

**ExxonMobil**  
**Refining and Supply Company**  
Downstream - Safety, Health & Environment  
Environmental Remediation

Gene N. Ortega  
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**ExxonMobil**  
*Refining & Supply*

April 27, 2001

MAY 17 2001

Mr. Don Hwang  
Alameda County Health Services Agency  
Environmental Health Division  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 9502-6577

**RE: Former Exxon RAS #7-0235/2225 Telegraph Avenue, Oakland, California.**

Dear Mr. Hwang:

Attached for your review and comment is a document entitled *Work Plan to Perform a Dual-Phase Extraction Test*, dated April 17, 2001, for the above referenced site. The work plan was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and proposes to perform a dual-phase extraction test using a liquid ring pump to reduce methyl tertiary butyl ether concentrations in groundwater at the site.

If you have any questions or comments, please contact me at (925) 246-8747.

Sincerely,

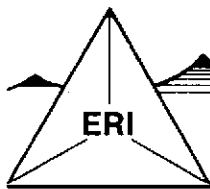


Gene N. Ortega  
Senior Engineer

Attachment: ERI's Work Plan to Perform a Dual-Phase Extraction Test, dated April 17, 2001.

cc: w/ attachment  
Mr. Lewis M. Jones, East Bay Municipal Utility District, Source Control Division

w/o attachment  
Mr. Scott D. Thompson, Environmental Resolutions, Inc.



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**ENVIRONMENTAL RESOLUTIONS, INC.**

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April 17, 2001  
ERI 222905.W01

Mr. Gene N. Ortega  
ExxonMobil Refining and Supply  
P.O. Box 4032  
Concord, California 94524-4032

**Subject:** Work Plan to Perform a Dual-Phase Extraction Test at Former Exxon Service Station  
7-0235, 2225 Telegraph Avenue, Oakland, California.

Mr. Ortega:

At the request of ExxonMobil Refining and Supply (formerly Exxon Company, U.S.A.) (ExxonMobil), Environmental Resolutions, Inc. (ERI) has prepared this Work Plan to perform a dual-phase extraction (DPE) test using a liquid ring pump (LRP) at the subject site. The purpose of the test is to evaluate the feasibility of using DPE to reduce methyl tertiary butyl ether (MTBE) concentrations in groundwater at the subject site.

### **BACKGROUND**

The site is located on the southwestern corner of Telegraph Avenue and West Grand Avenue in Oakland, California, as shown on the Site Vicinity Map (Plate 1). The locations of underground storage tanks (USTs), dispenser islands, and other selected site features are shown on the Generalized Site Plan (Plate 2). Properties in the vicinity of the site are occupied primarily by commercial developments.

### **PROPOSED SCOPE OF WORK**

The following tasks will be performed as part of this Scope of Work.

#### **Task 1: Notification**

- ERI will prepare and submit notification letters to the California Regional Water Quality Control Board-San Francisco Bay Region (Regional Board), Bay Area Air Quality Management District (BAAQMD), and the Alameda County Health Services Agency (the County).

#### **Task 2: Dual-Phase Extraction Test**

- ERI will perform a continuous (24-hour/day) 14-day DPE test. Groundwater Recovery wells RW1 and RW2 will be used for extraction. ERI will perform the 14-day DPE test and all other field work in accordance with this Work Plan and ERI's site-specific Health and Safety Plan.
- ERI will connect the LRP to RW1 and RW2. The vacuum, airflow, temperature, and pressure will be recorded at the extraction wells on a daily basis. Depth to water (DTW) and vacuum

measurements will be collected daily at the observation wells (MW6H and MW6E). Sample field data collection sheets are provided in Attachment A.

- ERI will collect daily influent vapor samples for submittal to a state-certified laboratory for analysis of total petroleum hydrocarbons as gasoline (TPHg) and total petroleum hydrocarbons as diesel (TPHd) using Environmental Protection Agency (EPA) Method 8015 modified; benzene, toluene, ethylbenzene, and total xylenes (BTEX), and MTBE using EPA Method 8260. Two 500-pound vapor-phase carbon canisters will be used to abate the vapor stream.
- ERI will collect influent and effluent groundwater samples at the beginning and ending of the test for submittal to a state-certified laboratory for analysis of TPHd, TPHg, BTEX, and MTBE using the methods listed above. Liquid-phase granular activated carbon (GAC) vessels will be utilized in the treatment of extracted groundwater. The extracted and treated groundwater will be discharged in accordance with the Wastewater discharge Permit No. 504 6702 1 obtained by the East Bay Municipal Utility District (EBMUD).

### **Task 3: Preparation of Summary Report**

ERI will prepare a report summarizing data collected during the DPE pilot test including total number of gallons removed and the results of laboratory analyses.

### **SCHEDULE OF OPERATIONS**

ERI is prepared to implement the Work Plan upon approval from the Regional Board. Specific details of the proposed schedule are as followed:

- Within 30 calendar days of receiving written approval of the Work Plan from the Regional Board, ERI will perform the DPE test.
- After completion of the test and the receipt of required analytical data, ERI will apply for a permit from the Wastewater District to discharge the extracted and treated groundwater.
- Within 30 calendar days of receiving the analytical laboratory report from the groundwater extraction test, ERI will submit a summary report.

ERI recommends forwarding copies of this Work Plan to:

Mr. Don Hwang  
Alameda County Health Care Services Agency  
Environmental Health Division  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

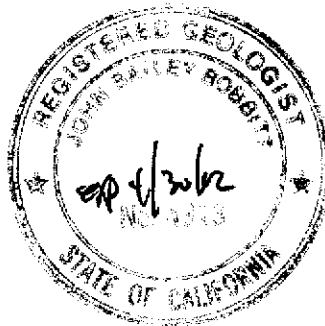
Mr. Lewis M. Jones  
East Bay Municipal Utility District  
Source Control Division  
P.O. Box 24055  
Oakland, California 94623-1055

Please call Mr. Scott D. Thompson, ERI's project manager for this site, at (415) 382-5987 if you have any questions regarding this Work Plan.

Sincerely,  
Environmental Resolutions, Inc.



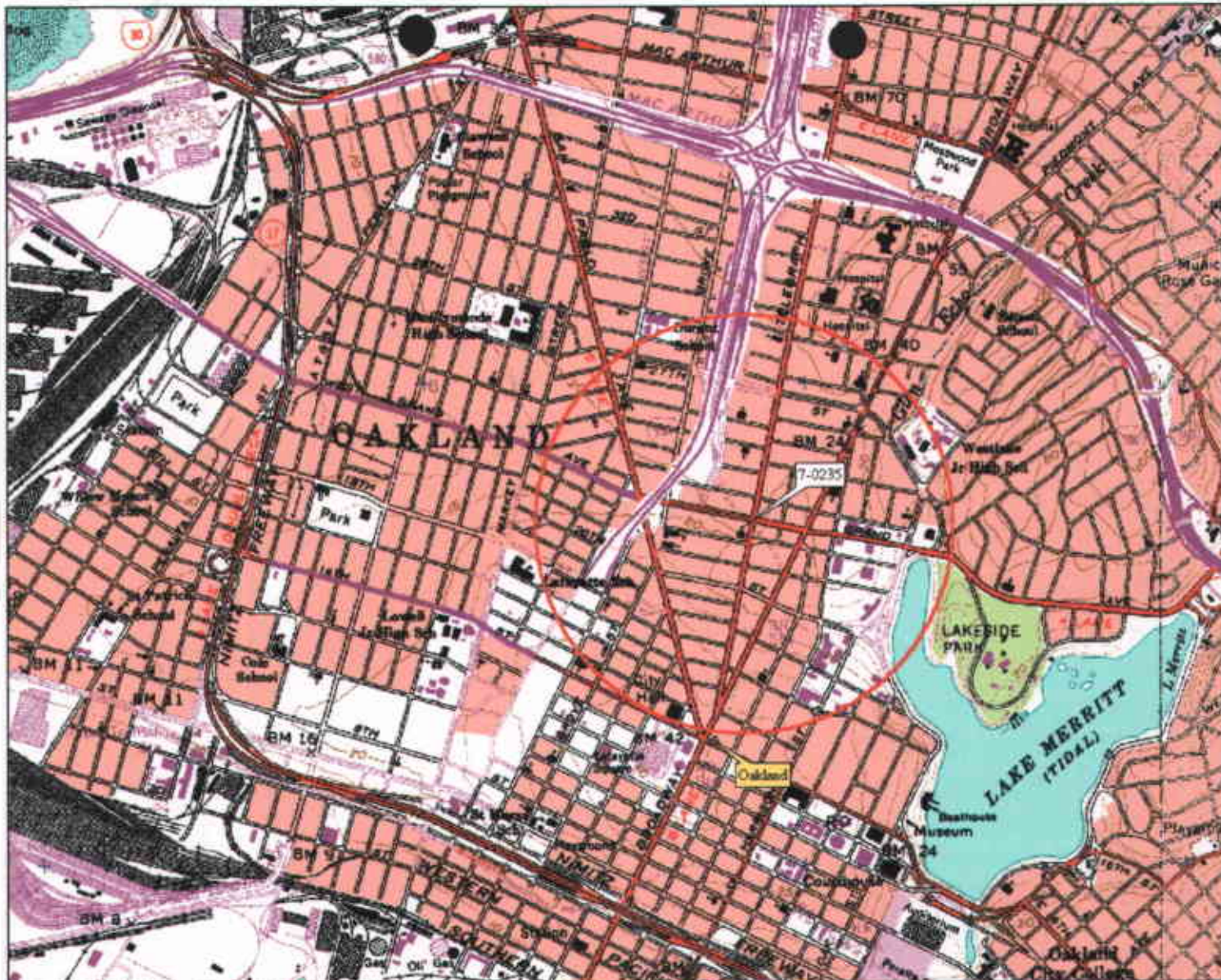
Casey P. Sanders  
Staff Scientist



John B. Bobbitt  
R.G. 4313

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

Attachment A: Sample Data Collection Sheets



3-D TopoQuads Copyright © 1999 DeLorme Topographic, ME 04061 Source Data: USGS 1:50,000 Scale 1:17,280 Contour: 10 ft Datum: WGS84

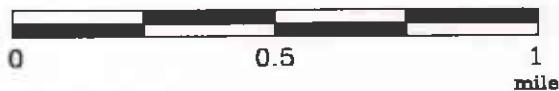
FN 2229Topo

**EXPLANATION**



1/2-mile radius circle

**APPROXIMATE SCALE**



SOURCE:  
Modified from a map  
provided by  
DeLorme 3-D TopoQuads

**SITE VICINITY MAP**

FORMER EXXON SERVICE STATION 7-0235  
2225 Telegraph Avenue  
Oakland, California

PROJECT NO.

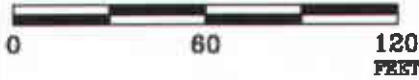
2229

PLATE

1



**APPROXIMATE SCALE**

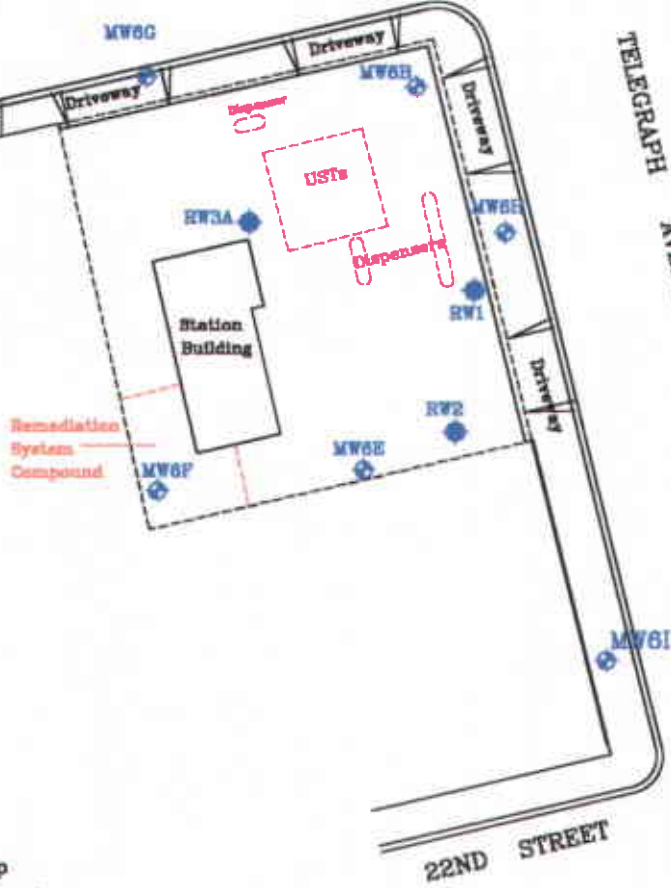


WEST GRAND AVENUE

TELEGRAPH AVENUE

Chevron Station

22ND STREET



SOURCE:  
Modified from a map  
provided by  
Ron Archer Civil Engineer Inc.

FN 22290003

**EXPLANATION**

MW6I  
Groundwater Monitoring Well

RW3A  
Groundwater Recovery Well



**GENERALIZED SITE PLAN**

FORMER EXXON SERVICE STATION 7-0235  
2225 Telegraph Avenue  
Oakland, California

PROJECT NO.

2229

PLATE

2

**ATTACHMENT A**  
**SAMPLE DATA COLLECTION SHEETS**







DATE:	EX WELL	OBSERVATION WELLS							
TIME	VACUUM	VACUUM	DTW	VACUUM	DTW	VACUUM	DTW	VACUUM	DTW
DISTANCE	0								

# Alameda County Environmental Health

1131 Harbor Bay Pkwy., #250  
Alameda CA 94502-6577  
Telephone (510) 567-6700 FAX (510) 337-9335

## FACSIMILE COVER SHEET

TO: CHUCK HEADLEE

FROM: DON HWANG 567-6746

DATE: 5/14/01

Total number of pages including cover sheet 4

-NOTES- \_\_\_\_\_

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