EXXON COMPANY, U.S.A.
P. O. BOX 4032 • CONCORD, CALIFORNIA 94524-2032

MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER
SENIOR ENGINEER

(510) 246-8776
(510) 246-8798 FAX

ENVIRONMENTAL
PROTECTION

95 FEB 29 PM 2:44

February 28, 1995

VIA OVERNIGHT MAIL

Mr. Bill Meckel
East Bay Municipal Utilities District
Source Control Division
375 Eleventh Street, Mail Slot #702
Oakland, California 94607

#136

RE: Former Exxon RAS #7-3006
720 High Street, Oakland, CA
EBMUD Account #502-91101

Dear Mr. Meckel:

Attached for your review and comment is **Semi-Annual Discharge Report** for the above referenced site and account. This report, prepared by Environmental Resolutions, Inc. (ERI), of Novato, California, details operating data for the groundwater extraction and treatment system located at the site.

Currently, Exxon is awaiting authorization of a request made to your agency to modify the arsenic discharge limit. This request was made in an ERI letter dated January 24, 1995. The treatment system was recently completed at the site, and required significant time and budget resources to design, permit, and install the system. Exxon believes that all involved parties would benefit from its use, and therefore, would greatly appreciate receiving authorization in the near future, to allow a restart and continuous operation of the system.

If you have any questions or comments, please contact me at (510) 246-8776.

Sincerely,

Marla D. Guensler

Marla D. Guensler
Senior Engineer

MDG/mdg

enclosure: ERI Semi-Annual Discharge Report dated 2/21/95

cc: w/enclosure:
Mr. Barney Chan - Alameda County Health Department

w/o enclosure:
Mr. Keith Romstad - ERI

ENVIRONMENTAL RESOLUTIONS, INC.

February 21, 1995
ERI 2010-5

Ms. Marla D. Guensler
Exxon Company, U.S.A.
P.O. Box 4032
2300 Clayton Road
Concord, California 94524

Subject: Semi-Annual Sewer Discharge Report, December 1, 1994 through January 31, 1995, Former Exxon Service Station 7-3006, 720 High Street, Oakland, California.

Ms. Guensler:

At the request of Exxon Company, U.S.A. (Exxon) and in compliance with the sewer discharge permit issued by the East Bay Municipal Utilities District (EBMUD), Environmental Resolutions, Inc. (ERI) is submitting operating data for the groundwater extraction and treatment system at the subject site, for the period December 1, 1994 through January 31, 1995. The location of the site is shown on the Site Vicinity Map (Plate 1). The purpose of on-going remedial activities at the site is to remediate groundwater impacted by gasoline hydrocarbons.

GROUNDWATER EXTRACTION AND TREATMENT

The interim groundwater remediation system (GRS) is designed to treat dissolved gasoline hydrocarbons in groundwater extracted from the upper-water bearing zone beneath the site. Pneumatic pumps are installed in extraction wells RW-2 and RW-5 to recover groundwater from an interceptor trench. Specific site features are shown on the Generalized Site Plan (Plate 2). Subsurface and above-ground collection piping are used to transfer extracted groundwater to a holding tank. A transfer pump and PVC piping are used to direct the water stream from the holding tank through an air stripper, water filters, and subsequently through two 200-pound liquid-phase granular activated carbon (GAC) canisters connected in series. The treated groundwater is discharged to the sanitary sewer regulated by EBMUD.

Operation of the system began on January 9, 1995. On January 11, 1995 ERI shut down operation of the system because of arsenic levels detected in initial effluent samples. Between January 9, 1995 and January 31, 1995 the system recovered approximately 1,065 gallons of groundwater from beneath the site. The system was non-operational from January 11, 1995 to January 31, 1995. The system remains non-operational pending authorization of a request to modify the arsenic discharge limit (ERI, January 24, 1995).

Operational and performance data for the system are presented in Table 1. Copies of the Laboratory Analysis and Chain of Custody Records for water treatment system samples collected during system start-up are attached.

Groundwater samples were not collected during this reporting period. ERI conducted quarterly ground water sampling at the subject site on February 6, 1995. Results of monitoring well sampling will be presented in the next semi-annual report submitted for the subject site.

During the reporting period from December 1, 1994 to January 31, 1995 operational changes and maintenance activities performed include only those tasks required during system start-up. No off-hauling of hazardous waste has occurred.

SUMMARY

The groundwater extraction and treatment system has been non-operational from January 11, 1995 through present date due to arsenic levels detected in groundwater samples collected during system start-up. ERI has requested modification of arsenic level discharge limits through EBMUD. The system will remain non-operational, pending modification of arsenic discharge limits.

ERI recommends forwarding a copy of this report to:

Mr. Bill Meckel
East Bay Municipal Utilities District
Source Control Division
Mail Slot #702
P.O. Box 24055
Oakland, California 94623-1055

LIMITATIONS

This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This report has been prepared for Exxon Company, U.S.A and any reliance on this report by third parties shall be at such party's sole risk.

If you have any questions or comments regarding this report, please call (415) 382-9105.

Sincerely,
Environmental Resolutions, Inc.

Steven F. Weigel

Steven F. Weigel
Staff Engineer

Keith A. Romstad
Branch Manager

Attachments

Table 1: Operation and Performance Data for Groundwater Remediation System

Plate 1: Site Vicinity Map
Plate 2: Generalized Site Plan

Laboratory Analysis Reports and Chain of Custody Records

CERTIFICATION STATEMENT

I certify under penalty of law that 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 ~~gathering~~ who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, correct, and 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.

Marla D. Guensler
Exxon Company, U.S.A.
Senior Environmental Engineer

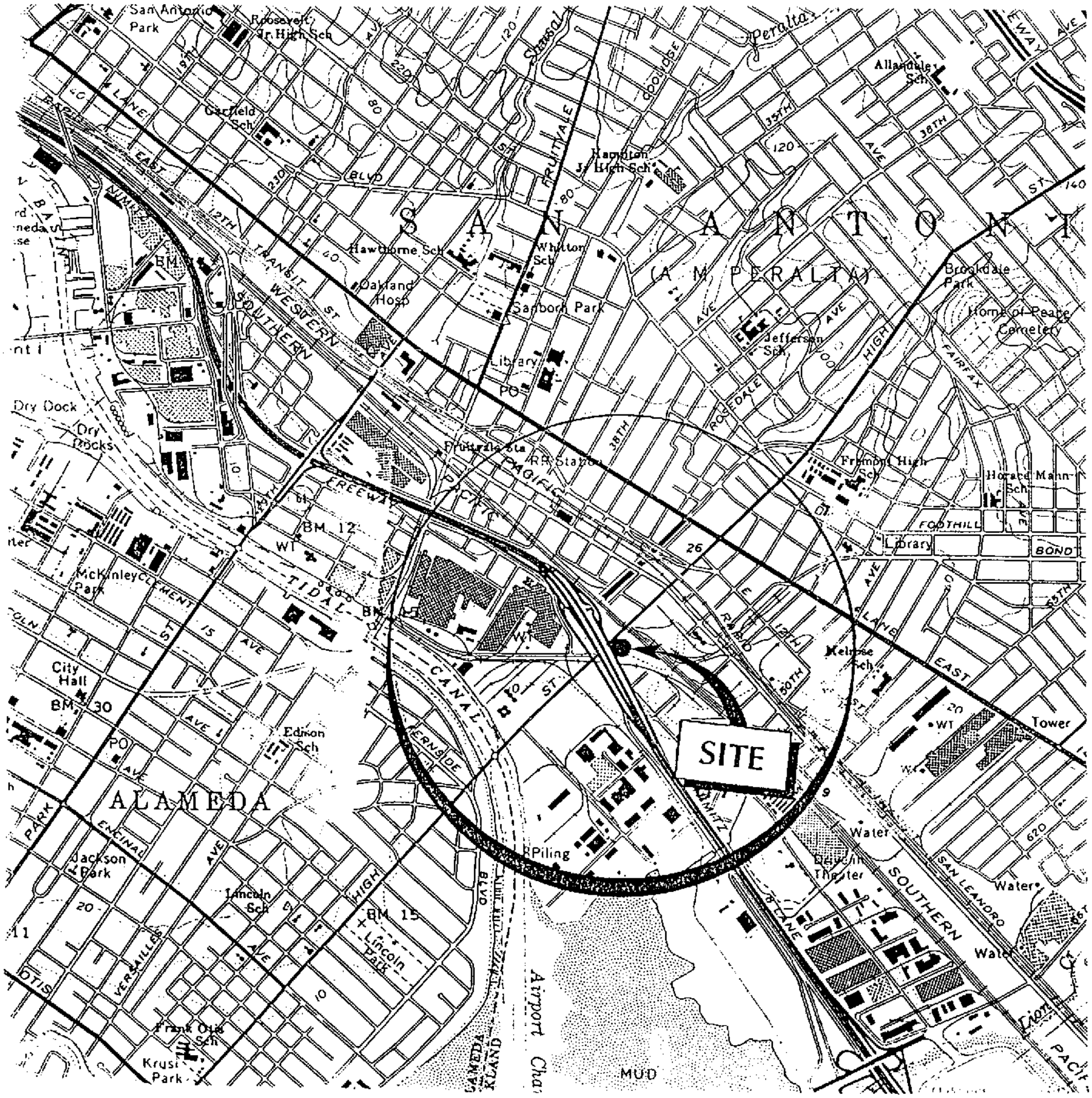
2010SAR.WQ1

TABLE 1
Operational and Performance Data
Groundwater Remediation System
Former Exxon Station 7-3006
720 High Street, Oakland, CA

Rev: 2-7-95

DATE	Flowmeter Reading gal	Flow since last reading gal	Cumulative Flow gal	Average Flowrate gpd	Sample ID	TPPHg ug/l	B ug/l	T ug/l	E ug/l	X ug/l	Arsenic mg/l
01/09/95	0	-	-	265	W-INF	3400	630	190	100	460	NA
					W-INT	<50	<0.50	<0.50	<0.50	<0.50	NA
					W-EFF	<50	<0.50	<0.50	<0.50	<0.50	NA
					W-EFF-ARS	NA	NA	NA	NA	NA	0.0077
01/10/95	-	-	-	265							
01/11/95	795	-	795	265							
01/12/95	1065	270	1065	270							
01/13/95	1065	0	1065	0							
01/23/95	1065	0	1065	0							
02/01/95	1065	0	1065	0							

NOTES:
<50 = Value is below laboratory detction limit of 50
<0.50 = Value is below laboratory detection limit of 0.50
gal = gallons
gpd = gallons per day
ug/l = micrograms per liter
mg/l = milligrams per liter



20100001

APPROXIMATE SCALE

0 1/2 1

MILE

N

Source: U.S.G.S. 7-5 minute topographic quadrangle map Oakland/San Leandro, California Photorevised 1980

ERI ENVIRONMENTAL RESOLUTIONS, INC.

PROJECT ERI 2010

SITE VICINITY MAP

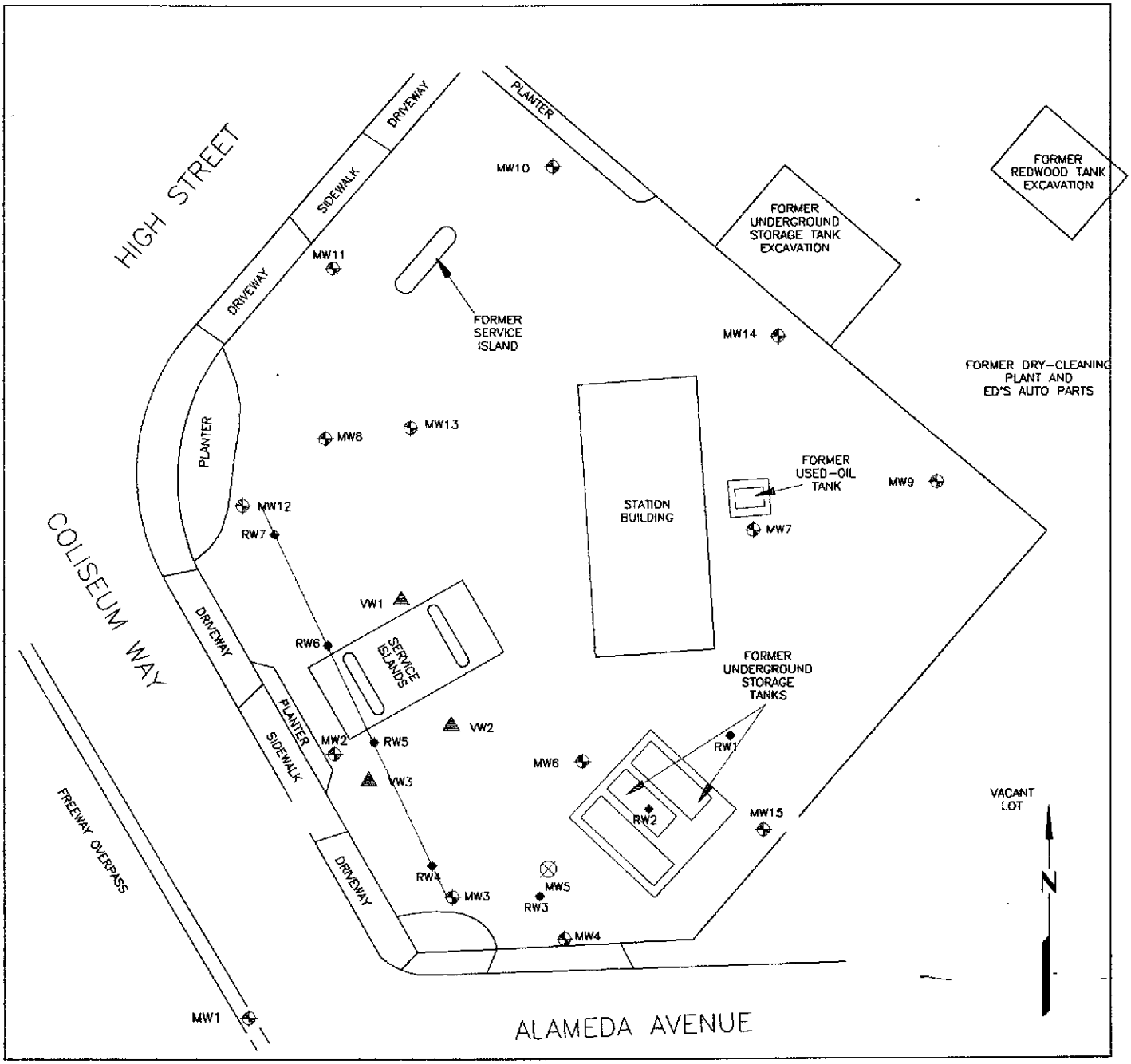
FORMER EXXON SERVICE STATION 7-3006

720 High Street

Oakland, California

PLATE

1



FN 20100002

EXPLANATION

- MW15 ⊕ Monitoring well
- MW5 ⊗ Monitoring well (destroyed)
- VW3 ▲ Vapor well
- RW7 ◆ Recovery Monitoring Well
- ——— Interceptor Trench

APPROXIMATE SCALE

0 40 80 FEET

SOURCE:
Modified from a map provided by EXXON U.S.A.

ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

EXXON STATION 7-3006
720 HIGH STREET
Oakland, California

PROJECT NO. 2010

PLATE 2

DATE: 8/21/94

APPENDIX A

LABORATORY ANALYSIS REPORTS AND CHAIN OF CUSTODY RECORDS

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Environmental Resolutions
359 Bel Marin Keys, Suite 20
Novato, CA 94949

Attention: Keith Romstad

Client Proj. ID: Exxon, 3006

Lab Proj. ID: 9501428

Sampled: 01/09/95
Received: 01/10/95
Analyzed: see below

Reported: 01/23/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9501428-07 Sample Desc : LIQUID,W-EFF-ARS				
Arsenic	mg/L	01/11/95	0.0050	0.0076
Lab No: 9501428-08 Sample Desc : LIQUID,W-EFF-ARS				
Arsenic	mg/L	01/13/95	0.0050	0.0077

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Environmental Resolutions	Client Proj. ID: Exxon, 3006	Sampled: 01/09/95
359 Bel Marin Keys, Suite 20	Sample Descript: W-INF	Received: 01/10/95
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 01/11/95
Attention: Keith Romstad	Lab Number: 9501428-01	Reported: 01/11/95

QC Batch Number: GC011195BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	3400
Benzene	5.0	630
Toluene	5.0	190
Ethyl Benzene	5.0	100
Xylenes (Total)	5.0	460
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	119

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

VMTClark

Vickie Tague Clark
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Environmental Resolutions	Client Proj. ID: Exxon, 3006	Sampled: 01/09/95
359 Bel Marin Keys, Suite 20	Sample Descript: W-INT	Received: 01/10/95
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 01/10/95
Attention: Keith Romstad	Lab Number: 9501428-02	Reported: 01/11/95

QC Batch Number: GC011095BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	82

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Environmental Resolutions	Client Proj. ID: Exxon, 3006	Sampled: 01/09/95
359 Bel Marin Keys, Suite 20	Sample Descript: W-EFF	Received: 01/10/95
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 01/10/95
Attention: Keith Romstad	Lab Number: 9501428-03	Reported: 01/11/95

QC Batch Number: GC011095BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	80

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
Project Manager

SEQUOIA ANALYTICAL CHAIN OF CUSTODY

☒ 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600 FAX (415) 364-9233
☐ 819 West Striker Ave. • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
☐ 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

Company Name: ENVIRONMENTAL RESOLUTIONS	Project Name: 3006, 720 High St OAKLAND
Address: 359 BEL MARIN KEYS BLVD, SUITE 20	Billing Address (if different): MARLA GUENSLER
City: NOVATO State: CA Zip Code: 94949	release # 19432503 EXXON Corporation
Telephone: 415 382 9105 FAX #: 382 1856	P.O. #: 2010-5
Report To: Steve Weigel Sampler: PETRO	QC Data: ☒ Level A (Standard) ☐ Level B ☐ Level C ☐ Level D

Turnaround Time: ☐ 10 Working Days ☐ 3 Working Days ☐ 2 - 8 Hours ☐ 7 Working Days ☐ 2 Working Days ☐ 5 Working Days ☒ 24 Hours

☐ Drinking Water ☒ Waste Water ☒ Other Air

Analyses Requested

9501428

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	8015 TPHg	~~[struck]~~	8020 BTEX	EPA 206.3 (Arsenic)					Comments
1. W-INF	1/9	WATER	3	40 ml VOA		X		X						-01
2. W-INT			3			X		X						-02
3. W-EFF		VPP	3	VPP		X		X						-03
4. A-INF		Air	1	Tedlar BAG		X		X						-04
5. A-INT			1			X		X						-05
6. A-EFF		VPP	1	VPP		X		X						-04
~~7. W-EFF-ARS~~	~~VPP~~	~~WATER~~	~~1~~	~~metals Bottle~~					~~X~~					
8. W-EFF-ARS	VPP	WATER	1	Plastic w/ HNO_3 metals Bottle					X					-07
9.														
10.														

Relinquished By: [signature]	Date: 1/10/95	Time: 10:49	Received By: [signature]	Date: 1/10/95	Time:
Relinquished By: [signature]	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: [signature]	Date: 1/10/95	Time: 1833

Were Samples Received in Good Condition? ☒ Yes ☐ No 7°C Samples on Ice? ☒ Yes ☐ No Method of Shipment ____________ Page __ of __

Pink - Client Yellow - Sequoia White - Sequoia