

Quarterly Monitoring Report for the
Period from January 1 through March 31, 1993
Former Ransome Property
Yerba Buena Project Site
Emeryville, California

April 12, 1993 1649.09

Prepared for
Catellus Development Corporation
201 Mission Street
San Francisco, California 94105



LEVINE-FRICKE



ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

April 12, 1993

LF 1649.09

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

Subject: Quarterly Monitoring Report for the Period from January 1 through March 31, 1993, Former Ransome Property, Yerba Buena Project Site, Emeryville, California

Dear Ms. Hugo:

The enclosed report presents results of quarterly ground-water monitoring conducted during the period from January 1 through March 31, 1993, at the Former Ransome Property on the Yerba Project Site in Emeryville, California. The monitoring was conducted and this report is submitted in accordance with Levine Fricke's September 15, 1992 "Work Plan to Install One Monitoring Well and Conduct Quarterly Monitoring for the Former Ransome Property, Yerba Buena Project Site, Emeryville, California" prepared by Levine Fricke, Inc., and submitted to and approved by the Alameda County Health Care Services Agency.

If you have any questions or comments concerning this report, please call me or Cindy Barclay, Senior Project Geologist.

Sincerely,

Jenifer Beatty

Project Hydrogeologist

Enclosure

cc: Pat Cashman, Catellus Kimberly Brandt, Catellus Lester Feldman, RWQCB

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CERTIFICATION

All engineering information, conclusions, and recommendations presented in this report have been prepared under the supervision of and reviewed by a Levine Fricke California Professional Engineer.

James D. Levine

∕resident

California Professional Engineer (33428)

April 12, 1993

LF 1649.09

QUARTERLY MONITORING REPORT FOR
THE PERIOD FROM JANUARY 1 THROUGH MARCH 31, 1993
FORMER RANSOME PROPERTY
YERBA BUENA PROJECT SITE
EMERYVILLE, CALIFORNIA

1.0 INTRODUCTION

This report presents ground-water monitoring results for the period from January 1 through March 31, 1993, for the former Ransome Property, located at 4030 Hollis Street in Emeryville, California ("the Property"; Figure 1). Levine·Fricke, Inc. ("Levine·Fricke") conducted this work on behalf of Catellus Development Corporation ("Catellus") in accordance with Levine·Fricke's September 15, 1992 work plan (Levine·Fricke 1992c) submitted to and approved by the Alameda County Health Care Services Agency (ACHA).

Background

In May 1992, Levine Fricke conducted a ground-water investigation of the Property, which included installation of five shallow ground-water monitoring wells in accordance with Levine Fricke's April 15, 1992 work plan (Levine Fricke 1992a). Results of the investigation indicated that ground water had not been significantly affected by petroleum compounds identified in soil at the Property and subsequently removed (Levine Fricke 1992b). However, to complete the investigation, a sixth well (LF-29) was installed in October 1992, as recommended by Mr. Lester Feldman of the Regional Water Quality Control Board during a meeting on June 22, 1992, among representatives of Catellus and Levine Fricke, Mr. Feldman, and Mr. Dennis Byrne of the ACHA.

A quarterly monitoring program was implemented at the Property in October 1992 to monitor the possible future effects to shallow ground water from petroleum-affected soils previously located on the Property. This quarterly monitoring report presents the results of recent quarterly ground-water monitoring activities.

2.0 ACTIVITIES CONDUCTED DURING THE QUARTERLY MONITORING PERIOD

The following activities were conducted for the Property during the period from January 1 through March 31, 1993:

- Water levels were measured on February 9, 1993, in wells LF-8, LF-16, LF-24, LF-25, LF-26, LF-27, LF-28, and LF-29 to the nearest 0.10 foot using an electric water-level sounding probe and recorded in the field.
- Ground-water samples were collected from well LF-16 and wells LF-24 through LF-29 on February 11 and 12, 1993, in accordance with the procedures described in Appendix A. Water-quality sampling sheets are included in Appendix B.
- Ground-water samples were submitted to Anametrix, Inc., a California state-certified laboratory located in San Jose, California, for analyses of total petroleum hydrocarbons (TPH) as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8020, 5030 GCFID; TPH as diesel (TPHd) using EPA Method 3510 GCFID; and oil and grease (O&G) using Standard Method 5520BF. Results of chemical analyses are discussed in Section 4.0.

3.0 GROUND-WATER ELEVATIONS AND FLOW DIRECTION

Table 1 presents a historical summary of depth-to-water measurements and ground-water elevation data collected at the Property. Depth to ground water measured on February 9, 1993, ranged from 3.13 feet below ground surface (bgs) in well LF-25 to 10.31 feet bgs in wells LF-27. Shallow ground-water elevation contours are presented on Figure 2. These data generally indicate a southwesterly ground-water flow direction, with a gradient that ranges from 0.01 ft/ft as measured between wells LF-25 and LF-8 to 0.02 ft/ft as measured between wells LF-24 and LF-29. The February 1993 results are consistent with the general ground-water flow direction previously reported for the Property.

4.0 GROUND-WATER QUALITY RESULTS

Analytical results for ground-water samples collected in February 1993 are presented on Figure 3. Historical ground-water quality data collected at the Site are summarized in Table 2. Laboratory data sheets and chain-of-custody forms are presented in Appendix C.

Chemical analytical results were generally consistent with results reported for the Property in October 1992 (Levine Fricke 1993), which indicated that shallow ground water has not been significantly affected by residual concentrations of petroleum in soils that were removed from the Property by ARI and Levine Fricke between June 1991 and September 1992 (Levine Fricke 1992d). With the exception of well LF-25, no O&G, TPHg, or BTEX compounds were detected in any of the wells sampled. Analytical results for samples collected from well LF-25 indicated very low concentrations of benzene and TPHg at concentrations of 0.0006 ppm and 0.054 ppm, respectively. TPHd was only detected in a ground-water sample collected from well LF-24 at a concentration of 0.076 ppm or less.

The original laboratory report for samples collected from well LF-16 and analyzed for diesel identified a compound not indicative of diesel at a concentration of 0.33 ppm. After Levine. Fricke contacted the laboratory concerning these results, the sample extract was analyzed using EPA Method 8270 to characterize the compound detected. No compounds were detected using this analysis and the laboratory reported that concentrations originally reported for well LF-16 likely were caused by instrument contamination. Concentrations of diesel detected in this well historically have been at the detection limit (0.050 ppm).

5.0 PROJECT ACTIVITIES PROPOSED FOR THE PERIOD FROM APRIL THROUGH JUNE 1993

The following activities are proposed for the second quarter 1993 (April 1 through June 30):

- collection of depth-to-water measurements from wells LF-8,
 LF-16, and LF-24 through LF-29.
- collection of ground-water samples from wells LF-16 and LF-24 through LF-29 for analysis of TPHg, TPHd, BTEX, and O&G.

REFERENCES

1992a. Work plan for ground-water investigations, former Ransome property, Yerba Buena project site, Emeryville, California. Report. Emeryville, California April 15.	ia
	,
1992c. Work plan to install one monitoring well and conduct quarterly monitoring, Former Ransome Property, Yerba Buena Project Site, Emeryville, California. September 15.	
	,
October 1 through December 31, 1992, Former Ransome Property, Yerba Buena Project Site, Emeryville, California. January 29.	om

TABLE 1
WELL CONSTRUCTION AND GROUND-WATER ELEVATION DATA
FORMER RANSOME PROPERTY, EMERYVILLE, CALIFORNIA
(all elevations in feet above mean sea level)

Well Number	Well Elevation	Well Depth (feet)	Screened Interval (feet)	Date Measured	Depth to Water	Ground-Water Elevation
LF-8	29.63	18	7.5-17.5	23-Feb-90	6.05	23.58
				06-Jan-92	5.04	24.59
				15-Apr-92	6.51	23.12
				14-May-92	8.54	21.09
				22-Jul -92	10.19	19.44
				20-0ct-92	11.24	18.39
				09-Feb-93	3.59	26.04
LF-16	17.47	20	5-20	23-Feb-90	5.98	11.49
				06-Jan-92	6.04	11.43
				15-Apr-92	6.40	11.07
				14-May-92	6.46	11.01
				22-Jul -92	6.68	10.79
				20-Oct-92	7.43	10.04
				09-Feb-93	5.65	11.82
LF-24	21.97	20	7-20	14-May-92	9.75	12,22
				28-May-92	9.86	12.11
				22-Jul-92	10.13	11.84
				20-Oct-92	10.91	11.06
				09-Feb-93	8.90	13.07
LF-25	23.00	15	5-15	14-May-92	7.02	15.98
				28-May-92	7.34	15.66
				22-Jul-92	8.38	14.62
				20-Oct-92	9.11	13.89
				09-Feb-93	3.13	19.87
LF-26	26.82	20	8-20	14-May-92	10.55	16.27
	20.02		0 20	28-May-92	10.87	15.95
				22-Jul-92	11.70	15.12
				20-0ct-92	12.67	14.15
				09-Feb-93	6.87	19.95
LF-27	22.76	20	8-20	14-May-92	12.87	9.89
				28-May-92	13.10	9.66
				22-Jul-92	13.55	9.21
				20-Oct-92	14.40	8.36
				09-Feb-93	10.31	12.45
LF-28	20.54	20	7-20	14-May-92	9.00	11.54
			· 	28-May-92	9.02	11.52
				22-Jul-92	9.41	11.13
				20-Oct-92	10.04	10.50
				09-Feb-93	8.34	12.20
LF-29	29.82	20	8-20	20-0ct-92	14.40	15.42
-·				09-Feb-93	8.48	21.34

Data entered by MEK/23-Mar-93 Data proofed by

TABLE 2 GROUND-WATER QUALITY DATA FORMER RANSOME PROPERTY YERBA BUENA PROJECT SITE EMERYVILLE, CALIFORNIA

(concentrations expressed in milligrams per liter [mg/l])

		=====			========				===========	=======
Well						Ethyl-	Total	Oiland		
Number	Date	Lab	TPHg	Benzene	Toluene	benzene	Xylenes	Grease	Hydrocarbons	Diesel
LF-16	14-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	6.6	6.3	NA
Lr - 10	28-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	<0.5	0.05
	22-Oct-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	NA.	0.05
	12-Feb-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	<0.05*
	12 165 75	AIIA	10.03	10.0003	10.0002		.010003	1177	•	-0.05
LF-24	14-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	<0.5	NA
	28-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	<0.5	0.98
	22-Oct-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	NA	0.3
	12-Feb-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	0.076
LF-25	14-May-92	QUA	<0.05	0.0004	0.0004	<0.0003	<0.001	4	2	NA
	duplicate	QUA	<0.05	0.0004	0.0004	<0.0003	<0.001	5.6	3	NA
	28-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	2	1	0.2
	duplicate	AUP	<0.05	<0.0003	<0.0003	<0.0003	<0.001	NA	NA	NA
	22-Oct-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	0.6	NA	0.4
	11-Feb-93	ANA	0.054	0.0006	<0.0005	<0.0005	<0.0005	NA	<5	<0.05
LF-26	14-May-92	AUP	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	<0.5	NA
	28-May-92	QUA	<0.05	<0.0003	0.002	<0.0003	<0.001	<0.5	<0.5	0.1
	22-Oct-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	NA	<0.05
	11-Feb-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	<0.05
	•									
LF-27	14-May-92	QUA	<0.05	0.0004		<0.0003	0.002	<0.5	<0.5	NA
	28-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	<0.5	0.1
	22-0ct-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	NA	<0.05
	11-Feb-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	< 5	<0.05
LF-28	47-May-02	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	<0.5	NA
Lr-20	14-May-92		<0.05	<0.0003		<0.0003	<0.001	<0.5	<0.5	0.3
	28-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	NA	<0.05
	22-Oct-92	QUA				<0.0005	<0.0005		*** <5	
	12-Feb-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	*>	<0.05
LF-29	22-0ct-92	QUA	0.09	0.001	<0.0003	0.0004	0.001	<0.5	NA	<0.05
L. L,	11-Feb-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<u><5</u>	<0.05
		AIR	-0.03	-01000	.01000			197 1	-	
LF-25-FB	14-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	NA	NA	NA
_, ,	28-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	NA	NA	NA
======										

Data entered by MEK/23-Mar-93. Data proofed by MEK/23-Mar-93. QA/QC by ______.

Notes:

Milligrams per liter is equivalent to parts per million. TPMg - Total petroleum hydrocarbons as gasoline. Diesel - Extractable hydrocarbons as diesel NA - not analyzed

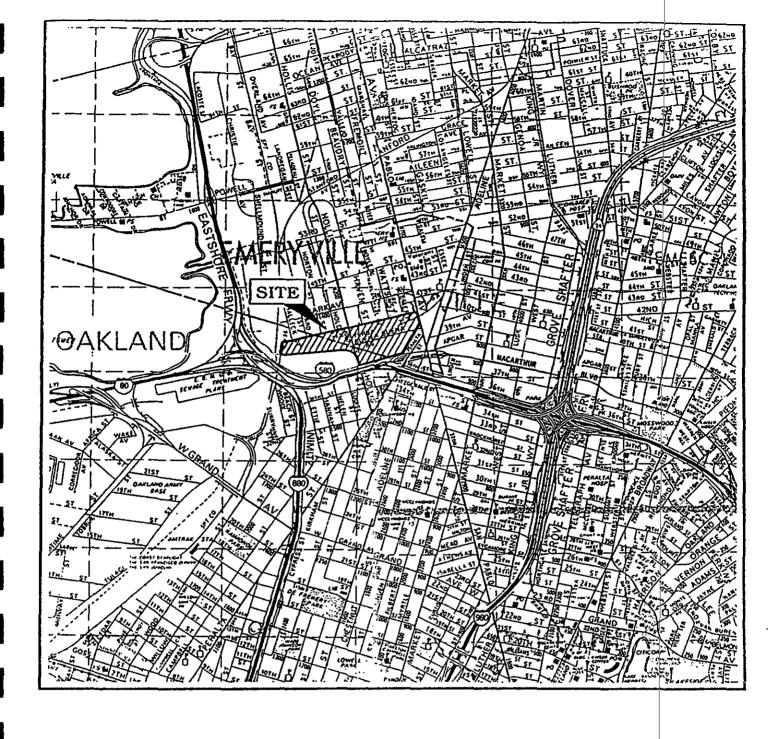
NA - not analyzed FB - field blank

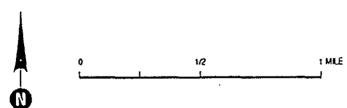
ANA - Anametrix, Inc., of San Jose, California. QUA - Quanteq Laboratories of Pleasant Hill, California.

Oil and grease (analyzed using Standard Method 5520c) is all oil and grease compounds, including animal, vegetable, and petroleum hydrocarbon oil and grease compounds.

Hydrocarbons (analyzed using Standard Methods 5520 8+F and C+F) is only the petrolem hydrocarbon fraction of the oil and grease compounds.

* 0.33 ppm of an unknown compound was detected during analysis of sample LF-16 for TPHd. The laboratory confirmed that its detection most likely is the result of instrument contamination.





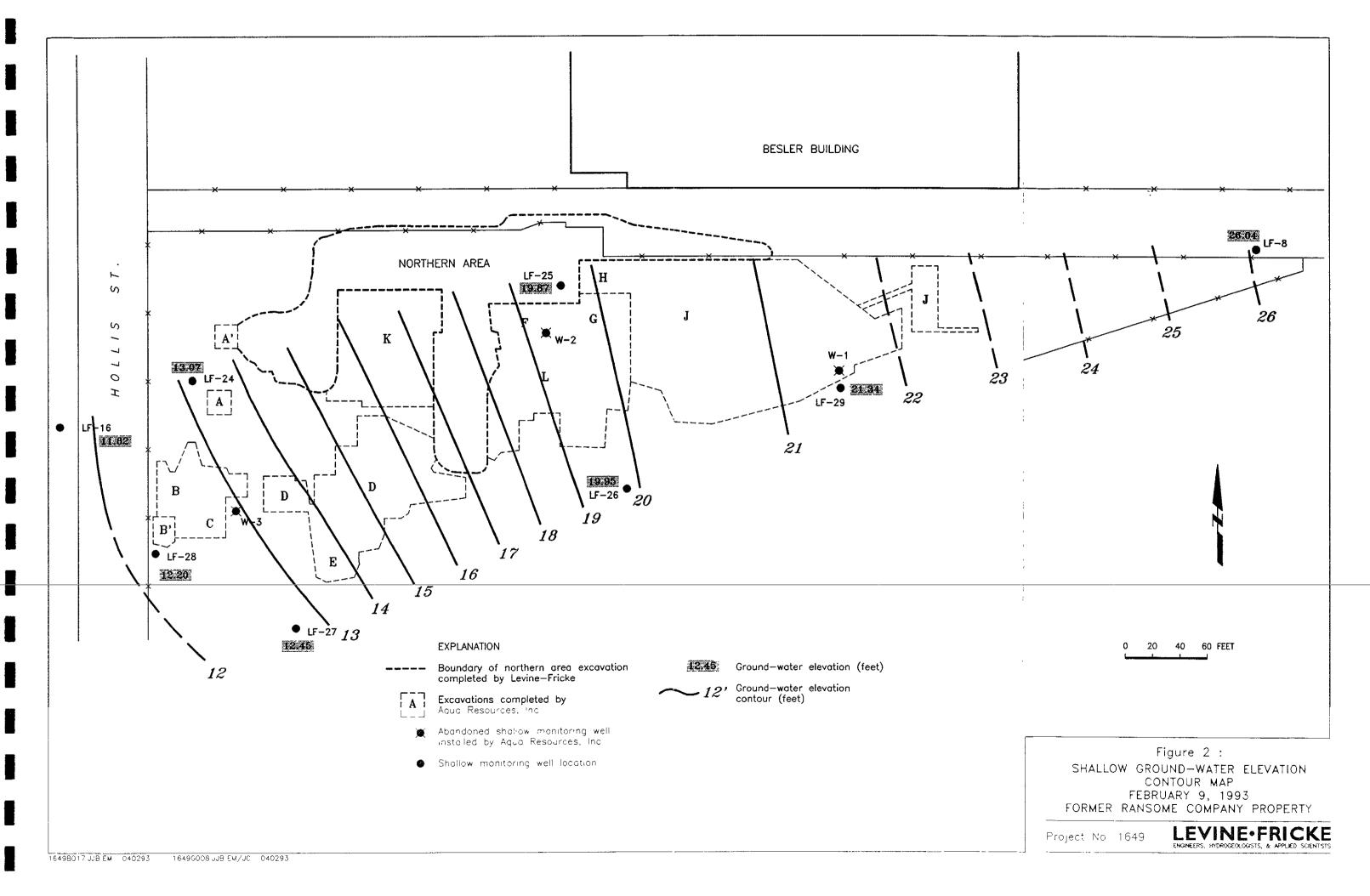
Alameda & Contra Costa Counties, Thomas Bros. map, 1990 Edition

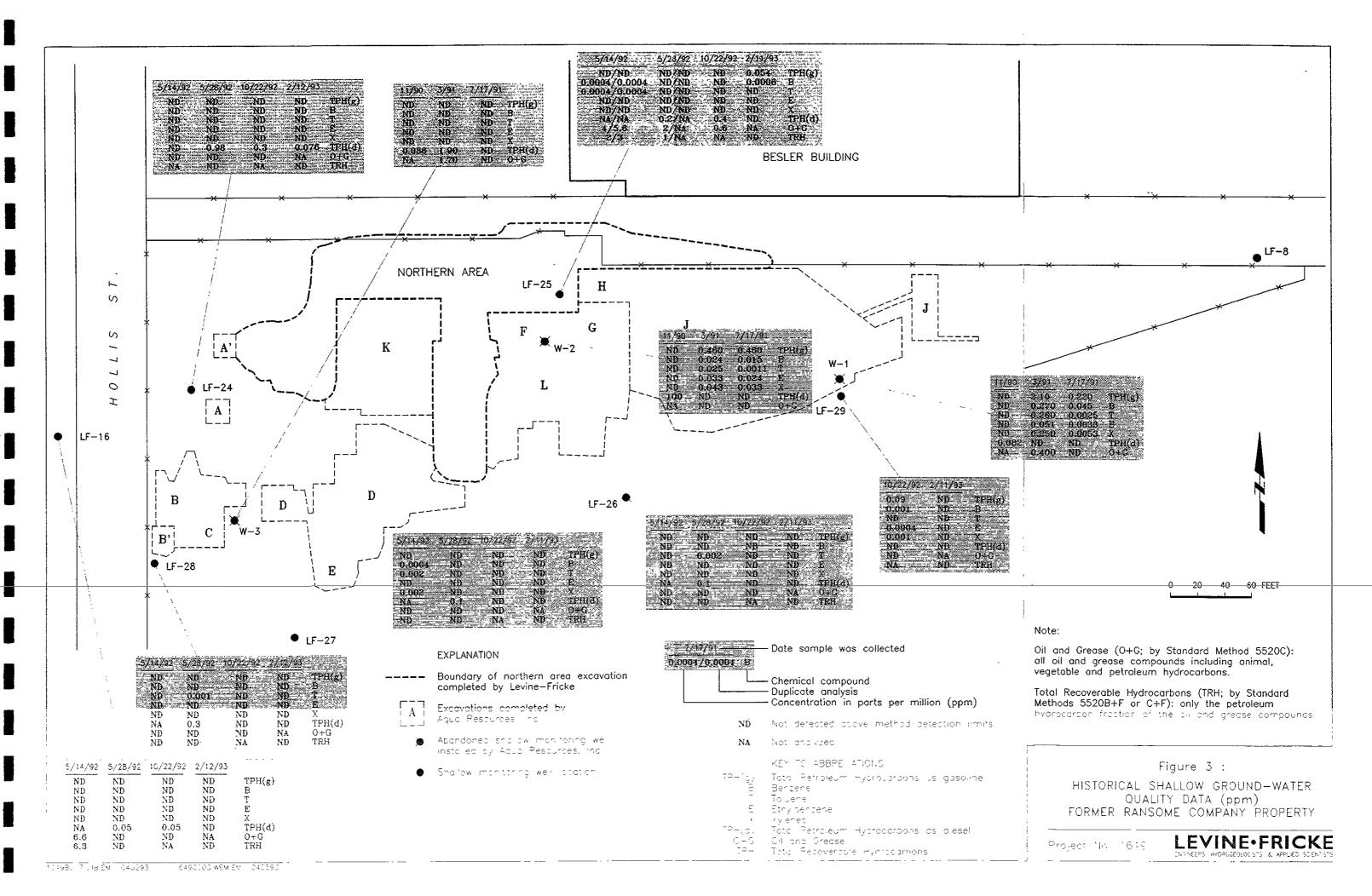
MAP SOURCE:

Figure 1: SITE LOCATION MAP YERBA BUENA PROJECT SITE

Project No. 1649

LEVINE • FRICKE CONSULTING ENGINEERS AND INTOROGEOLOGISTS





APPENDIX A GROUND-WATER SAMPLING PROCEDURES

GROUND-WATER SAMPLING PROCEDURES

Ground-water samples were collected from wells LF-16, LF-24, LF-25, LF-26, LF-27, LF-28, and LF-29 on February 11 and 12, 1993. Before ground-water samples were collected, wells were purged by removing three to five well casing volumes of water from each well using a clean Teflon bailer or a centrifugal pump and clean hose. Wells were purged until indicator readings had stabilized.

After purging, ground-water samples were collected using a clean Teflon bailer and poured directly into three 40-milliliter, HCl-preserved, glass volatile organic analysis (VOA) vials, and into four 1-liter amber bottles preserved with HCl. Before the ground-water sample was collected from well LF-26, one field blank (LF-26-FB) was collected for quality control/quality assurance (QA/QC) purposes by pouring laboratory-supplied distilled water into a clean Teflon bailer and filling three 40-milliliter VOA bottles with the water from the bailer. Additionally, a duplicate sample was collected for chemical analysis from well LF-25 (labeled LF-125) for QA/QC purposes. The field blank and duplicate samples were submitted to the laboratory on a hold basis, pending analytical results of the primary samples.

Immediately after collection, samples were labeled and placed in an ice-chilled cooler. Ground-water samples were delivered under strict chain-of-custody protocol to Anametrix, Inc., of San Jose, California. Ground-water samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Methods 8020 and 5030 GCFID; for TPH as diesel (TPHd) using EPA Method 3510 GCFID; and for oil and grease (O&G) using Standard Method 5520BF. Copies of the laboratory certificates are presented in Appendix C.

The Teflon bailers were washed with Alconox, a laboratorygrade detergent, and water, rinsed, and steam cleaned before use in each well. Centrifugal pump hoses were also steam cleaned before use in each well.

Purged water (generated during well development and sample collection) was temporarily stored on site in labeled, 55-gallon drums.

APPENDIX B WATER-QUALITY SAMPLING SHEETS

WA	LEK-G	JALITY	SAM	PLIN	G IN	OK	.W.A	TION	
Project N	ame	YERBA B	UENA			Proj	ect No.	1649.00	<u> </u>
Date		2/12/95						LF.16	
Samplers	Name	JCK							
Sampling	Location	EMERYVIL	LE/R	ANSO	ME	_		10110	
Sampling	Method	ENT. PUMP	(TEFLO	N BA	LER	_	1	5.58	
Analyses	Requested _	EPA-80	HO [PH-G,	D. BTEX,	0+4			
Number a	and Types of S	sample Bottles us	ed <u>3 /</u>	UAS w	THCC	<u>+</u> 466.	L. 1	382	
Method o	of Shipment	course	R		<u></u>	_	į	910	-
	GROUND V			SURFAC	E WATER		<i>o</i> 6	92	
Well No.	LF.	16	Stream W	Vidth		_ _	8 2	7830	
Well Diar	meter (in.)	4 in	_ Stream E	epth	·	_	8	70-	
Depth to	Water,	58	Stream V	elocity _					
Static (ft)	· · · · · · · · · · · · · · · · · · ·	NO	Rained re	ecently?_		_			
	Well Box	.40	Other						
-			2-inc	h casing =	= 0.16 gal/ft				
Height of Column	in Well/ 3	87	_ (4-inc	h casing =	0.65 gal/ft)			
Water Vo	lume in Well	8.98	5-inc	h casing =	= 1.02 gal/ft		L	OCATION MA	P
			6- in c	h casing	= 1.47 gal/ft				
TIME	DEPTH TO WATER (feet)	VOLUME WITHDRAWN (gallons)	TEMP (deg. C)	pH (S.U.)	COND (mhos/cm)	OTHE	R	REMARKS	
12:19							5	TART	
12:20		9	17.8	7.02	730		Ċ	LEAR	
12:24	DEWATERE	18	18.6	6.90	694		S	c TURBIA	OFF
12:30						-		N	7
10.1	<u> </u>		 	 		 			

TIME	(feet)	(gallons)	(deg. C)	(S.U.)	(mhos/cm)			
12:19							START	
12:10		9	17.8	7.02	730			
	DEMATERE	18	18.6	6.90	694		SC TUPBIA	OFF
12130					,	-	مه	
12:31		23		ļ			OFF	:
12:45								
12:46		30	17.5	6.86	681		SC. TURB SAUPLE	DOFF
12:50							54-8LE	
				<u> </u>				
				<u> </u>				

Suggested Method for Purging Well_

WA:	rer-g	UALITY	SAM	PLIN	G IN	FOR	MA	TION	
Project N	lame	ERBA BU	ENA			Proj	ect No.	1649.0	7
Date		2/12/93				Sam	ple No	<u>LF - 24</u>	, }
Samplers	s Name	JCK	···					···	
Sampling		EMERYVILL				_			
Sampling	Method	AND BAIL!	TEFLON	BAILE	<u>r</u>			2.0	0
	Requested _	rate Ach			D. RTEX C) 4G		8.8	2
		Sample Bottles us	ed 3 V	0A5 W	1 HCC	MGCK.	_		
	of Shipment	A A						13.1	8
MCGIOG (GROUND V			SIIDRAC	E WATER			• • • • • • • • • • • • • • • • • • • •	6
Well No.	10.		_ Stream W		/D W2112A				8
	meter (in.)	<u> </u>	Stream D	1	· · · · · · · · · · · · · · · · · · ·		•	790) 0
		<u> </u>	Stream V			_		1218	
Depth to Static (ft	Water. 8.	82				-		13,00	D
Water in	Well Box	NO	_	cently?	· ······	— I		2108	8
Well Dep	oth (ft)	1.00	Other			5	0	2 '	
Majala ai	f Illatan				= 0.16 gal/ft				
Column	in Well		_	_	= 0.65 gai/ft		т	OCATION MA	P
Water Vo	olume in Well	١١ . له	5-inc	h casing =	= 1.02 gal/ft		_	OCATION III	<u> </u>
			6-inc	h casing :	= 1.47 gal/ft				
тіме	DEPTH TO	VOLUME	ТЕМР	pН	COND	OTHE	₹	REMARKS	
IIME	WATER (feet)	WITHDRAWN (gallons)	(deg. C)	(ຣ໌.ບັ.)	(mhos/cm)				
7 5									
8:15								START	
211		2.5	16.0	7.19	289		7	URSA	

тіме	DEPTH TO WATER (feet)	VOLUME WITHDRAWN (gallons)	TEMP (deg. C)	pH (S.U.)	COND (mhos/cm)	OTI	ER	REMARKS	3
8:5								START	
818		2.5	16.0	7.19	889			TURSIA	
8:22		2.5 D.950	16.0	7.17	887			٠.	
8:26		7.5	16.7	7.07	884			TURFID	
8:29		10.0	16.6	2.09	881			. •	
8:35		/						' ŠA	820
									

Suggested Method for Purging Well

LEVÎNE - FRICKE WATER-QUALITY SAMPLING INFORMATION Project No. 1649.09 BUENA YERBA Project Name Sample No. LF . 25 2 /11 /93 Date JCK Samplers Name EMERYVILLE/R Sampling Location HAND BAIL / TEFLON BAILER Sampling Method 8010 Analyses Requested Number and Types of Sample Bottles used 3 VOAs W/HCL COURTER Method of Shipment GROUND WATER SURFACE WATER Stream Width . Well No. . Stream Depth Well Diameter (in.) Stream Velocity Depth to Water, Static (ft) _ Rained recently? *ح* در Water in Well Box Other Well Depth (ft) (2-inch casing = 0.16 gal/ft Height of Water 4-inch casing = 0.65 gal/ft Column in Well LOCATION MAP 5-inch casing = 1.02 gal/ft Water Volume in Well 6-inch casing = 1.47 gal/ft OTHER VOLUME DEPTH TO COND TEMP pН REMARKS TIME WATER WITHDRAWN (Ŝ.U.) (mhos/cm) (deg. C) (gallons) (feet) MR T SCIGHTLY TURBIN

173:49	5.0	15.3 1/2.524	2 700	X164764	TEXEDIO
13/4:07	7.5	13.6 12.46	2890	ς.	٠,
14:15	10.0	14.0 12.45	2880	MODERATECS SALPLE	TURS D
14:30				Super	
15:50				125	

LEVINE - FRICKE WATER-QUALITY SAMPLING INFORMATION Project No. 1649.09 YERBA BUENA Project Name LF-26 2/11/93 Sample No. _ Date F. >6. FB JCK Samplers Name EMERYVILLE/RANSOME Sampling Location _ Sampling Method HAND BAIL / TEFLON BAILER Analyses Requested TPH.G. D. BIEX O+G Number and Types of Sample Bottles used 6 3 UOA 4GL. C. 6 GROUND WATER SURFACE WATER LF-26 Stream Width Well No. __ 2 in Stream Depth Well Diameter (in.) Stream Velocity Depth to Water. Statte (ft) Rained recently?_ Water in Well Box Other 21.80 Well Depth (ft) _ 2-inch casing = 0.16 gal/ft Height of Water Column in Well 15.18 4-inch casing = 0.65 gal/ft LOCATION MAP 5-inch casing = 1.02 gal/ft Water Volume in Well . 6-inch casing = 1.47 gal/ft VOLUME **DEPTH TO** OTHER **TEMP** pН COND TIME REMARKS WITHDRAWN WATER (Š.U.) (deg. C) (mhos/cm) (gallons) (feet) OFT FIELD BLANK 15:16 STURT 6.87 827 TURBID 16.9 6.86 815 1. 5.0 7.0 6.76 resid 810 15:30 ecē

Suggested Method for Purging Well	
Suggested Medica for Falging Weil	

WATER-QUALITY SAMPLING INFORMATION

Project N	lameY	erba Bu	ena			Proj	ect No. 1049.09	
Date		/11/93				San	aple No. LF.27	
Samplers	s Name	JCK						
_	g Location	EMERYVI	LLE/A	LANSO	ME	_	21.92	
	g Method	HAND BALL	1/TEFL	ON BA	HLER	_	9.96	
Analyses	Requested	TPH.G, D, E	BTEX C	7+G-		_	196	
Number	and Types of S	Sample Bottles us	ed £ 3/	04 4	1 64. L.	_	11.16	
Method o	of Shipment .	Cou	عي، عر	<u>-</u>		_	2176	
	GROUND V	WATER		SURFAC	E WATER		1196	
Well No.	LF.	27	_ Stream W	71dth		_	6136	
Well Dia	meter (in.)	2 in	_ Stream D	epth		_ '	7.7'	
Depth to Static (ft	Water.	7.96	Stream V	ecity		_		
		NO	Rained re	cently?_		-	•	
	WCII DOX	.92	Other			_		
_	• •				0.16 gal/ft	'		
Column	in Well	1.96	_ '-4-inc	h casing =	0.65 gal/ft	L	LOCATION MAP	
Water Vo	olume in Well	1.91	_ 5-inc	h casing =	: 1.02 gal/ft		LOCATION MEAT	
			6-inc	h casing =	= 1.47 gal/ft			
тіме	DEPTH TO WATER (feet)	VOLUME WITHDRAWN (gallons)	TEMP (deg. C)	pH (S.U.)	COND (mhos/cm)	OTHE	R REMARKS	
16:07							START	
16:09		2	17.4	7.01	871		TUESID	
16:12		4	17.8	6.73	863		E 1	
10:15		6	18.1	6.93	874		TURTIS	
16:20							TURBID SH-PLE	
			4	 				

Suggested Method for Purging Well

LEVINE - FRICKE WATER-QUALITY SAMPLING INFORMATION Project No. 1649.09 BUENA YERBA Project Name Sample No. LF.25 12/93 Date _ Samplers Name JCK EMERYVILLE RANSOME LFUS Sampling Location Sampling Method HAND BAIL 21.7 O 8.31 Analyses Requested TPH-G. Number and Types of Sample Bottles used 3 Gc. VoA DU R157 Method of Shipment . GROUND WATER SURFACE WATER F-28 Stream Width Well No. . Stream Depth. Well Diameter (in.) Stream Velocity Depth to Water. **33** 8.31 Static (ft) Rained recently? Water in Well Box Other Well Depth (ft) 2-inch casing = 0.16 gal/ft Height of Water Column in Well 4-inch casing = 0.65 gal/ft LOCATION MAP Water Volume in Well $\frac{2}{2}$. 5-inch casing = 1.02 gal/ft 6-inch casing = 1.47 gal/ft VOLUME OTHER

TIME	WATER (feet)	WITHDRAWN (gallons)	TEMP (deg. C)	pH (S.U.)	COND (mhos/cm)	OTHER	REMARKS
5:5b							
8:59		2.5	169	166.D	88		TURSID
\$9:03		2.5 5.0	17.0	6.82	871		
8:59 8 9:03 9:07		7.5	17.5	1 .			TORBID SAMPLE
9:15					/		SAMPLE
						*	
				 			
	Ļ	<u> </u>			1	.4	

Suggested Method for Purging Well

LEVINE - FRICKE WATER-QUALITY SAMPLING INFORMATION Project No. 1649.09 BUENA YERBA Project Name Sample No. LF.29 2/11/93 Samplers Name JCK EMERYVILLE/RANSOME Sampling Location _ Analyses Requested See TPH-G, BTER, DIESEC, Number and Types of Sample Bottles used 3 VOA + 4 GC. L. COUPIER Method of Shipment _ GROUND WATER SURFACE WATER LF.29 Stream Width Well Diameter (in.) Stream Depth Stream Velocity Depth to Water, Static (ft) _ Rained recently? Water in Well Box Other . 22.10 Well Depth (ft) (2-inch casing = 0.16 gal/ft)Height of Water 4-inch casing = 0.65 gal/ft Column in Well LOCATION MAP 5-inch casing = 1.02 gal/ft Water Volume in Well 6-inch casing = 1.47 gal/ft **VOLUME** OTHER DEPTH TO COND TEMP pН REMARKS TIME WITHDRAWN WATER (deg. C) (Š.U.) (mhos/cm) (gallons) (feet) 574RT 303 BSC. TURBID 80 *4.*59 *3:0*7 50 7.9 692 TURBIO 6.90 855 7.5 TURBID **ソ**). マ SH-PCE 1315

Suggested Method for Purging Well HAND BAIL

APPENDIX C

LABORATORY DATA SHEETS AND CHAIN-OF-CUSTODY FORM FOR GROUND-WATER SAMPLE ANALYSES

ANAMETRIX INC

ivironmental & Analytical Chemistry

Part of INCHCAPE ENVIRONMENTAL



MS. JENIFER BEATTY

LEVINE-FRICKE

1900 POWELL STREET 12TH FLOOR

EMERYVILLE, CA 94608

Workorder # : 9302189
Date Received : 02/12/93
Project ID : 1649.09

Purchase Order: N/A

The following samples were received at Anametrix, Inc. for analysis:

ANAMETRIX ID	CLIENT SAMPLE ID
9302189- 1 9302189- 2 9302189- 3 9302189- 4 9302189- 5 9302189- 6 9302189- 7 9302189- 7 9302189- 8 9302189- 9 9302189- 9	LF-16 LF-24 LF-28 LF-29 LF-27 LF-26-FB LF-26 LF-25 LF-125 TRIP212

This report consists of 11 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Sarah Schoen, Ph.D.

Laboratory Director

02-27-93

Date



RECEIVED

MAR I - ...

REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY LEVINE-FRICKE 1900 POWELL STREET 12TH FLOOR EMERYVILLE, CA 94608 Workorder # : 9302189
Date Received : 02/12/93
Project ID : 1649.09
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9302189- 1	LF-16	WATER	02/12/93	TPHd
9302189- 2	LF-24	WATER	02/12/93	TPHd
9302189- 3	LF-28	WATER	02/12/93	TPHd
9302189- 4	LF-29	WATER	02/11/93	TPHd
9302189- 5	LF-27	WATER	02/11/93	TPHd
9302189- 7	LF-26	WATER	02/11/93	TPHd
9302189- 8	LF-25	WATER	02/11/93	TPHd
9302189- 1	LF-16	WATER	02/12/93	TPHg/BTEX
9302189- 2	LF-24	WATER	02/12/93	TPHg/BTEX
9302189- 3	LF-28	WATER	02/12/93	TPHg/BTEX
9302189- 4	LF-29	WATER	02/11/93	TPHg/BTEX
9302189- 5	LF-27	WATER	02/11/93	TPHg/BTEX
9302189- 7	LF-26	WATER	02/11/93	TPHg/BTEX
9302189- 8	LF-25	WATER	02/11/93	TPHg/BTEX
9302189-10	TRIP212	WATER	02/11/93	TPHg/BTEX

REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY

LEVINE-FRICKE

1900 POWELL STREET 12TH FLOOR

EMERYVILLE, CA 94608

Workorder # : 9302189

Project ID : 1649.09

Date Received: 02/12/93

Purchase Order: N/A

Department : GC

Sub-Department: TPH

QA/QC SUMMARY :

- The concentration reported as TPHd for sample LF-16 is due to the presence of discrete hydrocarbon peaks, not indicative of diesel.

Department/Supervisor

2/27/43 Date Marcheller

Date

GC/TPH - PAGE 2

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9302189
Matrix : WATER

ATER

Project Number: 1649.09 Date Released: 02/27/93

Date Sampled : 02/11-12/93

\ 	Reporting Limit	Sample I.D.# LF-16	Sample I.D.# LF-24	Sample I.D.# LF-28	Sample I.D.# LF-29	Sample I.D.# LF-27
COMPOUNDS	(ug/L)	-01	-02	-03	-04	-05
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	0.5 0.5 0.5 0.5 50	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND
<pre>% Surrogate Reco _ Instrument I.I Date Analyzed RLMF</pre>		92% HP12 02/18/93	101% HP12 02/18/93	107% HP12 02/18/93	98% HP12 02/18/93	89% HP12 02/18/93

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 61-139%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Analyst Date

Chauf Belmes =12>153 Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9302189 Matrix : WATER Date Sampled : 02/11/93 Project Number: 1649.09
Date Released: 02/27/93

		Reporting Limit	Sample I.D.# LF-26	Sample I.D.# LF-25			
	COMPOUNDS	(ug/L)	-07	-08	-10	BLANK	
7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	0.5 0.5 0.5 0.5 50	ND ND ND ND ND	0.6 ND ND ND 54	ND ND ND ND ND	ND ND ND ND ND	
	<pre>% Surrogate Reco Instrument I.I Date Analyzed RLMF</pre>		104% HP12 02/18/93	95% HP12 02/18/93 1	98% .HP12 02/18/93	88% HP12 02/18/93	

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 61-139%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Analyst Date

Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9302189 Matrix : WATER

Project Number: 1649.09 Date Released : 02/27/93

Date Sampled : 02/11-12/93

Instrument I.D.: HP23

Date Extracted: 02/17/93

!	Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)
	9302189-01	LF-16	02/18/93	50	330
	9302189-02	LF-24	02/19/93	50	76
	9302189-03	LF-28	02/19/93	50	ND
	9302189-04	LF-29	02/19/93	50	ND
	9302189-05	LF-27	02/19/93	50	ND
	9302189-07	LF-26	02/19/93	50	ND
	9302189-08	LF-25	02/19/93	50	ND
	DWBL021793	METHOD BLANK	02/18/93	50	ND

Note: Reporting limit is obtained by multiplying the dilution factor times 50 ug/L.

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

while 2.27

127/43

TOTAL VOLATILE HYDROCARBON MATRIX SPIKE REPORT EPA METHOD 5030 WITH GC/FID ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 1649.09 LF-29 Matrix : WATER

Matrix

Date Sampled : 02/11/93 Date Analyzed : 02/18/93

Anametrix I.D.: 02189-04 Analyst: MW

Analyst : MS
Supervisor : MS

Date Released : 02/27/93 Instrument ID : HP12

COMPOUND	SPIKE AMT (ug/L)	SAMPLE AMT (ug/L)	REC % REC MS MS (ug/L)	REC % REC MD MD (ug/L)	RPD % REC LIMITS
GASOLINE	250	0	250 100%	250 100%	0% 48-149
P-BFB			92%	92%	61-139

^{*} Limits established by Anametrix, Inc.

TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT EPA METHOD 5030 WITH GC/FID ANAMETRIX, INC. (408) 432-8192

: LAB CONTROL SAMPLE Sample I.D.

Anametrix I.D.: LCSW0218 Analyst : WW

Matrix : WATER

: 03 Supervisor

Date Sampled : N/A Date Analyzed: 02/18/93

Date Released : 02/27/93 Instrument I.D.: HP12

	COMPOUND	SPIKE REC AMT. LCS OUND (ug/L) (ug/L)		%REC LCS	% REC LIMITS
-	GASOLINE	250	250	100%	67-127
	SURROGATE			92%	61-139
_			· = ·- ·- = = = ··· ·- ·- ·- ·-		

^{*} Quality control established by Anametrix, Inc.

TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT EPA METHOD 3510 WITH GC/FID ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE

: WATER Matrix Date Sampled : N/A

Date Extracted: 02/17/93

Date Analyzed: 02/18/93

Anametrix I.D.: LCSW0218 Analyst : MG

Supervisor : 05 Date Released : 02/27/93

Instrument I.D.: HP23

COMPOUND	SPIKE AMT (ug/L)	LCS REC (ug/L)	% REC LCS	LCSD REC (ug/L)	% REC LCSD	RPD	% REC LIMITS
DIESEL	1250	600	48%	620	50%	3%	47-130

^{*}Quality control established by Anametrix, Inc.

REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY

LEVINE-FRICKE

1900 POWELL STREET 12TH FLOOR EMERYVILLE, CA 94608

Workorder # : 9302189
Date Received : 02/12/93
Project ID : 1649.09
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

AMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9302189- 1	LF-16	WATER	02/12/93	5520BF
9302189- 2	LF-24	WATER	02/12/93	5520BF
9302189- 3	LF-28	WATER	02/12/93	5520BF
9302189- 4	LF-29	WATER	02/11/93	5520BF
9302189- 5	LF-27	WATER	02/11/93	5520BF
9302189- 7	LF-26	WATER	02/11/93	5520BF
9302189- 8	LF-25	WATER	02/11/93	5520BF

REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY

LEVINE-FRICKE

1900 POWELL STREET 12TH FLOOR EMERYVILLE, CA 94608

Workorder # : 9302189
Date Received : 02/12/93
Project ID : 1649.09
Purchase Order: N/A

Department : PREP Sub-Department: PREP

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

02-27-93

Department Supervisor

Date

ANALYSIS DATA SHEET - OIL AND GREASE AS TOTAL RECOVERABLE PETROLEUM HYDROCARBONS ANAMETRIX, INC. (408) 432-8192

: 1649.09 Project I.D. : WATER Matrix Date sampled: 02/11-12/93
Date extracted: 02/18/93
Date analyzed: 02/19/93 Anametrix I.D. : 9302189 Analyst Supervisor

Date released : 03/30/93

 Workorder #	Sample I.D.	Reporting Limit (mg/L)	Amount Found (mg/L)
9302189-01	LF-16	5	NTO
9302189-02	LF-24	5 .	ND
9302189-03	LF-28	5	ND
9302189-04	LF-29	5	ND
9302189-05	LF-27	j 5	ן ממ
9302189-07	LF-26	5	ND
9302189-08	LF-25	5	ND
GWBL0218	METHOD BLANK	5	ן סוג

Not detected at or above the practical quantitation limit for the method.

TRPH - Total Recoverable Petroleum Hydrocarbons are determined by Standard Method 5520BF.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS LAB CONTROL SAMPLE REPORT STANDARD METHOD 5520BF

ANAMETRIX, INC. (408) 432-8192

Cample I.D. : LAB CONTROL SAMPLE

Anametrix I.D. : LCSW021893 Analyst : PD

atrix : WATER

Date sampled : N/A

Date extracted : 02/18/93

Tate analyzed : 02/19/93

Analyst

Supervisor : No Date Released : 02/23/93

COMPOUND	SPIKE AMT. (mg/L)	LCS (mg/L)	*REC LCS	LCSD (mg/L)	₹REC LCSD	*RPD	%REC LIMITS
otor Oil	50	42	84%	45	90%	7%	54-106%

^{*} Quality control limits established by Anametrix, Inc.

9302189 10/34 (18) 20:10

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

[Project No.	oject No.: 1649.09						Project Location: EmERY VILLE Ct.					2/93	Serial I		858	1		
	Project Nan	ne: 🛵		SOE. RANSA	mE	Projec	t Lo	ocatio	n: E	ME	ه ب	116	<u> </u>	4.			•		
- [Sampler (Sig	gnature)	: 🍑	CC/	<u> </u>					Δ	NAI	YSES	· .			Samp			
			\$4	MPLES		SAMPLE TYPE TYPE TYPE TYPE								KOL	\si [*] /	70	<u> </u>		
	SAMPLE NO.	DATE	TIME	LAB SAMPLE	NO. OF CON- TAINERS	SAMPLE TYPE		18 g	8 / 18		111.7	\ \ <u>`</u> \		XV/	/		REMAR	KS	
(1)	LF-16	2/12	12:50		7	H20			×	X	X				NOF	ense T	TAT		
- K	11 1/2			gample #2	-				_										
2	LF-24	2/12	8:35		7	HOO			×	×	بح				Rão	urs	TO		
3	LF-28	2/12	9:15	vecely may	7	HOCH			X	X	4				<i>F</i>	38	864 1	S PAI	NDT.
X.	LF-29	2/4	13:15	2/14/89	7	H20			×	×						Z/1-38	ATEL	دس	>
Ö	LF-27	FE]	16:20		7	1/20		<u> </u>	×	7	x	1							
X	LF-26-F3	1	15:15		3	120			X				X						
7	6F-26	11	15:30		7	H20			X	7			1						
K	LF-25	11	14:30		7	1,,,,			X	k	*	1							
à	LF-125	1	15:30		ح				X				X						
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						10175	<u> </u>	<u> </u>	<u> </u>	505111	ED BY:	79	<u> </u>		2		T DATE		True
	RELINQUISHED (Signature)	BY:	9-C,-	<u></u>		DATE	43	TIME 8:0	20 (Signa	ture)	VX		Tou	ud		ارگذا	12/53	TIME /BOD
	RELINQUISHED (Signature)		4600	-10		DATE 2/12/9	73	TIME	(D) (R	ECEIV Signa	ED BY:	Vic	hole	D.	Kexiil	lan	DATI	93	20:10
	RELINQUISHED (Signature)	8Y:				DATE		TIME	R		ED BY:				0		DATI		TIME
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Shipping Copy (White)

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File Copy (Yellow)