: 8.5
Bailed water stored o	on-site ? How ? Proms
Number of well volu	umes removed: 4
TSP wasn, distilled rins	sa, new rope ? New Rope
Water Appearance:	
ves no	
froth X I	
oil	•
smell our	Samples Obtained:
product	
other, describe	TPH (gasoline)
Carlosa Raman al al La Estada	TPH (diesel)
Gailons Pernoved DH E Temp	TPH (motor gil)
5 7 4.12 65 7 10 7 5 20 67.6	BTXE EPA 624
15	EPA 625
20 170168.9	EPA 608
25 7.29 63.41	PCSs only
30 1 17.06 168.9	Metals
35	Other, specify
40	Field Blank
45	

Well Sampling Well Development	check one
Well Number: MW-4	2'-30
Job Number: 6039-4	Z - 7 ·
Job Name: 2425 Encinal	•
Date: 12/25/93	·
Sampler: Carl Some	
Depth to Water (measured from T	$(cc): \frac{7.25}{}$
Inside Diameter of Ca	sing:2"
	nng:18
Method of well development/purc	
Amount of Water Bailed/Pumped from v	
Depth to Water after well developm	•
Depth to water prior to sample	ling: 7.52'
Bailed water stored on-site ? How	v? Duns
Number of well volumes remov	ed:
TSP wash, distilled rinse, new rope	? New rope
Water Appearance:	,
froth	
irridesence ;	•
smell	Samoles Obtained:
product	
other, describe	TPH (gasoline) TPH (diesel)
Gallons Removed pH EC Temo	TPH (mater gil)
5 5,67 66.8	STXE
10 15 661,20 15 15.67 66.91	EPA 624 EPA 625
20 5.62 (1.7.0)	EPA 608
25	PCEs only
30	Metals
35	Other, specify Field Blank
45	rield Eldlik

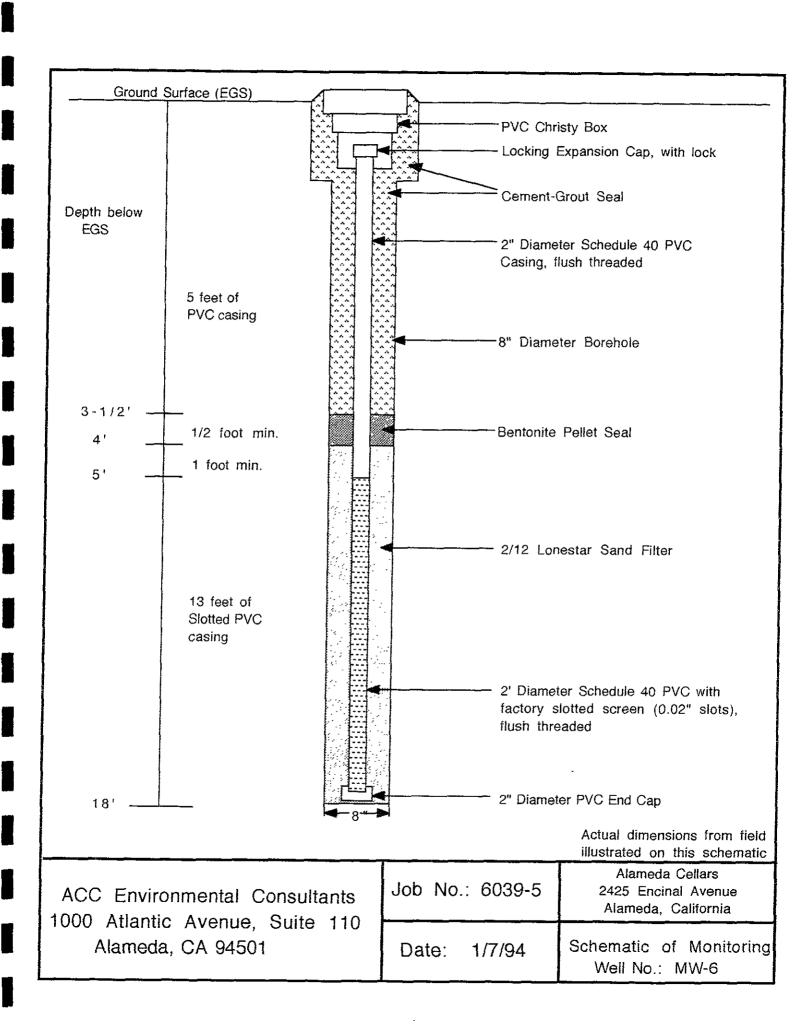
		•
Well Sampling Well Develop	pment	check one
Well Number: MW-5	·	3:00
Job Number: 6039-4		· :
Job Name: 2425 Encina		
Date: 12/20/93	-	۰ سو
Sampler: Carl Some		
Depth to Water (measure	d from TCC): 9.01	
	ter of Casing: 2"	
	oth of Boring: $\frac{18^{-1}}{1}$	
Method of weil developn	mentipurging Bail	<i>₹</i>
Amount of Water Bailed/Pumpe		
Depth to Water after well d	evelopment:	
Depth to water prior t	to sampling: 8.5°	2. (
Bailed water stored on-si		;
Number of well volume		
TSP wasn, distilled rinse, i		ove
Nater Appearance:		,
roth ves no ridesence		
mell	Samoles Cb	(ainec:
ther, describe	TPH (gasoli TPH (diesel	
allons Fernoved pH EC Temp	TPH (mater	(iio,
5 7 87 17/3 10 17.80 71.3	BTXE EPA 624	
15 134 37	EPA 625	
20 7.82 71.3	EPA 608	
25	PCBs aniy	
30	Metals Other speci	<u>, </u>
35 40	Other, specii Field Blank	y
45	rieu cialik	i
50		

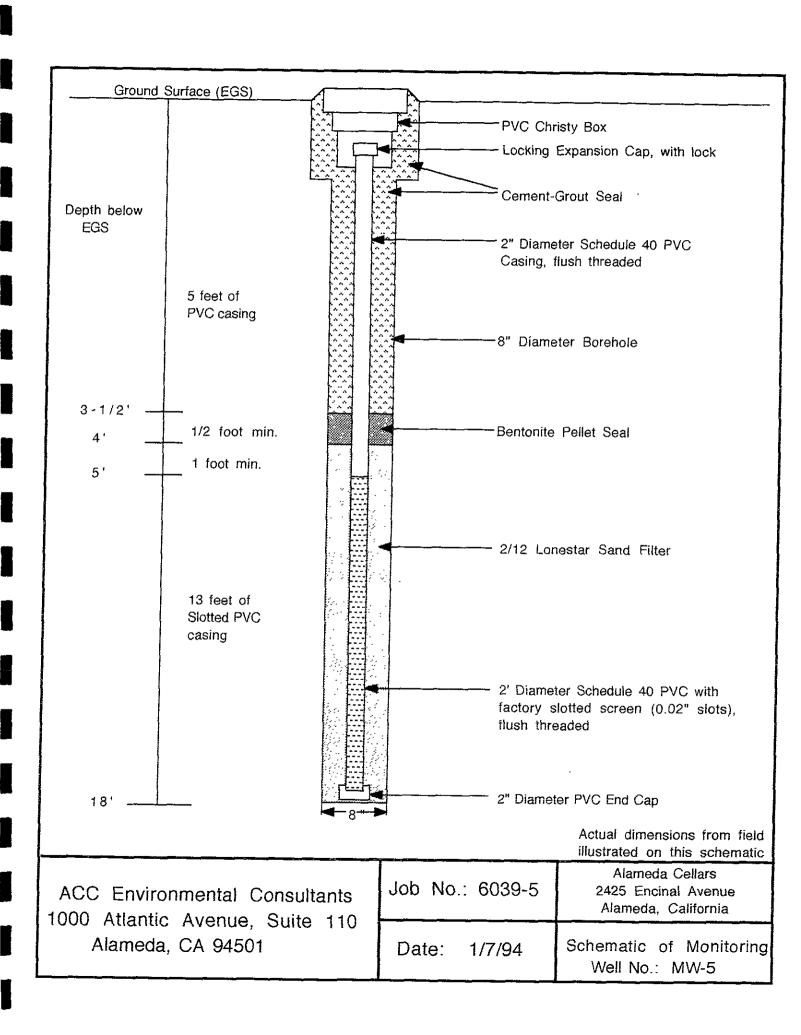
Well Sampling Well Deve	elopment	check one
Well Number: MW-6		
Job Number: 6039-4	12 -	.00
Job Name: 2425 Encinal	-	÷
Date: 12/25/93	•	,
Sampler: Carl Some		
		00 "
Depth to Water (measu	ired from TOC): <u>>·</u>	· · · · · · · · · · · · · · · · · · ·
Inside Dian	neter of Casing: $\frac{2}{2}$	
٥	lepth of Boring: 18	2 /
Method of well develop	pment/purging: Sc	· ·
Amount of Water Bailed/Pum	pea from well: 6	Sgallon
Depth to Water after well	development:	
. Depth to water prio	r to sampling: \mathcal{S}, \mathcal{L}	·s /
Bailed water stored on	-site ? How ? Dr.	; 15
Number of well volur	1 ,	
TSP wash, distilled rinse	e, new rope ? New	10/e
Water Appearance:	<u>-</u> -	,
froth ves no froth irridesence oil smell product other, describe	Samoles TPH (gas	soline)
Gallons Removed pH EC Temp 5	TPH (die TPH (mo BTXE EPA 624 EPA 625 EPA 608 PCBs only Metals Other, spe Field Blan	tor oil)
50		

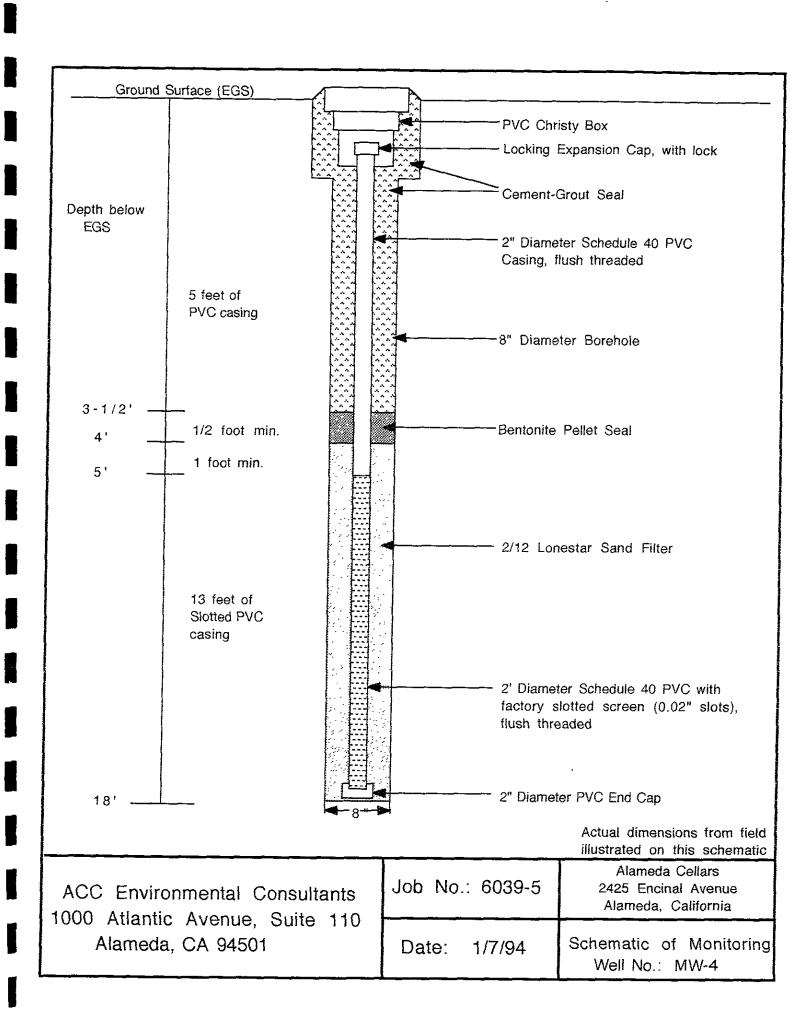


UNIFIED SOIL CLASSIFICATION SYSTEM											
	MAJOR DIVI	SIONS			<u> </u>	PICAL NAMES					
	GRAVELS	CLEAN GRAVELS	GW		well graded mixtures	gravels, gravel-sand					
Sieve	more than half	WITH LITTLE OR NO FINES	GР			ed gravels, gravel-sand					
GRAINED SOILS half > #200 sieve	coarse fraction is larger than No. 4	GRAVELS WITH	GМ		silty gravels silt mixture	s, poorly graded gravel-sand es					
SHAIN alf v	sieve	OVER 12% FINES	G C		clayey grave clay mixtur	els, poorly graded gravel-sand es					
ARSE than	SANDS	CLEAN SANDS WITH	sw		well graded	sands, gravelly sands					
ပြုစ	more than half coarse	LITTLE OR NO FINES	SP		poorly grade	ed sands, gravelly sands					
٢	fraction is smaller	SANDS WITH OVER	s м		silty sands, mixtures	poorly graded sand-silt					
	than No. 4 sieve	12% FINES	sc		clayey sand mixtures	s, poorly graded sand-clay					
9,0	04.70 410 01		ML			nd v.fine sands, rock flour silty or s, or clayey silts w/sl. plasticity					
D SOILS #200 sieve	SILTS AND CLA liquid limit less t	· · ·	CL		ınorg. clays	of low-med plasticity, gravelly clays, silty clays, lean clays					
GRAINED !			OL			and organic silty clays of					
GRA			мн		inorganic silt	y, micaceous or diatomacious or silty soils, elastic silts					
FINE	SILTY AND C liquid limit greate	- · · · -	СН			ys of high plasticity, fat					
more			ОН		organic clays organic silts	of medium to high plasticity					
	HIGHLY ORGANIC	60ILS	Pt	茲	peat and other highly organic soils						
		LEGEND FOR E	ORI	NG L	.ogs						
	Known Contact Boundary Contact Interval Depth groundwater was encountered boring Formational Boundary Unit Boundary ("date")										
]	C ENVIRONMENTAL CON 200 ATLANTIC AVENUE ALAMEDA, CA 94	, SUITE 110		S	oil Class	sification System					
Pro	ject No. 6039-5	Date: 1/9/94		DRN	: MCK	2425 Encinal Avenue Alameda, CA					

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Gregg Drilling and Testing Semco limited Access (8" hollow stem auger)	*Blows/6" (approx.)	HNu (ppm)	SAMPLE #	Sample Int.		Logg PRO	ed By	Calif. Modified Split Spoon M. Kaltreider 2425 Encinal 12/10/93					
Soil color described using Munsell soil color charts Color code					— 0 — — 2 —		grav med Fill: with	halt: 4" lift. Lt. brown silty yel (GM) & clayey gravel (GC), I grained,dense (baserock) Dark brown silty sand (SM) trace gravel, mottled reddish					
(10YR-3/3)	! ! ! !		MW-6		4 -		brow	n, medium dense, moist.					
(10YR-4/4)		0	6		6 -		sand	tt Sand: Dark yellowish brown (SP) fine grain, with trace clay, um dense, very moist.					
	! ! 	:			8 -								
		i i i 0	MW-6 10-1/2		170 -								
) 	11		-12 -								
		1			-14 -								
		0	MW-6 15-1/2		— 16 —		Sam	e as above, saturated					
		! { }			— 18 —		BOT	TOM OF BORING @ 18 FEET					
	 	! ! !			—20 —			nverted into Monitoring Well MW-6)					
]] 			22								
	} ! !	[! !			— 24 —								
 	 	1			- 26 -								
	; ; ;	! ! !			- ₂₈ -								
*Not collected using Lim	ited A	\cce	ss Drill F	Rig									
1000 ATLANTIC AVEU	ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVEUNUE, SUITE 110						5	Alameda Cellars 2425 Encinal Avenue Alameda, California					
ALAMEDA, CA		E	DATE: 1/	7/94		LOG OF BORING MW-6							

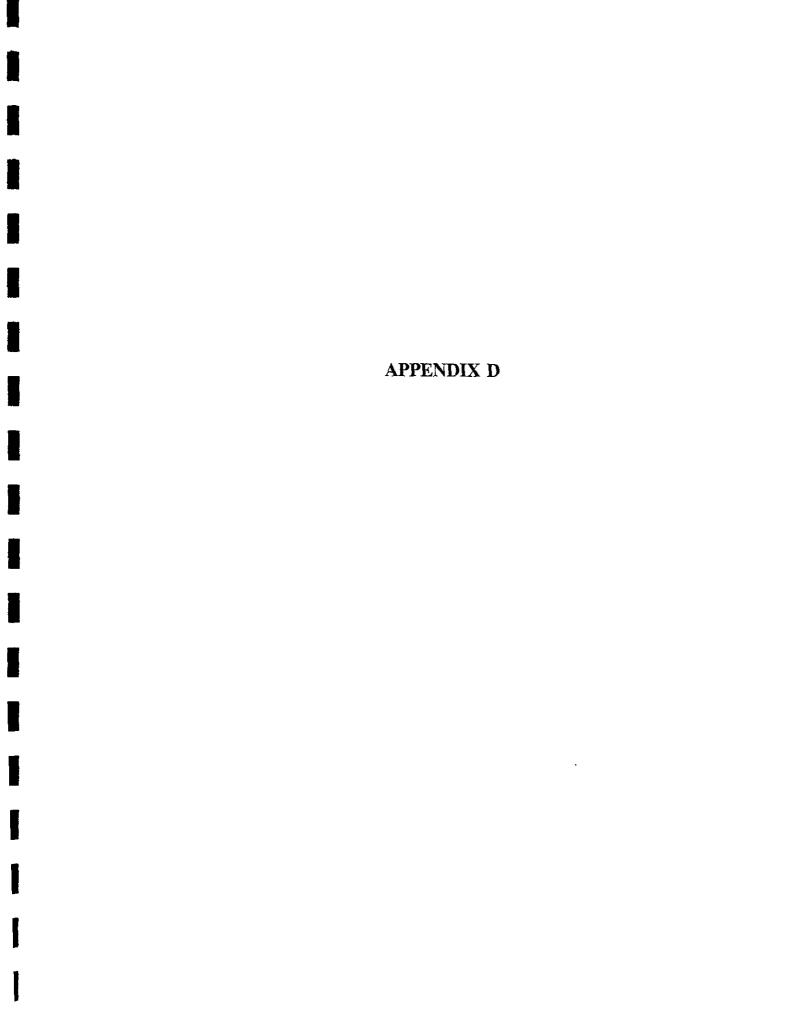
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Gregg Drilling and Testing B-53 Drill Rig. (8" hollow stem auger)	Blows/6" (approx.)	HNu (ppm)	SAMPLE	Sample Int.	!	Logged B	nt: Calif. Modified Split Spoon By: M. Kaltreider T: 2425 Encinal te: 12/10/93			
Soil color described using Munsell soil color charts Color code (10YR-4/3)	15	0	MW-5 6		- 2 - - 4 - - 6 -	gra me Fill: fine Men	phalt: 4" lift. Lt. brown silty avel (GM) & clayey gravel (GC), ed grained,dense (baserock) Brown clayey sand (SM) very grain, medium dense, moist. ritt Sand: Brown sand (SM) fine n, medium dense, very moist.			
	20	0	MW-5 11		<u>▼</u> -10 - -12 -	· •	own sand (SP) fine grain, medium nse, saturated.			
	30	0 1	MW-5 16		16 18	BO	ITOM OF BORING @ 18 FEET			
	A DESTRUCTION OF THE PART OF T			-	-20 - -22 -	1	onverted into Monitoring Well MW-5)			
	en the eas per that we do the ea				-24 -	The state of the s				
ACC ENVIRONMENTAL C				JC	DB NO: 6	039-5	Alameda Cellars 2425 Encinal Avenue			
1000 ATLANTIC AVEUN ALAMEDA, CA		E 110	D	ATE: 1/7	7/94	Alameda, California LOG OF BORING MW-5				

	,	_										
Gregg Drilling and Testing B-53 Drill Rig. (8" hollow stem auger)	Blows/6" (approx.)	HNu (ppm)	SAMPLE #	Sample Int	Depth Logg (feet) PRC Star	ged By: DJECT: t Date						
Soil color described using Munsell soil color charts Color code					- 2	grav med Fill:	halt: 4" lift. Lt. brown silty rel (GM) & clayey gravel (GC), grained,dense (baserock) Brown silty sand (SM), medium e, moist.					
(5GY-4/1)	20	0	MW4 5-1/2		— 6 — — 8 — <u>▼</u>	silty	tt Sand: Dark greenish grey sand (SM), medium dense, moist.					
	18	1+	MW-4 11		-10 - -12 -	!	e as above, saturated, slight ocarbon odor.					
		; ; ; ;			-14 -							
	18	0	MW-4 16		-16 -	ł	wn sand (SP), medium dense, irated.					
		## PAY ### [- 18	1	FOM OF BORING @ 18 FEET enverted into Monitoring Well MW-4)					
		; ; ; ;			-22							
] 	! ! ! !			-24 - -26 -							
	; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			-28 -							
ACC ENVIRONMENTAL C 1000 ATLANTIC AVEU	NUE,	SU	1	J	DBNO: 6039	- 5	Alameda Cellars 2425 Encinal Avenue Alameda, California					
ALAMEDA, CA	1			DATE: 1/7/94		LOG OF BORING MW-4						

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 30, 1993

ChromaLab File#: 9312268

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: 2425 ENCINAL Project#: 6039-4

Submitted: December 21, 1993

6 samples for Gasoline and BTEX analysis.

Matrix: WATER

Sampled on: December 20, 1993 Analyzed on: December 28, 1993

Method: EPA 5030/8015/602 Run#: 1928

Lab # SAMPLE ID	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
39957 MW-1	5200	270	58	170	590
39958 MW-2a	3300	450	40	200	350
39959 MW-3	690	31	10	31	25
39960 MW-4	580	2.3	N.D.	1.4	1.1
39961 MW-5	N.D.	N.D.	N.D.	N.D.	N.D.
39962 MW-6	N.D.	N.D.	N.D.	N.D.	N.D.
DETECTION LIMITS	50	0.5	0.5	0.5	0.5
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK SPIKE RECOVERY(%)	97	102	97	91	94
		- V &	J 1	シエ	シモ

ChromaLab, Inc.

Billy Thach Chemist

Eric Tam

Laboratory Director

DOHS 1094

SUBM #: 9312268 CLIENT: ACC

22 DUE:

12/29/93

REF: 14555

01-de, #14555 268/39957-39962 Chain of Custody

PROJ. MOR. Mish	Kalhei	de											ANI	al wale	HEPO	DAT	E?	41.6	0/9	7	PAGE .		0	F	
COMPANY ACC	Envice.	Jane 1	2.1			(C)			\$				AN	11751		DAT									٦
ADDRESS 1000	AMak	ì Au	(:)	110	1	8 E		ีย	ê		S (5)				418.1)		ž	ľ	i	İ			ĺ		Į
Ala	eda, CA	945	7 / 2 / 1	(1.0	}	330,	1015	A (5)	3	ົນ <u>4</u>	6,3	3 KE					Zn, Ni	Ì	Ę		j			¥.	!
SAMPLERS (SIGNATURE)					J. 5.	e (51	50, 8	0 8 8 8	¥ 6	CAN 52 GAN	827	GRE	<u> </u>	_	RAB NS (G, Pb,	5	\$	}]		
1111	,			HONE NO	Solin O, 8	EP A	esei 0/35	1.E.A.	# E	S 28	17. E	L & (308	808	RBO		ਹ))	\ <u>0</u> (٩	z	1	- 1	Š	
	-e	5	512-8	180	3 5	3 2	33.0	12 <u>6</u>	15 E	524,	NEC. 25/	L O!	508,	8,	를 것 기관		S. C.	j j	S (T:	Į Š	E E		}	i d	<u>.</u>
SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURCEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, 8+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA		METALS: Cd.	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)	j	}	NUMBER OF CONTAINERS	
1MW-1	12/20		heter			X						1)		4.5	HH		Σ	0	a ∑		ă €				
mw-2a	pen		11	1/		X			 -		 													2	
MW-7			٠,	1,		- /· -												ļ 						2	<u>'</u>
MW-Y			ι,		 	 																			2
MW-S			14		 	X					 							<u> </u>						2	_
MW-6				//	-	7		 -	<u> </u>									ļ						7	2
			· · ·	1/	 	<u> </u>					ļ							<u> </u>						2	
			}	<u> </u>	 						ļ		ı.—.—.	 						 					
								 	 		<u> </u>			 				 							7
PROJECT INFOR	RMATION		SAME	LE RECE	hs.			<u></u>	<u> </u>																
PROJECT NAME: 6039-4 2425 PROJECT NUMBER:		TOTAL	NO. OF CO	NTAINERS		12	RELIN	IQUISH	ED BY	_		1	. REI	INQUIS	SHED B	Υ		·	2. R	ELINO	NISHED	BY			3.
PROJECT MUMBER:	vencin a	HEAD !	SPACE			<u></u>	(SIGNA	TURE)	de			(TIME	1 (5)(3	(SIGNATURE) (TIME											
P.O. 1		REC'D (GOOD CON	DITION/CO	LD	i	Ca	15,	0a.~	<u>e</u>		2/2/9	,	,					IME) (S	(SIGNATURE) (TIME)					
	}	CONFO	RMS TO RE	СОПО			(PAINT	ED NAM	E}			(DATE) (PAI	(PRINTED NAME) (DATE					ATE) (P	(PRINTED NAME) (DATE)				-	
TAT STANDARD 5-DAY	ľ	1	24 4	8 72	ОТ	HEA	СОМР						- (CO	MPANY						OMPAN		<u>-</u>		•	
SPECIAL INSTRUCTIONS/	COMMENTS:						RECE	IVED B	Y			1		CEIVED							_	ARODA	TORIA		ᆚ
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2239 Omega Road, #1 • San Ramon, California 94583 510/831-1788 • Facsimile 510/831-8798

Chain of Custody

PROJ. MOR. Mich Kalmeider ANALYSIS REPORT PURGEABLE HALOCARBONS (EPA 601, 8010) PURGEABLE AROMATICS BTEX (EPA 602, 8020) Z ADDRESS 1000 BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525) Ą VOLATILE ORGANICS (EPA 624, 8240, 524.2) TOTAL OIL & GREASE (EPA 5520, 8+F, F+F) PRIORITY POLLUTANT METALS (13) NUMBER OF CONTAINERS METALS: Cd, Cr, Pb, CAM METALS (17) **SAMPLERS (SIGNATURE)** (PHONE NO.) (570) EXTRACTION (TCLP, STLC) TOTAL LEAD 512-8188 SAMPLE ID. DATE TIME MATRIX: PRESERV. Mw-12/20 hater 11W-2a 12 11 '(11 Mw-6 1 PROJECT INFORMATION SAMPLE RECEIPT RELINQUISHED BY RELINQUISHED BY PROJECT NAME: RELINQUISHED BY 6039 - 4 2425 Encins **TOTAL NO. OF CONTAINERS** PROJECT NUMBER: (SIGNATURE) HEAD SPACE (SIGNATURE) (TIME) 6039-4 (SIGNATURE) (TIME) REC'D GOOD CONDITION/COLD P.O. # (PRINTED NAME) (PRINTED NAME) (DATE) (PRINTED NAME) CONFORMS TO RECORD (DATE) BTANDARD (COMPANY) (COMPANY) 24 48 5-DAY 72 OTHER (COMPANY) RECEIVED BY **SPECIAL INSTRUCTIONS/COMMENTS:** RECEIVED BY . RECEIVED BY (LABORATORY) (SIGNATURE) (SIGNATURE) (TIME) (PRINTED NAME) (PRINTED NAME) (COMPANY) (COMPANY)