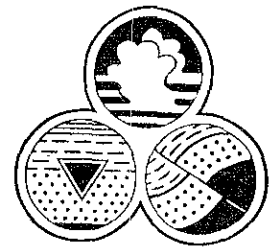


# Advanced GeoEnvironmental, Inc.



03 August 2004  
AGE-NC Project No. 99-0556

✓ Mr Amir Gholami  
Alameda County Health Care Services  
Environmental Health Services  
Environmental Protection  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Alameda County  
AUG 06 2004  
Environmental Health

**Subject: Closure Summary Report - Ground Water Production Well Survey  
Former Continental Volvo  
4030 - 4122 East 14<sup>th</sup> Street, Oakland, California**

## INTRODUCTION

At the request of Mr. Achim Ehrhardt of the former Continental Volvo, Inc. *Advanced GeoEnvironmental, Inc.* (AGE) has prepared the enclosed *Production Well Survey* in preparation for closure at 4030 - 4122 East 14<sup>th</sup> Street in Oakland, California (site).

## SCOPE OF WORK

The scope of work for the well receptor survey was to locate potential vertical conduits including municipal, domestic or irrigation wells within a 2000-foot (1/3- mile) radius of the site. The location of the site, and the immediately surrounding area are illustrated on Figure 1. The location of the well were sketched on Figure 2.

## PROCEDURES

AGE representatives contacted the California Department of Water Resources-Central District (DWRCD) to review well drillers' reports for water production wells located in the vicinity of the site; driller's reports for water wells located within a 2000-foot (1/3- mile) radius of the site were found. Based on driller descriptions one shallow irrigation well could be located. The total depth of the well was 30 feet and located up-gradient of the site. Water wells located from the review of copies of the well drillers' reports are included in Appendix A.

03 August 2004  
AGE-NC Project No. 99-0556  
Page 2 of 2

AGE representatives contacted Alameda County Public Work Agency (ACPWA) to request information regarding wells and well permits within the 2,000-foot (1/3-mile) radius of the site. No domestic water wells were documented within the search area. Three irrigation or industrial well were noted in the search area. Water wells located from the review of ACPWA the well drillers' permit are included in Appendix B.

AGE representatives contacted the East Bay Municipal Utilities Department (EBMUD) was contacted by an AGE representative. According to EBMUD has no municipal wells in the area and provides the water and sewer service for the site. EBMUD has five back-flow prevention devices in the area of 2,500-feet surrounding the site. Four are located outside the search area of 2,000-feet and one is located at 42<sup>nd</sup> and Foothill Blvd, located up-gradient of the site (Appendix C). EBMUD has no municipal wells in the area and provides the water and sewer service for the site.

If you have any questions please contact our office at (209) 467-1006.

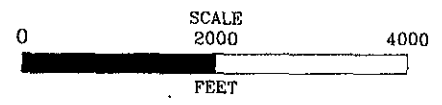
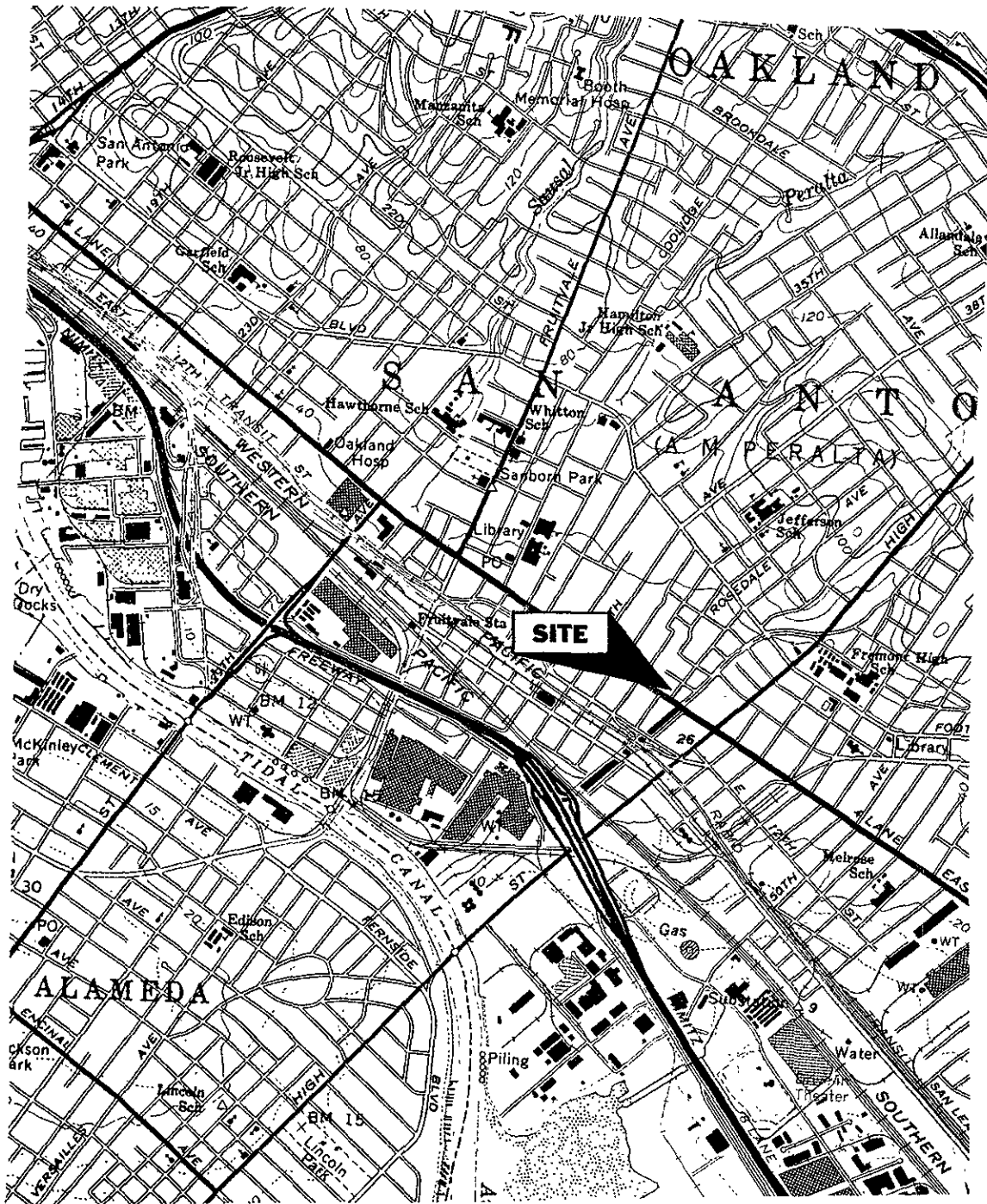
Sincerely,

**Advanced GeoEnvironmental, Inc.**



William Little  
Project Geologist

# FIGURES

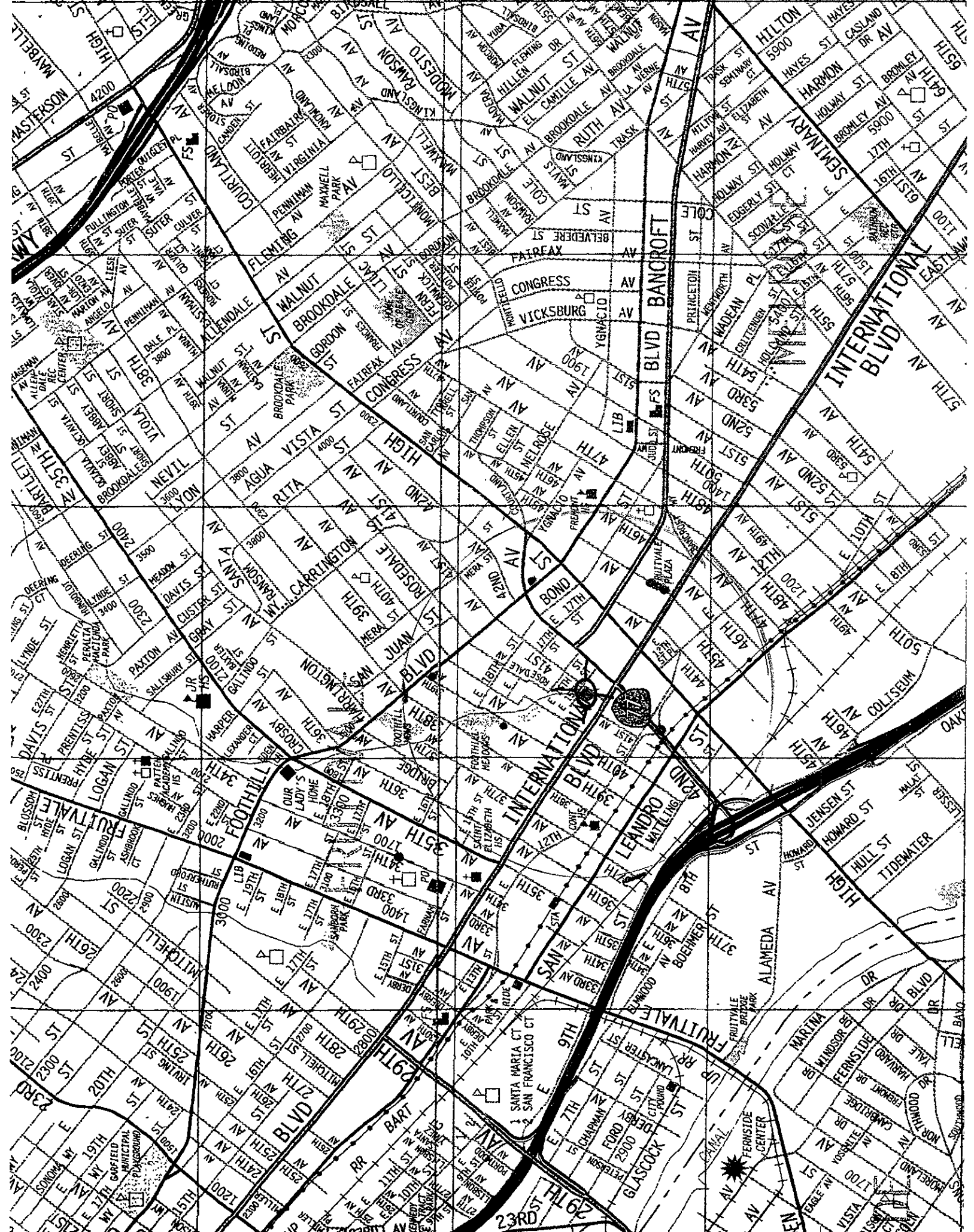


LOCATION MAP  
CONTINENTAL VOLVO  
4030-4122 EAST 14TH STREET  
OAKLAND, CALIFORNIA



*Advanced*  
GeoEnvironmental, Inc.  
*of Northern California*

PROJECT NO. AGE-NC-99-0556	FILE: CON1	FIGURE:
DATE: 10 MARCH 1999	DRAWN BY: MAC	1



# **APPENDIX A**

**DEPARTMENT OF WATER RESOURCES**

CENTRAL DISTRICT  
3251 S STREET  
SACRAMENTO, CA 95816-7017

**RECEIVED**

AUG 01 2004



JUL 29 2004

Mr. William Little  
Advanced Geo Environmental  
837 Shaw Road  
Stockton, California 95215

Dear Mr. Little:

In response to your request, enclosed are copies of Water Well Drillers Reports 107006 and 237649 for the production wells in the following area:

A 2,000-foot radius of 4030-4122 East 14th Street, Oakland  
Township 02 South, Range 03 West, Section 8

If you need additional information or have any questions, please contact Anne Roth at (916) 227-7632 or fax (916) 227-7600.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Niblack".

Robert L. Niblack, Chief  
Geology and Groundwater Section

Enclosures

State of California  
Department of Water Resources  
Central District  
3251 S Street  
Sacramento, CA 95816-7017

WELL DRILLER'S REPORTS  
INSPECTION REQUEST AND AGREEMENT

Project: # R000442 - Volvo Dealer Ship  
Location: 4030 E. 14th St, Oakland  
County: Alameda Co Contract Number: 209 467100

Request is made pursuant to Section 13751 of the California Water Code for permission to inspect or copy Water Well Driller's Reports which are on file in your office.

In accordance with the requirements of Section 13752 of the Water Code, it is stipulated and agreed that such reports, or any copy or copies made thereof, will not be made available for inspection by the public but will be used solely by this governmental agency for making studies. If copies are made or taken, each copy will be stamped "CONFIDENTIAL" or "FOR OFFICE USE ONLY" and will be kept in a restricted file access to which is limited to the staff of this governmental agency or to its contracted agents. Any copies furnished to contracted agents must be returned to the Department of Water Resources, Central District upon completion of work by the contracted agent.

No information contained in these reports can be disseminated or published without the written permission of the owner of the well.

Advanced Environmental C  
Contracted Agent  
637 Shaw Road  
Address  
Stockton, California 95203  
City, State, & Zip Code  
By William R. Little  
Officer  
ANALYST  
Title  
209 467 1000  
Telephone  
7/6/04  
Date

ALAMEDA CO, Environmental Health  
Governmental Agency  
1131 HARBOR BAY PKWY  
Address  
ALAMEDA, CA  
City, State, Zip Code  
By AMIR K. CHOLANI  
Officer  
HAZ MAT. SPECIALIST  
Title  
(510) 567-6376  
Telephone  
7/8/04  
Date

(For Departmental Information: \_\_\_\_\_ Copies sent \_\_\_\_\_ )



## **APPENDIX B**

**Yoo, James**

---

**From:** Yoo, James  
**Sent:** Tuesday, July 20, 2004 2:36 PM  
**To:** 'bill'  
**Subject:** FW: Well Search Request at 4030 E. 14th Street, Oakland (R0002442, Volvo Dealership)

I will also mail you the USGS map.

**RECEIVED**  
**JUL 22 2004**

-----Original Message-----

**From:** Yoo, James  
**Sent:** Tuesday, July 20, 2004 2:20 PM  
**To:** Gholami, Amir, Env. Health  
**Subject:** Well Search Request at 4030 E. 14th Street, Oakland (R0002442, Volvo Dealership)

Amir:

Attached with this email is the well search for the subject site. It is more than a 2,000 ft. search. The information provided is deemed reliable, but not guaranteed.

If you have questions, please feel free to contact me.  
I will also send you a USGS map by mail or QIC.

James



4030 E. 14th st,  
Oakland well ...



Well Search  
Legend.doc

James Yoo  
Engineer-Scientist  
Alameda County Public Works Agency  
Water Resources Section  
399 Elmhurst St.  
Hayward, CA 94544  
PH: (510) 670-6633  
FAX: (510) 782-1939

*For General Drilling Permit Information:*

[www.acfcwcd.org](http://www.acfcwcd.org)







## **Well Legend**

DOM=Domestic well

IRR=Irrigation well

MUN= Municipal well

IND=Industrial well

CAT=Cathodic well

DES=well destroyed (through permit)

ABN=Abandoned and not being used (but has not been destroyed through permit process)

TES=Test well

BOR= Geotechnical investigation

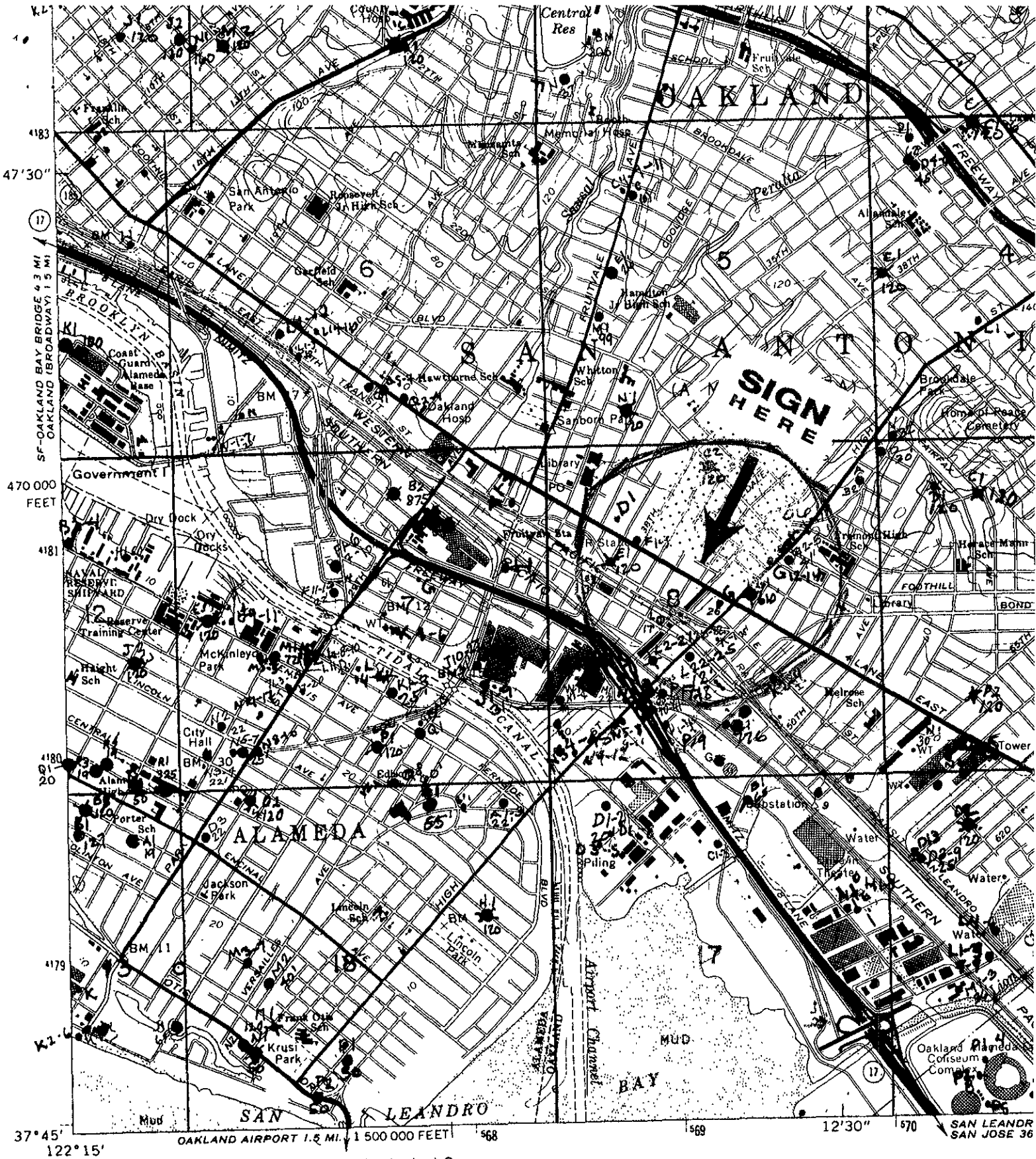
MON= Monitoring well

EXT=Extraction/ Vapor wells

PIE=Piezometers

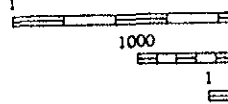
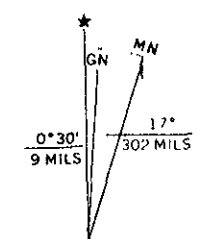
REC=Recovery well (extraction/ vapor)

? = Unknown or no information found or given



Mapped, edited, and published by the Geological Survey  
 Control by USGS, USC&GS, and Alameda Co.  
 Topography from aerial photographs by photogrammetric methods  
 and by planetable surveys 1947. Revised from aerial photographs  
 taken 1958. Field check 1959  
 Hydrography compiled from USC&GS chart 5535 (1958)  
 Polyconic projection. 1927 North American datum  
 10,000-foot grid based on California coordinate system, zone 3  
 1000-meter Universal Transverse Mercator grid ticks,  
 zone 10, shown in blue

ERS POINT  
 1590 III NE



UTM GRID AND 1973 MAGNETIC NORTH  
 DECLINATION AT CENTER OF SHEET

DE  
 SHC

## **APPENDIX C**



RECEIVED

JUL 28 2004



July 23, 2004

William R. Little  
Advanced GeoEnvironmental, Inc.  
837 Shaw Road  
Stockton, CA 95215

SUBJECT: 4030 International Blvd., Oakland

Dear Mr. Little:

As requested, we have searched our backflow prevention device database to determine the location of wells known to EBMUD within a 2,500 foot radius of the subject address. Five locations were identified, and they are listed on the attached sheet.

This information is to be used only to address public health concerns related to the chemical release at the subject address. This information is inclusive of all wells of which EBMUD is aware, and most such wells that are found in our database are self-identified by the landowner. EBMUD cannot assure that this list is exhaustive, or that it is inclusive of all wells in this vicinity.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael T. Tognolini'.

Michael T. Tognolini, Senior Civil Engineer  
Water Supply Improvements Division

cc: File G-GW-130

Attachment

Backflow Preventer Well Search

(Radius 2500 ft from corner of 40th and International Blvd.)

SERV\_ADDR = 1500 34th Ave  
SERV\_CITY = OAKLAND  
SERV\_STATE\_ZIP = CA 94601-3024

SERV\_ADDR = 1452 45th Ave  
SERV\_CITY = OAKLAND  
SERV\_STATE\_ZIP = CA 94601-4518

SERV\_ADDR = 1460 45th Ave  
SERV\_CITY = OAKLAND  
SERV\_STATE\_ZIP = CA 94601-4518

SERV\_ADDR = 1429 45th Ave  
SERV\_CITY = OAKLAND  
SERV\_STATE\_ZIP = CA 94601-4517

SERV\_ADDR = 1200 42nd Ave  
SERV\_CITY = OAKLAND  
SERV\_STATE\_ZIP = CA 94601-

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### STATE RECORDS

#### California Drinking Water Quality Database

Source: Department of Health Services  
Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

#### California Oil and Gas Well Locations for District 2, 3, 5 and 6

Source: Department of Conservation  
Telephone: 916-323-1779

*ROZAN  
well info*

### RADON

#### Area Radon Information

Source: USGS  
Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA  
Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

**Airport Landing Facilities:** Private and public use landing facilities  
Source: Federal Aviation Administration, 800-457-6656

**Epicenters:** World earthquake epicenters, Richter 5 or greater  
Source: Department of Commerce, National Oceanic and Atmospheric Administration

**California Earthquake Fault Lines:** The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

*209-467-1118*

*510-337-9335*

*Amir Gholami*

*Radial Search*

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### TOPOGRAPHIC INFORMATION

#### **USGS 7.5' Digital Elevation Model (DEM)**

Source: United States Geologic Survey  
EDR acquired the USGS 7.5' Digital Elevation Model in 2002. 7.5-Minute DEMs correspond to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps.

### HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

### HYDROGEOLOGIC INFORMATION

#### **AQUIFLOW<sup>R</sup> Information System**

Source: EDR proprietary database of groundwater flow information  
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

### GEOLOGIC INFORMATION

#### **Geologic Age and Rock Stratigraphic Unit**

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

#### **STATSGO: State Soil Geographic Database**

Source: Department of Agriculture, Natural Resources Conservation Service  
The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the national Cooperative Soil Survey (NCS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### ADDITIONAL ENVIRONMENTAL RECORD SOURCES

#### **FEDERAL WATER WELLS**

##### **PWS: Public Water Systems**

Source: EPA/Office of Drinking Water  
Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

##### **PWS ENF: Public Water Systems Violation and Enforcement Data**

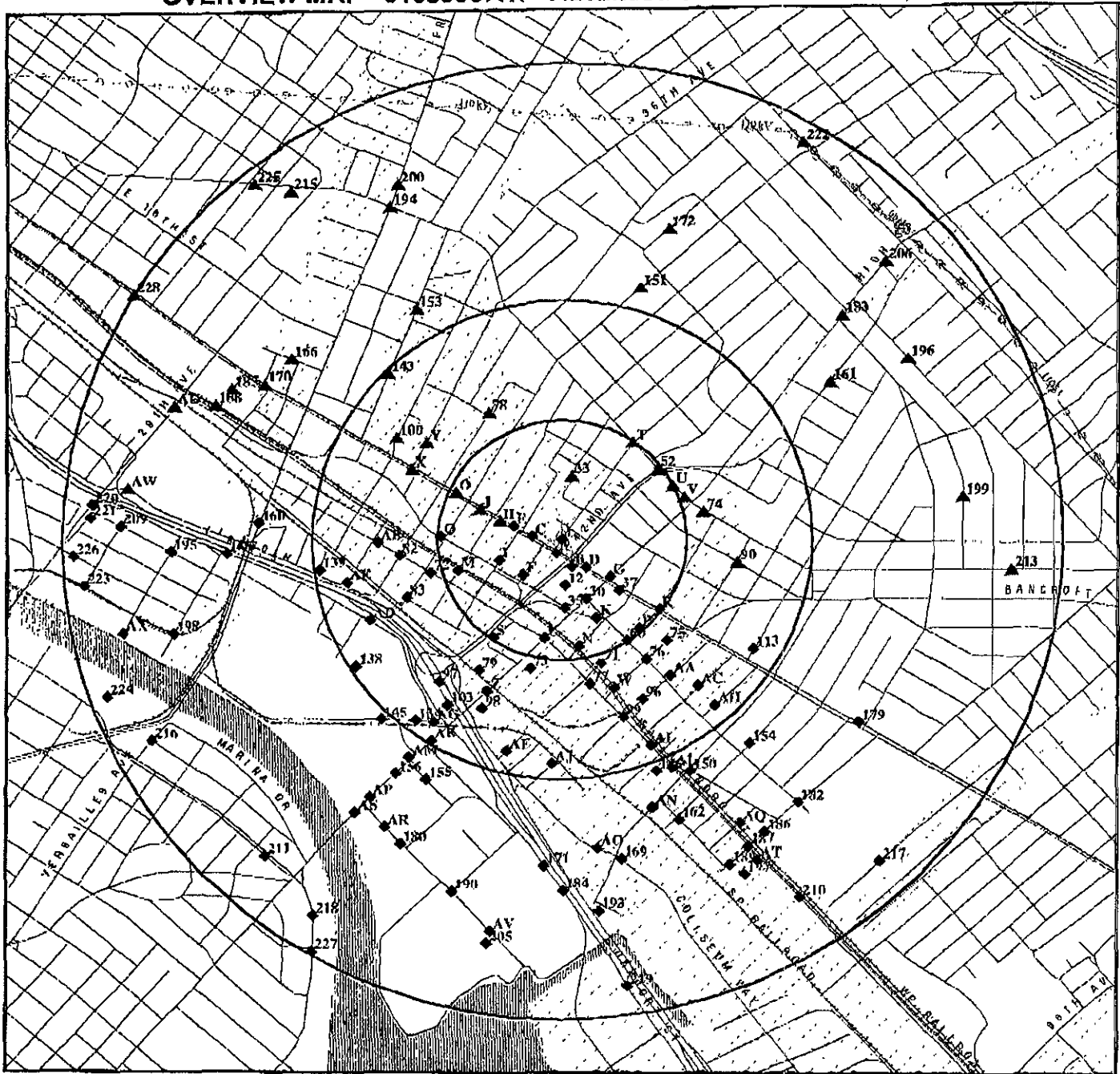
Source: EPA/Office of Drinking Water  
Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

##### **USGS Water Wells: USGS National Water Inventory System (NWIS)**

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

# OVERVIEW MAP - 01039387.1r - Advanced GeoEnvironmental, Inc.

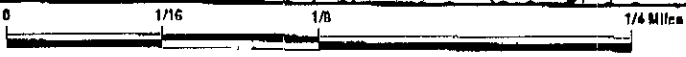
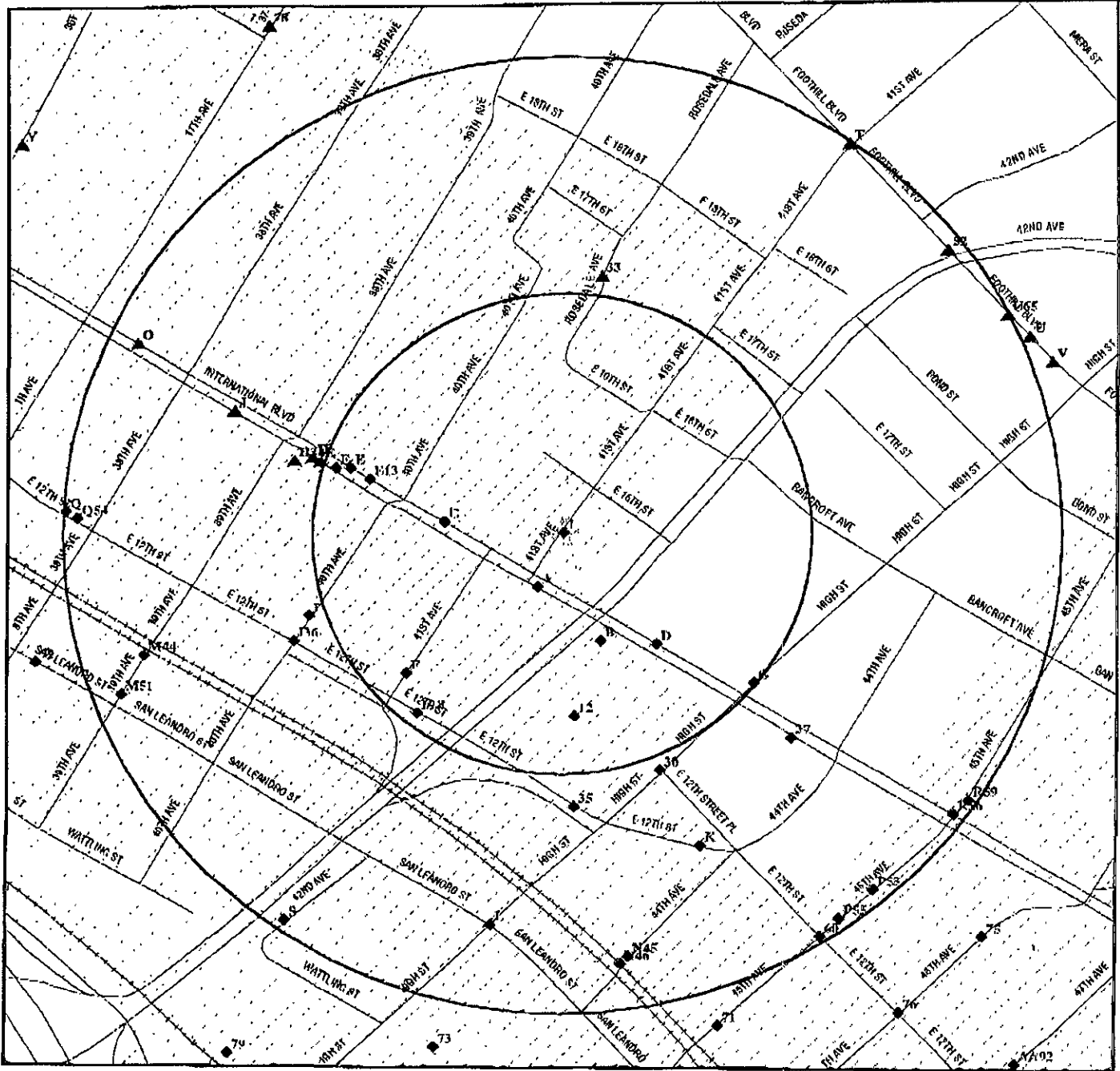


- ▲ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Federal Wetlands
- Areas of Concern

**TARGET PROPERTY:** Continental Volvo Facility  
**ADDRESS:** APN33 2144 37,8/49-4,2147 23-1  
**CITY/STATE/ZIP:** Oakland CA 94601  
**LAT/LONG:** 37.7736 / 122.2165

**CUSTOMER:** Advanced GeoEnvironmental, Inc.  
**CONTACT:** Suzanne Henderson  
**INQUIRY #:** 01039387.1r  
**DATE:** September 02, 2003 2:23 pm

**DETAIL MAP - 01039387.1r - Advanced GeoEnvironmental, Inc.**



- Target Property
- ▲ Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- ▲ Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

**TARGET PROPERTY:** Continental Volvo Facility  
**ADDRESS:** APN33 2144 37, 8/49-4, 2147 23-1  
**CITY/STATE/ZIP:** Oakland CA 94601  
**LAT/LONG:** 37.7736 / 122.2165

**CUSTOMER:** Advanced GeoEnvironmental, Inc.  
**CONTACT:** Suzanne Henderson  
**INQUIRY #:** 01039387.1r  
**DATE:** September 02, 2003 2:41 pm