LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

February 6, 1995 LF 3015.94-10

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

Subject: Quarterly Ground-Water Monitoring Technical Report for Fourth Quarter 1994, 625 Hegenberger Road, Oakland, California

Dear Mr. Chan:

This ground-water monitoring technical report is submitted by Levine•Fricke, Inc. ("Levine•Fricke") on behalf of Diversified Investment and Management Corp., for the former fuel service station location at 625 Hegenberger Road, Oakland, California.

Summary of Field Activities

Levine•Fricke measured the depth to ground water and collected water samples from six ground-water monitoring wells on January 10, 1995. The monitoring wells sampled included the five wells installed by Subsurface Consultants in 1989 and 1990, and well MW-24, installed by Levine•Fricke on January 5, 1995 during the supplemental site investigation. (The installation and development of this new well will be described in the supplemental site investigation report that is currently being prepared.) Well locations are shown in Figure 1. The sampling procedure for each monitoring well involved measuring the initial water level, purging stagnant water from the well to allow collection of more representative formation water, and collecting water samples.

Before sampling, depth to water and total well depths from the top of the well casings were measured, using an electric water-level meter. Wells were purged and ground-water samples were collected using a clean Teflon bailer fitted with a new nylon rope. Field parameters (temperature, pH, specific conductance, and turbidity) were measured during purging and sampling. After approximately 3 to 4 casing volumes had been removed and field parameters had stabilized, the wells were sampled. A bailer blank sample was collected for monitoring well MW-11 and a field duplicate sample was collected for MW-24.

3015\3015J95.QMR:FNC

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Ground-water samples were then slowly poured into laboratory-supplied bottles for analysis, labeled, and placed in an ice-chilled cooler for transportation to the analytical laboratory under standard chain-of-custody protocol. The ground-water samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 8020, for total petroleum hydrocarbons as gasoline (TPHg) using EPA Method 5030 GCFID, and for TPH as diesel and oil (TPHd and TPHo) using EPA Method 3510. The samples were analyzed by American Environmental Network Laboratories of Pleasant Hill, California (AEN), a state-certified laboratory.

Ground water sampled from all six wells was analyzed for BTEX, TPHg, TPHd, and TPHo. The bailer blank sample collected for MW-11 was analyzed for BTEX and TPHg. The field duplicate sample collected from MW-24 was analyzed for BTEX, TPHg, TPHd, and TPHo.

Field Results

Ground-water elevation data are summarized in Table 1 and shown in Figure 1. The ground-water elevation contours and the ground-water flow direction are shown in Figure 1. A summary of field parameters measured during purging and sampling is presented in Table 2. Well sampling sheets are presented in Appendix A.

No free-phase hydrocarbon was encountered during monitoring activities. Ground-water elevations were determined for monitoring wells MW-8, MW-10, MW-11, MW-12, and MW-16 on January 4, 1995, one day before supplemental site investigation activities and installation of MW-24. On January 10, 1995, when the monitoring wells were sampled, monitoring well MW-24 was developed. Since this well may have the potential of influencing ground-water levels in adjacent wells, the January 4, 1995 data were used to calculate the gradient and contours.

Ground-water levels for January 4, 1995 ranged from 0.92 to 1.50 feet below mean sea level (msl). These ground-water elevations were approximately 1 foot higher than the September 27, 1994 levels (1.99 to 2.40 feet below msl).

The general direction of the ground-water flow at the time of measurement was west to northwest. The ground-water hydraulic gradient was approximately 0.002 foot/foot (ft/ft) across the eastern portion of the Site. The gradient was slightly greater in the former underground storage tank (UST) and piping areas (0.004) and has the same orientation. The

general direction and gradient were the same as those for the last three quarterly monitoring events (December 1993; June and September 1994). Previous measurements indicate that the ground-water flow was to the west in May 1993 (HartCrowser, letter to Barney Chan of Alameda County Department of Environmental Health, dated June 16, 1993, reporting ground-water sampling results).

Ground-Water Quality

A summary of ground-water quality data, including available historical data, is presented in Table 3. Laboratory analysis certificates are presented in Appendix B.

In general, there has been no significant change in BTEX, TPHg, TPHd, and TPHo concentrations during the past four quarterly monitoring events. During the past year, TPHd and TPHo concentrations have remained low, at approximately 1 ppm or less, and have not increased significantly in any of the wells. BTEX and TPHg concentrations remain at low or non-detectable levels in monitoring wells MW-10, MW-12, and MW-16, and have not increased in MW-11. The new monitoring well, MW-24, installed approximately 25 [redacted] the former UST location, contained moderate [redacted] and TPHg, with benzene at 12 ppm and TPHg at 11 ppm.

[redacted] located downgradient from the former pump and product piping location, continued to exhibit generally greater BTEX and TPHg concentrations than the other wells, with benzene at 10 ppm and TPHg at 58 ppm. These concentrations represent a slight increase over the September 1994 concentrations for MW-8, but are comparable to the June 1994 concentrations. Since BTEX and TPHg concentrations in MW-8 appear to fluctuate, more data are needed to determine if the increase in concentrations represents a possible trend.

Recommendations

Levine·Fricke recommends continuing quarterly ground-water monitoring. [redacted] detected and have not increased during the past year. Therefore, on behalf of Diversified [redacted] Corp., Levine·Fricke [redacted] these compounds.

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

Sincerely,

John Sturman, P.E., R.G.
Senior Geotechnical Engineer

Susan M. Henry, Ph.D.
Senior Project Engineer

Enclosures

cc: James Graeb, Diversified Investment and Management Corp.

TABLE 1
GROUND-WATER ELEVATIONS
DIVERSIFIED INVESTMENT
625 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

Well ID	Date	Well Elevation* (ft msl)	Depth to Water (ft)	Ground-water Elevation (ft msl)
MW-8	22-Dec-93	4.88	6.72	-1.84
MW-10	22-Dec-93	4.21	6.00	-1.79
MW-11	22-Dec-93	5.04	6.84	-1.80
MW-12	22-Dec-93	4.58	6.07	-1.49
MW-16	22-Dec-93	NA	7.48	NA
MW-8	30-Jun-94	4.88	6.55	-1.67
MW-10	30-Jun-94	4.21	5.79	-1.58
MW-11	30-Jun-94	5.04	6.73	-1.69
MW-12	30-Jun-94	4.58	6.06	-1.48
MW-16	30-Jun-94	NA	7.28	NA
MW-8	27-Sep-94	4.88	7.20	-2.32
MW-10	27-Sep-94	4.21	6.39	-2.18
MW-11	27-Sep-94	5.04	7.41	-2.37
MW-12	27-Sep-94	4.58	6.57	-1.99
MW-16	27-Sep-94	5.53	7.93	-2.40
MW-8	04-Jan-95	4.88	6.21	-1.33
MW-10	04-Jan-95	4.21	5.42	-1.21
MW-11	04-Jan-95	5.04	6.45	-1.41
MW-12	04-Jan-95	4.58	5.50	-0.92
MW-16	04-Jan-95	5.53	7.03	-1.50
MW-8	10-Jan-95	4.88	5.09	-0.21
MW-10	10-Jan-95	4.21	4.67	-0.46
MW-11	10-Jan-95	5.04	5.72	-0.68
MW-12	10-Jan-95	4.58	4.46	0.12
MW-16	10-Jan-95	5.53	6.21	-0.68
MW-24	10-Jan-95	5.49	5.97	-0.48

NOTES:

ft feet
ft msl feet above mean sea level
NA not available

* Well elevation measured from top of casing.

Well elevation levels for MW-8, MW-10, MW-11, MW-12 obtained from Subsurface Consultants boring logs dated April 25, 1988 through July 16, 1990. Well elevation level for MW-16 determined by Levine Fricke on August 18, 1994. Well elevation level for MW-24 determined by Levine-Fricke on January 6, 1995. Top of well casings for MW-16 and MW-24 were surveyed relative to wells MW-11 and MW-12.

Data entered by KAC/26 Jan 95. Data proofed by SNH.

TABLE 2
WATER-QUALITY PARAMETERS MEASURED DURING SAMPLING
DIVERSIFIED INVESTMENT
625 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

Well Number	Date Sampled	Well Volume** (gallons)	Volume Withdrawn (gallons)	Stabilized Temperature (deg. C)	Stabilized pH	Stabilized Specific Conductance (umhos/cm)	Qualitative Turbidity
MW-8	22-Dec-93	1.5	4.5	19.4	6.95	2,440	Turbid*
MW-10	22-Dec-93	1.6	7.0	20.8	7.08	5,430	Moderately turbid
MW-11	22-Dec-93	1.5	4.5	20.2	6.94	3,750	Turbid
MW-12	22-Dec-93	1.6	5.3	20.3	6.87	2,880	Moderately turbid
MW-16	22-Dec-93	1.1	4.5	20.5	6.88	6,550	Turbid
MW-8	30-Jun-94	1.5	8.0	21.0	6.82	2,210	Turbid*
MW-10	30-Jun-94	1.6	6.0	21.0	6.91	6,620	Turbid
MW-11	30-Jun-94	1.4	6.0	20.2	6.86	2,040	Turbid
MW-12	30-Jun-94	1.6	6.0	20.6	6.78	2,880	Moderately turbid
MW-16	30-Jun-94	1.1	4.5	21.8	6.80	6,200	Turbid
MW-8	27-Sep-94	1.4	4.5	21.6	7.11	4,300	Turbid*
MW-10	27-Sep-94	1.5	6.0	22.6	7.19	6,960	Turbid
MW-11	27-Sep-94	1.3	3.0	21.0	7.05	2,470	Turbid
MW-12	27-Sep-94	1.5	6.0	22.5	6.92	3,080	Turbid
MW-16	27-Sep-94	1.0	3.0	22.6	7.02	5,710	Turbid
MW-8	10-Jan-95	1.7	5.3	17.2	7.10	6,140	Turbid*
MW-10	10-Jan-95	1.8	6.0	19.5	7.07	6,440	Turbid
MW-11	10-Jan-95	1.6	5.3	18.6	6.56	2,030	Turbid
MW-12	10-Jan-95	1.8	6.0	19.3	6.77	3,070	Turbid
MW-16	10-Jan-95	1.2	6.0	19.3	7.10	4,560	Turbid
MW-24	10-Jan-95	4.9	41(1)	18.9	7.05	1,190	Turbid*

NOTES:

* A slight hydrocarbon sheen was observed.
** At time of monitoring.
(1) Monitoring well MW-24 was developed on 10-Jan-95 prior to sampling.

Data entered by KAC/26 Jan 95. Data proofed by SMH.

TABLE 3
HISTORICAL WATER QUALITY
DIVERSIFIED INVESTMENT
625 HEGENBERGER ROAD, OAKLAND, CALIFORNIA
(concentrations reported in milligrams per liter [mg/l])

Sample ID	Date Sampled	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
	28-May-93	HC/SUP		6.4	0.028		0.16	0.036	19	1	NA	(3)
	22-Dec-93	LF/AEN	(4)	16	5.9993	(5)	0.65	2.7	56	0.3	<0.2	<0.04
	30-Jun-94	LF/AEN	(4)	11	4.8		2.2	8.2	41	<0.05	0.5	<0.04
	27-Sep-94	LF/AEN		8.5	0.26		1.6	5.2	28	0.62	<0.2	<0.04
	10-Jan-95	LF/AEN		10	11		2.4	12	58	0.07	<0.2	NA
MW-10	(1)	SUB		0.0017	BDL		BDL	BDL	NA	NA	NA	BDL
	28-May-93	HC/SUP		<0.0003	<0.0003		<0.0003	<0.0009	<0.05	0.054	NA	(3)
	22-Dec-93	LF/AEN		<0.0005	<0.0007	(5)	<0.0005	<0.002	<0.05	0.58	<0.2	<0.04
	30-Jun-94	LF/AEN		<0.0005	<0.0005		<0.0005	<0.002	<0.05	<0.05	0.6	<0.04
	27-Sep-94	LF/AEN		<0.0005	<0.0005		<0.0005	<0.002	<0.05	0.61	<0.2	<0.04
	10-Jan-95	LF/AEN		<0.0005	<0.0005		<0.0005	<0.002	<0.05	0.6	<0.2	NA
MW-11	(1)	SUB	(6)	0.053	BDL		BDL	BDL	NA	NA	NA	0.21
	28-May-93	HC/SUP		0.45	0.0017		0.0015	0.0021	1.2	<0.05	NA	(3)
	22-Dec-93	LF/AEN		4.5	0.0383	(5)	0.012	0.043	9.2	0.53	<0.2	<0.04
	30-Jun-94	LF/AEN		1.5	0.013		0.69	1.2	8.8	<0.05	1.1	<0.04
duplicate	30-Jun-94	LF/AEN		1.7	0.014		0.73	1.3	9.7	NA	NA	NA
	27-Sep-94	LF/AEN		6.5	0.026		0.87	0.59	15	0.91	<0.2	<0.04
	10-Jan-95	LF/AEN		0.89	0.22		0.84	2.4	14	1.1	0.2	NA
MW-12	(1)	SUB		BDL	BDL		BDL	BDL	NA	NA	NA	BDL
	28-May-93	HC/SUP		<0.0003	<0.0003		<0.0003	<0.0009	<0.05	<0.05	NA	(3)
	22-Dec-93	LF/AEN		<0.0005	<0.0007	(5)	<0.0005	<0.002	0.05	0.3	<0.2	<0.04
	30-Jun-94	LF/AEN		<0.0005	<0.0005		<0.0005	<0.002	<0.05	<0.05	0.4	<0.04
	27-Sep-94	LF/AEN		<0.0005	<0.0005		<0.0005	<0.002	<0.05	0.4	<0.2	<0.04
duplicate	27-Sep-94	LF/AEN		<0.0005	<0.0005		<0.0005	<0.002	<0.05	NA	NA	NA
	10-Jan-95	LF/AEN		<0.0005	<0.0005		<0.0005	<0.002	<0.05	0.3	<0.2	NA
MW-16	(1)	SUB	(7)	BDL	BDL		BDL	BDL	NA	NA	NA	BDL
	28-May-93	HC/SUP		0.0028	<0.0003		0.0007	<0.0009	<0.05	<0.05	NA	(3)
	22-Dec-93	LF/AEN		<0.0005	<0.0007	(5)	<0.0005	<0.002	2.2	0.52	<0.2	<0.04
	30-Jun-94	LF/AEN		0.008	<0.0005		<0.0005	<0.002	<0.05	<0.05	0.9	<0.04
	27-Sep-94	LF/AEN		0.017	<0.0005		<0.0005	<0.002	0.07	0.59	<0.2	<0.04
	10-Jan-95	LF/AEN		0.19	<0.0005		<0.0005	<0.002	0.3	0.7	<0.2	NA
MW-24	10-Jan-95	LF/AEN		12	1.9		1.1	1.3	[redacted]	0.9	0.2	NA
duplicate	10-Jan-95	LF/AEN		[redacted]	2		1.1	1.3	[redacted]	0.8	0.2	NA
BLANKS												
Trip Blank	28-May-93	HC/SUP		<0.0003	<0.0003		<0.0003	<0.0009	<0.05	NA	NA	BDL
MW-12-BB	22-Dec-93	LF/AEN		<0.0005	0.0007		<0.0005	<0.002	<0.05	NA	NA	(3)
MW-16-BB	22-Dec-93	LF/AEN		NA	NA		NA	NA	NA	NA	NA	<0.04
MW-12-BB	30-Jun-94	LF/AEN		<0.0005	<0.0005		<0.0005	<0.002	<0.05	NA	NA	<0.04
MW-12-BB	27-Sep-94	LF/AEN		<0.0005	<0.0005		<0.0005	<0.002	<0.05	NA	NA	NA
Trip Blank	27-Sep-94	LF/AEN		<0.0005	<0.0005		<0.0005	<0.002	<0.05	NA	NA	NA
MW-11-BB	10-Jan-95	LF/AEN		<0.0005	<0.0005		<0.0005	<0.002	<0.05	NA	NA	NA

TABLE 3
HISTORICAL WATER QUALITY
DIVERSIFIED INVESTMENT
625 HEGENBERGER ROAD, OAKLAND, CALIFORNIA
(concentrations reported in milligrams per liter [mg/l])

Sample ID	Date Sampled	Consultant/ Lab	Benzene	Toluene	Ethyl-benzene	Xylenes	TPHg	TPHd	TPHo	Total Lead

NOTES:

BDL below detection limit; detection limit undocumented
NA not analyzed
TPHd total petroleum hydrocarbons as diesel
TPHg total petroleum hydrocarbons as gasoline
TPHo total petroleum hydrocarbons as oil

AEN American Environmental Network, Pleasant Hill, California
HC HartCrowser, San Francisco, California
LF Levine-Fricke, Emeryville, California
SUB Subsurface Consultants, Oakland, California
SUP Superior Analytical Laboratories, Martinez, California

(1) Date of ground-water sampling unavailable. Ground-water monitoring results accompanied Subsurface Consultants well development and boring logs dated March 1990 through June 1990.
(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 detections 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.

All samples collected by Subsurface Consultants were also analyzed for total lead and organic lead. Both compounds were below detection limits (detection limits unavailable), except as noted.

Data entered by KAC/24 Jan 95 Data proofed by SMH

3015GIS02.JOS:DAT 020295

EXPLANATION

- Approximate location of soil borings. Soil borings designated "LF" installed by Levine•Fricke in 1995. Others installed by Subsurface Consultants in 1989-1990.
- Approximate location of monitoring wells. MW-24 was installed by Levine•Fricke in 1995. Others installed by Subsurface Consultants in 1989-1990.
- Soil sample by Levine•Fricke, UST Removal, 1993; (sample depth @ former UST location, 6-8 bgs) (sample depth @ former product piping location, 4-6 bgs)
- Approximate ground-water flow direction
- -1.33 Ground-water elevation in feet measured on 1/4/95.
- -1.3 Ground-water elevation contour in feet.

CONVENIENCE STORE

TUNE-UP SHOP

638 HEGENBERGER

625 HEGENBERGER

HEGENBERGER ROAD

COLLINS DRIVE

LF-29 LF-34 LF-30 LF-31 LF-25 LF-33 LF-36 LF-26 LF-35 LF-27 LF-28 LF-32

MW-16 -1.10

MW-24

MW-12 -0.02

-1.4 -1.3 -1.2 -1.1 -1.0 -1.21

FORMER PUMP ISLANDS

FORMER PRODUCT PIPING LOCATION

FORMER SUMP LOCATION

FORMER UST LOCATION

LANDSCAPED AREAS

1 2 3 4 5 6 7 9 13 14 15 17 18 19 20 21 22 23

0 25 FEET

3015B003.SMH:DAT/EM 020395

Figure 1 :

GROUND-WATER ELEVATIONS AND GRADIENT JANUARY 4, 1995

Project No. 3015

LEVINE•FRICKE

ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

APPENDIX A

Well Sampling Sheets

LEVINE•FRICKE

Page ____ of ____

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3015

Date: 1-10-95

oject Name: Diversified Investments

Sample No.: MW-8

Sample Location: Oakland

☐ FB: ____

Samplers Name: BCC

☐ DUP: ____

Sampling Plan Prepared By: SMH

Sampling Method: ____

☐ Centrifugal Pump ☐ Disposable Bailer

☐ Submersible Pump ☑ Teflon Bailer

☑ Hand Bail ☐ ____ (Other)

10.71
.16
6426
1071
17136

Analyses Requested	Number and Types of Bottle used
TPH g/BTEX	3 VOA's
TPH d/o	1L

Method of Shipment

____ (Lab Name) ☐ Courier ____

☐ Hand Deliver:

Well Number: MW-8

Well Diameter: ____

pth of Water: 5.09

☑ 2" (0.16 Gallon/Feet)

Well Depth: 15.80

☐ 4" (0.65 Gallon/Feet

Height of Water Column: 10.71

☐ 5" (1.02 Gallon/Feet)

Volume in Well: 1.71 gal

☐ 6" (1.47 Gallon/Feet)

80% DTW ____

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
17:14	5.09	0						start bailing
17:17		1.75		16.8	6.91	6650		dark green, turbid, sulfur odor
17:20		3.50		17.1	6.98	6280		" " " slight sheen
17:24				17.2	7.10	6140		" " " no sheen
~~17:25~~								
17:25	5.20							Sample MW-8

Inlet Depth: ____

Comments: ____

(Recommended Method For Purging Well)

WTR.QLTY.SMPLNG.INFO.22ALLHTL

LEVINE•FRICKE

Page ____ of ____

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3015

Project Name: Diversified Investments

Sample Location: Oakland

Samplers Name: BCC

Sampling Plan Prepared By: SMH

Sampling Method:

Date: 1-10-95

Sample No.: MW-10

☐ FB:

☐ DUP:

☐ Centrifugal Pump ☐ Disposable Bailer

☐ Submersible Pump ☒ Teflon Bailer

☒ Hand Bail ☐ ____ (Other)

Analyses Requested	Number and Types of Bottle used
TPHg / BTEX	3 VOA's
TPHd/o	1 L

11.03
.16
6618
103
1764 8

Method of Shipment

____ (Lab Name) ☐ Courier ____

☐ Hand Deliver:

Well Number: MW-10

Depth of Water: 4.67

Well Depth: 15.70

Height of Water Column: 11.03

Volume in Well: 1.76 gal

Well Diameter:

☒ 2" (0.16 Gallon/Feet)

☐ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

80% DTW ____

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
1:00	4.67	0						start bailing sulfur odor
1:04		2.00		18.9	6.88	5700		brown, turbid,
1:07		4.00		19.8	7.07	6280		brown, turbid
1:09		6.00		19.5	7.07	6440		"
13:10	4.72							Sample MW-10

Inlet Depth: ____

Comments: ____

(Recommended Method For Purging Well)

WTR.QLTY.SMPLG.INFO.22JUL94RYL

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Page ____ of ____

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3015

Project Name: Diversified Investments

Sample Location: Oakland

Samplers Name: BCC

Sampling Plan Prepared By: SMH

Sampling Method:

Date: 1-10-95

Sample No.: MW-11

☐ FB: MW-11-FB

☐ DUP:

☐ Centrifugal Pump ☐ Disposable Bailer

☐ Submersible Pump ☑ Teflon Bailer

☑ Hand Bail ☐ _____ (Other)

Analyses Requested	Number and Types of Bottle used
TPHg/BTEX	3 VOA's
TPHd/o	1 L

Method of Shipment

AEN (Lab Name)

☐ Courier

☐ Hand Deliver:

Well Number: MW-11

Depth of Water: 5.72

Well Depth: 15.40

Height of Water Column: 9.68

Volume in Well: 1.55 gal

Well Diameter:

☑ 2" (0.16 Gallon/Feet)

☐ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

7.35

9.68 — 9.68

.16 — .2

5808 — 1936

968 — 5.72

15488 — 7.656

80% DTW 7.66'

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
15:58	5.72	0						start bailing
16:01		1.75		18.2	6.36	7990		Brown, turbid, slight product sulfur odor
16:04		3.5		18.6	6.55	7030		" " " "
16:09		5.25		18.6	6.56	7030		" " " "
16:10	7.35							sample MW-11
1555								sample MW-11-FB

Inlet Depth: _____

Comments: _____

(Recommended Method For Purging Well)

WTR/QLTY SMPLNG INFO.22JUL94/YL

EVINE•FRICKE

Page ____ of ____

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3015
Project Name: Diversified Investments
Sample Location: Oakland
Samplers Name: BCC
Sampling Plan Prepared By: SMH
Sampling Method:

Date: 1-10-95
Sample No.: MW-12
☐ FB: MW-12-FB
☐ DUP:

☐ Centrifugal Pump
☐ Submersible Pump
☑ Hand Bail
☐ Disposable Bailer
☑ Teflon Bailer
☐ _____ (Other)

Analyses Requested
TPHg/BTEX
TPHd/o

Number and Types of Bottle used
(3 VOA's) 2
1 L

11.16
.16
6896
116
7856

Method of Shipment
_____ (Lab Name)
☐ Courier
☐ Hand Deliver:

Well Number: MW-12
Depth of Water: ~~4.1~~ 4.46
Well Depth: ~~15.00~~ 15.62
Height of Water Column: 11.16
Volume in Well: 1.79 gal

Well Diameter:
☑ 2" (0.16 Gallon/Feet)
☐ 4" (0.65 Gallon/Feet
☐ 5" (1.02 Gallon/Feet)
☐ 6" (1.47 Gallon/Feet)

80% DTW _____

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
1:34	4.46	0		~~19.8~~	~~6.72~~	~~3000~~		Start bail, re
1:38		2.0		18.8	6.72	3010		dark green, turbid, settler, odor slight
1:42		4.0		18.9	6.79	3070		" " "
1:45		6.0		19.3	6.77	3070		" " "
13:47								
~~1:47~~	4.81							Sample MW-12

Inlet Depth: _____

Comments: _____
(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3075
Project Name: Diversified Investments
Sample Location: Oakland
Samplers Name: BCC
Sampling Plan Prepared By: SMH
Sampling Method:

Date: 1-10-95
Sample No.: MW-16
☐ FB:
☐ DUP:

☐ Centrifugal Pump ☐ Disposable Bailer
☐ Submersible Pump ☒ Teflon Bailer
☒ Hand Bail ☐ _____ (Other)

7.41
.16
4446
741
1856

Analyses Requested	Number and Types of Bottle used
TPHg/BTEX	3 VOA's
TPHd/o	1 L

Method of Shipment
_____ (Lab Name) ☐ Courier _____
☐ Hand Deliver:

Well Number: MW-16
Depth of Water: 6.21
Well Depth: 13.62
Height of Water Column: 7.41
Volume in Well: 1.19 gal

Well Diameter:
☒ 2" (0.16 Gallon/Feet)
☐ 4" (0.65 Gallon/Feet
☐ 5" (1.02 Gallon/Feet)
☐ 6" (1.47 Gallon/Feet)

80% DTW _____

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
4:10	6.21	0						start bailing
4:15		1.5		18.8	6.26	4250		green, turbid
	Conductivity Meter broke, got new one							
5:35		3.0		19.4	7.08	4080		brown/green, turbid
5:38		4.5		19.3	7.08	4460		" "
5:41		6.0		19.3	7.10	4560		" "
5:45	6.27							sample MW-16

Inlet Depth: _____

Comments: (Recommended Method For Purging Well)

WTR.QLTY.SMPLNG.INFO 2/22/94 RYL

LEVINE•FRICKE

Page ____ of ____

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3015
Project Name: Diversified Investments
Sample Location: Oakland
Samplers Name: BCC
Sampling Plan Prepared By: SMH
Sampling Method: Develop Well

Date: 1-10-95
Sample No.: MW-24
☐ FB:
☐ DUP: MW-124

☐ Centrifugal Pump ☐ Disposable Bailer
☑ Submersible Pump ☐ Teflon Bailer
☐ Hand Bail ☐ _____ (Other)

Analyses Requested

Number and Types of Bottle used

Method of Shipment
AEN (Lab Name)
☐ Courier
☐ Hand Deliver:

Well Number: MW-24
Depth of Water: 5.97
Well Depth: 13.48
Height of Water Column: 7.51
Volume in Well: 4.88 gal

Well Diameter:
☐ 2" (0.16 Gallon/Feet)
☑ 4" (0.65 Gallon/Feet
☐ 5" (1.02 Gallon/Feet)
☐ 6" (1.47 Gallon/Feet)

7.51 7.51
.65 .2
3755 1502
4506 5.97
4881.5 7.47

80% DTW 7.47'

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
	5.97							
12:30		0						start pump - odor
12:31		5		17.4	6.86	2250	slight	brown, turbid, dewatered
12:40	6.57	12		18.9	7.16	1510		start pump
12:44	↓			↓	↓	↓	"	brown, turbid, odor, dewatered
1:25	6.16							start pump
1:26		18		18.9	7.18	1630	"	green/brown, turbid, petrol odor, sulfur d/w
1:57	5.97							start pump
1:58		24		18.9	7.21	1520	no sheen	green/brown, turbid, petrol odor, d/w
15:54				16.6	7.13	1470		start pump
15:55	5.94	30		↓	↓	↓	"	green, brown, turbid, odor

Inlet Depth: _____

Comments:
(Recommended Method For Purging Well)

WTR.QLTY.SMPLNG.INFO.ZZUL.PHYL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3015
Project Name: Diversified Investments
Sample Location: Oakland
Samplers Name: BCC
Sampling Plan Prepared By: SMH
Sampling Method:

Date: 1-10-95
Sample No.: MW-24
☐ FB:
☐ DUP:

☐ Centrifugal Pump ☐ Disposable Bailer
☒ Submersible Pump ☒ Teflon Bailer
☐ Hand Bail ☐ _____ (Other)

Analyses Requested	Number and Types of Bottle used
TPHg/BTEX	(3 VOA's)X2
TPHd/o	(1 L)x2

Method of Shipment
_____ (Lab Name)
☐ Courier _____
☐ Hand Deliver:

Well Number: MW-24
Depth of Water: _____
Well Depth: _____
Height of Water Column: _____
Volume in Well: _____

Well Diameter: _____
☐ 2" (0.16 Gallon/Feet)
☐ 4" (0.65 Gallon/Feet
☐ 5" (1.02 Gallon/Feet)
☐ 6" (1.47 Gallon/Feet)

80% DTW _____

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
CONTINUED FROM PG. 1 of 2								
16:30	6.02	36						start pump
		36		19.0	7.04	1250		dark green, turbid, odor, dewatered
16:37	6.65							start pump
		41		18.9	7.05	1190		dark green, turbid, odor, dewatered
16:52	6.60							sample MW-24
17:52								sample MW-124

Inlet Depth: _____

Comments: _____
(Recommended Method For Purging Well)

WTR.QLTY.SMPLNG.INFO.22JUL94RTL

LEVINE·FRICKE
CONSULTING ENGINEERS AND HYDROGEOLOGISTS

SHEET____ OF____
JOB NO.:
DATE: 1-4-94
COMPUTED BY: BCC
CHECKED BY:

PROJECT: 3015
SUBJECT: Diversified Investment

	Depth to Water From Casing	Depth to Water From Ground Surface	Time
MW-8	6.21	6.68	9:45
MW-10	5.42	5.95	9:55
MW-11	6.45	7.19	10:05
MW-12	5.50	6.20	10:20
MW-16	7.03	7.58	10:30

1-6-94 Grab Ground-water Samples

GG-30	~~[illegible]~~	7.78'	brown, cloudy, turbid
GG-33		7.58'	" " "

LF-2 6

	DTOIL	DTW	-0.35	
	5.89	6.24		12:30
	~5.70	~6.45		3:30
		0.75		

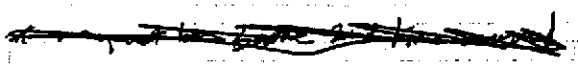
Probe not responding real well is an estimate based on beeping water level and visual oil surface

LEVINE·FRICKE
CONSULTING ENGINEERS AND HYDROGEOLOGISTS

SHEET 1 OF 1
JOB NO.:
DATE: 1/6/95
COMPUTED BY:
CHECKED BY:

PROJECT: 3015.94 0
SUBJECT: Surveying MW-24

	(Base)*	MW-11	MW-24	MW-12
SMW	5.18	5.92	5.47	6.36
BCC	5.18	5.92	5.46	6.38



APPENDIX B

Laboratory Analysis Certificates

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

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

ATTN: SUSAN SHIU
CLIENT PROJ. ID: 3015.94.10

C.O.C. NUMBER: 013335

REPORT DATE: 01/31/95

DATE(S) SAMPLED: 01/04/95-01/10/95

DATE RECEIVED: 01/11/95

AEN WORK ORDER: 9501097

PROJECT SUMMARY:

On January 11, 1995, this laboratory received 9 water sample(s).

Client requested eight samples be analyzed for organic parameters; one sample was placed on hold. Results of analysis are summarized on the following page(s).

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

RECEIVED JAN 31 1995

LEVINE-FRICKE

SAMPLE ID: MW-10
AEN LAB NO: 9501097-01
AEN WORK ORDER: 9501097
CLIENT PROJ. ID: 3015.94.10

DATE SAMPLED: 01/10/95
DATE RECEIVED: 01/11/95
REPORT DATE: 01/31/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	0.5	ug/L	01/17/95
Toluene	108-88-3	ND	0.5	ug/L	01/17/95
Ethylbenzene	100-41-4	ND	0.5	ug/L	01/17/95
Xylenes, Total	1330-20-7	ND	2	ug/L	01/17/95
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	01/17/95
#Extraction for TPH	**EPA 3510**	-		Extrn Date	01/13/95
TPH as Diesel	**GC-FID**	0.6 *	0.05	mg/L	01/14/95
TPH as Oil	**GC-FID**	ND	0.2	mg/L	01/14/95

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

LEVINE-FRICKE

SAMPLE ID: MW-12
AEN LAB NO: 9501097-02
AEN WORK ORDER: 9501097
CLIENT PROJ. ID: 3015.94.10

DATE SAMPLED: 01/10/95
DATE RECEIVED: 01/11/95
REPORT DATE: 01/31/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	01/17/95
Toluene	108-88-3	ND	0.5	ug/L	01/17/95
Ethylbenzene	100-41-4	ND	0.5	ug/L	01/17/95
Xylenes, Total	1330-20-7	ND	2	ug/L	01/17/95
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	01/17/95
#Extraction for TPH	EPA 3510	-		Extrn Date	01/13/95
TPH as Diesel	GC-FID	0.3 *	0.05	mg/L	01/14/95
TPH as Oil	GC-FID	ND	0.2	mg/L	01/14/95

Please see page 10 for comments regarding this sample.

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

LEVINE-FRICKE

SAMPLE ID: MW-16
AEN LAB NO: 9501097-03
AEN WORK ORDER: 9501097
CLIENT PROJ. ID: 3015.94.10

DATE SAMPLED: 01/10/95
DATE RECEIVED: 01/11/95
REPORT DATE: 01/31/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	190 *	0.5	ug/L	01/17/95
Toluene	108-88-3	ND	0.5	ug/L	01/17/95
Ethylbenzene	100-41-4	ND	0.5	ug/L	01/17/95
Xylenes, Total	1330-20-7	ND	2	ug/L	01/17/95
Purgeable HCs as Gasoline	5030/GCFID	0.3 *	0.05	mg/L	01/17/95
#Extraction for TPH	EPA 3510	-		Extrn Date	01/13/95
TPH as Diesel	GC-FID	0.7 *	0.05	mg/L	01/14/95
TPH as Oil	GC-FID	ND	0.2	mg/L	01/14/95

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

LEVINE-FRICKE

SAMPLE ID: MW-11-FB
AEN LAB NO: 9501097-04
AEN WORK ORDER: 9501097
CLIENT PROJ. ID: 3015.94.10

DATE SAMPLED: 01/10/95
DATE RECEIVED: 01/11/95
REPORT DATE: 01/31/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	0.5	ug/L	01/17/95
Toluene	108-88-3	ND	0.5	ug/L	01/17/95
Ethylbenzene	100-41-4	ND	0.5	ug/L	01/17/95
Xylenes, Total	1330-20-7	ND	2	ug/L	01/17/95
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	01/17/95

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

LEVINE-FRICKE

SAMPLE ID: MW-11
AEN LAB NO: 9501097-05
AEN WORK ORDER: 9501097
CLIENT PROJ. ID: 3015.94.10

DATE SAMPLED: 01/10/95
DATE RECEIVED: 01/11/95
REPORT DATE: 01/31/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	890 *	10	ug/L	01/17/95
Toluene	108-88-3	220 *	10	ug/L	01/17/95
Ethylbenzene	100-41-4	840 *	10	ug/L	01/17/95
Xylenes, Total	1330-20-7	2,400 *	40	ug/L	01/17/95
Purgeable HCs as Gasoline	5030/GCFID	14 *	1	mg/L	01/17/95
#Extraction for TPH	EPA 3510	-		Extrn Date	01/13/95
TPH as Diesel	GC-FID	1.1 *	0.05	mg/L	01/14/95
TPH as Oil	GC-FID	0.2 *	0.2	mg/L	01/14/95

Reporting limits elevated for gas/BTEX due to high levels of target compounds; sample run at dilution.
Please see page 10 for comments regarding this sample.

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

LEVINE-FRICKE

SAMPLE ID: MW-24
AEN LAB NO: 9501097-06
AEN WORK ORDER: 9501097
CLIENT PROJ. ID: 3015.94.10

DATE SAMPLED: 01/10/95
DATE RECEIVED: 01/11/95
REPORT DATE: 01/31/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	12,000 *	30	ug/L	01/18/95
Toluene	108-88-3	1,900 *	30	ug/L	01/18/95
Ethylbenzene	100-41-4	1,100 *	30	ug/L	01/18/95
Xylenes, Total	1330-20-7	1,300 *	100	ug/L	01/18/95
Purgeable HCs as Gasoline	5030/GCFID	31 *	3	mg/L	01/18/95
#Extraction for TPH	EPA 3510	-		Extrn Date	01/13/95
TPH as Diesel	GC-FID	0.9 *	0.05	mg/L	01/14/95
TPH as Oil	GC-FID	0.2 *	0.2	mg/L	01/14/95

Reporting limits elevated for gas/BTEX due to high levels of target compounds; sample run at dilution.
Please see page 10 for comments regarding this sample.

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

LEVINE-FRICKE

SAMPLE ID: MW-124
AEN LAB NO: 9501097-07
AEN WORK ORDER: 9501097
CLIENT PROJ. ID: 3015.94.10

DATE SAMPLED: 01/10/95
DATE RECEIVED: 01/11/95
REPORT DATE: 01/31/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	12,000 *	30	ug/L	01/18/95
Toluene	108-88-3	2,000 *	30	ug/L	01/18/95
Ethylbenzene	100-41-4	1,100 *	30	ug/L	01/18/95
Xylenes, Total	1330-20-7	1,300 *	100	ug/L	01/18/95
Purgeable HCs as Gasoline	5030/GCFID	31 *	3	mg/L	01/18/95
#Extraction for TPH	EPA 3510	-		Extrn Date	01/13/95
TPH as Diesel	GC-FID	0.8 *	0.05	mg/L	01/14/95
TPH as Oil	GC-FID	0.2 *	0.2	mg/L	01/14/95

Reporting limits elevated for gas/BTEX due to high levels of target compounds; sample run at dilution.
Please see page 10 for comments regarding this sample.

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

LEVINE-FRICKE

SAMPLE ID: MW-8
AEN LAB NO: 9501097-08
AEN WORK ORDER: 9501097
CLIENT PROJ. ID: 3015.94.10

DATE SAMPLED: 01/10/95
DATE RECEIVED: 01/11/95
REPORT DATE: 01/31/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	10,000 *	30	ug/L	01/18/95
Toluene	108-88-3	11,000 *	30	ug/L	01/18/95
Ethylbenzene	100-41-4	2,400 *	30	ug/L	01/18/95
Xylenes, Total	1330-20-7	12,000 *	100	ug/L	01/18/95
Purgeable HCs as Gasoline	5030/GCFID	58 *	3	mg/L	01/18/95
#Extraction for TPH	EPA 3510	-		Extrn Date	01/13/95
TPH as Diesel	GC-FID	0.07 *	0.05	mg/L	01/14/95
TPH as Oil	GC-FID	ND	0.2	mg/L	01/14/95

Reporting limits elevated for gas/BTEX due to high levels of target compounds; sample run at dilution.
Please see page 10 for comments regarding this sample.

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

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9501097

CLIENT PROJECT ID: 3015.94.10

Quality Control Summary

Diesel surrogate recoveries for samples 9501097-02, -05, -06, -07, and -08 were outside of established QC limits. Analysis could not be repeated as duplicate samples were not provided.

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

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9501097
AEN LAB NO: 0113-BLANK
DATE EXTRACTED: 01/13/95
DATE ANALYZED: 01/14/95

Method Blank

	Result (mg/L)	Reporting Limit (mg/L)
Diesel	ND	0.05

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9501097
DATE EXTRACTED: 01/13/95
INSTRUMENT: C
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
01/14/95	MW-10	01	118
01/14/95	MW-12	02	128 #
01/14/95	MW-16	03	103
01/14/95	MW-11	05	124 #
01/14/95	MW-24	06	126 #
01/14/95	MW-124	07	127 #
01/14/95	MW-8	08	121 #
QC Limits:			30-120

#: Outside of established limits

DATE EXTRACTED: 01/10/95
DATE ANALYZED: 01/10/95
SAMPLE SPIKED: DI WATER
INSTRUMENT: C

Method Spike Recovery Summary

Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Diesel	2.09	79	4	65-103	12

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9501097
AEN LAB NO: 0117-BLANK
DATE ANALYZED: 01/17/95
MATRIX: WATER

Method Blank

	CAS #	Result (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
HCs as Gasoline		ND mg/L	0.05 mg/L

AEN LAB NO: 0118-BLANK
DATE ANALYZED: 01/18/95

Method Blank

	CAS #	Result (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
HCs as Gasoline		ND mg/L	0.05 mg/L

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9501097
INSTRUMENT: F
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
01/17/95	MW-10	01	97
01/17/95	MW-12	02	95
01/17/95	MW-16	03	92
01/17/95	MW-11-FB	04	99
01/17/95	MW-11	05	98
01/18/95	MW-24	06	103
01/18/95	MW-124	07	103
01/18/95	MW-8	08	106
QC Limits:			92-109

DATE ANALYZED: 01/17/95
SAMPLE SPIKED: LCS
INSTRUMENT: F

Laboratory Control Sample

Analyte	Spike Added (ug/L)	Percent Recovery	QC Limits Percent Recovery
Benzene	17.9	101	63-117
Toluene	49.9	94	67-114
Hydrocarbons as Gasoline	500	96	63-120

*** END OF REPORT ***

R-1, S-6
R-3, S-2

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9501097

Project No.: 3015.94.10	Field Logbook No.:	Date: 1-10-94	Serial No.:
Project Name: Diversified Investments	Project Location: Oakland		№ 013335
Sampler (Signature): Bryan Carroll			Samplers: BCC

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624	TPHg/BTEX	TPHd/o			HOLD	RUSH	REMARKS
MW-10	1-10	13:10	01A-D	4	Water			✓	✓					*1/12/95 Per Susan Shiu, pls. place the TB on HOLD and std TAT requested
MW-12	"	13:47	02A-D	4	"			✓	✓					
MW-16	"	15:45	03A-D	4	"			✓	✓					
MW-11-FB	"	15:55	04A-C	3	"			✓						
MW-11	"	16:10	05A-D	4	"			✓	✓					
MW-24	"	16:52	06A-D	4	"			✓	✓					
MW-12A	"	17:52	07A-D	4	"			✓	✓					
MW-8	"	17:25	08A-D	4	"			✓	✓					No duplicate ambers received.
TB	1/4		09A					—				*		
														Fax results ASAP to Susan Shiu. Please include all Quality Control Reports in Fax.

RELINQUISHED BY: (Signature) Bryan Carroll	DATE 1/11/95	TIME 15:50	RECEIVED BY: (Signature) Michael E. Mueller	DATE 1/11/95	TIME 15:50
RELINQUISHED BY: (Signature) Michael E. Mueller	DATE 1/11/95	TIME 12:30	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:

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

Analytical Laboratory:

AEN

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