

3315 Almaden Expressway, Suite 34
San Jose, CA 95118
Phone: (408) 264-7723
FAX: (408) 264-2435

TRANSMITTAL

TO: Ms. Molly Ong
East Bay Municipal Utility District
Source Control Division, M.S. 702
P.O. Box 24055, 375 11th Street,
Mail Slot #702
Oakland, California 94623

DATE: July 14, 1993
PROJECT NUMBER: 62073.02
SUBJECT: Former Texaco Station
2225 Telegraph Avenue, Oakland
California

FROM: Ms. Valli Voruganti
TITLE: Project Engineer

WE ARE SENDING YOU:

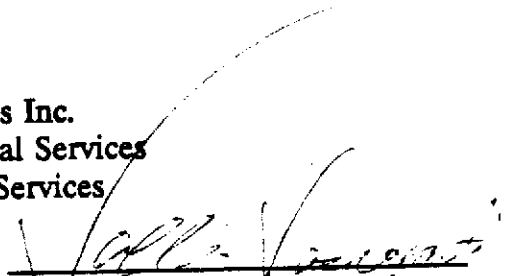
COPIES	DATED	NO.	DESCRIPTION
1	07/14/93	62073.02	Wastewater Discharge Permit #502-27801 Self Monitoring Report for Second Quarter 1993 for Groundwater Treatment System at the above subject site.

THESE ARE TRANSMITTED as checked below:

- For review and comment Approved as submitted Resubmit ___ copies for approval
 As requested Approved as noted Submit ___ copies for distribution
 For approval Return for corrections Return ___ corrected prints
 For your files

cc: Mr. Philip J. Mayberry, RESNA Industries Inc.
Mr. Robert Robles, Texaco Environmental Services
Mr. Paul Priebe, Texaco Environmental Services

Copies: 1 to RESNA project file no. 62073.02


Project Engineer Valli Voruganti

3315 Almaden Expressway, Suite 34
San Jose, CA 95118
Phone: (408) 264-7723
FAX: (408) 264-2435

July 14, 1993
0701EBMUD.RPT
62073.02

Ms. Molly Ong
East Bay Municipal Utility District
Source Control Division, M.S. 702
P.O. Box 24055, 375 11th Street, Mail Slot #702
Oakland, California 94623

Subject: **WASTEWATER DISCHARGE PERMIT #502-27801**
Self Monitoring Report for Second Quarter 1993 for
Groundwater Treatment System at Former Texaco Station,
located at 2225 Telegraph Avenue, Oakland, California.

Ms. Ong:

This letter presents the operation and performance data collected for the groundwater treatment system at the above-subject site for Second Quarter 1993, in accordance with self monitoring requirements established by the above-subject permit. The groundwater treatment system was installed at this site in 1990 by Harding Lawson Associates. The system was temporarily shutdown on June 4, 1992, and was reactivated on January 27, 1993. Texaco Environmental Services (TES) personnel are currently self-monitoring the operation and maintenance of the treatment system. RESNA Industries, Inc. (RESNA) personnel are currently the duly authorized representatives for reporting all operation and performance data collected on the groundwater treatment system (See Attachment A - Letter of Authorization). The Exxon Company is currently operating the site as an active service station facility.

The treatment system extracts groundwater from two recovery wells RW-1 and RW-2 using air displacement pumps. Extracted groundwater is directed to a 1,000 gallon holding tank located in the treatment compound through subgrade remediation piping. The water is contained in the tank until level sensors in the tank activate a transfer pump. The transfer pump discharges water from the tank for treatment through three carbon canisters in series prior to discharge to the sanitary sewer. A flow totalizer measures the total volume of water discharged to the sewer. Sample ports are located influent to the first carbon canister, effluent to the second carbon canister and the third carbon canister for monthly monitoring of system performance.

Self-Monitoring Report for Second Quarter 1993
Texaco, 2255 Telegraph Avenue, Oakland, California

July 14, 1993
62073.02

Water samples are collected on a monthly basis influent to the first carbon canister (CARB-INFL/INFL.), effluent to the second carbon canister (CARB-BT2/BT2) and effluent to the third carbon canister (CARB-EFFL/EFFL). Samples collected are analyzed by a State Certified Laboratory (Mobile Chem Labs Inc.) for the presence of benzene, toluene, ethylbenzene, xylene (BTEX) and total petroleum hydrocarbons-as gas (TPHg) using EPA Methods 5030/8020/8015. Analyses results are then reviewed to determine carbon breakthrough rates for the second carbon canister and to demonstrate compliance with site specific wastewater discharge permit conditions.

Operation and performance data for the groundwater treatment system including laboratory analyses results of water samples collected for the period of April 1, 1993 through June 30, 1993 are summarized in Table 1. Enclosed also with this letter are copies of the laboratory reports and Chain-Of-Custody forms (Attachment B). Copies of the facility inspections logs are also enclosed in Attachment C.

A review of Table 1, indicates that BTEX and TPHg concentrations in effluent water (CARB-EFFL) discharged to the sewer were below laboratory detection limits and EBMUD permit limits with the exception of a TPHg concentration of 72 parts per billion [ppb] reported in the effluent water sample collected from the April 15, 1993 monitoring event. Despite this detectable reading of 72 ppb for TPHg, all other components of gasoline (BTEX) which are regulated by EBMUD unlike TPHg which is not a regulated compound, were below laboratory detection limits. Hence, the April 15, 1993, monitoring event results were still in compliance with the EBMUD permit limits and no violations had occurred.

On receipt of the April 15, 1993, monitoring results, the system was shutdown to avoid any violation of permit conditions. Prior to shutdown, a second sample of the effluent water was taken on April 28, 1993, for BTEX and TPHg analyses. As can be seen from Table 1, nondetectable levels of BTEX and TPHg were reported on analyses of the second sample, thereby confirming that no violations of the site specific wastewater discharge permit had occurred. The system was restarted on May 4, 1993.

Carbon canisters were changed out on April 15, 1993, when breakthrough was seen through the second carbon canister in series on March 15, 1993. Attachment D details estimated carbon breakthrough rates of one year respectively, for the second and third carbon canisters based on volume of groundwater treated and average TPHg concentrations in groundwater reported during second quarter 1993.

A total of 48,292 gallons of water has been treated and discharged during this period (April 1, 1993 through June 30, 1993). A cumulative total of 464,603 gallons of water have been discharged to the sewer to date.

I certify under penalty of law that this document and all attachments were prepared under



Working to Restore Nature

Self-Monitoring Report for Second Quarter 1993
Texaco, 2255 Telegraph Avenue, Oakland, California

July 14, 1993
62073.02

my direction and supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering this information, the information submitted, is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for a known violation.

Please call (408) 264-7723, if you have any questions or comments.

Sincerely,
RESNA Industries, Inc.

Valli Voruganti
Project Engineer

Mary E. Rysdale
Geologic Technician

cc: Mr. Phil Mayberry, RESNA Industries Inc.
Mr. Robert Robles, Texaco Environmental Services
Mr. Paul Priebe, Texaco Environmental Services

Attachments: Table 1, Operation & Performance Data for Groundwater Treatment System
Attachment A - Letter of Authorization
Attachment B - Laboratory Reports and Chain-Of-Custody Documentation
Attachment C - Facility Inspection Logs
Attachment D - Carbon Breakthrough Calculations

**TABLE 1: OPERATION & PERFORMANCE DATA FOR GROUNDWATER TREATMENT SYSTEM
 SECOND QUARTER 1993, 2255 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA**

SAMPLE DATE	SAMPLE ID#	CONCENTRATION IN PARTS PER BILLION (PPB)					VOL. OF WATER DISCHARGED (GALS.)
		TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENE	
PERMIT LIMITS*		NA	5	12	5	11	-
04/15/93**	CARB-INFL./INFL.	16,000	1,900	700	60	2,000	416,404 New flow meter installed (Start reading @ 78150)
	CARB-BT2/BT2	92	28	0.7	<0.5	2.0	
	CARB-EFFL./EFFL.	72***	<0.5	<0.5	<0.5	<0.5	
04/28/93	CARB-INFL./INFL.	3,100	730	130	4.9	410	428,200**** (Calculated as 416,404 + [89946-78150])
	CARB-BT2/BT2	210	76	1.6	<0.5	3.1	
	CARB-EFFL./EFFL.	<50	<0.5	<0.5	<0.5	<0.5	
05/04/93	CARB-INFL./INFL.	10,000	1,300	320	<0.5	1,900	428,339 (Calculated as 428,200 + [90085-89946])
	CARB-BT2/BT2	<50	<0.5	<0.5	<0.5	<0.5	
	CARB-EFFL./EFFL.	<50	<0.5	<0.5	<0.5	<0.5	
05/10/93	CARB-EFFL./EFFL.	EBMUD onsite to sample effluent water from third carbon canister, prior to discharge to the sanitary sewer. Results not available.					433,364
05/15/93	CARB-INFL./INFL.	130	0.9	<0.5	0.9	12	436,822
	CARB-BT2/BT2	<50	<0.5	<0.5	<0.5	<0.5	

Self-Monitoring Report for Second Quarter 1993
 Texaco, 2225 Telegraph Avenue, Oakland, California

July 14, 1993
 62073.02

**TABLE 1: OPERATION & PERFORMANCE DATA FOR GROUNDWATER TREATMENT SYSTEM
 SECOND QUARTER 1993, 2255 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA**

SAMPLE DATE	SAMPLE ID#	CONCENTRATION IN PARTS PER BILLION (PPB)					VOL. OF WATER DISCHARGED (GALS.)
		TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENE	
06/01/93	CARB-INFL./INFL.	210	4.0	0.7	0.9	29	448,172
	CARB-BT2/BT2	<50	<0.5	<0.5	<0.5	<0.5	
06/15/93	CARB-INFL./INFL.	120	<0.5	<0.5	0.6	31	457,078
	CARB-BT2/BT2	<50	<0.5	<0.5	<0.5	<0.5	
06/30/93	CARB-INFL./INFL.	300	37	1.5	<0.5	48	464,603
	CARB-BT2/BT2	<50	<0.5	<0.5	<0.5	<0.5	

**TABLE 1: OPERATION & PERFORMANCE DATA FOR GROUNDWATER TREATMENT SYSTEM
 SECOND QUARTER 1993, 2255 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA**

SAMPLE DATE	SAMPLE ID#	CONCENTRATION IN PARTS PER BILLION (PPB)					VOL. OF WATER DISCHARGED (GALS.)
		TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENE	

NOTES:

- * EBMUD permit limits are the maximum discharge concentrations of BTEX and TPHg that can be present in treated water discharged to the sewer.
 - ** Changed the first carbon canister out and added a new third carbon canister
 - *** Despite detectable TPHg concentrations in effluent water (72 ppb), discharge permit limits were not exceeded due to non detectable levels of BTEX.
 - **** System was shut down on 04/28/93 on realizing that detectable levels of TPHg were reported in the effluent sample from the third carbon canister on 04/15/93. A second sample was collected on 04/28/93 for verification prior to shutdown. As can be seen nondetectable levels of TPHg were reported confirming that the 04/15/93 effluent results were an anomaly.
- NA Not Applicable (Not specified)
 NS Not Sampled
 TPHg Total Petroleum Hydrocarbons as gasoline
 INF Influent to 1st Carbon Canister
 BT2 Effluent to 2nd Carbon (breakthrough through No. 2 Canister)
 EFFL Effluent to 3rd Carbon, discharged to sanitary sewer


ATTACHMENT A
LETTER OF AUTHORIZATION



3315 Almaden Expressway, Suite 14
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FAX: (408) 264-2435

LETTER OF AUTHORIZATION

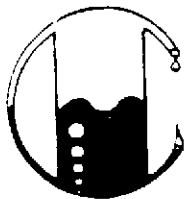
This letter authorizes the Geologic Technician (Ms. Mary Rysdale), the Project Engineer (Ms. Valli Voruganti) and/or the Project Manager (Mr. Phil Mayberry) of RESNA Industries, Inc. as the duly authorized representatives for having the responsibility of reporting all operational data collected on the groundwater remediation system at the Former Texaco station located at 2225 Telegraph Avenue, Oakland, California from which the wastewater originates. Texaco Environmental Services (TES) is currently self-monitoring the operation and maintenance of the groundwater remediation system.


Mr. Robert Robles
Environmental Protection Coordinator
Texaco Environmental Services

07/12/93
Date of Authorization

ATTACHMENT B

**LABORATORY REPORTS AND CHAIN-OF-CUSTODY
DOCUMENTATION**



MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510) 372-3700 • Fax (510) 372-6955

624880195\1342\012599

Texaco Environmental Services
106 Cutting Blvd.
Richmond, CA 94804
Attn: Paul Priebe
Project Manager

Date Sampled: 04-15-93
Date Received: 04-15-93
Date Analyzed: 04-19-93

Sample Number

043212

Sample Description

Texaco - Oakland
2225 Telegraph Ave.
Eff WATER

ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	72
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

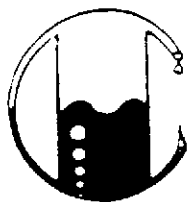
incorrect

See sample taken 4/28/93 which show <50

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510) 372-3700 • Fax (510) 372-6955

624880195\1342\012599

Texaco Environmental Services
106 Cutting Blvd.
Richmond, CA 94804
Attn: Paul Priebe
Project Manager

Date Sampled: 04-15-93
Date Received: 04-15-93
Date Analyzed: 04-19-93

Sample Number

043213

Sample Description

Texaco - Oakland
2225 Telegraph Ave.
BT-2 WATER

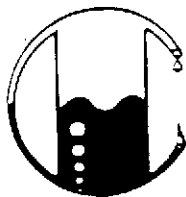
ANALYSIS

	Detection Limit	Sample Results
	----- ppb	----- ppb
Total Petroleum Hydrocarbons as Gasoline	50	92
Benzene	0.5	.028
Toluene	0.5	0.7
Xylenes	0.5	2.0
Ethylbenzene	0.5	<0.5

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS


Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

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Phone (510) 372-3700 • Fax (510) 372-6955

624880195\1342\012599

Texaco Environmental Services
106 Cutting Blvd.
Richmond, CA 94804
Attn: Paul Priebe
Project Manager

Date Sampled: 04-15-93
Date Received: 04-15-93
Date Analyzed: 04-19-93

Sample Number

043214

Sample Description

Texaco - Oakland
2225 Telegraph Ave.
Inf WATER

ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	16,000
Benzene	0.5	1,900
Toluene	0.5	700
Xylenes	0.5	2,000
Ethylbenzene	0.5	60

QA/QC: Duplicate Deviation is 0.9%

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS


Ronald G. Evans
Lab Director

043212

2225 Telegraph Ave
Oakland CA
Loc 4 624880155

56345

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client Texaco Environmental
Address 108 Cutting Blvd
Richmond CA 94801
Phone 510 286 3541

Report To Paul Priebe
Bill To: Texaco
PO # / Billing Reference _____
Project Name / No _____

Pace Client No _____
Pace Project Manager _____
Pace Project No _____
Requested Due Date _____

Sampled By (PRINT): Paul Priebe

Sampler Signature Paul Priebe Date Sampled 04.15.93

NO. OF CONTAINERS	PRESERVATIVES				ANALYSES REQUEST
	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA HCL	
					<i>BTX/PAH</i>

ITEM NO	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO	REMARKS
1	EFF <u>212</u>	1315	H ₂ O	2	ON ICE No head Space 5 day Tat
2	BT 2 <u>213</u>	1318			
3	INC <u>214</u>	1320	↓ 13		
4					
5					
6					
7					
8					

COOLER NO	DATE	SUBMITTER	DATE

RELINQUISHED BY	AFFILIATION	ACCEPTED BY	AFFILIATION	DATE	TIME
<u>Paul Priebe</u>	<u>Texaco</u>	<u>Dave Levine</u>	<u>45-D-1120</u>		

Additional Comments



2225 Telegraph Ave
Oakland CA

56345

Loc 4 624880195

CHAIN-OF-CUSTODY RECORD
Analytical Request

Report To: Paul Priebe

Pace Client No

Bill To: Texaco

Pace Project Manager

P.O. # / Billing Reference

Pace Project No

Project Name / No

*Requested Due Date:

Client Texaco Environmental

Address 108 Cutting Blvd

Richmond CA 94804

Phone 510 286 3541

Sampled By (PRINT):
Paul Priebe

Sampler Signature
Paul Priebe

Date Sampled
04.15.95

NO. OF CONTAINERS	PRESERVATIVES			
	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA HCL
2				X

ANALYSES REQUESTED
BTEXIPA

ITEM NO	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO
1	EFF	1318	1120	
2	BT-2	1318	↓	
3	INF	1320	↓	13
4				
5				
6				
7				
8				

NO. OF CONTAINERS	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA HCL
2				X

REMARKS
ON ICE
No head
space
5 day
Tat

COOLER NO	DATE	SUBSTRATE METHOD	ITEM

RELINQUISHED BY AFFILIATION
Paul Priebe Texaco

ACCEPTED BY AFFILIATION
DATE TIME
Dave Levine 4/15/95 1120

Additional Comments



2225 Tallegarth Ave
Oakland CA

56345

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client Texaco Environmental
Address 108 Cutting Blvd
Richmond CA 94801
Phone 510 236 3541

Report To: Paul Priebe
Bill To: Texaco
P.O. # / Billing Reference _____
Project Name / No. _____

Pace Client No. _____
Pace Project Manager _____
Pace Project No. _____
Requested Due Date: _____

Sampled By (PRINT): Paul Priebe
Sampler Signature: P.P.P. Date Sampled: 04.15.93

NO. OF CONTAINERS	PRESERVATIVES				ANALYSES REQUEST
	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA HCL	
2				X	BTEX/PAHs
↓				X	
↓				X	

ITEM NO	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO	NO. OF CONTAINERS	PRESERVATIVES	ANALYSES REQUEST	REMARKS
1	EFF	1319	1120		2		X	In ICE No head Spice 5 day Tat
2	BT-2	1318	↓		↓		X	
3	INC	1320	↓	13	↓		X	
4								
5								
6								
7								
8								

COOLER NO.	BA	EQUIPMENT METHOD	ITEM NO.	RELINQUISHED BY	AFFILIATION	ACCEPTED BY	AFFILIATION	DATE	TIME
				<u>P.P.P.</u>	<u>Texaco</u>	<u>Dave Levine</u>		<u>4/15/93</u>	<u>11:20</u>

Additional Comments



2225 Talingher Drive
Oakland CA

56345

**CHAIN-OF-CUSTODY RECORD
Analytical Request**

Client Texaco Environmental
Address 108 Cutting Blvd
Richmond CA 94801
Phone 510 236 3541

Report To Paul Priebe
Bill To Texaco
PO # / Billing Reference _____
Project Name / No. _____

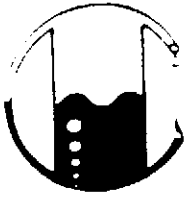
Pace Client No. _____
Pace Project Manager _____
Pace Project No. _____
Requested Due Date _____

Sampled By (PRINT): Paul Priebe
Sampler Signature [Signature] Date Sampled 14.15.93

ITEM NO	SAMP. DESCRIPTION	TIME	MATR X	PACE NO	NO. OF CONTAINERS	PRESERVATIVES				ANALYSES REQUEST	REMARKS
						UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA HCL		
1	EFF	1315	1120		2			X		BTXILS ICE NO TRAIL SPICE 5 day Tat	
2	BT-2	1318	↓		↓			X			
3	INC	1320	↓	13	↓			X			
4											
5											
6											
7											
8											

COOL. NO.	BA. TAG	SHIPMENT METHOD	DATE	TIME	RELINQUISHED BY	AFFILIATION	ACCEPTED BY	AFFILIATION	DATE	TIME
					<u>Paul Priebe</u>	<u>Texaco</u>	<u>Dave Levine</u>	<u>415</u>	<u>43</u>	<u>1:20</u>

Additional Comments



MOBILE CHEM LABS INC.

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Phone (510) 372-3700 • Fax (510) 372-6955

624880195\1718\012633

Texaco Environmental Services
108 Cutting Blvd.
Richmond, CA 94804
Attn: Paul Priebe
Project Manager

Date Sampled: 04-28-93
Date Received: 04-28-93
Date Analyzed: 04-28-93

Sample Number

043439

Sample Description

Texaco - Oakland
2225 Telegraph Ave.
Eff WATER

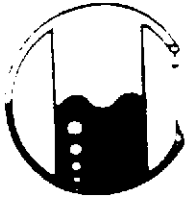
ANALYSIS

	Detection Limit	Sample Results
	----- ppb	----- ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

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624880195\1718\012633

Texaco Environmental Services
108 Cutting Blvd.
Richmond, CA 94804
Attn: Paul Priebe
Project Manager

Date Sampled: 04-28-93
Date Received: 04-28-93
Date Analyzed: 04-28-93

Sample Number

043438

Sample Description

Texaco - Oakland
2225 Telgraph Ave.
BMSW WATER

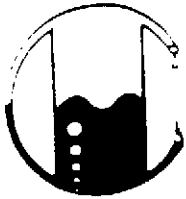
ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 602 used for BTX distinction.
(ppb) = ($\mu\text{g/L}$)

MOBILE CHEM LABS

Ronald G. Evans
Ronald G. Evans
Lab Director



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624880195\1718\012633

Texaco Environmental Services
108 Cutting Blvd.
Richmond, CA 94804
Attn: Paul Priebe
Project Manager

Date Sampled: 04-28-93
Date Received: 04-28-93
Date Analyzed: 04-28-93

Sample Number

043440

Sample Description

Texaco - Oakland
2225 Telgraph Ave.
BT-2 WATER

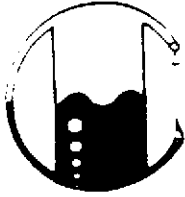
ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	210
Benzene	0.5	76
Toluene	0.5	1.6
Xylenes	0.5	3.1
Ethylbenzene	0.5	<0.5

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

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Lab Director



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624880195\1718\012633

Texaco Environmental Services
108 Cutting Blvd.
Richmond, CA 94804
Attn: Paul Priebe
Project Manager

Date Sampled: 04-28-93
Date Received: 04-28-93
Date Analyzed: 04-28-93

Sample Number

043441

Sample Description

Texaco - Oakland
2225 Telgraph Ave.
Inf WATER

ANALYSIS

	Detection Limit	Sample Results
	----- ppb	----- ppb
Total Petroleum Hydrocarbons as Gasoline	50	3,100
Benzene	0.5	730
Toluene	0.5	130
Xylenes	0.5	410
Ethylbenzene	0.5	4.9

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Ronald G. Evans
Lab Director



2200 TELEGRAPH HWY
OAKLAND CA
Loc # 624880195

56344

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client Texaco Environmental
Address 108 Cutting Blvd
Richmond CA 94704
Phone 510 236 3541

Report To: Paul Priebe
Bill To: Texaco
P.O. # / Billing Reference _____
Project Name / No. _____

Pace Client No. _____
Pace Project Manager _____
Pace Project No. _____
Requested Due Date: _____

Sampled By (PRINT):
Paul Priebe
Sampler Signature: Paul Priebe Date Sampled: 4-28-93

NO. OF CONTAINERS	PRESERVATIVES				ANALYSES REQUEST	REMARKS
	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA		
2					X	24 Hr Turn Around
2					X	ASAP
2					X	Send Copy to
2					X	Paul Priebe
						4504 Heppner Ln
						San Jose 95136

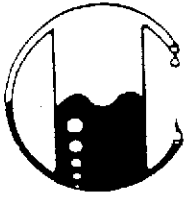
ITEM #	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO
	BMSW	1010	H ₂ O	
	EFF	1014		
	BT-2	1018		
	INF	1622	↓	

BAILERS	INSTRUMENT METHOD	OUT DATE	RETURNED DATE	ISSY NUMBER	RELINQUISHED BY	AFFILIATION	ACCEPTED BY	AFFILIATION	DATE	TIME
					<u>Paul Priebe</u>	<u>Texaco</u>	<u>Paul Priebe</u>	<u>Texaco</u>	<u>4-28-93</u>	<u>10:30</u>

Additional Comments

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL



MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510) 372-3700 • Fax (510) 372-6955

624880195\1718\012533

Texaco Environmental Services
108 Cutting Blvd.
Richmond, CA 94804
Attn: Paul Priebe
Project Manager

Date Sampled: 03-15-93
Date Received: 03-15-93
Date Analyzed: 03-29-93

Sample Number
033252

Sample Description
Texaco - Oakland
2225 Telegraph
BT-2 WATER

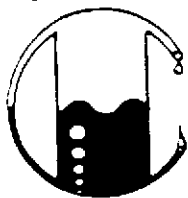
ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	1,400
Benzene	0.5	320
Toluene	0.5	6.7
Xylenes	0.5	200
Ethylbenzene	0.5	0.8

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS


Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

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Phone (510) 372-3700 • Fax (510) 372-6955

624880195\1718\012533

Texaco Environmental Services
108 Cutting Blvd.
Richmond, CA 94804
Attn: Paul Priebe
Project Manager

Date Sampled: 03-15-93
Date Received: 03-15-93
Date Analyzed: 03-29-93

Sample Number

033253

Sample Description

Texaco - Oakland
2225 Telegraph
INF WATER

ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	17,000
Benzene	0.5	5,600
Toluene	0.5	1,900
Xylenes	0.5	1,300
Ethylbenzene	0.5	2.2

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 602 used for BTX distinction.
(ppb) = ($\mu\text{g/L}$)

MOBILE CHEM LABS


Ronald G. Evans
Lab Director



2225 Telegraph Ave
Oakland CA
Lat 624 88 0145

57648

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client Tobacco
Address 108 Collins Blvd
Richmond CA 94801
Phone 510 236 3541

Report To: Ed Paul Priebe
Bill To: Tobacco
P.O. # / Billing Reference _____
Project Name / No. _____

Pace Client No. _____
Pace Project Manager _____
Pace Project No. _____
*Requested Due Date _____

Sampled By (PRINT): Paul Priebe
Sample Signature: PJ Pd Date Sampled: 3.15.93

NO. OF CONTAINERS	PRESERVATIVES				ANALYSES REQUEST
	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA HCL	
2				X	BT ex TPAC
2				X	

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	REMARKS
1	BT-2	8:25	H ₂ O		NO ICE NO head SPACE
2	INF	8:30	V		
3					
4					
5					
6					
7					
8					

COOLER NO.	BAILERS	SHIPMENT METHOD	RELINQUISHED BY: AFFILIATION	ACCEPTED BY: AFFILIATION	DATE	TIME
		OUT DATE RETURNED DATE	<u>PJ Pd Tobacco</u>	<u>WACHELINE</u>	<u>3/15/93</u>	<u>10:00</u>

Additional Comments

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

MAY 12 1993

REPORT OF LABORATORY ANALYSIS

May 12, 1993

Mr. Paul Priebe
Texaco Environmental
108 Cutting Blvd.
Richmond, CA 94804

RE: PACE Project No. 430505.502
Client Reference: 2225 Telegraph Ave., Oakland, CA

Dear Mr. Priebe:

Enclosed is the report of laboratory analyses for samples received
May 05, 1993.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free
to contact us.

Sincerely,

Stephanie Matzo
Stephanie Matzo
Project Manager

Enclosures

cc: RESNA
~



REPORT OF LABORATORY ANALYSIS

Texaco Environmental
108 Cutting Blvd.
Richmond, CA 94804

May 12, 1993
PACE Project Number: 430505502

Attn: Mr. Paul Priebe

Client Reference: 2225 Telegraph Ave., Oakland, CA

PACE Sample Number:
Date Collected:
Date Received:
Client Sample ID:

70 0063507
05/04/93
05/05/93
Eff

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	05/07/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	05/07/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	05/07/93
Benzene	ug/L	0.5	ND	05/07/93
Toluene	ug/L	0.5	ND	05/07/93
Ethylbenzene	ug/L	0.5	ND	05/07/93
Xylenes, Total	ug/L	0.5	ND	05/07/93

11 Digital Drive
Novato, CA 94949
TEL: 415-883-6100
FAX: 415-883-2673

Offices Serving: Minneapolis, Minnesota
Tampa, Florida
Iowa City, Iowa
San Francisco, California
Kansas City, Missouri
Los Angeles, California

Charlotte, North Carolina
Asheville, North Carolina
New York, New York
Pittsburgh, Pennsylvania
Denver, Colorado

An Equal Opportunity Employer



REPORT OF LABORATORY ANALYSIS

Mr. Paul Priebe
Page 2

May 12, 1993
PACE Project Number: 430505502

Client Reference: 2225 Telegraph Ave., Oakland, CA

PACE Sample Number:
Date Collected:
Date Received:
Client Sample ID:
Parameter

70 0063515
05/04/93
05/05/93
BT2

Units MDL DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):				05/07/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	05/07/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):				
Benzene	ug/L	0.5	ND	05/07/93
Toluene	ug/L	0.5	ND	05/07/93
Ethylbenzene	ug/L	0.5	ND	05/07/93
Xylenes, Total	ug/L	0.5	ND	05/07/93



REPORT OF LABORATORY ANALYSIS

Mr. Paul Priebe
Page 3

May 12, 1993
PACE Project Number: 430505502

Client Reference: 2225 Telegraph Ave., Oakland, CA

PACE Sample Number: 70 0063523
Date Collected: 05/04/93
Date Received: 05/05, 93
Client Sample ID: Inf

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	05/07/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	500	10000	05/07/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	05/07/93
Benzene	ug/L	5.0	1300	05/07/93
Toluene	ug/L	5.0	320	05/07/93
Ethylbenzene	ug/L	5.0	ND	05/07/93
Xylenes, Total	ug/L	5.0	1900	05/07/93

These data have been reviewed and are approved for release.


Darrell C. Cain
Regional Director



REPORT OF LABORATORY ANALYSIS

Mr. Paul Priebe
Page 4

FOOTNOTES
for pages 1 through 3

May 12, 1993
PACE Project Number: 430505502

Client Reference: 2225 Telegraph Ave., Oakland, CA

MDL Method Detection Limit
ND Not detected at or above the MDL.



REPORT OF LABORATORY ANALYSIS

Mr. Paul Priebe
Page 5

QUALITY CONTROL DATA

May 12, 1993
PACE Project Number: 430505502

Client Reference: 2225 Telegraph Ave., Oakland, CA

PURGEABLE FUELS AND AROMATICS

Batch: 70 21028
Samples: 70 0063507, 70 0063515, 70 0063523

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	1000	98%	103%	4%
Benzene	ug/L	0.5	40.0	98%	103%	4%
Toluene	ug/L	0.5	40.0	97%	112%	14%
Ethylbenzene	ug/L	0.5	40.0	100%	103%	2%
Xylenes, Total	ug/L	0.5	120	98%	103%	4%



REPORT OF LABORATORY ANALYSIS

Mr. Paul Priebe
Page 6

FOOTNOTES
for page 5

May 12, 1993
PACE Project Number: 430505502

Client Reference: 2225 Telegraph Ave., Oakland, CA

MDL Method Detection Limit
ND Not detected at or above the MDL.
RPD Relative Percent Difference



2225 Telegraph Ave
Oakland CA
Loc # 824880195

58086

**CHAIN-OF-CUSTODY RECORD
Analytical Request**

Client Texaco Environmental
Address 108 Cutting Blvd
Richmond CA 94804
Phone 510 236 3541

Report To Paul Priebe
Bill To Texaco
P.O. # / Billing Reference _____
Project Name / No. _____

Pace Client No. _____
Pace Project Manager _____
Pace Project No. 430505502
Requested Due Date: _____

Sampled By (PRINT): Paul Priebe
Sampler Signature Paul Priebe Date Sampled 5-4-93

NO. OF CONTAINERS	PRESERVATIVES				ANALYSES REQUEST
	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA	
				<u>HCL</u>	<u>BTEX TPHG</u>
				<u>ICE</u>	

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.
1	<u>EFF</u>	<u>1440</u>	<u>H₂O</u>	<u>6350.7</u>
2	<u>BTZ</u>	<u>1445</u>	<u>↓</u>	<u>51.5</u>
3	<u>INF</u>	<u>1450</u>	<u>↓</u>	<u>52.3</u>
4				
5				
6				
7				
8				

REMARKS

5 Day Turn
Around
ASAP
Send Copy to
Paul Priebe
4504 Hopper Ln
San Jose CA 951

COOLER NOS	BAILERS	SHIPMENT METHOD	ITEM NUMBER	RELINQUISHED BY AFFILIATION	ACCEPTED BY AFFILIATION	DATE	TIME
OUT DATE	RETURNED DATE						
<u>9/0002</u>				<u>Paul Priebe Texaco</u>	<u>Elmer H. [unclear]</u>	<u>5/5/93</u>	<u>1010</u>

SEE REVERSE SIDE FOR INSTRUCTIONS



MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
 Phone: (510) 372-3700 • Fax: (510) 372-6955

624880195\1342\012673

Texaco Environmental Services
 106 Cutting Blvd.
 Richmond, CA 94804
 Attn: Paul Friebe
 Project Manager

Date Sampled: 05-14-93
 Date Received: 05-14-93
 Date Analyzed: 05-19-93

Sample Number

Q53166

Sample Description

Texaco - Oakland
 2225 Telegraph Ave.
 INF - WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	130
Benzene	0.5	0.9
Toluene	0.5	<0.5
Xylenes	0.5	12
Ethylbenzene	0.5	0.9

QA/QC: Spike Recovery is 104%
 Duplicate Deviation is 3.9%

Note: Analysis was performed using EPA methods 8030 and TPH
 LUFT with method 602 used for BTEX distinction.
 (ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
 Lab Director



MOBILE CHEM LABS INC.

5019 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510) 372-3700 • Fax (510) 372-6955

624880195\1342\012673

Texaco Environmental Services
106 Cutting Blvd.
Richmond, CA 94804
Attn: Paul Priebe
Project Manager

Date Sampled: 05-14-93
Date Received: 05-14-93
Date Analyzed: 05-19-93

Sample Number

053165

Sample Description

Texaco - Oakland
2225 Telegraph Ave.
BP-7 WATER

ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

Lab # CA
K24880195

Client: *California Environmental*
Address: *109 Wilshire Blvd*
Los Angeles CA 90017
Phone: *213 351 1111*

Report to: *Paul Priebe*
Bill to: *Texas*
P.O. # / Billing Reference:
Project Name: *Map 2*

CHAIN OF CUSTODY IN
Analytical Request
Case Client No:
Case Project Manager:
Case Project No.:
Included This Item:

COLLECTOR NO.	CONTAINER NO.	DATE TAKEN	NO. OF CONTAINERS	PRESERVATION				REMARKS
				UNPRESERVED	WACC	WAG	WGA	
1	BT-2	12/16/0	2					
2	TNF	130 ↓	2			X	X	
3						X	X	
4								
5								
6								
7								
8								

APPROVED BY: *[Signature]* DATE: *5/19/10*



MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510) 372-3700 • Fax (510) 372-6955

624880195\1342\012705

Texaco Environmental Services
108 Cutting Blvd.
Richmond, CA 94804
Attn: Paul Priebe
Project Manager

Date Sampled: 06-01-93
Date Received: 06-02-93
Date Analyzed: 06-03-93

Sample Number

063001

Sample Description

Texaco - Oakland
2225 Telegraph Ave.
BT-2 WATER

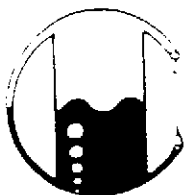
ANALYSIS

	Detection Limit	Sample Results
	-----	-----
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510) 372-3700 • Fax (510) 372-6955

624880195\1342\012705

Texaco Environmental Services
108 Cutting Blvd.
Richmond, CA 94804
Attn: Paul Priebe
Project Manager

Date Sampled: 06-01-93
Date Received: 06-02-93
Date Analyzed: 06-03-93

Sample Number

063002

Sample Description

Texaco - Oakland
2225 Telegraph Ave.
INF WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	210
Benzene	0.5	4.0
Toluene	0.5	0.7
Xylenes	0.5	29
Ethylbenzene	0.5	0.9

QA/QC: Duplicate Deviation is 4.7%

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



2225 Telegraph Ave
Oakland CA

58091

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client Texaco Environmental
Address 108 Collins Blvd
Richmond CA
Phone 510 236 3541

Loc# 624880195

Report To: Paul Prieb
Bill To: Texaco
P.O. # / Billing Reference _____
Project Name / No. _____

Pace Client No. _____
Pace Project Manager _____
Pace Project No. _____
Requested Due Date _____

Sampled By (PRINT) Paul Prieb
Sampler Signature [Signature] Date Sampled 6-1-93

NO. OF CONTAINERS	PRESERVATIVES					ANALYSES REQUEST
	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA HCL	Ice	
						<u>BTX IPA C</u>

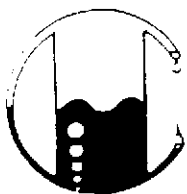
ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES	ANALYSES REQUEST	REMARKS
1	<u>BT-2</u>	<u>8:00</u>	<u>H₂O</u>		<u>2</u>	<u>XX</u>	<u>XX</u>	<u>5 Day Turnaround</u> <u>Send Copy ASAP</u> <u>to</u> <u>Paul Prieb</u> <u>4504 Heather Lane</u> <u>San Jose CA 95128</u>
2	<u>INF</u>	<u>8:05</u>	<u>↓</u>		<u>2</u>	<u>XX</u>	<u>XX</u>	
3								
4								
5								
6								
7								
8								

COOLER NOS.	BAILERS	SHIPMENT METHOD	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
		OUT / DATE RETURNED / DATE		<u>[Signature] Texaco</u>	<u>DAVHEVIVE</u>	<u>6/2/93</u>	<u>11:20</u>

Additional Comments

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS



MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510) 372-3700 • Fax (510) 372-6955

624880195\1718\012736

Texaco Environmental Services
108 Cutting Blvd.
Richmond, CA 94804
Attn: Paul Priebe
Project Manager

Date Sampled: 06-14-93
Date Received: 06-14-93
Date Analyzed: 06-18-93

Sample Number

063144

Sample Description

Texaco - Oakland
2225 Telegraph Ave.
BT-2 WATER

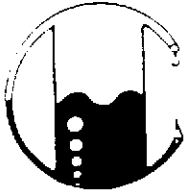
ANALYSIS

	Detection Limit	Sample Results
	----- ppb	----- ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510) 372-3700 • Fax (510) 372-6955

624880195\1718\012736

Texaco Environmental Services
108 Cutting Blvd.
Richmond, CA 94804
Attn: Paul Priebe
Project Manager

Date Sampled: 06-14-93
Date Received: 06-14-93
Date Analyzed: 06-18-93

Sample Number

063145

Sample Description

Texaco - Oakland
2225 Telegraph Ave.
INF WATER

ANALYSIS

	Detection Limit ----- ppb	Sample Results ----- ppb
Total Petroleum Hydrocarbons as Gasoline	50	120
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	31
Ethylbenzene	0.5	0.6

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



2225 Telegraph Ave
Oakland CA 8

58092

Loc# 624880195

CHAIN-OF-CUSTODY RECORD
Analytical Request

Texaco Environmental
108 Cutting Blvd
Woodland CA 94804
510 236 3541

Report To: Paul Priebe

Pace Client No

Bill To: Texaco

Pace Project Manager

PO # / Billing Reference

Pace Project No

Project Name / No

*Requested Due Date:

By (PRINT)

Paul Priebe

Signature
PP

Date Sampled

6-14-93

NO. OF CONTAINERS

PRESERVATIVES

UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA HCL	ICE
			X X	X
			X X	X

ANALYSES REQUEST

BTEXT PNG

REMARKS

5 Day Turnaround
Send copy ASAP
to
Paul Priebe
4504 Heppner Ln
San Jose CA 95134

SAMPLE DESCRIPTION TIME MATRIX PACE NO.

BT-2	7:55	H ₂ O	
INF	8:00	↓	

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT / DATE	RETURNED / DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
					PP / Texaco	BRUNSCHELER (ICE)	6-14-93	12:40pm

Additional Comments



MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 - Martinez, CA 94853
 Phone (510) 372-3700 • Fax (510) 372-4255

624680135\1718\012778

Taxaco Environmental Services
 106 Cutting Blvd.
 Richmond, CA 94804
 Attn: Paul Priebe
 Project Manager

Date Sampled: 06-29-93
 Date Received: 06-30-93
 Date Analyzed: 07-06-93

Sample Number

063423

Sample Description

Taxaco - Oakland
 2225 Telegraph Ave.
 Inf WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	300
Benzene	0.5	37
Toluene	0.5	1.5
Xylenes	0.5	48
Ethylbenzene	0.5	<0.5

Note: Analysis was performed using EPA Methods 5030 and TPH
 LUFT with method 602 used for BTX distinction.
 (ppb) = (µg/L).

MOBILE CHEM LABS

Ronald G. Evans
 for
 Ronald G. Evans
 Lab Director



MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510) 372-3700 • Fax (510) 372-8955

624890195\1718\012778

Texaco Environmental Services
106 Cutting Blvd.
Richmond, CA 94804
Attn: Paul Priebe
Project Manager

Date Sampled: 06-29-93
Date Received: 06-30-93
Date Analyzed: 07-06-93

Sample Number

063422

Sample Description

Texaco - Oakland
2225 Telegraph Ave.
BT-2 WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note: Analysis was performed using EPA methods 8030 and TBB LUBT with method 601 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

J. G. Evans
for
Ronald G. Evans
Lab Director

063422
 624880195

58083

Client: Texas Commercial
 Address: 108 Collins Blvd
Richmond, CA 94804
 Phone: 510 236 7540

Report to: Paul Pruebe
 By: Texas
 PG # / Billing Reference:
 Agent Name:

CHAIN OF CUSTODY REQ
 Analytical Request
 Page Count No:
 Page Project Manager:
 Page Project No:
 Page Project Date:

Sample ID: Paul Pruebe
 Date Submitted: 6-29-93

NO. OF CONTAINERS	UNAPPROVED	UNAPPROVED	UNAPPROVED	UNAPPROVED	UNAPPROVED
1	BT	444	110	110	
2	INF	423	110	110	
3					
4					
5					
6					
7					
8					

UNAPPROVED	UNAPPROVED	UNAPPROVED	UNAPPROVED	UNAPPROVED	UNAPPROVED
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X

REMARKS
 5 Day Turn Aro.
 Send Copy R.
 to
 Paul Pruebe
 4504 Alameda
 San Jose, CA 95

ORDERED BY: Paul Pruebe ANALYST: David Court DATE: 6-29-93
 APPROVED BY: Paul Pruebe DATE: 6-29-93

Additional Comments

ATTACHMENT C
FACILITY INSPECTION LOGS

FACILITY INSPECTION LOG
Groundwater Treatment System
2225 Telegraph Ave.
Oakland, California

Date	Time	Discharge Flow Totalizer	Activity/Observations	Operator Initials	Company or Agency
9/15/92	001				
9/15/92	0940	364110	OPENED BYPASS VALVES FROM TANK GENERAL SITE CLEANUP	DCM	NLA
1-27-93	3:40	036473 ⁰ / ₉	Started P&T System Sampled INF EFF BT2	PGP	TERRA
			Prained Water From Vaults and Secondary Containment		
2-8-93	9:15	037715 ⁰ / ₀	Adjust Flow Rate Take Tank INF and BT2 samples	PGP	TERRA
3-1-93	9:00	040005 ⁰ / ₀	Tank EFF, BT2 and Inf samples Cleaned Filter tank removed	PGP	TERRA
3-15-93	8:35	041047 ⁰ / ₆	Sampled BT2 and Inf Cleaned filter used Aircomp	PGP	TERRA
3-24-93	8:25	041631 ⁰ / ₁	Drained Secondary Containment H2O into tank	PGP	TERRA
			R1 0329431 R2 0578127		
4-15-93	12:15	041640 ⁴ / ₄	Change out Carbon (Cleaned) Filter Took EFF, BT2, and INF	PGP	TERRA
		007815 ⁰ / ₀	H2O samples Replaced Flow totalizer if starts <u>RTI 335104 R2 530037</u>		
4-28-93	10:00	008994 ⁶ / ₆	Sampled and BMSW (Black Mountain Spring Water) EFF BT2 and	PGP	TERRA
			INF H2O samples Shut Down System got HRT on 4-15-93		
			EFF Sample with use a brand new container R1 343542 R2 539715		
5-4-93	2:30	009008 ⁰ / ₅	Change out Carbon Started System Sampled EFF BT2 and	PGP	TERRA

INF H2O Samples
R-1 343565
R-2 539918

FACILITY INSPECTION LOG
Groundwater Treatment System
2225 Telegraph Ave.
Oakland, California

Date	Time	Discharge Flow Totalizer	Activity/Observations	Operator Initials	Company or Agency
5 10 93	7:55	009511 ⁰ / ₈	Janetor Smith EB MUD Took Eff H ₂ O Sample	PGP	TEXACO / EBMUD
5 14 93	10:00	009856 ⁰ / ₈	Took BT-2 and INF Sample CLEANED Filter And Compond RT 350355 R2-547530	PGP	TES.
6-1-93	8:00	010991 ⁰ / ₈	Took BT-2 and INF Sample CLEANED Filter	PGP	TES
6-4-93	8:20	011882 ⁴ / ₈	Took BT-2 and INF Sample CLEANED Filter Drained Air Comp.	PGP	TES
			R2-572440 R1-362212	PGP	TES
6 29 93	17:40	012634 ⁰ / ₉	Sampled BT-2 and INF CLEANED Filter	PGP	TES

ATTACHMENT D
CARBON BREAKTHROUGH CALCULATIONS

Self-Monitoring Report for Second Quarter 1993
Texaco, 2225 Telegraph Avenue, Oakland, California

July 14, 1993
62073.02

CARBON BREAKTHROUGH CALCULATIONS

Design Criteria

Volume of wastewater treated = 48,292 gallons
 Days of operation = 79 days (March 30, 1993 to June 30, 1993, excluding 04/15/93 to 04/28/93)
 Avg. Influent TPHg Conc. = ~5,000 ppb (based on cumulative results of laboratory analyses of influent water samples (Table 1))
 Carbon Canisters = Three, 200-pound activated liquid-phase carbon canisters

Assumptions

- 1) Based on manufacturer's specifications on liquid-phase carbon, carbon has an adsorption capacity of:

5 pounds (lbs) TPHg/100 lbs carbon = 10 lbs TPHg/200-lb carbon canister

- 2) Breakthrough is said to have occurred when the first reported detectable levels of hydrocarbons are detected at the sample port downstream of the second carbon (CARB-BT2/BT2).

Breakthrough Calculations

The average amount of TPHg in pounds per gallon, before activated carbon treatment, is calculated below:

$$\frac{5,000 \mu\text{grams TPHg}}{1 \text{ t H}_2\text{O}} \cdot \frac{1 \text{ gram}}{1,000,000 \mu\text{grams}} \cdot \frac{1 \text{ lb}}{454 \text{ grams}} \cdot \frac{3.785 \text{ t}}{1 \text{ gallon}} = \frac{4.2 \times 10^{-5} \text{ lbs TPHg}}{1 \text{ gallon H}_2\text{O}}$$

The amount of TPHg in pounds to be treated during this 79 day period on a pound per day basis (lb/day), before activated carbon treatment is calculated below:

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Texaco, 2225 Telegraph Avenue, Oakland, California

July 14, 1993
62073.02

$$\frac{4.2 \times 10^{-5} \text{ lbs TPH}}{1 \text{ gallon } H_2O} \frac{48,292 \text{ gallons}}{79 \text{ days}} = \frac{0.026 \text{ lbs TPH}}{1 \text{ day}}$$

Carbon breakthrough rate after flow through two carbon canisters is calculated as follows:

$$\frac{5 \text{ lb TPHg}}{100 \text{ lbs Carbon}} \frac{200 \text{ lb Carbon}}{\text{One Canisters}} \frac{1 \text{ day}}{0.026 \text{ lb TPHg}} = \frac{384 \text{ days}}{\text{One Canister}}$$

Thus at the design criteria detailed above, liquid-phase carbon changeout will be required approximately once every year. Previous self-monitoring data collected on the system have shown that carbon breakthrough occurs once every 7 to 8 months.