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January 27, 1997

**ENV - STUDIES, SURVEYS & REPORTS**

**Former Texaco Service Station  
2225 Telegraph Avenue, Oakland, CA**

Mr. Raymond Maxwell  
East Bay Municipal Utility District  
Source Control Division, Mail Slot #702  
P.O. Box 24055  
375 11th Street  
Oakland, California 94623-1055

Dear Mr. Maxwell:

Enclosed is the *Semi-Annual Self-Monitoring Report Summary* for the subject site.

Regarding the above-referenced report,

I certify under penalty of law that, to the best of my knowledge, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information 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 knowing violations.

Any questions regarding this report may be directed to me at (510) 236-9139.

Best Regards,  
Texaco Refining and Marketing, Inc.

Karen E. Petryna, P.E.  
Project Manager  
Environment Health & Safety

KEP:eg  
P:\COVERS\KEPCVRS\2225SEMI.CVR

ENVIRONMENTAL  
PROTECTION  
57 JAN 30 AM 8:51

January 27, 1997

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KEP:eg

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Enclosure

cc: Mr. Thomas Peacock  
Alameda County  
Hazardous Materials  
1131 Harbor Bay Pky  
Alameda. CA 94502-6577

Mr. Sarkis Soghomonian (w/o enclosure)  
Kaprealian Engineering Inc.  
2401 Stanwell Drive, Suite 400  
Concord, CA 94520

Mr. Michael Faber - Exxon

RRZielinski (w/o enclosure)  
RAOFile-UCPFile (w/enclosure)

PR RD

**FORMER TEXACO SERVICE STATION  
2225 TELEGRAPH AVENUE  
OAKLAND, CALIFORNIA**

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**PERMIT INFORMATION**

- EBMUD Permit Number: 502-27801
- Sampling Frequency: Quarterly
- Parameters Reported: TPH-g & BTEX
- Reporting Period: 7/1/96 - 12/31/96
- Report Due: 1/31/97

**PERMITTEE**

Texaco Refining & Marketing, Inc.  
108 Cutting Boulevard  
Richmond, CA 94804

Contact: Karen E. Petryna, P.E.  
Phone: (510) 236-9139

**CONSULTANT**

Kaprealian Engineering, Inc.  
2401 Stanwell Drive, Suite 400  
Concord, CA 94520

Contact: Sarkis A. Soghomonian  
Phone: (510) 602-5106

**FORMER TEXACO SERVICE STATION  
2225 TELEGRAPH AVENUE  
OAKLAND, CALIFORNIA  
EBMUD Permit No: 502-27801**

**GROUND WATER DISCHARGE DATA**

Sample I.D.	Sample Date	Flow Rate (gpm)	Totalizer Readings (gallons)	Cumulative Volume (gallons)
Effluent	8/22/96	NA	706,633	706,633
	8/6/96	0.30	705,152	705,152
	7/17/96	0.30	703,655	703,655
	7/2/96	0.50	701,140	701,140

FLOW RATE FOR THIS REPORTING PERIOD: \_\_\_\_\_ 0.02 gpm

TOTAL VOLUME OF GROUND WATER DISCHARGED DURING THIS REPORTING PERIOD: \_\_\_\_\_ 4,012 gallons

**GROUND WATER SAMPLING RESULTS**

Sample I.D.	Sample Date	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)
Influent	7/17/96	620	1.8	0.46	<0.5	15
Btn Carbons	7/17/96	<50	<0.5	<0.5	<0.5	<0.5
Effluent	7/17/96	<50	<0.5	<0.5	<0.5	<0.5
DISCHARGE LIMITS		N/A	5	7	5	7

TPH-g = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE  
 < ( ) = BELOW DETECTION LIMIT  
 (ug/L) = MICROGRAMS PER LITER  
 gpm = GALLONS PER MINUTE  
 N/A = NOT APPLICABLE

LABORATORY RESULTS SHEETS  
AND  
FIELD DATA SHEETS

801 Western Avenue  
 Glendale, CA 91201  
 818/247-5737  
 Fax: 818/247-9797

LOG NO: G96-07-456

Received: 17 JUL 96

Mailed: **JUL 25 1996**

Mr. John Giddings  
 Kaprealian Engineering, Inc.  
 2401 Stanwell Drive, Suite 400  
 Concord, California 94520

Purchase Order: 94-1446346+4370

Requisition: 624880195  
 Project: FKEP1015L

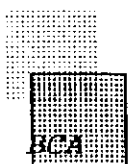
REPORT OF ANALYTICAL RESULTS

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AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)								
			Date Analyzed Date	Dilution Factor Times	TPH-g ug/L	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylenes Isomers ug/L	Carbon Range
RDL				1	50	0.5	0.5	0.5	0.5	
1*Inf	07/17/96	07/18/96		1	620	1.8	0.46	<0.5	15	C6-C12
2*Eff	07/17/96	07/18/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
3*Break-Through	07/17/96	07/18/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12

Karen Petryna  
 2225 Telegraph Ave., Oakland  
 Alameda County



AQUEOUS SAMPLES

	----- METHOD BLANK -----			----- LAB CONTROL -----								----- MATRIX QC -----					
	UNITS	RESULT	RDL FLG	LCS %REC FLG	LCS %REC FLG	LCS LCL	LCS UCL	RPD RPD	RPD UCL	RPD FLG	MS %REC FLG	MS %REC FLG	MS LCL	MS UCL	RPD RPD	RPD UCL	RPD FLG
Batch: GAS*96596 Method: 8015M.TX - Modified 8015																	
Benzene	ug/L	0	0.5 -	105 -	- -	76	141	- -	- -	- -	110 -	105 -	71	125	5	29	-
Toluene	ug/L	0	0.5 -	101 -	- -	73	122	- -	- -	- -	101 -	98 -	63	126	4	33	-
Ethylbenzene	ug/L	0	0.5 -	100 -	- -	72	133	- -	- -	- -	99 -	98 -	65	126	0	34	-
Total Xylene Isomers	ug/L	0	0.5 -	103 -	- -	64	117	- -	- -	- -	99 -	100 -	69	128	1	35	-
TPH (Gasoline Range)	ug/L	0	50 -	98 -	- -	64	152	- -	- -	- -	105 -	105 -	53	166	0	21	-
[a,a,a-Trifluorotoluene]	Percent	101	- -	116 -	- -	75	117	- -	- -	- -	113 -	117 -	78	126	-	-	-





AMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE.....	METHOD.....	EQUIP.	BATCH..	ID.NO
			ANALYZED				
607456*1	Inf	GAS.BTX.TESNC	07.18.96	8015M.TX	536-23	96596	8171
607456*2	Eff	GAS.BTX.TESNC	07.18.96	8015M.TX	536-23	96596	8171
607456*3	Break-Through	GAS.BTX.TESNC	07.18.96	8015M.TX	536-23	96596	8171
607456*4	Inf	GAS.BTX.TES.VA	07.18.96	8015M	536-36	966101	8171
607456*5	Eff	GAS.BTX.TES.VA	07.18.96	8015M	536-36	966101	8171

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Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.

ID.NO = BC Analytical employee identification number of analyst.

SURROGATE RECOVERIES :  
BC ANALYTICAL : GLEN LAB : 18:06:00 25 JUL 1996 - P. 1 :

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METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9607456*1							
8015M.TX	a,a,a-Trifluorotoluene	Re96596	07/18/96	52.4	50.0	105	
9607456*2							
8015M.TX	a,a,a-Trifluorotoluene	Re96596	07/18/96	50.8	50.0	102	
9607456*3							
8015M.TX	a,a,a-Trifluorotoluene	Re96596	07/18/96	51.5	50.0	103	
9607456*4							
8015M	a,a,a-Trifluorotoluene	Re966101	07/18/96	62.3	50.0	125	
9607456*5							
8015M	a,a,a-Trifluorotoluene	Re966101	07/18/96	48.7	50.0	97	

SURROGATE RECOVERIES :

BC ANALYTICAL : GLEN LAB : 18:06:05 25 JUL 1996 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
607455*3*R1							
015M.TXa	a,a,a-Trifluorotoluene	Re96596	07/18/96	51.2	50.0	102	
607455*3*S1							
015M.TXa	a,a,a-Trifluorotoluene	Re96596	07/18/96	56.4	50.0	113	
607455*3*S2							
015M.TXa	a,a,a-Trifluorotoluene	Re96596	07/18/96	58.3	50.0	117	
607455*3*T							
015M.TXa	a,a,a-Trifluorotoluene	Re96596	07/18/96	50.0	50.0	100	
6071488*1*MB							
015M.TXa	a,a,a-Trifluorotoluene	Re96596	07/18/96	50.4	50.0	101	
6071500*1*MB							
015M	a,a,a-Trifluorotoluene	Re966101	07/18/96	46.4	50.0	93	
6072520*1*LC							
015M.TXa	a,a,a-Trifluorotoluene	Re96596	07/18/96	57.9	50.0	116	
6072520*1*LT							
015M.TXa	a,a,a-Trifluorotoluene	Re96596	07/18/96	50.0	50.0	100	
6072542*1*LC							
015M	a,a,a-Trifluorotoluene	Re966101	07/18/96	49.7	50.0	99	
6072542*1*LT							
015M	a,a,a-Trifluorotoluene	Re966101	07/18/96	50.0	50.0	100	
6072543*1*LC							
015M	a,a,a-Trifluorotoluene	Re966101	07/19/96	51.5	50.0	103	
6072543*1*LT							
015M	a,a,a-Trifluorotoluene	Re966101	07/19/96	50.0	50.0	100	

CHAIN OF CUSTODY

SAMPLER		SITE NAME & ADDRESS							ANALYSES REQUESTED						TURN AROUND TIME:		
A. Giddens		Texaco (Oakland) 2775 Telegraph Ave.													Regular		
WITNESSING AGENCY		SAMPLE ID NO.	DATE	TIME	AIR	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	TPH-G	BTX-E					REMARKS
		Inf.	7/17/96		/				2		/	/	-1				69607456
		EFF	"		/				2		/	/	-2				
		Break-Through	"		/				2		/	/	-3				
		Inf.			/				1		/	/	-4				
		EFF			/				1		/	/	-5				

Relinquished by: (Signature) 7/17/96	Date/Time 7/17 16:15	Received by: (Signature) Amm...
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature) Amm...	Date/Time 7/17 16:55	Received by: (Signature) Cardes...
Relinquished by: (Signature) Cardes...	Date/Time 7/17/96	Received by: (Signature) Sharon Malone

The following MUST BE completed by the laboratory accepting samples for analysis:

- Have all samples received for analysis been stored in ice?
- Will samples remain refrigerated until analyzed?
- Did any samples received for analysis have head space?
- Were samples in appropriate containers and properly packaged?

Signature \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

FORMER TEXACO/CURRENT EXXON  
2225 TELEGRAPH AVENUE  
OAKLAND, CALIFORNIA

NAME	J. G. Adley
DATE	8-27-96
TIME	12:00

### GROUND WATER EXTRACTION SYSTEM

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> UPON ARRIVAL, SYSTEM WAS             | ON / <input checked="" type="radio"/> OFF         |
| 2. <input checked="" type="checkbox"/> SECONDARY CONTAIN. FLOAT OPERATIONAL | <input checked="" type="radio"/> YES / NO         |
| 3. <input checked="" type="checkbox"/> EFFLUENT TOTALIZER                   | <input type="text" value="566"/> GALLONS 706633.0 |
| WELL R1 TOTALIZER   | <input type="text" value="016743"/> GALLONS       |
| WELL R2 TOTALIZER   | <input type="text" value="1060877"/> GALLONS      |
| 4. <input checked="" type="checkbox"/> EFFLUENT FLOW RATE                   | <input type="text" value="NA"/> GPM               |
| 5. <input checked="" type="checkbox"/> COMPRESSOR PRESSURE                  | <input type="text" value="8"/> PSI                |
| 6. <input checked="" type="checkbox"/> HOUR METER                           | <input type="text" value="4809"/>                 |
| 7. <input type="checkbox"/> SAMPLING CONDUCTED                              | YES / <input checked="" type="radio"/> NO         |
| 8. <input checked="" type="checkbox"/> AT DEPARTURE, SYSTEM WAS             | ON / <input checked="" type="radio"/> OFF         |

NOTES: System off due to compressor  
failure; checked for oil in compressor  
and it was full

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FORMER TEXACO/CURRENT EXXON  
 2225 TELEGRAPH AVENUE  
 OAKLAND, CALIFORNIA

NAME	J. Giddens
DATE	8-6-96
TIME	16:48

**GROUND WATER  
 EXTRACTION SYSTEM**

- 1.  UPON ARRIVAL, SYSTEM WAS (ON) / OFF
- 2.  SECONDARY CONTAIN. FLOAT OPERATIONAL (YES) / NO
- 3.  EFFLUENT TOTALIZER 705158 GALLONS  
     WELL R1 TOTALIZER 16674 GALLONS  
     WELL R2 TOTALIZER 1060737 GALLONS
- 4.  EFFLUENT FLOW RATE .3 GPM
- 5.  COMPRESSOR PRESSURE 180 PSI
- 6.  HOUR METER 4709
- 7.  SAMPLING CONDUCTED YES / (NO)
- 8.  AT DEPARTURE, SYSTEM WAS (ON) / OFF

NOTES:

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FORMER TEXACO/CURRENT EXXON  
2225 TELEGRAPH AVENUE  
OAKLAND, CALIFORNIA

NAME	J. Biddings
DATE	7-17-96
TIME	16:15

### GROUND WATER EXTRACTION SYSTEM

1.  UPON ARRIVAL, SYSTEM WAS  
ON / OFF
2.  SECONDARY CONTAIN. FLOAT OPERATIONAL  
YES / NO
3.  EFFLUENT TOTALIZER  
703659 GALLONS  
    WELL R1 TOTALIZER  
165927 GALLONS  
    WELL R2 TOTALIZER  
inaccessible GALLONS
4.  EFFLUENT FLOW RATE  
.3 GPM
5.  COMPRESSOR PRESSURE  
180 PSI
6.  HOUR METER  
4809
7.  SAMPLING CONDUCTED  
YES / NO
8.  AT DEPARTURE, SYSTEM WAS  
ON / OFF

NOTES:

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FORMER TEXACO/CURRENT EXXON  
2225 TELEGRAPH AVENUE  
OAKLAND, CALIFORNIA

NAME	<i>D. Giddins</i>
DATE	<i>2-2-96</i>
TIME	<i>10:30</i>

**GROUND WATER  
EXTRACTION SYSTEM**

1.  UPON ARRIVAL, SYSTEM WAS
2.  SECONDARY CONTAIN. FLOAT OPERATIONAL
3.  EFFLUENT TOTALIZER  
    WELL R1 TOTALIZER  
    WELL R2 TOTALIZER
4.  EFFLUENT FLOW RATE
5.  COMPRESSOR PRESSURE
6.  HOUR METER
7.  SAMPLING CONDUCTED
8.  AT DEPARTURE, SYSTEM WAS

ON / OFF

YES / NO

GALLONS

GALLONS

GALLONS

GPM

PSI

← not functioning

YES /  NO

ON / OFF

NOTES: Changed compressor oil + filter

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