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## TRANSMITTAL

DATE: March 30, 2010 REFERENCE NO.: 241501

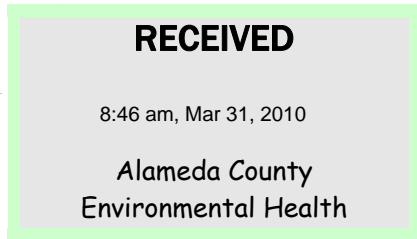
PROJECT NAME: 461 8<sup>th</sup> Street, Oakland

TO: Jerry Wickham

Alameda County Environmental Health

1131 Harbor Bay Parkway, Suite 250

Alameda, California 94502



Please find enclosed:  Draft  Final  
 Originals  Other  
 Prints

Sent via:  Mail  Same Day Courier  
 Overnight Courier  Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Down-Gradient Receptor Survey

As Requested  For Review and Comment  
 For Your Use

**COMMENTS:**

If you have any questions regarding the contents of the document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Avenue, Carson, CA 90810  
Leroy Griffin, Fire Prevention Bureau, 250 Frank Ogawa Plaza, 3<sup>rd</sup> Floor, Suite 3341,  
Oakland, CA 94612  
A.F. Evans Company, c/o Anye Spivey, 1000 Broadway, Suite 300, Oakland, CA 94507  
Leah Goldberg, Meyers Nave, 555 12<sup>th</sup> Street, Suite 1500, Oakland, CA 94607  
Grover Buhr, Treadwell & Rollo (*electronic copy only*)

Completed by: Peter Schaefer Signed:

Filing: **Correspondence File**



Mr. Jerry Wickham  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94205-6577

**Denis L. Brown**  
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Tel (707) 865 0251  
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Email [denis.l.brown@shell.com](mailto:denis.l.brown@shell.com)

Subject: Former Shell Service Station  
461 8<sup>th</sup> Street  
Oakland, California  
SAP Code 129453  
Incident No. 97093399  
ACEH Case No. RO0000343

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (707) 865-0251 with any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "Denis L. Brown", is written over a horizontal line.

Denis L. Brown  
Project Manager



## **DOWN-GRADIENT RECEPTOR SURVEY**

**FORMER SHELL SERVICE STATION  
461 8<sup>TH</sup> STREET  
OAKLAND, CALIFORNIA**

<b>SAP CODE</b>	<b>129453</b>
<b>INCIDENT NO.</b>	<b>97093399</b>
<b>AGENCY NO.</b>	<b>RO0000343</b>

**MARCH 30, 2010  
REF. NO. 241501 (16)**

This report is printed on recycled paper.

**Prepared by:  
Conestoga-Rovers  
& Associates**

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BETWEEN 6<sup>TH</sup> STREET AND 8<sup>TH</sup> STREET

## 1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) as requested in Alameda County Environmental Health's (ACEH's) February 9, 2010 letter. The letter requested a survey of down-gradient receptors including San Francisco Bay Area Rapid Transit (BART) and properties on both sides of Broadway between 6<sup>th</sup> Street and 8<sup>th</sup> Street.

The subject site is a paved parking lot located at the southwest corner of the intersection of 8<sup>th</sup> Street and Broadway in a primary commercial area of Oakland, California (Figure 1). The former station layout included an underground storage tank (UST) complex and dispenser islands (Figure 2). The site is currently a paid public parking lot.

The property was leased by American Oil Company from at least 1965 until 1972 when the lease was assigned to Shell. A Shell service station operated on the property from 1972 to 1980. The USTs associated with the former Shell service station were removed after Shell terminated operations at the site in May 1980. A history of previous site environmental activities was presented in CRA's November 30, 2009 *In situ Chemical Oxidation Pilot Test Report* and is not repeated herein.

## 2.0 EXECUTIVE SUMMARY

CRA conducted inquiries concerning potential receptors at BART and at buildings along Broadway between 6<sup>th</sup> and 8<sup>th</sup> Streets.

- BART does not have any current information regarding groundwater impacts in the KE line tunnel. BART indicates that it may be possible to obtain a water sample from their sump at 7<sup>th</sup> Street and Broadway and to obtain samples from two spigots installed in the driven portion of the BART KE line circa 1980, if they can be located.
- Five buildings are located on Broadway between 6<sup>th</sup> and 8<sup>th</sup> Streets. All of the buildings have basements, and three of buildings have sumps in their basements. No dewatering systems were identified.

### 3.0 DOWN-GRADIENT RECEPTOR SURVEY

#### 3.1 BART

ACEH's February 9, 2010 letter requested that Shell contact BART to determine whether they were still pumping water from the sump located near the southeast corner of 7<sup>th</sup> Street and Broadway, whether hydrocarbons had been observed or detected in the discharges, and whether the discharges had been sampled. In addition, ACEH requested that Shell inquire about the status of two spigots installed in the driven portion of the BART KE line circa 1980.

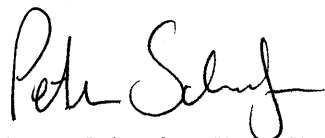
On behalf of Shell, CRA contacted the BART Safety Department to pursue these inquiries. BART personnel indicated that the sump near the southeast corner of 7<sup>th</sup> Street and Broadway was still in use, but it was not sampled and there were no records of whether or not hydrocarbons were observed in the discharge. BART personnel were unable to provide any information concerning the two spigots. The BART Real Estate Department indicated that it might be possible to enter the KE line tunnel during non-operational hours to collect a sample from the sump and to look for, and possibly obtain samples from, the spigots.

#### 3.2 PROPERTIES ON BROADWAY BETWEEN 6<sup>TH</sup> STREET AND 8<sup>TH</sup> STREET

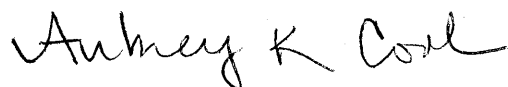
ACEH's February 9, 2010 letter to Shell requested that Shell survey properties on both sides of Broadway between 6<sup>th</sup> Street and 8<sup>th</sup> Street to determine if the properties had basements, wells, or dewatering systems. CRA identified eight properties with five buildings on Broadway between 6<sup>th</sup> Street and 8<sup>th</sup> Street (Figure 2 and Table 1). According to CRA's contacts, all of the buildings have basements, three buildings have sumps in their basements, and there are no de-watering systems associated with the five buildings.

The survey results are provided in Table 1, and the building locations are shown on Figure 2.

All of Which is Respectfully Submitted,  
CONESTOGA-ROVERS & ASSOCIATES



Peter Schaefer, CEG, CHG

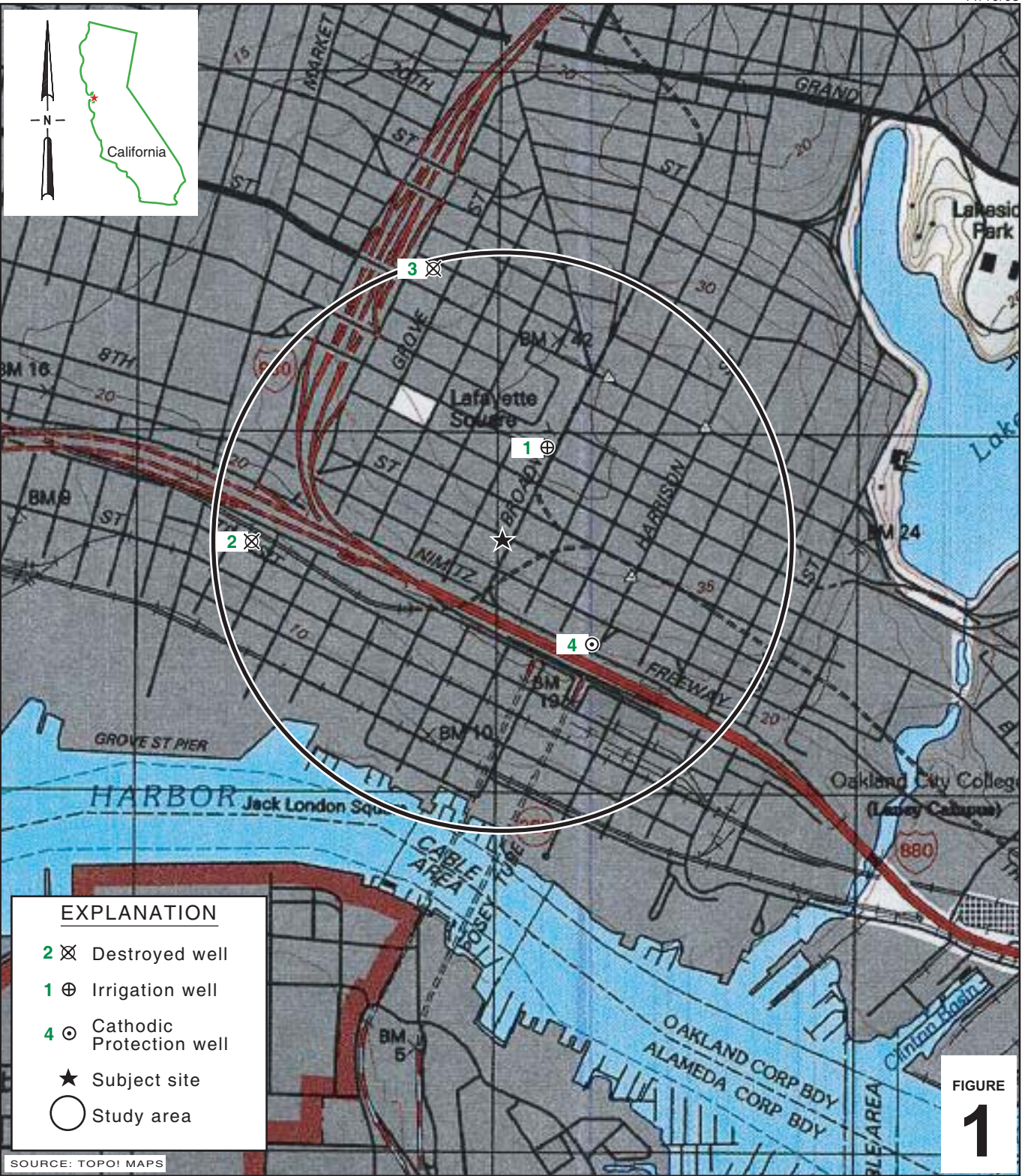


Aubrey K. Cool, PG





## FIGURES



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SOURCE: TOPOI MAPS

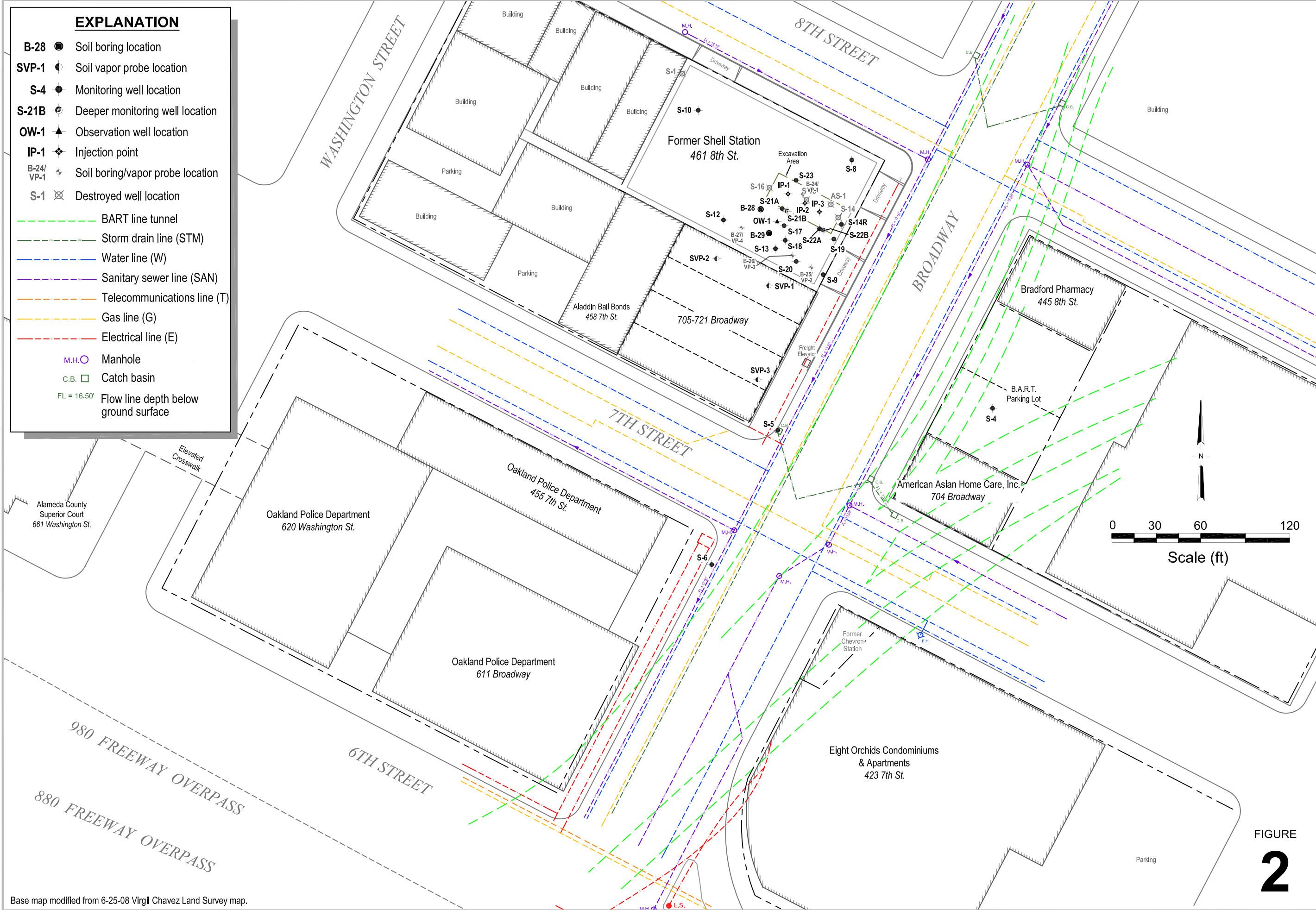


**Former Shell Service Station**  
 461 8th Street  
 Oakland, California



**CONESTOGA-ROVERS  
 & ASSOCIATES**

**Vicinity Map**



EXPLANATION	
B-28 ●	Soil boring location
SVP-1 ◐	Soil vapor probe location
S-4 ●	Monitoring well location
S-21B ◐	Deeper monitoring well location
OW-1 ▲	Observation well location
IP-1 ◆	Injection point
B-24/VP-1 ◐	Soil boring/vapor probe location
S-1 ☒	Destroyed well location
---	BART line tunnel
---	Storm drain line (STM)
---	Water line (W)
---	Sanitary sewer line (SAN)
---	Telecommunications line (T)
---	Gas line (G)
---	Electrical line (E)
M.H. ○	Manhole
C.B. □	Catch basin
FL = 16.50'	Flow line depth below ground surface

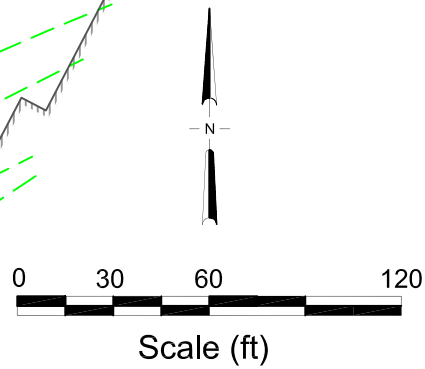


FIGURE  
**2**

I:\Shell\6-chars\2415-1241501-Oakland 461 8th\241501-FIGURES\241501 SITE PLAN.DWG

Base map modified from 6-25-08 Virgil Chavez Land Survey map.

TABLE

TABLE 1

**POTENTIAL DOWN-GRADIENT RECEPTORS ON BROADWAY BETWEEN 6TH STREET AND 8TH STREET  
FORMER SHELL SERVICE STATION  
461 8TH STREET, OAKLAND, CALIFORNIA**

<i>Address</i>	<i>Basement &amp; Use</i>	<i>Sumps</i>	<i>Dewatering System</i>	<i>Distance From Site</i>
705, 707, 709-715, and 721 Broadway	Yes - Medical Marijuana Club	No	No	5 feet
Bradford Pharmacy - 445 8th Street	Yes - Machine Room	No	No	115 feet
Asian American Home Care, Inc. - 704 Broadway	Yes - Parking Garage	Yes	No	130 feet
Oakland Police Department - 455 7th Street, 620 Washington Street, and 611 Broadway	Yes - Use Unknown	Yes	No	180 feet
Eight Orchids Condominiums and Apartments - 423 7th Street	Yes - Parking Garage	Yes - sump pump	No	225 feet