

# ALL ENVIRONMENTAL, INC.

Environmental Engineering & Construction

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February 20, 1996

Job No. 1120


Mr. Barney Chan, Hazardous Materials Specialist  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Rm. 250  
Alameda, CA 94502-6577

Subject: **Quarterly Groundwater Monitoring Report**  
625 Hegenberger Road, Oakland, California

Dear Mr. Chan:

We are enclosing one copy of the referenced report for your review, which presents the results of the quarter of groundwater monitoring and sampling at the above referenced site. If you have any questions or comments regarding the findings presented in this report, please call me at (510) 820-3224.

Sincerely,



Bryan Campbell  
Project Geologist

*Was there a Jan 96 sampling?*

*4/28/96 sp w/ B. Campbell, 4/25/96 sampling occurred.*

*I suggest eliminating TPH<sub>d</sub> + TPH<sub>o</sub> on future monitoring bc*

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Corporate Headquarters:

2641 Crow Canyon Rd., #5  
San Ramon, CA 94583  
(510) 820-3224

Los Angeles Office:

5031 Pacific Coast Hwy., #178  
Torrance, CA 90505  
(310) 328-8878

**QUARTERLY GROUNDWATER  
MONITORING REPORT**

**625 Hegenberger Road  
Oakland, California**

Prepared For

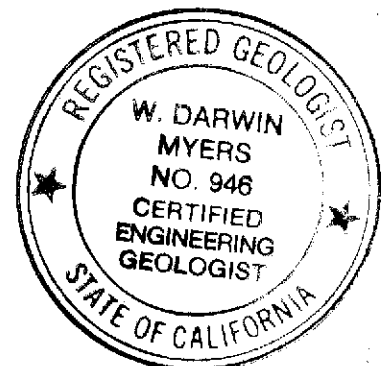
Diversified Investment and Management Corp.  
400 Oyster Point Blvd.  
Suite 415  
South San Francisco, CA 94080

Prepared By

All Environmental, Inc.  
~~2641 Crow Canyon Road, Suite 5~~  
San Ramon, CA 94583

February 8, 1996

*3364 Mt. Diablo Blvd  
Lafayette 94549*



# ALL ENVIRONMENTAL, INC.

Environmental Engineering & Construction

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February 8, 1996

Mr. Barney Chan, Hazardous Materials Specialist  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Rm 250  
Alameda, CA 94502-6577

RE: Quarterly Groundwater Monitoring Report  
Third Quarter of 1995  
625 Hegenberger Road  
Oakland, California

Dear Mr. Chan:

This report is submitted by All Environmental, Inc. (AEI) on the behalf of Diversified Investment and Management Corp., for the former fuel service station location at 625 Hegenberger Road, Oakland, California.

## Summary of Activities

AEI measured the depth to ground water and collected water samples from six groundwater monitoring wells on October 2, 1995. The monitoring wells sampled included the five wells installed by Subsurface Consultant in 1989 and 1990, and the one well installed by Levine-Fricke in January of 1995. Well locations are shown in Figure 1. The sampling procedure for each monitoring well involved measuring water levels, purging the wells, and collecting a water sample.

The depth from the top of the well casing and the total well depth were measured prior to sampling with an electric water level indicator. The wells were purged and a groundwater sample was collected from each well using a disposable clean Teflon bailer. Temperature, pH, and turbidity were measured during the purging of the well. AEI removed 3 to 4 well volumes per well, and provided that the temperature, pH, and turbidity stabilized, a water sample was collected.

Water samples were poured slowly into laboratory provided glass sampling containers, capped, and shipped on ice under proper chain of custody to Priority Environmental Laboratories. The samples were analyzed for benzene, toluene, ethylbenzene, and total xylene (BTEX) by EPA Method 602, for total petroleum hydrocarbons gasoline (TPHg) by EPA Method 5030/8015, and for total petroleum hydrocarbons as diesel and oil (TPHo) by EPA Methods 3510/8015.

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## Field Results

Groundwater elevation data are summarized in Table 1 and shown in Figure 1. The groundwater elevation contours and the groundwater flow directions are shown in Figure 1. A summary of field parameters, measured during and sampling is presented in Table 2.

No free product was encountered during monitoring activities. Groundwater levels for October 2, 1995 range from 2.41 to 2.81 feet below mean sea level (msl). These groundwater elevations were approximately 0.5 feet lower than the September 1994 levels (1.99 to 2.40 feet below msl).

The general direction of the groundwater flow at the time of measurement was west. The groundwater hydraulic gradient was approximately 0.003 ft/ft.

## Groundwater Quality

A summary of groundwater quality data, including available historic data, is presented in Table 3. Laboratory analysis data are presented in Appendix B.

## Recommendations

AEI recommends continuing quarterly monitoring. TPHd and TPHo concentrations were not detected and have either been low or not detected during the last two years. AEI recommends discontinuing monitoring for these compounds.

Please do not hesitate to call either of the undersigned, if you have any questions.

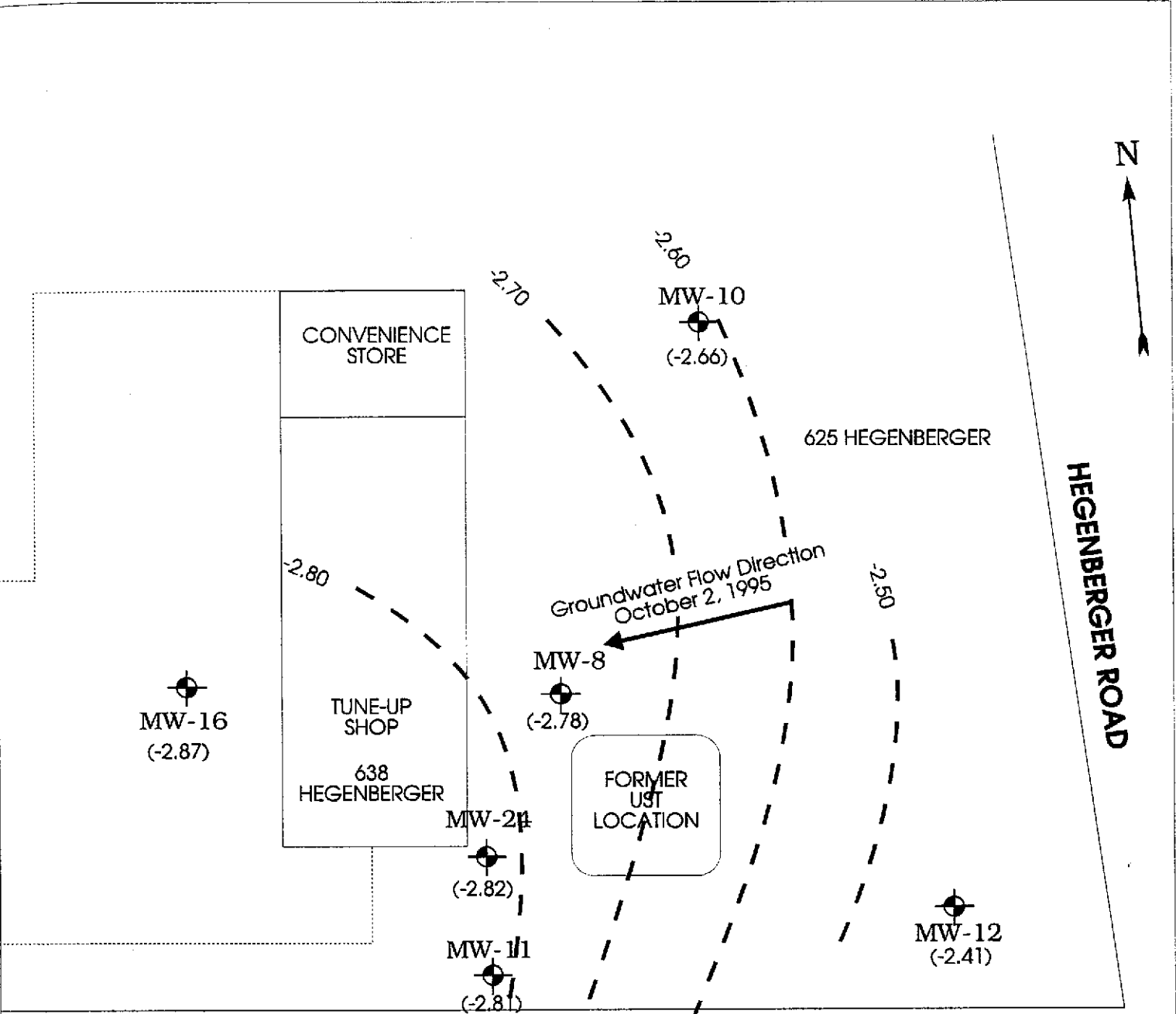
Sincerely,



J. P. Deharke  
Project Manager

Mike Patel, P. E.  
Senior Engineer


Enclosures



**COLLINS DRIVE**

0 20 40 FEET  
 SCALE: 1" = 40'

-2.70  
 Line of Equal Groundwater Elevation (feet)

MW-8  
  
 (-2.66) Groundwater Elevation (feet)

<b>ALL ENVIRONMENTAL, INC.</b>	
2641 CROW CANYON ROAD, SAN RAMON, CA	
DRAWN BY: B. CAMPBELL	REVISED BY:
DATE: FEB, 1996	APPROVED BY:
<b>POTENTIOMETRIC MAP</b>	
625 Hegenberger Road, Oakland	FIGURE 1

**Table 1**  
**Groundwater Elevations**  
**625 Hegenberger Road, Oakland, California**

Well ID	Date	Well Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)
MW-8	12/22/93	4.88	6.72	-1.84
MW-10	12/22/93	4.21	6.00	-1.79
MW-11	12/22/93	5.04	6.84	-1.80
MW-12	12/22/93	4.58	6.07	-1.49
MW-16	12/22/93	NA	7.48	NA
MW-8	6/30/94	4.88	6.55	-1.67
MW-10	6/30/94	4.21	5.79	-1.58
MW-11	6/30/94	5.04	6.73	-1.69
MW-12	6/30/94	4.58	6.06	-1.48
MW-16	6/30/94	NA	7.28	NA
MW-8	9/27/94	4.88	7.20	-2.32
MW-10	9/27/94	4.21	6.39	-2.18
MW-11	9/27/94	5.04	7.41	-2.37
MW-12	9/27/94	4.58	6.57	-1.99
MW-16	9/27/94	5.53	7.93	-2.40
MW-8	1/4/95	4.88	6.21	-1.67
MW-10	1/4/95	4.21	5.42	-1.58
MW-11	1/4/95	5.04	6.45	-1.69
MW-12	1/4/95	4.58	5.50	-1.48
MW-16	1/4/95	5.53	7.03	-1.50
MW-8	1/10/95	4.88	5.09	-2.32
MW-10	1/10/95	4.21	4.67	-2.18
MW-11	1/10/95	5.04	5.72	-2.37
MW-12	1/10/95	4.58	4.46	-1.99
MW-16	1/10/95	5.53	6.21	-2.40
MW-24	1/10/95	5.49	5.97	-0.48
MW-8	10/2/95	4.88	7.66	-2.78
MW-10	10/2/95	4.21	6.87	-2.66
MW-11	10/2/95	5.04	7.85	-2.81
MW-12	10/2/95	4.58	6.99	-2.41
MW-16	10/2/95	5.53	8.40	-2.87
MW-24	10/2/95	5.49	8.31	-2.82

Notes: All well elevations are measured from the top of casing.  
ft msl = feet above mean sea level  
NA = not available  
All well elevation data was extracted from past Levine-Fricke reports.

**Table 2**  
**Water Quality Parameters**  
**625 Hegenberger Road, Oakland, California**

Well ID	Date	Well Volume (gallons)	Volume Withdrawn (gallons)	Stabilized Temperature (deg. C)	Qualitative Turbidity
MW-8	12/22/93	1.5	4.50	19.40	turbid*
MW-10	12/22/93	1.6	7.00	20.80	moderately turbid
MW-11	12/22/93	1.5	4.50	20.20	turbid
MW-12	12/22/93	1.6	5.30	20.30	moderately turbid
MW-16	12/22/93	1.1	4.50	20.50	turbid
MW-8	6/30/94	1.5	8.00	21.00	turbid*
MW-10	6/30/94	1.6	6.00	21.00	turbid
MW-11	6/30/94	1.4	6.00	20.20	turbid
MW-12	6/30/94	1.6	6.00	20.60	moderately turbid
MW-16	6/30/94	1.1	4.50	21.80	turbid
MW-8	9/27/94	1.4	4.50	21.60	turbid*
MW-10	9/27/94	1.5	6.00	22.60	turbid
MW-11	9/27/94	1.3	3.00	21.00	turbid
MW-12	9/27/94	1.5	6.00	22.50	turbid
MW-16	9/27/94	1.0	3.00	22.60	turbid
MW-8	1/10/95	1.7	5.30	17.20	turbid*
MW-10	1/10/95	1.8	6.00	19.50	turbid
MW-11	1/10/95	1.6	5.30	18.60	turbid
MW-12	1/10/95	1.8	6.00	19.30	turbid
MW-16	1/10/95	1.2	6.00	19.30	turbid
MW-24	1/10/95	4.9	41.00	18.90	turbid
MW-8	10/2/95	1.1	11.00	22.80	moderately turbid
MW-10	10/2/95	1.5	11.00	22.60	turbid
MW-11	10/2/95	1.0	12.00	22.00	moderately turbid
MW-12	10/2/95	1.3	11.00	22.90	turbid
MW-16	10/2/95	1.1	11.00	22.60	turbid
MW-24	10/2/95	3.4	20.00	22.80	turbid

Notes: \* A slight hydrocarbon sheen was reported.  
 \*\* At time of monitoring

**Table 3**  
**Historic Water Quality**  
**625 Hegenberger Road, Oakland, California**  
**(concentrations reported in milligrams per liter) mg/l**

Well ID	Date	Consultant/ Lab	Benzene	Toluene	Ethyl- Benzene	Xylenes	TPHg	TPHd	TPHo	Total Lead
MW-8	(1)	SUB	(2) 3.7	BDL	0.29	0.69	NA	NA	NA	BDL
	5/28/93	HC/SUP	6.4	0.028	0.16	0.036	19	1	NA	(3)
	12/22/93	LF/AEN	(4) 16	5.9993	(5) 0.65	2.7	56	0.3	<0.2	<0.04
	6/30/94	LF/AEN	(4) 11	4.8	2.2	8.2	41	<0.5	0.5	<0.04
	9/27/94	LF/AEN	8.5	0.26	1.6	5.3	28	0.62	<0.2	<0.04
	1/10/95	LF/AEN	10	11	2.4	12	58	0.07	<0.2	NA
	10/2/95	AEI/PEL	0.051	0.016	0.054	0.08	28	<0.05	<0.5	NA
MW-10	(1)	SUB	0.0017	BDL	BDL	BDL	NA	NA	NA	BDL
	5/28/93	HC/SUP	<0.0003	<0.0003	<0.0003	<0.0009	<0.05	0.054	NA	(3)
	12/22/93	LF/AEN	<0.0005	<0.0007	(5) <0.0005	<0.0002	<0.05	0.58	<0.2	<0.04
	6/30/94	LF/AEN	<0.0005	<0.0005	<0.0005	<0.0002	<0.05	<0.05	0.6	<0.04
	9/27/94	LF/AEN	<0.0005	<0.0005	<0.0005	<0.0002	<0.05	0.61	<0.2	<0.04
	1/10/95	LF/AEN	<0.0005	<0.0005	<0.0005	<0.0002	<0.05	0.6	<0.2	NA
	10/2/95	AEI/PEL	0.0044	0.0026	0.0023	0.0064	0.35	<0.05	<0.5	NA
MW-11	(1)	SUB	(6) 0.053	BDL	BDL	BDL	NA	NA	NA	0.21
	5/28/93	HC/SUP	0.45	0.017	0.0015	0.0021	1.2	<0.05	NA	(3)
	12/22/93	LF/AEN	4.5	0.0383	(5) 0.012	0.043	9.2	0.53	<0.2	<0.04
	6/30/94	LF/AEN	1.5	0.013	0.69	1.2	8.8	<0.05	1.1	<0.04
	duplicate 6/30/94	LF/AEN	1.7	0.014	0.73	1.3	9.7	NA	NA	NA
	9/27/94	LF/AEN	6.5	0.026	0.87	0.59	15	0.91	<0.2	<0.04
	1/10/95	LF/AEN	0.89	0.22	0.84	2.4	14	1.1	0.2	NA
10/2/95	AEI/PEL	0.047	0.0057	0.011	0.036	7.1	<0.05	<0.5	NA	
MW-12	(1)	SUB	0.0017	BDL	BDL	BDL	NA	NA	NA	BDL
	5/28/93	HC/SUP	<0.0003	<0.0003	<0.0003	<0.0009	<0.05	<0.05	NA	(3)
	12/22/93	LF/AEN	<0.0005	<0.0007	(5) <0.0005	<0.0002	0.05	0.3	<0.2	<0.04
	6/30/94	LF/AEN	<0.0005	<0.0005	<0.0005	<0.0002	<0.05	<0.05	0.4	<0.04
	9/27/94	LF/AEN	<0.0005	<0.0005	<0.0005	<0.0002	<0.05	0.4	<0.2	<0.04
	duplicate 9/27/94	LF/AEN	<0.0005	<0.0005	<0.0005	<0.0002	<0.05	NA	NA	NA
	1/10/95	LF/AEN	<0.0005	<0.0005	<0.0005	<0.0002	<0.05	0.3	<0.2	NA
10/2/95	AEI/PEL	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	<0.05	<0.5	NA	
MW-16	(1)	SUB	(7) BDL	BDL	BDL	BDL	NA	NA	NA	BDL
	5/28/93	HC/SUP	0.0028	<0.0003	<0.0007	<0.0009	<0.05	<0.05	NA	(3)
	12/22/93	LF/AEN	<0.0005	<0.0007	(5) <0.0005	<0.0002	2.2	0.52	<0.2	<0.04
	6/30/94	LF/AEN	0.008	<0.0005	<0.0005	<0.0002	<0.05	<0.05	0.9	<0.04
	9/27/94	LF/AEN	0.017	<0.0005	<0.0005	<0.0002	0.07	0.59	<0.2	<0.04
	1/10/95	LF/AEN	0.19	<0.0005	<0.0005	<0.0002	0.3	0.7	<0.2	NA
	10/2/95	AEI/PEL	0.0077	0.0007	0.0035	0.013	0.55	<0.05	<0.5	NA
MW-24	1/10/95	LF/AEN	12	1.9	1.1	1.3	31	0.9	0.2	NA
	duplicate 1/10/95	LF/AEN	12	2	1.1	1.3	31	0.8	0.2	NA
	10/2/95	AEI/PEL	0.044	0.011	0.012	0.04	8.6	<0.05	<0.5	NA
<b>Blanks</b>										
Trip Blank	5/28/93	HC/SUP	<0.0003	<0.0003	<0.0003	<0.0009	<0.05	NA	NA	BDL
MW-12-BB	12/22/93	LF/AEN	<0.0005	0.0007	<0.0005	<0.0002	<0.05	NA	NA	(3)
MW-16-BB	12/22/93	LF/AEN	NA	NA	NA	NA	NA	NA	NA	<0.04
MW-12-BB	6/30/94	LF/AEN	<0.0005	<0.0005	<0.0005	<0.0002	<0.05	NA	NA	<0.04
MW-12-BB	9/27/94	LF/AEN	<0.0005	<0.0005	<0.0005	<0.0002	<0.05	NA	NA	NA
Trip Blank	9/27/94	LF/AEN	<0.0005	<0.0005	<0.0005	<0.0002	<0.05	NA	NA	NA
MW-11-BB	1/10/95	LF/AEN	<0.0005	<0.0005	<0.0005	<0.0002	<0.05	NA	NA	NA



**Table 3**  
**Historic Water Quality**  
**625 Hegenberger Road, Oakland, California**  
**(concentrations reported in milligrams per liter)**

**Notes**

BDL	below detection limit
NA	not analyzed
TPHd	total petroleum hydrocarbons as diesel
TPHg	total petroleum hydrocarbons as gasoline
TPHo	total petroleum hydrocarbons as oil
AEN	American Environmental Networks, Pleasant Hill, California
HC	HartCrowser, San Francisco, California
LF	Levine Fricke, Emeryville, California
SUB	Subsurface Consultants, Oakland, California
SUP	Superior Analytical Laboratories, Martinez, California
AEI	All Environmental, Inc., San Ramon, California
PEL	Priority Analytical Laboratories, Milpitas, California
(1)	Date of groundwater sampling unavailable.
(2)	18 mg/l total volatile hydrocarbons also detected
(3)	All May 1993 samples also analyzed for total organic lead (DHS Method). The compound was not detected above the detection limit of 4 mg/l.
(4)	A slight hydrocarbon sheen was observed on the surface of the well water.
(5)	Toluene detection for 22-Dec-93 were qualified using 0.0007 mg/l as a baseline. The bailer blank (MW-12-BB) contained toluene at 0.0007 mg/l.
(6)	0.24 mg/l total volatile hydrocarbons also detected
(7)	0.38 mg/l total volatile hydrocarbons also detected



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

October 06, 1995

PEL # 9510004

ALL ENVIRONMENTAL, INC.

Attn: Dusty Roy

Re: Six water samples for Gasoline/BTEX and TEPH analyses.

Project name: Diversifield Investment

Date sampled: Oct 02, 1995


Date submitted: Oct 03, 1995

Date extracted: Oct 03-05, 1995

Date analyzed: Oct 03-05, 1995

## RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Diesel Benzene (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)	Motor Oil (mg/L)
MW-8	28000	N.D.	51	16	54	80	N.D.
MW-10	350	N.D.	4.4	2.6	2.3	6.4	N.D.
MW-11	7100	N.D.	47	5.7	11	36	N.D.
MW-12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-16	550	N.D.	7.7	0.7	3.5	13	N.D.
MW-24	8600	N.D.	44	11	12	40	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	85.1%	91.6%	92.2%	94.9%	107.4%	109.9%	---
Detection limit	50	50	0.5	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	3510 / 8015	602	602	602	602	3510 / 8015

  
David Duong  
Laboratory Director

**ALL ENVIRONMENTAL, INC.**  
 2641 Crow Canyon Road, Ste. 5  
 San Ramon, CA 94583  
 (510) 820-3224 FAX: (510) 838-2687

PEL # 9510004  
 INV # 26389

**Chain of Custody**

DATE: 10/2/95 PAGE: 1 OF: 1

AEI PROJECT MANAGER: Dusty Roy  
 PROJECT NAME: DIVERSIFIED INVESTMENTS  
 PROJECT NUMBER: \_\_\_\_\_  
 SIGNATURE: Dusty Roy  
 TOTAL # OF CONTAINERS: 24  
 RECD. GOOD COND./COLD: Yes

**ANALYSIS REQUEST**

SAMPLE I.D.	DATE	TIME	MATRIX	ANALYSIS REQUEST										NUMBER OF CONTAINERS		
				TPH-Casoline (EPA 503/8015)	TPH-Casoline (EPA 503/8015) w/ BTEX (EPA 802/8020)	TPH-Diesel w/ M, P, BTEX (EPA 510/555/8015)	PURGEABLE AROMATICS BTEX (EPA 602/8020)	TOTAL OIL & GREASE (EPA 5520 S&P)	TOTAL LEAD (AA) (EPA 7-230)	VOLATILE ORGANIC COMPOUNDS (EPA 82-60)	LUFT Metals (EPA 7-130, 7-140, 7-240, 7-300, 7-360)	STLC CAM 17 (EPA 1510/6010)	RCI REACTIVITY CORROSIIVITY (EPA 82, 602, 603, 801, 802, 803)			
MW-8	10/2/95		W		X	X										4
MW-10	"		"		X	X										4
MW-11	"		"		X	X										4
MW-12	"		"		X	X										4
MW-16	"		"		X	X										4
MW-24	"		"		X	X										4

ANALYTICAL LAB: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 PHONE: ( ) \_\_\_\_\_ FAX: ( ) \_\_\_\_\_  
 INSTRUCTIONS/COMMENTS: \_\_\_\_\_

RELINQUISHED BY: 1  
Dusty Roy  
 Signature  
DUSTY ROY  
 Printed Name  
 AEI  
 Company  
 Time 10:20 AM Date 10/2/95

RECEIVED BY: 1  
David Duarte  
 Signature  
 DAVID DUARTE  
 Printed Name  
 PEL  
 Company  
 Time 10:20 AM Date 10/2/95

RELINQUISHED BY: 2  
 Signature  
 Printed Name  
 Company  
 Time \_\_\_\_\_ Date \_\_\_\_\_

RECEIVED BY: 2  
 Signature  
 Printed Name  
 Company  
 Time \_\_\_\_\_ Date \_\_\_\_\_

ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM	
<b>Monitoring Well Number: MW-8</b>	
Project Name	Hegenberger
Job Number	1286
Project Address	625 Hegenberger Road
	Oakland, California
Date of Sampling	10/02/95
Name of Sampler	Dusty Roy
<b>MONITORING WELL DATA</b>	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	
Well Cap & Lock -- OK/Replace	
Elevation of Top of Casing	4.88
Depth of Well	
Depth to Water	7.66
Water Elevation	-2.78
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	11
Appearance of Purge Water	
<b>GROUNDWATER SAMPLES</b>	
Number of Samples/Container Size	4
Groundwater Temp/pH/Conductivity #1:	22.8/6.49/1660
Groundwater Temp/pH/Conductivity #2:	
Groundwater Temp/pH/Conductivity #3:	
Appearance of Groundwater Samples	Moderately Turbid
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	

TD - Total Depth of Well  
DTW - Depth To Water

ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM	
<b>Monitoring Well Number: MW-10</b>	
Project Name	Hegenberger
Job Number	1286
Project Address	625 Hegenberger Road Oakland, California
Date of Sampling	10/02/95
Name of Sampler	Dusty Roy
<b>MONITORING WELL DATA</b>	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	
Well Cap & Lock -- OK/Replace	
Elevation of Top of Casing	4.21
Depth of Well	
Depth to Water	6.87
Water Elevation	-2.66
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	11
Appearance of Purge Water	
<b>GROUNDWATER SAMPLES</b>	
Number of Samples/Container Size	4
Groundwater Temp/pH/Conductivity #1:	22.6/7.20/1980
Groundwater Temp/pH/Conductivity #2:	
Groundwater Temp/pH/Conductivity #3:	
Appearance of Groundwater Samples	Turbid
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	

TD - Total Depth of Well  
DTW - Depth To Water

ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM	
Monitoring Well Number: MW-11	
Project Name	Hegenberger
Job Number	1286
Project Address	625 Hegenberger Road Oakland, California
Date of Sampling	10/02/95
Name of Sampler	Dusty Roy
MONITORING WELL DATA	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	
Well Cap & Lock -- OK/Replace	
Elevation of Top of Casing	5.04
Depth of Well	
Depth to Water	7.85
Water Elevation	-2.81
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	12
Appearance of Purge Water	
GROUNDWATER SAMPLES	
Number of Samples/Container Size	4
Groundwater Temp/pH/Conductivity #1:	22.0/6.85/2200
Groundwater Temp/pH/Conductivity #2:	
Groundwater Temp/pH/Conductivity #3:	
Appearance of Groundwater Samples	Moderately Turbid
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	

TD - Total Depth of Well  
DTW - Depth To Water

ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM	
Monitoring Well Number: MW-12	
Project Name	Hegenberger
Job Number	1286
Project Address	625 Hegenberger Road Oakland, California
Date of Sampling	10/02/95
Name of Sampler	Dusty Roy
MONITORING WELL DATA	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	
Well Cap & Lock -- OK/Replace	
Elevation of Top of Casing	4.58
Depth of Well	
Depth to Water	6.99
Water Elevation	-2.41
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	11
Appearance of Purge Water	
GROUNDWATER SAMPLES	
Number of Samples/Container Size	4
Groundwater Temp/pH/Conductivity #1:	22.9/7.20/2100
Groundwater Temp/pH/Conductivity #2:	
Groundwater Temp/pH/Conductivity #3:	
Appearance of Groundwater Samples	Turbid
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	

TD - Total Depth of Well

DTW - Depth To Water

ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM	
<b>Monitoring Well Number: MW-16</b>	
Project Name	Hegenberger
Job Number	1286
Project Address	625 Hegenberger Road
	Oakland, California
Date of Sampling	10/02/95
Name of Sampler	Dusty Roy
<b>MONITORING WELL DATA</b>	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	
Well Cap & Lock -- OK/Replace	
Elevation of Top of Casing	5.53
Depth of Well	
Depth to Water	8.40
Water Elevation	-2.87
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	11
Appearance of Purge Water	
<b>GROUNDWATER SAMPLES</b>	
Number of Samples/Container Size	4
Groundwater Temp/pH/Conductivity #1:	22.6/7.20/2100
Groundwater Temp/pH/Conductivity #2:	
Groundwater Temp/pH/Conductivity #3:	
Appearance of Groundwater Samples	Turbid
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	

TD - Total Depth of Well  
DTW - Depth To Water



ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM	
Monitoring Well Number: MW-24	
Project Name	Hegenberger
Job Number	1286
Project Address	625 Hegenberger Road Oakland, California
Date of Sampling	10/02/95
Name of Sampler	Dusty Roy
MONITORING WELL DATA	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	
Well Cap & Lock -- OK/Replace	
Elevation of Top of Casing	5.49
Depth of Well	
Depth to Water	8.31
Water Elevation	-2.82
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	20
Appearance of Purge Water	
GROUNDWATER SAMPLES	
Number of Samples/Container Size	4
Groundwater Temp/pH/Conductivity #1:	22.8/7.10/1955
Groundwater Temp/pH/Conductivity #2:	
Groundwater Temp/pH/Conductivity #3:	
Appearance of Groundwater Samples	Turbid
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	

TD - Total Depth of Well  
DTW - Depth To Water