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Quarterly Monitoring Report for April 1 through June 30, 1994 Former Bay Area Warehouse Property Emeryville, California

> July 25, 1994 1649.13

Prepared for Catellus Development Corporation 201 Mission Street San Francisco, California



LEVINE-FRICKE



ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

July 25, 1994

LF 1649.13

Ms. Susan Hugo Alameda County Health Care Services Agency 80 Swan Way, Suite 200 Oakland, California 94621

Subject: Quarterly Monitoring Report for April 1 through

June 30, 1994, Former Bay Area Warehouse Property,

Emeryville, California

Dear Ms. Hugo:

Enclosed is the ground-water investigation report and quarterly monitoring report for the period from April 1 through June 30, 1994, for the former Bay Area Warehouse (BAW) Property, located in Emeryville, California. The report describes field activities conducted and presents the analytical results for ground-water samples collected during monitoring activities. This recent monitoring represents the fifth quarterly ground-water monitoring event for well LF-32.

This report has been prepared on behalf of Catellus Development Corporation ("Catellus") in accordance with Levine Fricke's work plan dated April 30, 1993, and submitted to the Alameda Health Care Services Agency (ACHA). As you are aware, this work was conducted in accordance with your October 13, 1992 letter to Mr. Charles Wellnitz of BAW, former tenant at the property and the owner and operator of the gasoline underground storage tank (UST) formerly located at the BAW Property. Your October 13, 1992 letter to Mr. Wellnitz directed BAW to conduct a ground-water investigation at the BAW Property to assess the possible effect of petroleum hydrocarbons from the former UST on shallow ground water in the vicinity of the tank excavation. Because BAW has failed and refused to perform any such investigation, Catellus, as the current owner of the BAW Property, was compelled to proceed with installation of the monitoring well.

As discussed in the meeting on June 21, 1994, among representatives of the Alameda County Health Care Services Agency (ACHA), the Regional Water Quality Control Board (RWQCB), Catellus, and Levine.Fricke, the ground-water monitoring program for the Site will consider the entire development as a "nonattainment area." The former BAW Property is located in the eastern corner of the Site and within this nonattainment area.

1900 Powell Street, 12th Floor Emeryville, California 94608 (510) 652-4500 Fax (510) 652-2246

Additionally, monitoring well LF-32, which was used to monitor ground-water quality beneath the former BAW Property, was abandoned to accommodate grading that took place in this area on June 30, 1994. Consequently, the next ground-water monitoring event for the Site, including the BAW Property, will be conducted after site development has been completed.

Please call me if you have any questions or comments regarding this report.

Sincerely,

Ron Goloubow

Senior Project Hydrogeologist

Enclosure

cc: Mr. Sumadhu Arigala, RWQCB

Ms. Kimberly Brandt, Catellus Development

Mr. Pat Cashman, Catellus Development

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CERTIFICATION

All hydrogeologic and geologic information, conclusions, and recommendations have been prepared under the supervision of and reviewed by a Levine Fricke California Registered Geologist.

Andrew L. Wright

Principal Geologist

California Registered Geologist (4592)

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July 25, 1994

LF 1649 13

QUARTERLY MONITORING REPORT FOR APRIL 1 THROUGH JUNE 30, 1994 FORMER BAY AREA WAREHOUSE PROPERTY EMERYVILLE, CALIFORNIA

1.0 INTRODUCTION

This report describes analytical results for monitoring activities conducted at the former Bay Area Warehouse (BAW) Property located in Area C of the Yerba Buena/East Baybridge Center Project Site in Emeryville, California (Figure 1). Monitoring activities were conducted by Levine. Fricke, Inc., on behalf of Catellus Development Corporation in accordance with the work plan dated April 30, 1993 (Levine. Fricke 1993), and submitted to the Alameda County Health Care Services Agency (ACHA).

2.0 BACKGROUND AND PREVIOUS INVESTIGATIONS

On November 20, 1991, a gasoline underground storage tank (UST) was removed from the BAW Property by consultants retained by BAW. A Levine Fricke geologist was present to collect a sample of the fuel product contained in the UST before the UST was removed and to observe removal of the UST. The product sample was submitted to Friedman & Bruya of Seattle, Washington, for fuel characterization analysis. Results reported by Friedman & Bruya indicated that the product was gasoline with trace amounts of weathered diesel.

Tank removal activities are described in the December 1991 "Report of Findings, Underground Storage Tank Removal," prepared by the consultants for BAW and submitted to the ACHA.

Results presented in that report indicated that benzene was not detected in any soil samples collected by BAW from the UST excavation, and that total petroleum hydrocarbon (TPH) as gasoline (TPHg) concentrations in these soil samples were 3 parts per million (ppm) or less. Results for the grab ground-water sample collected from the UST excavation by BAW indicated the presence of benzene and TPHg at concentrations of 0.24 ppm and 8.8 ppm, respectively. Soil and ground-water samples were not submitted for laboratory analysis of TPH as diesel (TPHd).

On October 13, 1992, the ACHA sent a letter to Mr. Charles Wellnitz of BAW, directing BAW to conduct a ground-water investigation at the BAW Property to assess the possible effect of petroleum hydrocarbons from the former UST on shallow ground water in the vicinity of the tank excavation. Because BAW has refused to perform any such investigation, Catellus was compelled to proceed with installation of the monitoring well. Levine Fricke installed monitoring well LF-32 on May 20, 1993, within 10 feet downgradient from the former tank excavation (Figure 2).

3.0 QUARTERLY MONITORING ACTIVITIES CONDUCTED DURING APRIL 1 THROUGH JUNE 30, 1994

A quarterly monitoring program was implemented at BAW in May 1993 in accordance with Levine Fricke's work plan dated April 30, 1993 (Levine Fricke 1993). The activities conducted and the results obtained are presented below.

3.1 Collection of Water-Level Measurements

Depth to water was measured in well LF-32 and nearby Area C wells LF-10, LF-11R, LF-13, LF-33, and LF-34 on June 6, 1994. The water level in well LF-32 was measured again on June 21, 1994, before ground-water samples were collected from the well. Measurements were made using an electric water-level sounding probe to the nearest 0.01 foot, relative to the top of the PVC well casing.

3.2 Ground-Water Sampling and Laboratory Analysis

Ground-water samples were collected from well LF-32 on May 23 and June 21, 1994. Before the samples were collected, approximately three well casing volumes of water were purged from the well in accordance with procedures described in Appendix A. Copies of the water-quality sampling sheets showing parameter readings (pH, specific conductance, temperature) are included in Appendix B. After the well had been purged, the ground-water samples were collected.

The ground-water sample collected on May 23, 1994, was analyzed for volatile organic compounds (VOCs) using EPA Method 8010. This analysis was performed to assess the extent of VOC-affected ground water in Area C, which appears to have migrated on site from an off-site source located north of the property.

The sample collected on June 21, 1994 was analyzed for TPHg and benzene, toluene, ethylbenzene and xylenes (BTEX) using modified EPA Method 8015/8020, and for TPHd and TPH as motor oil (TPHmo) using EPA Method 3510 GCFID. These analysis methods are consistent with historical methods used for this site.

Ground-water sample analysis was performed by American Environmental Inc., of Pleasant Hill, California, a state-certified laboratory.

3.3 Results of Monitoring Activities

The depth to water measured in well LF-32 on June 21, 1994, was 7.07 feet below ground surface, which corresponds to a ground-water elevation of 4.84 feet above mean sea level. This represents a decrease in ground-water elevation of 1.55 feet relative to March 1994 data (Levine-Fricke 1994).

Depth to water measured in Area C on June 6, 1994, ranged from 5.88 feet below ground surface (bgs) in well LF-10 to 9.01 feet bgs in well LF-34. As indicated in Figure 2, ground-water elevation data collected on June 6 indicate the ground-water flow direction beneath Area C is generally toward the southwest under an average hydraulic gradient of 0.0067 foot per foot. The ground-water flow direction beneath the former BAW Property and Area C historically has been toward the west-southwest.

Analytical results for ground-water samples collected from well LF-32 do not indicate the presence of BTEX above laboratory detection limits (Table 1). Laboratory data sheets for ground-water samples are presented in Appendix C.

TPHd and TPHmo were detected at low concentrations of 1.400 ppm and 0.400 ppm, respectively. TCE and 1,2-DCE were detected at concentrations of 0.005 ppm and 0.005 ppm, respectively. Additionally, vinyl chloride was detected at 0.002 ppm. However, as indicated in a letter dated May 11, 1994, from the Regional Water Quality Control Board (RWQCB) to Ms. Kimberly Brandt of Catellus, the RWQCB recognizes that VOCs detected in ground water in Area C appear to be from an off-site source.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Analytical results for ground-water samples collected from well LF-32 indicate that shallow ground water has not been significantly affected by petroleum hydrocarbons. TPHg and BTEX, which were previously detected at low concentrations in soil and ground-water samples collected during tank removal activities, have not been detected in ground-water samples collected from well LF-32 (with the exception of results reported for March 11, 1994, as described in Levine-Fricke 1994).

As discussed in the meeting on June 21, 1994, among representatives of the ACHA, the RWQCB, Catellus, and Levine Fricke, the ground-water monitoring program for Site will consider the entire development as a "nonattainment area." The former BAW Property is located within the nonattainment area.

Additionally, monitoring well LF-32, which was used to monitor ground-water quality beneath the former BAW Property, was abandoned to accommodate grading that took place in this area on June 30, 1994. This well will be reinstalled and the next ground-water monitoring event for this area will be conducted after site development has been completed.

REFERENCES

- Levine Fricke, Inc. 1991. Correspondence to Mr. Don Marini of Catellus Development Corporation. Subject: Summary of Underground Fuel Storage Tank Removal, Former Bay Area Warehouse, Yerba Buena Project Site, Emeryville and Oakland, California. December 9.
- Levine Fricke, Inc. 1993. Work Plan to Install One Ground-Water Monitoring Well and Conduct Quarterly Monitoring, Bay Area Warehouse Property, Emeryville, California. April 30.
- Levine Fricke, Inc. 1994. Quarterly Monitoring Report for January 1 through March 31, 1994, Former Bay Area Warehouse Property, Emeryville, California. April 29.

TABLE 1 CHEMICAL ANALYSIS RESULTS FOR MONITORING WELL LF-32 FORMER BAY AREA WAREHOUSE PROPERTY (concentrations expressed in milligrams per liter [mg/l])

Date	Lab	Notes	TPHg	Benzene	Toluene	Ethyl -benzene	Total Xylenes	TPHd	ТРНто	TCE	1,2-DCE
26-May-93	ANA		0.050	<0.0005	<0.0005	<0.0005	<0.0005	0.440	NA	NA	NA
14-Jul-93	AEN		<0.050	<0.0005	<0.0005	<0.0005	<0.002	<0.050	NA	NA	NA.
14-Jul-93	ANA		<0.050	<0.0005	<0.0005	<0.0005	<0.005	0.230	NA	NA	NA
09-Dec -93	ANA	(1)	<0.050	<0.0005	<0.0005	<0.0005	<0.005	0.660	0.360	NA	NA.
11-Mar-94	ANA		0.110	* <0.0005	<0.0005	<0.0005	<0.0005	0.890	0.850	0.0025	0.0008
duplicate	ANA		0.110	* <0.0005	<0.0005	<0.0005	<0.0005	NA	NA	0.0026	0.00088
7-Apr-94	ANA		<0.05	NA	NA	NA	NA	NA	NA	NA	NA NA
23-May-94	AEN	(2)	NA	NA	NA	NA	NA	NA	NA.	0.005	0.005
21-Jun-94	AEN		<0.05	<0.0005	<0.0005	<0.0005	<0.002	1.400	0.400	NA	NA.

Data entered by REG/12-Jul-94. Data proofed by REG.

Milligrams per liter is equivalent to parts per million.

NA = not analyzed

TPHg = total petroleum hydrocarbons as gasoline, analyzed using EPA Method 5030 GCFID

TPHd = extractable hydrocarbons as diesel, analyzed using EPA Method 3510 GCFID

TPHmo = total petroleum hydrocarbons as motor oil, analyzed using EPA Method 3510

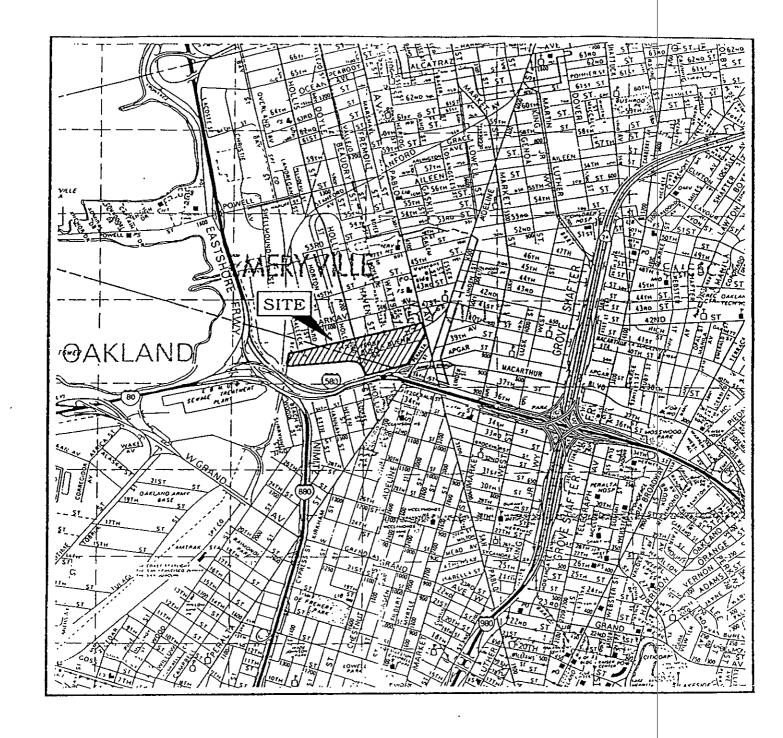
TCE = Trichloroethene, analyzed using EPA Methd 8010

1,2-DCE = 1,2-dichloroethene, analyzed using EPA Method 8010

ANA = Anametrix, Inc., of San Jose, California

AEN = American Environmental Network of Pleasant Hill, California

- (1) Total petroleum hydrocarbons as oil and grease were not reported above the laboratory detection limit of 5 ppm.
- (2) Vinyl chloride was present at 0.002 mg/l and bromodichloromethane detected at 0.0006 mg/l.
- * According to the laboratory QA/QC summary, the concentration reported as gasoline is primarily due to the presence of a heavier petroleum product of hydrocarbon range C9-C14, possibly diesel fuel. However, it appears that the the TPHg detected is a result of cross contamination by the laboratory (see Section 3.3 in Levine-Fricke 1994).



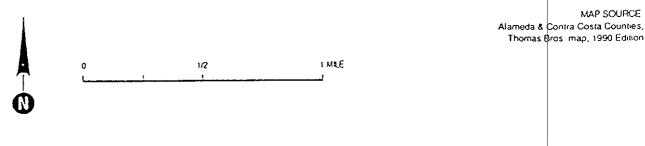
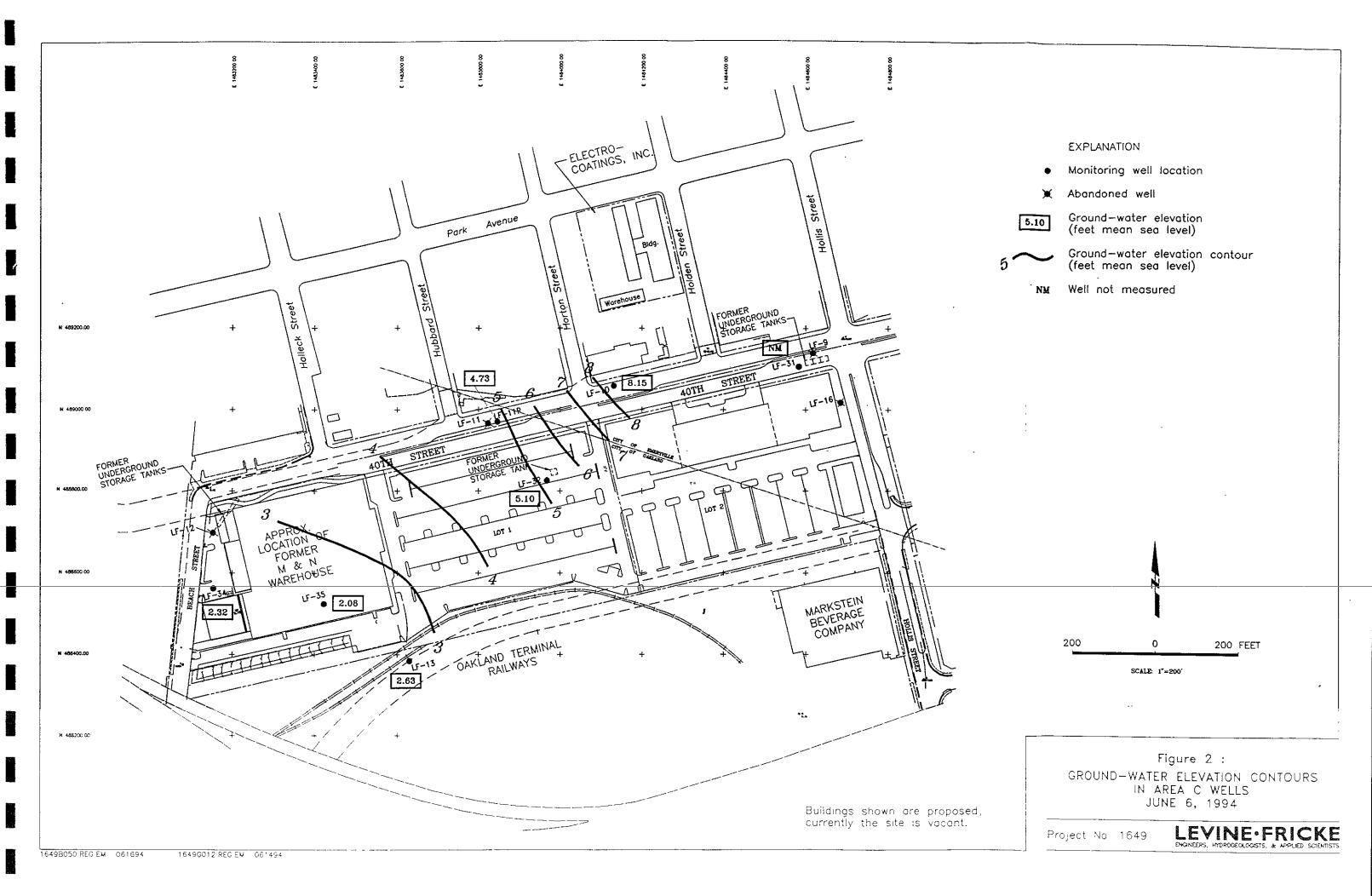


Figure 1: SITE LOCATION MAP YERBA BUENA PROJECT SITE

Project No. 1649

LEVINE • FRICKE CONSULTING ENGINEERS AND HYDROGEOLOGISTS



APPENDIX A GROUND-WATER SAMPLING PROCEDURES

GROUND-WATER SAMPLING PROCEDURES AND WATER-QUALITY SAMPLING SHEETS

Before sample collection, depth to static water was measured in well LF-32 and the volume of water in the well casing was calculated. Three well casing volumes of ground water were then purged from the well using a clean Teflon bailer until indicator parameter readings (pH, specific conductance, and temperature) stabilized. Indicator parameters were measured using portable field instruments and measurements were recorded on a water-quality sampling form. Purging and sampling equipment was steam cleaned before use. Purged ground water was temporarily stored on site in 55-gallon drums.

A portion of the sample collected for analysis of TPHg, BTEX, and VOCs was placed into laboratory-supplied, 40-milliliter glass vials preserved with hydrochloric acid. The glass vials were filled to capacity, capped, and checked for trapped air bubbles. A portion of the sample collected for TPHd analyses was poured into laboratory-supplied 1-liter amber bottles. Filled sample vials were placed into an ice-chilled cooler immediately after collection for transportation under chain-of-custody protocols to a state-certified laboratory for chemical analysis.

Ground-water samples were submitted to American Environmental Network, a state-certified laboratory, under strict chain-of-custody protocol. Laboratory certificates are included in Appendix C.

APPENDIX B WATER-QUALITY SAMPLING SHEETS

Suggested Method for Purging Well_

WATER-QUALITY SAMPLING INFORMATION

Project	Name	YERBA BUE	₽¥ .			Prote	ect No. 1/4	9.75
Date .		5/23/54				Sam-	nic No. L.F.	- 37
Sample	гз Name	JCK	•				pic 110	
Samplu	ng Location	LF-32					2010	0
Sampli	ng Method	HAND BAIL	TEFL	AS WO	ILER		6.30	
Analyse	s Requested	EPA 801	0			·	137	'
Number	and Types of	Sample Bottles u	sed 2	LUOA			-74	4
Method	of Shipment	Cou	RIER				1374	
GROUND WATER SURFACE WATER Well No.						2.198	54	
Well No.		32 .	_ Stream	Width	 			
Well Dia	uneter (in.)		_ Stream	Depth	· · · · · · · · · · · · · · · · · · ·	2	7029E0 774	6.
Depth to Static (fi	Water.	34	Stream '	Velocity _	·	~	1808	20.10
	Well Box		Rained r				8.5	10.99
Well Der	oth (ft)2	0.10	Other			- 10	992	Shar Ti
		3.74		_	= 0.16 gal/ft = 0.65 gal/ft			0% 114
		2.20		_	= 1.02 gal/ft	<u> </u>	LOCATION	ON MAP
				-	= 1.47 gal/ft			
	DEPTH TO	VOLUME					<u> </u>	
ТІМЕ	WATER (feet)	WITHDRAWN (gallons)	TEMP (deg. C)	pH (S.U.)	COND (mhos/cm)	OTHER	RE	MARKS
15:44							SMET	
15.17			18.0	7.23	1106		TURB	179
14.70			17.6	7.09	1069		TURB	w
15.24			17.2	6.98	1046			
15:27			17.2	6.97	1033		TURBI TURB SA-	10
15:30							San	PLE
			· · · · · · · · · · · · · · · · · · ·					
			····					
				Į·				

WATER-QUALITY SAMPLING INFORMATION

			122 221				
Project Name <u>E. BAYBRI</u> Date <u>6/21/9</u>				_	ect No. <u>/64</u> ple No. <u>6</u> <i>F</i>		
Samplers Name				Oaur	pic 140. <u></u>		
						_	
Sampling Location <u>LF-32</u>					20.1	0	
Sampling Method H 4-N B BAIL / TEFLON BAILER					7.0	7_	
Analyses Requested TPH. 9,0,+0 +3TEY.					13.0	3	
Number and Types of Sample Bottles us	<u>. </u>	,1,					
Method of Shipment]	781	8	
GROUND WATER		SURFA	CE WATER		1303	· · · · · · · · · · · · · · · · · · ·	
Well No. LF.32	_ Stream W	Vidth			2084	18	
Well Diameter (in.) 2	_ Stream D	epth	····	_			
Depth to Water, 7.07	Stream 7	elocity _	····	_ ,	2 4 2		
Stauc (it)	Rained recently?				3.03 .80	20.	10
Water in Well Box	- Other			1		10.	92
Well Depth (ft) 20.10	_			- Jo'	424 /	9,	68
Height of Water	2-inc	n casing	= 0.16 gal/ft			80%	DTW
Height of Water Column in Well /3.03	_ 4-inc	h casing	= 0.65 gal/ft	<u> </u>			
Water Volume in Well 2.09	5-inc	h casing	= 1.02 gal/ft		LOCATIO	ON MA	P
	6-inc	h casing	= 1.47 gal/ft				
TIME DEPTH TO WOLUME WATER WITHDRAWN (feet) (gallons)	TEMP (deg. C)	pH (S.U.)	COND (mhos/cm)	OTHER	RE	MARKS	

тіме	DEPTH TO WATER (feet)	VOLUME WITHDRAWN (gallons)	TEMP (deg. C)	pH (S.U.)	COND (mhos/cm)	OTHER		REMARKS			
12:33	•							START			
12:36		2.5	19.1	6.95	1145			TUPBID TUPBID TUPBID TUPBID SALIPLE			
(2:39		2.5 5.0 7.5	18.9	6.94	1118			TURSID			
12:44		7.5	18.5	6.98	NO5			TOPRO			
17:55	7.30							SAMPLE			
		•									
							-				

Suggested Method for Purging Well	
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APPENDIX C LABORATORY DATA SHEETS FOR GROUND-WATER SAMPLES

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

LEVINE-FRICKE 1900 POWELL ST. 12TH FL. EMERYVILLE, CA 94608

ATTN: RON GOLOUBOW

CLIENT PROJ. ID: 1649.28 CLIENT PROJ. NAME: YERBA BUENA

C.O.C. NUMBER: 12080

REPORT DATE: 06/08/94

DATE(S) SAMPLED: 05/23/94

DATE RECEIVED: 05/23/94

AEN WORK ORDER: 9405292

PROJECT SUMMARY:

On May 23, 1994, this laboratory received 6 water sample(s).

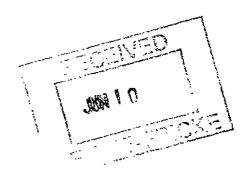
Client requested samples be analyzed for organic parameters. identification, methodologies, results and dates analyzed are summarized on the following pages.

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

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

Larry-Klein

Laboratory Director



LEVINE-FRICKE

SAMPLE ID: LF-32 AEN LAB NO: 9405292-02 AEN WORK ORDER: 9405292 CLIENT PROJ. ID: 1649.28

DATE SAMPLED: 05/23/94 DATE RECEIVED: 05/23/94 REPORT DATE: 06/08/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
			0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	UNITS ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/	05/27/94 05/27/94
1.1.2-Trichloroethane 1.1.2-Trichloroethane Trichlorofluoromethane 1.1.2Trichlorotrifluoroethane Vinyl Chloride	79-00-5 79-01-6 75-69-4	ND 5 * ND ND 2 *	0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L	05/27/94 05/27/94 05/27/94 05/27/94 05/27/94

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

AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9405292

CLIENT PROJECT ID: 1649.28

Quality Control Summary

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

Definitions

The following abbreviations are found throughout the QC report:

ND = Not Detected at or above the reporting limit RPD = Relative Percent Difference

< = Less Than

QUALITY CONTROL DATA

INSTRUMENT: G

CLIENT PROJ. ID: 1649.28

AEN JOB NO: 9405292 AEN LAB NO: 0527-BLANK DATE ANALYZED: 05/27/94

Compound	CAS #	Concentration (ug/L)	Reporting Limit (ug/L)
Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethyl Vinyl Ether Chloroform Chloromethane Dibromochloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene Dichlorodifluoromethane 1.1-Dichloroethane 1.2-Dichloroethane 1.1-Dichloroethene cis-1.2-Dichloroethene trans-1.2-Dichloropropene trans-1.3-Dichloropropene trans-1.3-Dichloropropene trans-1.3-Dichloropropene trans-1.3-Dichloropropene trans-1.1-Trichloroethane Tetrachloroethene 1.1.1-Trichloroethane Trichloroethene Trichlorofluoromethane Trichlorofluoromethane Trichlorofluoromethane Trichlorofluoromethane Trichlorofluoromethane	75-27-4 75-25-2 74-83-9 56-23-5 108-90-7 75-00-3 110-75-8 67-66-3 74-87-3 124-48-1 95-50-1 541-73-1 106-46-7 75-71-8 75-34-3 107-06-2 75-35-4 156-59-2 156-60-5 78-87-5 10061-01-5 10061-02-6 75-09-2 79-34-5 127-18-4 71-55-6 79-00-5 79-01-6 75-69-4 76-13-1 75-01-4	ND N	0.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5
Vinyl Chloride	/5-01-4	NU .	0.0

QUALITY CONTROL DATA

INSTRUMENT: G

CLIENT PROJ. ID: 1649.28

AEN JOB NO: 9405292 AEN LAB NO: 0601-BLANK DATE ANALYZED: 06/01/94

Compound	CAS #	Concentration (ug/L)	Reporting Limit (ug/L)
Bromodichloromethane	75-27-4 75-25-2	ND ND	0.5 0.5
Bromoform	74-83-9	ND ND	0.5
Bromomethane Carbon Tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	0.5
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	0.5
Dibromochloromethane	124-48-1	ND	0.5
1.2-Dichlorobenzene	95-50-1	ND	0.5
1.3-Dichlorobenzene	541-73-1	ND	0.5
1.4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND ND	0.5
1.1-Dichloroethane	75-34-3	ND ND	0.5 0.5
1.2-Dichloroethane	107-06-2	ND ND	0.5. 0.5
1.1-Dichloroethene	75-35-4	ND ND	0.5 0.5
cis-1,2-Dichloroethene	156-59-2 156-60-5	ND ND	0.5
trans-1,2-Dichloroethene	78-87-5	ND	0.5
1,2-Dichloropropane	10061-01-5	ND	0.5
cis-1.3-Dichloropropene trans-1.3-Dichloropropene	10061-02-6	ND	0.5
Methylene Chloride	75-09-2	ND	0.5 0.5 0.5
1.1.2.2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1.1.1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79 - 00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1.1.2-Trichloro- 1.2.2-trifluoroethane	76-13-1	ND	0.5
Vinyl Chloride	75-01-4	ND ··	0.5

QUALITY CONTROL DATA

INSTRUMENT: G

AEN JOB NO: 9405292

CLIENT PROJ. ID: 1649.28

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

	SAMPLE IDENT	IFICATION		COVERY (PERCENT) 1-Bromo-3-chloro	
Date Analyzed	Sample Id.	Lab Id.	Bromochloro- methane	propane	
05/27/94 05/27/94 05/27/94 05/27/94 05/27/94 05/27/94	LF-35 LF-32 LF-11R LF-13 LF-10 LF-34	01 02 03 04 05 06	113 99 96 91 113 93	93 93 91 89 82 90	

CURRENT QC'LIMITS

ANALYTE PERCENT RECOVERY

Bromochloromethane (78-153)
1-Bromo-3-chloropropane (74-143)

QUALITY CONTROL DATA

DATE ANALYZED: 05/27/94 SAMPLE SPIKED: 9405273-04 CLIENT PROJ. ID: 1649.28

AEN JOB NO: 9405292

INSTRUMENT: G

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

ANALYTE	Spike Added (ug/L)	Average Percent Recovery	RPD
1,1-Dichloroethene	50.0	69	4
Trichloroethene	50.0	80	8
Chlorobenzene	50.0	69	8

CURRENT QC LIMITS

<u>Analyte</u>	Percent Recovery	<u>RPD</u>
1.1-Dichloroethene	(40-130)	18
Trichloroethene	(67-136)	17
Chlorobenzene	(59-123)	15

QUALITY CONTROL DATA

INSTRUMENT: 12

CLIENT PROJ. ID: 1649.28

AEN JOB NO: 9405292

AEN LAB NO: 0603-BLANK

DATE ANALYZED: 06/03/94

EPA METHOD 8240 (WATER MATRIX) VOLATILE ORGANIC COMPOUNDS

COMPOUND	CAS #	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5 5 5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100 10
Carbon Disulfide	75-15-0	ND ND	10 E
Carbon Tetrachloride	56-23-5 108-90-7	ND ND	5 5
Chlorobenzene Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	10 55 55 55 55 55 55 55 55
.2-Dichlorobenzene	95-50 <i>-</i> 1	ND	5
,3-Dichlorobenzene	541-73-1	ND	5
.4-Dichlorobenzene	106-46-7	ND	5
1.1-Dichloroethane	75-34-3	ND	5
1.2-Dichloroethane	107-06-2	ND ND	ა ნ
L.1-Dichloroethene	75-35-4 156-59-2	ND	5
cis-1,2-Dichloroethene	156-60-5	ND	5
trans-1.2-Dichloroethene L.2-Dichloropropane	78-87-5	ND	Š
cis-1.3-Dichloropropene	10061-01-5	ND	5
trans-1.3-Dichloropropene		ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591 <i>-</i> 78-6	ND	50
Methylene Chloride	75-09-2	ND	5
1-Methyl-2-pentanone	108-10-1	ND	50
Styrene _	100-42-5	ND	50 5 5
1.1.2.2-Tetrachloroethane	79-34-5	ND	ວ ເ
Tetrachloroethene	127-18-4	ND ND	5 5
Toluene 1.1.1-Trichloroethane	108-88-3 71-55-6	ND ON	55 55 50
1.1.2-Trichloroethane	71-55-6 79-00-5	ND	5
Trichloroethene	79-01-6	ND	- 5
Vinyl Acetate	108-05-4	ND	5 <u>0</u>
Vinyl Chloride	75-01-4		. 10
Xylenes, total	1330-20-7	ND	10

QUALITY CONTROL DATA

DATE ANALYZED: 05/31/94

AEN JOB NO: 9405292

SAMPLE SPIKED: 9405232-03 CLIENT PROJ. ID: 1649.28

INSTRUMENT: 12

MATRIX SPIKE RECOVERY SUMMARY METHOD: EPA 8240 (WATER MATRIX)

ANALYTE	Spike Added (ug/L)	Average Percent Recovery	RPD
1.1-Dichloroethene	50.0	99	3 3
Trichloroethene	50.0	101	
Benzene	50.0	109	<1
Toluene	50.0	103	4
Chlorobenzene	50.0	100	2

CURRENT QC LIMITS

<u>Analyte</u>	<u>Percent Recovery</u>	<u>RPD</u>
1,1-Dichloroethene	(81-123)	12
Trichloroethene	(87-112)	9
Benzene	(92-116)	12
Toluene	(91-116)	12
Chlorobenzene	(92-113)	10

9405292 Project No.: 1649. 28 Field Logbook No.: Serial No.: YERBA BUENA Project Name: Project Location: EMERYVILLE CA. Nº 12080 Sampler (Signature): ANALYSES Samplers: HOLD SAMPLES JCK NO. OF LAB SAMPLE SAMPLE SAMPLE NO. DATE CON -TIME REMARKS NO. TYPE TAINERS 5 25/9/ 11:30 OI A-D F-35 24 TANDA ZO TAT 2 15:30 DIAB 2 03 AB X 2 OY AB × KESULIS TO 05A-D N LF-34 フ 17:40 2 OBAB RELINQUISHED BY: RECEIVED BY: (Signature) (Signature) RELINQUISHED BY: RECEIVED BY: (Signature) (Signature) RELINQUISHED BY TIME RECEIVED BY: (Signature) (Signature) METHOD OF SHIPMENT: DATE TIME LAB COMMENTS: Sample Collector: Analytical Laboratory: LEVINE-FRICKE AEN PLEASINT HILL, CL. 1900 Powell Street, 12th Floor Emeryville, California 94608 (510) 652-4500 Shipping Copy (White) Lab Copy (Green) File Copy (Yel: w) Field Copy (Pink) FORM NO. 86/COC/ARF

CHAIN OF CHAIN OF A RECES OF

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

LEVINE-FRICKE 1900 POWELL ST. 12TH FL. EMERYVILLE, CA 94608

ATTN: RON GOLOUBOW

CLIENT PROJ. ID: 1649.35 CLIENT PROJ. NAME: E. BAYBRIDGE

C.O.C. NUMBER: 12074

REPORT DATE: 07/12/94

DATE(S) SAMPLED: 06/21/94

DATE RECEIVED: 06/22/94

AEN WORK ORDER: 9406277

PROJECT SUMMARY:

On June 22, 1994, this laboratory received 7 water sample(s).

Client requested samples be analyzed for organic parameters. On July 6, 1994, client requested additional organic analysis on one (1) sample. Sample identification, methodologies, results and dates analyzed are summarized on the following pages.

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

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

Larry Klein

Laboratory Director

LEVINE-FRICKE

SAMPLE ID: TRIP62194 AEN LAB NO: 9406277-07 AEN WORK ORDER: 9406277 CLIENT PROJ. ID: 1649.35 DATE SAMPLED: 06/21/94 DATE RECEIVED: 06/22/94 REPORT DATE: 07/12/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes, Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	ND ND ND ND ND	0.5 0.5 0.5 2 0.05	ug/L ug/L ug/L ug/L mg/L	06/30/94 06/30/94 06/30/94 06/30/94 06/30/94

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

AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9406277

CLIENT PROJECT ID: 1649.35

Quality Control Summary

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

<u>Definitions</u>

The following abbreviations are found throughout the QC report:

 $\mbox{ND} = \mbox{Not Detected at or above the reporting limit} \\ \mbox{RPD} = \mbox{Relative Percent Difference}$

< = Less Than

QUALITY CONTROL DATA

DATE EXTRACTED: 06/24/94 AEN JOB NO: 9406277

CLIENT PROJ. ID: 1649.35 INSTRUMENT: C

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

	E IDENTIFICATI	ON	SURROGATE RECOVERY (PERCENT)
Date Analyzed	Sample Id.	Lab Id.	n-Pentacosane
06/28/94 06/28/94 06/28/94 06/28/94	LF-34 LF-35 LF-32 LF-31	01 02 03 06	44 39 42 64

CURRENT QC LIMITS

ANALYTE PERCENT RECOVERY

n-Pentacosane (30-100)

QUALITY CONTROL DATA

DATE EXTRACTED: 06/24/94 DATE ANALYZED: 06/27/94 CLIENT PROJ. ID: 1649.35 AEN JOB NO: 9406277 SAMPLE SPIKED: DI WATER

INSTRUMENT: C

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

	Codle	A		QC Li	mits
ANALYTE	Spike Added (mg/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
Diesel	2.09	65	3	65-103	12

METHOD BLANK RESULT

Lab Id.	Extractable Hydrocarbons as Diesel (mg/L)	Extractable Hydrocarbons as Oil (mg/L)
062494-METHOD BLA	NK ND	ND
Reporting Limit	0.05	0.2

QUALITY CONTROL DATA

INSTRUMENT: G

CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277 AEN LAB NO: 0629-BLANK DATE ANALYZED: 06/29/94

Bromodichloromethane 75-27-4 ND 0.5 Bromoform 75-25-2 ND 0.5 Bromomethane 74-83-9 ND 0.5 Carbon Tetrachloride 56-23-5 ND 0.5 Chlorobenzene 108-90-7 ND 0.5 Chloroethane 75-00-3 ND 0.5 2-Chloroethyl Vinyl Ether 110-75-8 ND 0.5 Chloroform 67-66-3 ND 0.5 Chloromethane 74-87-3 ND 0.5 Chloromethane 124-48-1 ND 0.5 Chloromethane 95-50-1 ND 0.5 1,2-Dichlorobenzene 541-73-1 ND 0.5 1,4-Dichlorobenzene 106-46-7 ND 0.5 1,1-Dichloroethane 75-34-3 ND 0.5 1,2-Dichloroethane 107-06-2 ND 0.5 1,1-Dichloroethene 156-59-2 ND 0.5 1,2-Dichloroethene 156-59-2 ND 0.5	Compound	CAS #	Concentration (ug/L)	Reporting Limit (ug/L)
1,1,2,2-letrachloroethane 79-34-5 ND 0.5 Tetrachloroethene 127-18-4 ND 0.5 1,1,1-Trichloroethane 71-55-6 ND 0.5 1,1,2-Trichloroethane 79-00-5 ND 0.5 Trichloroethene 79-01-6 ND 0.5 Trichlorofluoromethane 75-69-4 ND 0.5 1,1,2-Trichloro- 1,2,2-trifluoroethane 76-13-1 ND 0.5 Vinyl Chloride 75-01-4 ND 0.5	Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethyl Vinyl Ether Chloroform Chloromethane Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloropropene trans-1,3-Dichloropropene trans-1,3-Dichloropropene trans-1,3-Dichloropropene trans-1,3-Dichloropropene trans-1,1-Trichloroethane Tetrachloroethene 1,1,1-Trichloroethane Trichloroethene Trichlorofluoromethane Trichlorofluoromethane Trichlorofluoromethane 1,1,2-Trichloro- 1,2,2-trifluoroethane	75-25-2 74-83-9 56-23-5 108-90-7 75-00-3 110-75-8 67-66-3 74-87-3 124-48-1 95-50-1 541-73-1 106-46-7 75-71-8 75-34-3 107-06-2 75-35-4 156-59-2 156-60-5 78-87-5 10061-01-5 10061-02-6 75-09-2 79-34-5 127-18-4 71-55-6 79-00-5 79-01-6 75-69-4 76-13-1		0.555555555555555555555555555555555555

QUALITY CONTROL DATA

INSTRUMENT: G

CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277 AEN LAB NO: 0630-BLANK DATE ANALYZED: 06/30/94

Compound	CAS #	Concentration (ug/L)	Reporting Limit (ug/L)
Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethyl Vinyl Ether Chloroform Chloromethane Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloropropene trans-1,3-Dichloropropene trans-1,3-Dichloropropene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethene 1,1,1-Trichloroethane Trichloroethene Trichlorofluoromethane Trichlorofluoromethane 1,1,2-Trichloro- 1,2,2-trifluoroethane	75-27-4 75-25-2 74-83-9 56-23-5 108-90-7 75-00-3 110-75-8 67-66-3 74-87-3 124-48-1 95-50-1 541-73-1 106-46-7 75-34-3 107-06-2 75-35-4 156-59-2 156-60-5 78-87-5 10061-01-5 10061-02-6 75-09-2 79-34-5 127-18-4 71-55-6 79-00-5 79-01-6 75-69-4	ND N	55555555555555555555555555555555555555
Vinyl Chloride	75-01-4	ND	0.5

QUALITY CONTROL DATA

INSTRUMENT: G

CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277 AEN LAB NO: 0706-BLANK

DATE ANALYZED: 07/06/94

Compound	CAS #	Concentration (ug/L)	Reporting Limit (ug/L)
Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethyl Vinyl Ether Chloroform Chloromethane Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene Methylene Chloride 1,1,2-Tetrachloroethane Tetrachloroethene 1,1,1-Trichloroethane Trichloroethene Trichlorofluoromethane Trichlorofluoromethane Trichlorofluoromethane	75-27-4 75-25-2 74-83-9 56-23-5 108-90-7 75-00-3 110-75-8 67-66-3 74-87-3 124-48-1 95-50-1 541-73-1 106-46-7 75-71-8 75-34-3 107-06-2 75-35-4 156-59-2 156-60-5 78-87-5 10061-01-5 10061-01-5 10061-02-6 75-09-2 79-34-5 127-18-4 71-55-6 79-00-5 79-01-6 75-69-4	ND ND ND ND ND ND ND ND ND ND ND ND ND N	555555555555555555555555555555555555555
1,2,2-trifluoroethane Vinyl Chloride	76-13-1 75-01-4	ND ND	0.5 0.5

QUALITY CONTROL DATA

INSTRUMENT: G

AEN JOB NO: 9406277

CLIENT PROJ. ID: 1649.35

SURROGATE STANDARD RECOVERY SUMMARY

METHOD: EPA 8010 (WATER MATRIX)

_	SAMPLE IDENT	IFICATION		COVERY (PERCENT)
Date Analyzed	Sample Id.	Lab Id.	Bromochloro- methane	1-Bromo-3-chloro- propane
06/30/94 06/29/94 06/29/94 06/30/94 07/06/94	LF-34 LF-35 LF-11R LF-10 LF-31	01 02 04 05 06	108 150 143 121 123	105 129 122 115 111

CURRENT QC LIMITS

ANALYTE PERCENT RECOVERY

Bromochloromethane (78-153)
1-Bromo-3-chloropropane (74-143)

QUALITY CONTROL DATA

DATE ANALYZED: 06/29/94 SAMPLE SPIKED: LCS CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277

INSTRUMENT: G

LABORATORY CONTROL SAMPLE METHOD: EPA 8010 (WATER MATRIX)

ANALYTE	Spike Added (ug/L)	Percent Recovery
1,1-Dichloroethene	50.0	65
Trichloroethene	50.0	88
Chlorobenzene	50.0	70

CURRENT QC LIMITS

<u>Analyte</u>	<u>Percent Recovery</u>
1,1-Dichloroethene	(37-156)
Trichloroethene	(54-122)
Chlorobenzene	(54-141)

QUALITY CONTROL DATA

DATE ANALYZED: 07/05/94 SAMPLE SPIKED: 9406373-01 CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277

INSTRUMENT: G

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

ANALYTE	Spike Added (ug/L)	Average Percent Recovery	RPD
1,1-Dichloroethene	50.0	79	8
Trichloroethene	50.0	90	13
Chlorobenzene	50.0	79	2

CURRENT QC LIMITS

<u>Analyte</u>	Percent Recovery	<u>RPD</u>
1,1-Dichloroethene	(40-130)	18
Trichloroethene	(67-136)	17
Chlorobenzene	(59-123)	15

QUALITY CONTROL DATA

INSTRUMENT: F

CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277 AEN LAB NO: 0629-BLANK

DATE ANALYZED: 06/29/94

BTEX AND HYDROCARBONS METHOD: EPA 8020, 5030 GCFID (WATER MATRIX)

	CAS #	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L) 0.5 0.5			
Benzene	71-43-2	ND	0.5			
Toluene	108-88-3	ND	0.5			
Ethylbenzene	100-41-4	ND	0.5			
Xylenes, Total	1330-20-7	ND	2			
PURGEABLE HYDROG	CARBONS AS:					
Gasoline		ND mg/L	0.05 mg/			

QUALITY CONTROL DATA

INSTRUMENT: F

CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277 AEN LAB NO: 0630-BLANK DATE ANALYZED: 06/30/94

BTEX AND HYDROCARBONS METHOD: EPA 8020, 5030 GCFID (WATER MATRIX)

	CAS #	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Benzene	71-43-2	ND	0.5
Toluene	108-88-3	ND	0.5
Ethylbenzene	100-41-4	ND	0.5
Xylenes, Total	1330-20-7	ND	2
PURGEABLE HYDRO	CARBONS AS:		
Gasoline		ND mg/L	0.05 mg/

QUALITY CONTROL DATA

CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277

INSTRUMENT: F

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

SAMPLE IDENTIFICATION Date Analyzed Sample Id. Lab Id.	SAMPLE IDENT	FICATION	SURROGATE RECOVERY (PERCENT)
	Lab Id.	Fluorobenzene	
06/29/94 06/29/94 06/29/94 06/29/94 06/30/94	LF-34 LF-35 LF-32 LF-31 TRIP62194	01 02 03 06 07	102 100 101 102 112

CURRENT QC LIMITS

<u>ANALYTE</u>

PERCENT RECOVERY

Fluorobenzene

(70-115)

QUALITY CONTROL DATA

DATE ANALYZED: 06/28/94

SAMPLE SPIKED: LCS CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277

INSTRUMENT: F

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

ANALYTE	Spike Added (ug/L)	Percent Recovery			
Benzene Toluene	10.6 40.2	104 96			
Hydrocarbons as Gasoline	500	103			

CURRENT QC LIMITS

<u>Analyte</u>	<u>Percent Recovery</u>
Benzene	(65-122)
Toluene	(67-124)
Gasoline	(60-125)

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9406277

Project No.: 1649, 35 Field Logbook No						No.:			1	Date:	6/2	1/94	Serial No.:	17002			
Project Na	ne: جے	BAYI	321065		Project Location:				EMERYVILLE, CA.					-2.	Nº	1207	4
Sampler (Signature): FLC. P.						ANALYSES // Samplane:											
		S/	AMPLES				(gi)	/2j*		\overline{Z}	6	210	7£	/5/	JCK		
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON- TAINERS	SAMPLE TYPE		48 % X 15	N. R.	1. LO Y		N. 0	180°	XXXX		REM	IARKS	
LF-34	6/21/14	11:20	DIA-F	76			X	Х	X	Х	Х			57	TANDARD	TA+	
LF-35			024-F Jul	46			X	Х	χ	X	X					— <u></u>	•
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LF-IIR		14.05	04AB	2							X				RON GOU	-00 30W	b
LF-10		15:15	OSAB	2							X		23				
LF-31	+	1615	06A-F	6 x/1	031		X	X,	X	X	€ TCK	_	-1	TPH -	d 35+0	635 5	O GC FID
TKIP62194	+	09:00	074B	2			X	X						15 (3 x3510	3500	GCFID
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Sample Collector: LEVINE-FRICKE					1	naly	tical	Labo	rato	ry:	1 = .1		····				
1900 Powell Street, 12th Floor Emeryville, California 94608												;	ACN	NT HILL	٠, ٩ ٠		
(510) 652-4500				+000								ŀ	1LEA SA	NT HILL	-, CA.		