



PORT OF OAKLAND

March 3, 1994

ALCO
HAZMAT
94 MAR -7 PH12:39

Mr. Paul Smith
Hazardous Materials Division
Department of Environmental Health
Alameda County Health Services Agency
80 Swan Way, Room 200
Oakland, CA 94621

SUBJECT: Report of Quarterly Groundwater Monitoring *Keep on Trucking*, 370 8th Avenue, Oakland, CA 94606

Dear Mr. Smith:

Enclosed, you will find the Report of Quarterly Groundwater Monitoring at *Keep on Trucking*, 370 8th Avenue, Oakland, California. The wells were installed in August and September 1993 following the remediation of the diesel contaminated soils from the vicinity of the leaking underground pipe. The report on the well installation was transmitted to you on 9 December 1993.

The December report discussed that free phase product was encountered in well MW-4. Continued bailing of the well removed the product which indicated that the fuel was in an isolated pocket. This quarterly monitoring report noted that only a slight sheen (unmeasurable thickness) is present in well MW-4.

If you have any questions regarding this letter, please contact me at (510) 272-1184.

Sincerely,

Jon Amdur
Environmental Scientist

cc\ w report:

Mr. Richard Padovani, Terminal Manager, *Keep on Trucking Co., Inc.*, 370 8th Avenue,
Oakland, CA 94606
Mr. Michel Delchunt, Crosby, Heafy, Roach and May, 1999 Harrison Street,
Oakland, CA 94612
Mr. Rich Hiatt, SFRWQCB, 2101 Webster Street, 5th Floor, Oakland, CA 94612
Ms. Michele Heffes (Legal Department)

cc\ w\o report

Mr. Gil Jensen, Alameda County District Attorneys Office of Consumer and
Environmental Affairs, 7677 Oakport Dr., Suite 400, Oakland, CA 94621

Mr. James McGrath (Environmental Department)

Mr. Neil Werner (Environmental Department)



E N V I R O N M E N T A L C O N S U L T I N G S E R V I C E S

February 9, 1994

Mr. Jon Amdur
Associate Environmental Scientist
Port of Oakland
530 Water Street
Oakland, CA 94607

SUBJECT: Report of Quarterly Groundwater Monitoring at Keep On Trucking, 370 8th Avenue, Oakland, California

Dear Mr. Amdur:

This letter reports the results of quarterly groundwater monitoring conducted at Keep On Trucking, 370 8th Avenue (Figure 1). Uribe & Associates (U&A) collected quarterly groundwater samples from four monitoring wells (MW-1, MW-2, MW-3, and MW-4) on January 12, 1994. These wells were installed by U&A near the former location of leaking underground piping (Figure 2). The piping was removed in March 1993 with 500 cubic yards of diesel-contaminated soil. Wells MW-1, MW-2, and MW-3 were installed on August 26, 1993. MW-4 was installed on September 8, 1993.

Water levels in the monitoring wells were measured on January 11, 1994 at 5.13 (MW-1), 5.94 (MW-2), 4.84 (MW-3) and 8.23 (MW-4) feet above mean lower low water. The groundwater elevations are summarized in Table 1. A three-point calculation using groundwater elevation data from MW-1, MW-2, and MW-3 yields a groundwater flow direction to the south-southwest (Figure 2). The water elevation in MW-4, three feet higher than the other wells, appears to be anomalous and has therefore not been used for the groundwater gradient calculation this quarter. U&A will continue to calculate groundwater gradients in future monitoring events.

After the wells were purged, water samples were collected from each well. No free product or sheen was observed in groundwater samples MW-1, MW-2, and MW-3. There was a sheen on groundwater sample MW-4. The samples ranged in temperature from 62.5 to 64.4 degrees Fahrenheit and ranged in pH from 6.67 to 7.02. The completed field report forms used during sampling are attached.



Groundwater samples were analyzed by Clayton Environmental Laboratories. The results are summarized in Table 2; laboratory data sheets are attached. All samples were analyzed for TPH-diesel (EPA Method 8015, Modified), Total Dissolved Solids (TDS, EPA Method 160.1), and BTEX (EPA Method 8020).

TDS concentrations ranged from 2,200 mg/l in sample MW-4 to 18,000 mg/l in sample MW-3. TPH-diesel was detected in all of the groundwater samples. Diesel concentrations in samples MW-1, MW-2, and MW-3 were relatively low, ranging from 0.430 mg/l in sample MW-3 to 1.800 mg/l in sample MW-2. Sample MW-4 contained 32 mg/l of diesel. The laboratory indicated that the hydrocarbons reported for samples MW-1, MW-2, and MW-3 did not match a typical diesel pattern but appeared to be either oil or a mixture of oil and diesel. BTEX was not detected in samples MW-1, MW-2, or MW-3. However, sample MW-4 contained benzene (0.071 mg/l), ethylbenzene (0.020 mg/l), toluene (0.041 mg/l), o-xylene (56 mg/l), and p, m-xylene (94 mg/l).

The next quarterly monitoring event is scheduled for March. Please call if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Stephanie Knott".

Stephanie Knott
Project Manager

Attachments

**Table 1: Water Level Measurements
Keep On Trucking, 380 8th Avenue**

Well Designation				
Date Measured	Surface Elevation¹	Time	GW Depth²	GW Elevation³
MW-1				
September 14, 1993	10.28	10:25	5.25	5.03
January 11, 1994	10.28	4:30	5.15	5.13
MW-2				
September 14, 1993	10.69	10:35	5.1	5.59
January 11, 1994	10.69	4:35	4.75	5.94
MW-3				
September 14, 1993	10.54	9:35	13.8	-3.26
January 11, 1994	10.54	4:37	5.7	4.84
MW-4				
September 14, 1993	12.33	10:50	5.3	7.03
January 11, 1994	12.33	4:45	4.1	8.23

¹ Elevation of ground surface relative to mean lower low water (3.2 feet below mean sea level) surveyed by Bissel & Karn.
² Depth below surface.
³ Elevation of groundwater above mean lower low water.

Table 2: Analytical Results
Keep On Trucking, 380 8th Avenue

Concentrations in mg/L

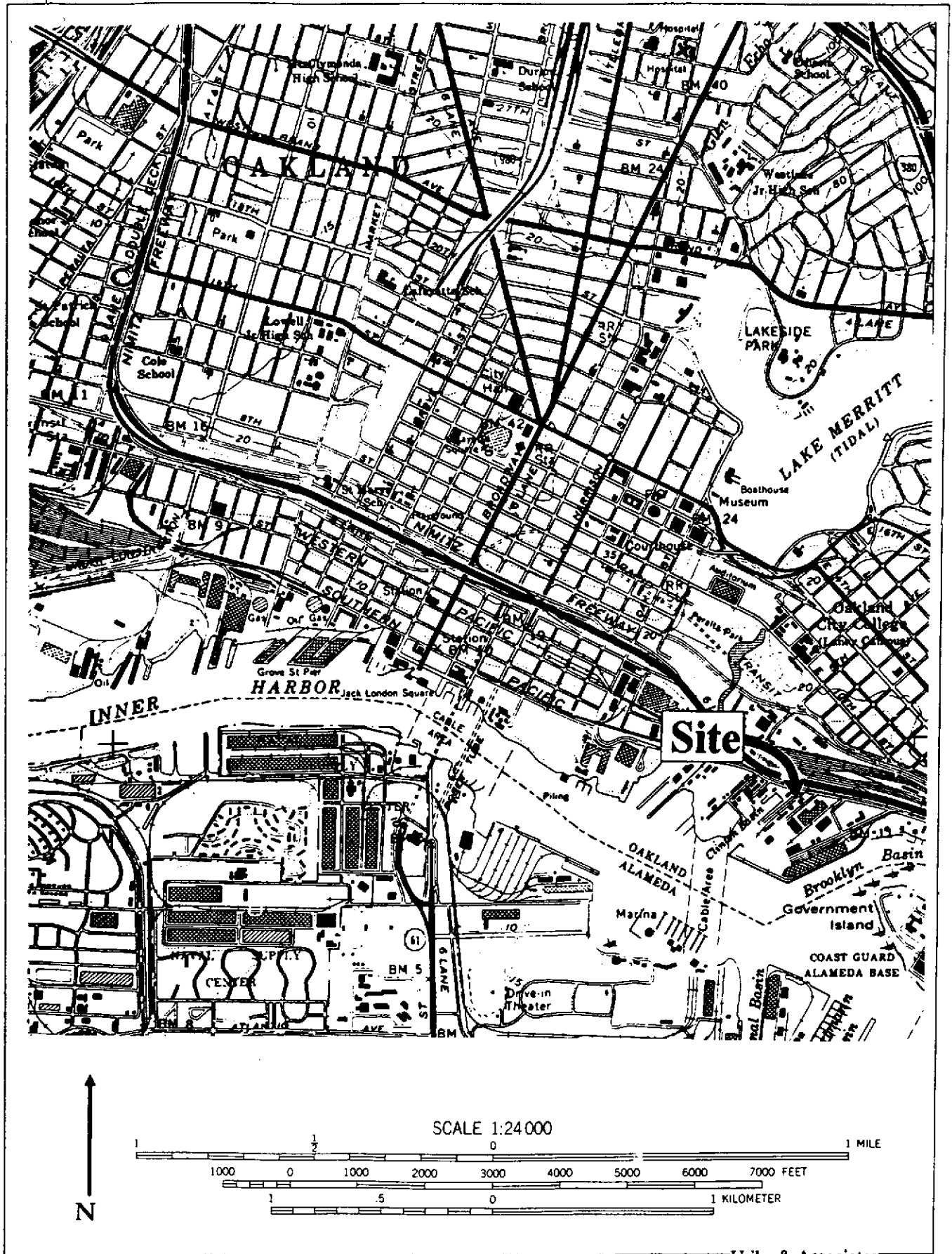
Sample Designation Date Sampled	TPH- Diesel	TDS	Benzene	Ethylbenzene	Toluene	o-Xylene	p, m-Xylenes
MW-1							
September 21, 1993	1.600 ¹	NA	<0.4	<0.3	<0.3	<0.4	<0.4
January 11, 1994	0.610 ¹	6,900	<0.4	<0.3	<0.3	<0.4	<0.4
MW-2							
September 21, 1993	1.900 ¹	NA	0.0005	<0.3	<0.3	<0.4	<0.4
January 11, 1994	1.800 ¹	8,000	<0.4	<0.3	<0.3	<0.4	<0.4
MW-3							
September 21, 1993	0.680 ¹	NA	<0.4	0.0003	<0.3	<0.4	<0.4
January 11, 1994	0.430 ²	18,000	<0.4	<0.3	<0.3	<0.4	<0.4
MW-4							
September 21, 1993	1.3	NA	0.140	0.110	0.040	0.085	0.150
January 11, 1994	32.000	2,700	0.071	0.020	0.041	0.056	0.094

Notes:

¹ Laboratory reported that the sample does not match the typical diesel pattern. Sample appears to be oil.

² Laboratory reported that the sample does not match the typical diesel pattern. Sample appears to be some mixture of diesel and oil.

NA = not analyzed during this event.



Uribe & Associates

Figure 1: Site Location Map

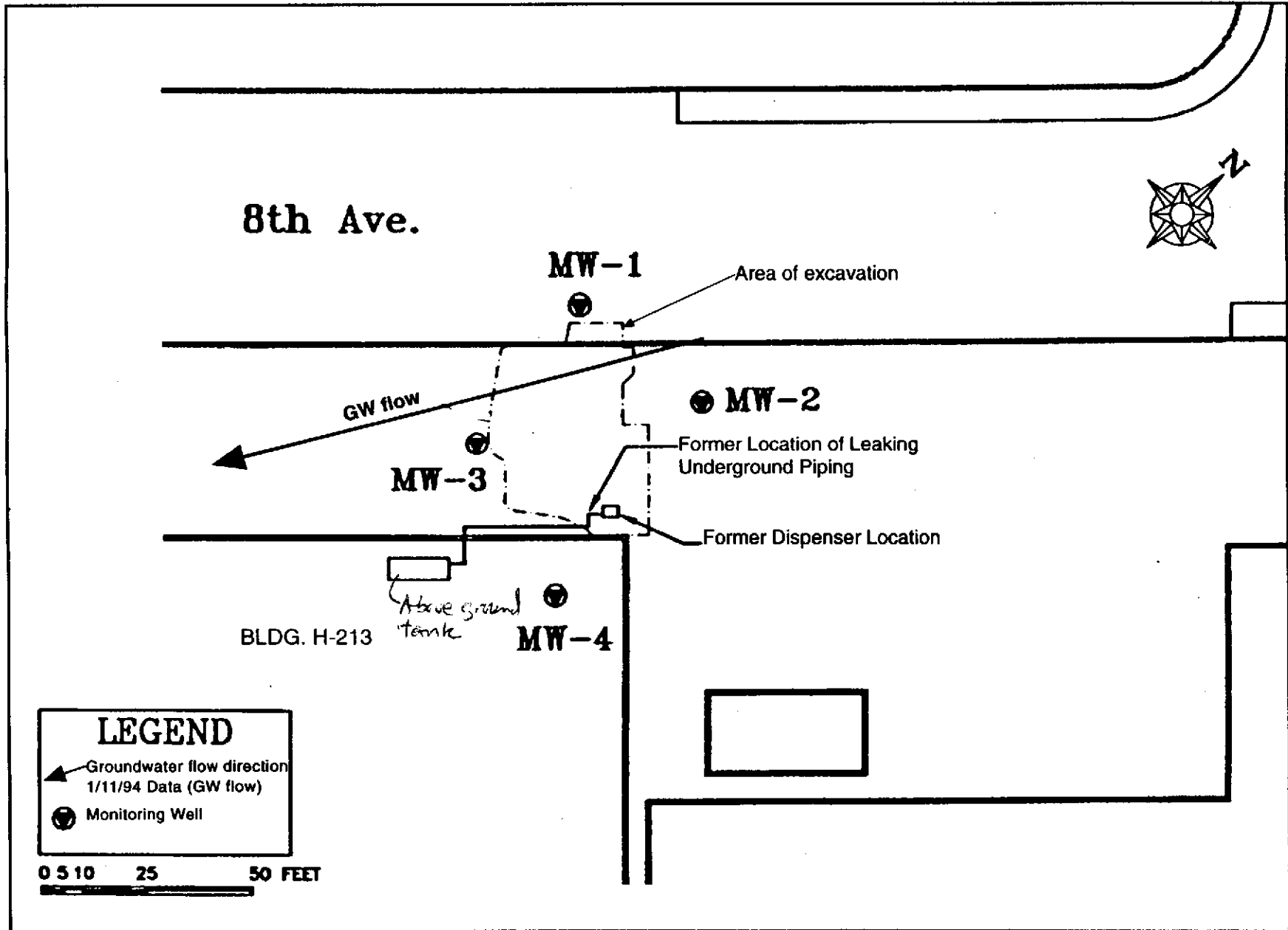


Figure 2: Site Plan, Showing Monitoring Well Locations and Groundwater Flow

Monitoring Well Sampling Form

Site Location: KCIT Date: 1/11/94
 Well Location: MW-1 Project Reference #: 96-203

Well #	Time of Sampling	Water Level	Free Product Thickness	Total Depth	Well Volume	Temperature	pH	Electric Conductivity
MW-1	4:30	5.15	None		Sealed 5 gallons (dry)			
MW-1	12:30	<u>1/12/94</u>	Sample collected			64.4°	6.2	9,300

Water Level Measurement Method:

Schinst tape to top of loosely Box

Free Product Thickness Measurement Method:

None, visual

Well Purging Procedures:

tephlon bucket

Well-Purge Water Characterization and Disposal Methods:

Clayton analytical

Comments:

Sampling Performed by: JCB

Monitoring Well Sampling Form

Site Location: KCT Date: 1/11/94
 Well Location: MW-2 Project Reference #: 762-3

Well #	Time of Sampling	Water Level	Free Product Thickness	Total Depth	Well Volume	Temperature	pH	Electric Conductivity
MW-2	4:35	4.75			Bailed 5 gallons (4.5)			
MW-2	12:50 12:30	(1/12/94)	sample collected			62.5	6.77	10,660

Water Level Measurement Method:

Selsint tape to top of Christy Box

Free Product Thickness Measurement Method:

visual

Well Purging Procedures:

topical breaker

Well-Purge Water Characterization and Disposal Methods:

Dayton Analytical

Comments:

Sampling Performed by: TCB

Monitoring Well Sampling Form

Site Location: KCT Date: 1/11/94
 Well Location: ~~MW-3~~ MW-3 Project Reference #: 46-2-3

Well #	Time of Sampling	Water Level	Free Product Thickness	Total Depth	Well Volume	Temperature	pH	Electric Conductivity
MW-3 MW-3	4:37	5.70 4.12	none		Bailed 5 gallons dry			
	2:15 (1/11/94)		collected samples			63.4	7.02	>20,000

Water Level Measurement Method:
 Solinst tape to top of casing B-2

Free Product Thickness Measurement Method:
 Visual

Well Purging Procedures:
 regular Bailer

Well-Purge Water Characterization and Disposal Methods:
 Clayton Analytical

Comments:

Sampling Performed by: T.C.B.

Monitoring Well Sampling Form

Site Location: KCT Date: 1/11/94
 Well Location: MW-4 Project Reference #: KL-203

Well #	Time of Sampling	Water Level	Free Product Thickness	Total Depth	Well Volume	Temperature	pH	Electric Conductivity
MW-4 MW-3	4:45	4.10 5.10						
MW-4	1:45 (1/12/94)		50.0, Screen samples		Barrel #10 Judson's	63.0	6.76	7,430
		collected samples						

Water Level Measurement Method:
Schist tape to top of Christy Box

Free Product Thickness Measurement Method:
visual

Well Purging Procedures:
4 cycles / 20 min / disposable

Well-Purge Water Characterization and Disposal Methods:
Clayton Analytical

Comments:

Sampling Performed by: *JCB*

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106



January 27, 1994

Mr. Tom Barnes
URIBE
2930 Lakeshore Ave., Ste. 200
Oakland, CA 94577

Client Ref.: 96-203
Clayton Project No.: 94011.13

Dear Mr. Barnes:

Attached is our analytical laboratory report for the samples received on January 13, 1994. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of after February 26, 1994, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,

Harriotte A. Hurley, CIH
Director, Laboratory Services
Western Operations

HAH/tjb

Attachments



Analytical Results
 for
 URIBE
 Client Reference: 96-203
 Clayton Project No. 94011.13

Sample Identification: See Below	Date Received: 01/13/94
Lab Number: 9401113	Date Extracted: 01/19/94
Sample Matrix/Media: WATER	Date Analyzed: 01/19/94
Extraction Method: EPA 3510	
Method Reference: EPA 8015 (Modified)	

Lab Number	Sample Identification	Date Sampled	TPH-D (ug/L)		Method Detection Limit (ug/L)
-01	MW-1	01/12/94	610	a	50
-02	MW-2	01/12/94	1800	a	50
-03	MW-3	01/12/94	430	b	50
-04	MW-4	01/12/94	32000		50
-06	METHOD BLANK	--	ND		50

ND: Not detected at or above limit of detection

--: Information not available or not applicable

TPH-D = Extractable petroleum hydrocarbons from C10 to C42 quantitated as diesel.

- a Sample does not match the typical diesel pattern.
 Sample appears to be oil.
- b Sample does not match the typical diesel pattern.
 Sample appears to be a mixture of diesel and oil.

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Analytical Results
for
URIBE
Client Reference: 96-203
Clayton Project No. 94011.13

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9401113-06A	Date Received:	--
Sample Matrix/Media:	WATER	Date Prepared:	01/21/94
Preparation Method:	EPA 5030	Date Analyzed:	01/21/94
Method Reference:	EPA 8020	Analyst:	WAS

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>BTEX</u>			
Benzene	71-43-2	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	--	ND	0.4
<u>Surrogates</u>			
		<u>Recovery (%)</u>	<u>OC Limits (%)</u>
a,a,a-Trifluorotoluene	98-08-8	67	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

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Analytical Results
 for
 URIBE
 Client Reference: 96-203
 Clayton Project No. 94011.13

Sample Identification:	MW-4	Date Sampled:	01/12/94
Lab Number:	9401113-04A	Date Received:	01/13/94
Sample Matrix/Media:	WATER	Date Prepared:	01/24/94
Preparation Method:	EPA 5030	Date Analyzed:	01/24/94
Method Reference:	EPA 8020	Analyst:	WAS

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>BTEX</u>			
Benzene	71-43-2	71	0.4
Ethylbenzene	100-41-4	20	0.3
Toluene	108-88-3	41	0.3
o-Xylene	95-47-6	56	0.4
p,m-Xylenes	--	94	0.4
<u>Surrogates</u>			
		<u>Recovery (%)</u>	<u>OC Limits (%)</u>
a,a,a-Trifluorotoluene	98-08-8	68	50 - 150

ND: Not detected at or above limit of detection
 --: Information not available or not applicable



Analytical Results
for
URIBE
Client Reference: 96-203
Clayton Project No. 94011.13

Sample Identification: MW-3	Date Sampled: 01/12/94
Lab Number: 9401113-03A	Date Received: 01/13/94
Sample Matrix/Media: WATER	Date Prepared: 01/24/94
Preparation Method: EPA 5030	Date Analyzed: 01/24/94
Method Reference: EPA 8020	Analyst: WAS

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
BTEX			
Benzene	71-43-2	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	--	ND	0.4
Surrogates		Recovery (%)	QC Limits (%)
a,a,a-Trifluorotoluene	98-08-8	69	50 - 150

ND: Not detected at or above limit of detection
 --: Information not available or not applicable

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Analytical Results
for
URIBE
Client Reference: 96-203
Clayton Project No. 94011.13

Sample Identification:	MW-2	Date Sampled:	01/12/94
Lab Number:	9401113-02A	Date Received:	01/13/94
Sample Matrix/Media:	WATER	Date Prepared:	01/21/94
Preparation Method:	EPA 5030	Date Analyzed:	01/21/94
Method Reference:	EPA 8020	Analyst:	WAS

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>BTEX</u>			
Benzene	71-43-2	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	--	ND	0.4
<u>Surrogates</u>			
		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
a,a,a-Trifluorotoluene	98-08-8	70	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

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Analytical Results
for
URIBE
Client Reference: 96-203
Clayton Project No. 94011.13

Sample Identification:	MW-1	Date Sampled:	01/12/94
Lab Number:	9401113-01A	Date Received:	01/13/94
Sample Matrix/Media:	WATER	Date Prepared:	01/24/94
Preparation Method:	EPA 5030	Date Analyzed:	01/24/94
Method Reference:	EPA 8020	Analyst:	WAS

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>BTEX</u>			
Benzene	71-43-2	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	--	ND	0.4
<u>Surrogates</u>			
		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
a,a,a-Trifluorotoluene	98-08-8	74	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable



Analytical Results
 for
 URIBE
 Client Reference: 96-203
 Clayton Project No. 94011.13

Sample Identification: See Below
 Lab Number: 9401113
 Sample Matrix/Media: WATER
 Method Reference: EPA 160.1

Date Received: 01/13/94
 Date Analyzed: 01/21/94

Lab Number	Sample Identification	Date Sampled	Total Dissolved Solids (mg/L)	Method Detection Limit (mg/L)
-01	MW-1	01/12/94	6900	10
-02	MW-2	01/12/94	8000	10
-03	MW-3	01/12/94	18000	10
-04	MW-4	01/12/94	2700	10
-06	METHOD BLANK	--	<10	10

ND: Not detected at or above limit of detection
 --: Information not available or not applicable