



**Shell Oil Products US**

**RECEIVED**

9:33 am, May 26, 2009

Alameda County  
Environmental Health

May 21, 2009

**Re: Response to Agency Letter Dated 3/31/09**  
Former Shell-Branded Service Station  
15275 Washington Avenue  
San Leandro, California

Dear Mr. Jerry Wickham:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,  
Shell Oil Products US

A handwritten signature in black ink, appearing to read "Denis L. Brown", with a long horizontal flourish extending to the right.

Denis L. Brown  
Project Manager

May 21, 2009  
Delta Project SCA152751A  
SAP #129460

Mr. Jerry Wickham  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**Subject: Response to Agency Letter Dated 3/31/09**  
Former Shell-Branded Service Station  
15275 Washington Avenue  
San Leandro, California



Dear Mr. Wickham:

On behalf of Shell Oil Products US (Shell), Delta Consultants, Inc. (Delta) has prepared this response to your letter referenced above regarding the Soil Vapor Extraction Test Work Plan and Groundwater Sampling Work Plan, both dated January 27, 2009, for the site referenced above (Figure 1).

#### **Technical Comment 1**

##### Horizontal Well Locations

Concern was expressed over the suspected presence of a former soil vapor treatment system trenches near extraction trench ET-2.

As shown in the attached revised Figure 5 included as Attachment A, Extraction Trenches ET-1 and ET-2 have been relocated to the north of the existing building, away from the suspected former SVE piping trenches and still near the center of the impacted area.

#### **Technical Comment 2**

##### Soil Vapor Analyses

The use of EPA Method 8260 was recommended instead of EPA Method TO-15 for analyses of the soil vapor samples.

Delta agrees that it is acceptable to use laboratory EPA Method 8260B for analysis of total petroleum hydrocarbons as gasoline (TPH-g) and benzene, toluene, ethylbenzene and xylenes (BTEX compounds). This change will be reflected in the revised work plan, which will be issued no later than May 29, 2009.

### **Technical Comment 3**

#### Observation Wells

The Soil Vapor Extraction Pilot Test Work Plan identified wells ET-2, S-1, S-3, S-16 and S-18 as observation wells. Monitoring wells S-9 and S-19 were requested as additional observation wells.

Monitoring wells S-9 and S-19 will be added to the observation well network, as noted in the revised work plan to be submitted separately.

### **Technical Comment 4**

#### Additional Soil Vapor Samples

At a meeting with you on March 12, 2009, you requested that we review the soil vapor survey for completeness and recommend additional sampling points as necessary.

Based on the results of the soil vapor survey conducted in June 2008, it is apparent the down-gradient extent of vapor intrusion has not been determined. As shown on Figure 2, we propose an additional 6 soil vapor survey sample points. A work plan will be submitted within 30 days proposing additional vapor sampling points.

### **Technical Comment 5**

#### Proposed Wells for Purge and No Purge Sampling

The referenced Groundwater Sampling Work Plan proposed to collect both purge and no-purge samples from wells S-7, S-8 and S-9 as a one-time event; you have requested to replace wells S-7 and S-8 with wells S-3, S-5, and S-16, in addition to well S-9 as candidates for both purge and no-purge sampling.

The sampling plan will be revised to include both purge and non-purge sampling for wells S-3, S-5, S-9, and S-16, to be completed during the third quarter 2009 sampling event. A discussion of the results will be included in the third quarter 2009 monitoring report due no later than November 15, 2009. The revised sampling plan will be issued as a separate document.

## **CONCLUSIONS**

Technical Comments 1 through 3 have been incorporated in the Revised Soil Vapor Extraction Pilot Test Work Plan which will be issued as a separate document.

Technical Comment 4 will be addressed under separate cover; a work plan for additional soil vapor survey sampling will be submitted within 30 days. A site map has been included showing the proposed location of nine additional soil vapor survey sampling points (Figure 2).

Technical Comment 5 will be incorporated in the Groundwater Sampling Work Plan for the third quarter 2009 monitoring event, which will be re-issued.

**REMARKS**

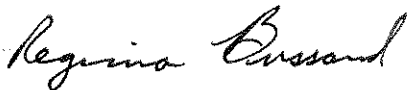
This work plan represents Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This work plan is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This work plan is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this document.

Should you have any questions or need any further assistance, please contact Suzanne McClurkin-Nelson (Delta) at (408) 826-1875, Regina Bussard (Delta) at (408) 826-1876, or Mr. William Lantz (Delta) at (626) 873-2702. In addition, Mr. Dennis Brown (Shell) can be reached at (707) 865-0251.

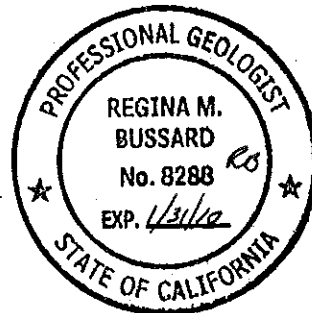
Sincerely,  
**Delta Consultants**



Suzanne McClurkin-Nelson  
Senior Project Manager



Regina Bussard, PG  
Project Manager



cc: Denis Brown, Shell Oil Products US, Carson  
Mike Bakaldin, San Leandro Fire Department, San Leandro  
Salel Enterprises c/o Foothill Hardware, Oakland

**ATTACHMENTS:**

Figure 1 – Site Location Map

Figure 2 – Proposed Additional Soil Vapor Survey Sample Points

Attachment A – Revised Figure 5 – Proposed Extraction Test Well Locations

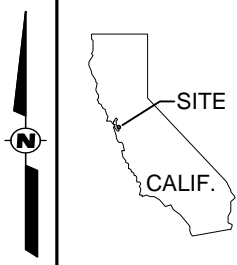
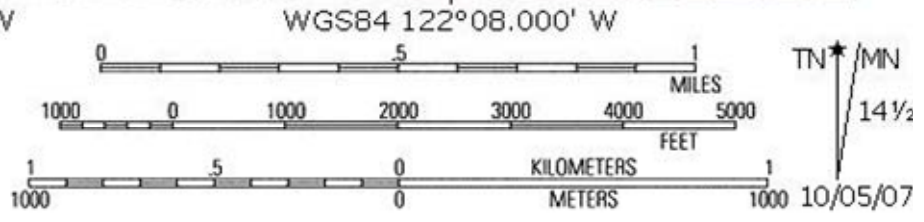
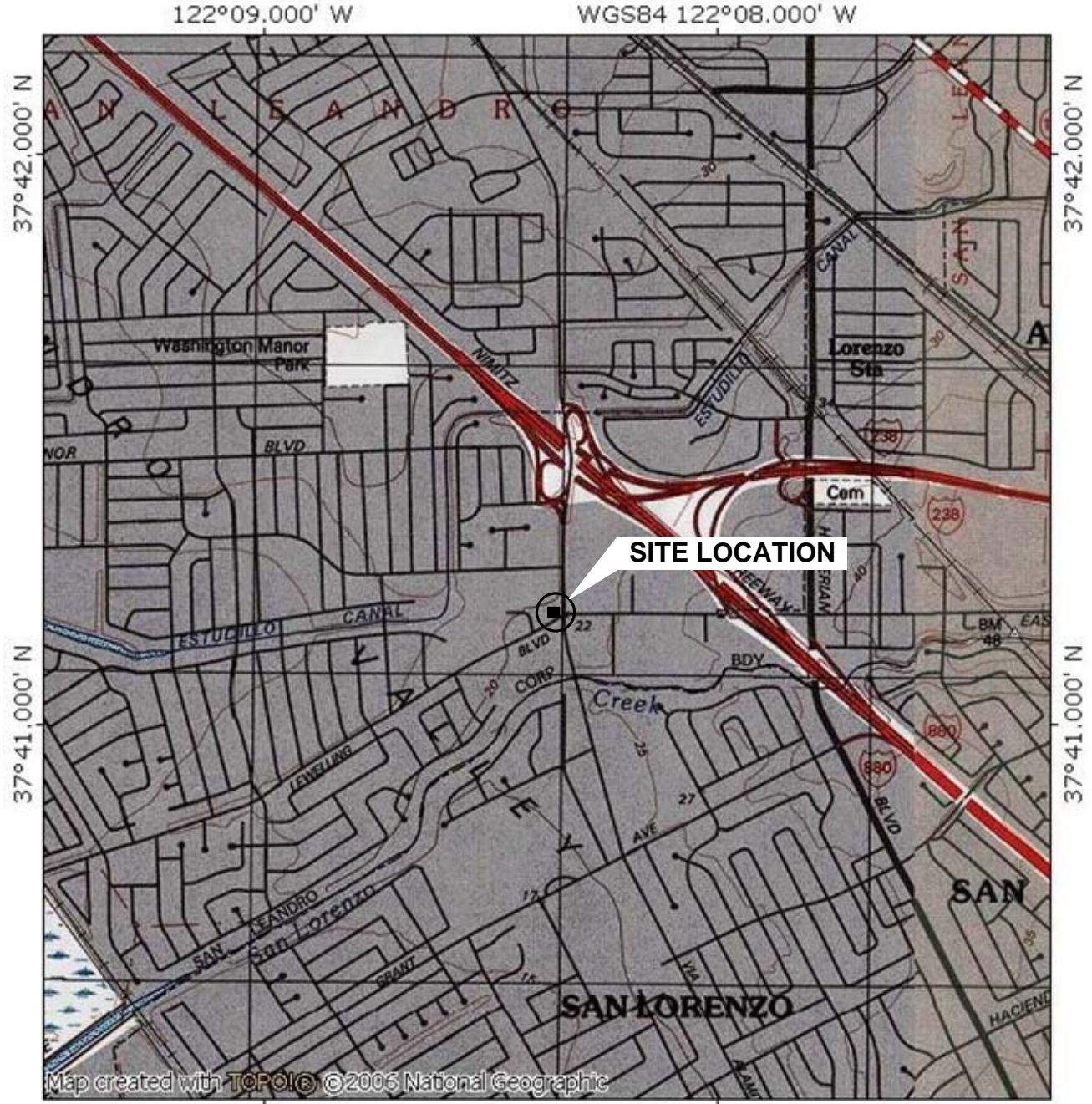
## **FIGURES**

DRAWING NUMBER  
SCA152751A

APPROVED BY

CHECKED BY

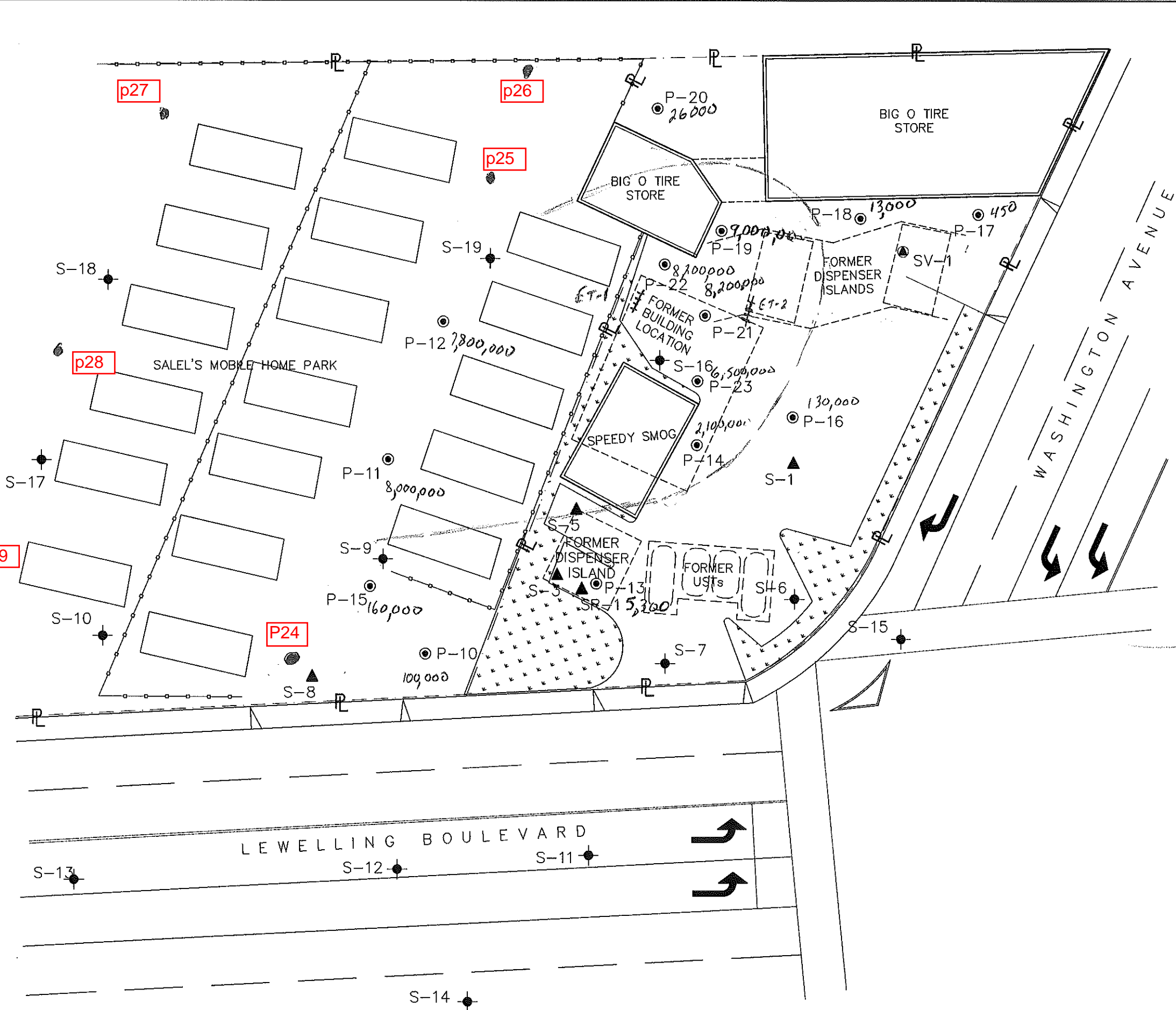
DRAWN BY  
J.F.F.



SHELL OIL PRODUCTS US  
FORMER SHELL SERVICE STATION  
SAN LEANDRO, CALIFORNIA

FIGURE 1  
SITE LOCATION MAP  
15275 WASHINGTON AVENUE  
SAN LEANDRO, CALIFORNIA

PROJECT NUMBER SCA15275-1  
 APPROVED BY  
 CHECKED BY  
 DRAWN BY  
 AD 12/12/08



- LEGEND**
- S-15 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
  - S-1 ▲ GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
  - P-18 ● SOIL VAPOR PROBE LOCATION AND DESIGNATION
  - SV-1 ● SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
  - CURRENT BUILDING LOCATION
  - TRAILER PARK STRUCTURE
  - - - FORMER BUILDING
  - - - FORMER UST LOCATION
  - P - PROPERTY LINE
  - - - FENCING

*Approx TPHs  
 Coll. on 12/12/08  
 1,000,000 PPH, Conc. 150.  
 1,000,000 ● Detected TPHs Conc. 150 PPH  
 0 25 50  
 SCALE IN FEET*

*Proposed Soil Vapor Survey Probe Location*

**DELTA CONSULTANTS**

SHELL OIL PRODUCTS U.S.  
 FORMER SHELL-BRANDED SERVICE STATION  
 SAN LEANDRO, CALIFORNIA

FIGURE 2

SITE MAP  
 15275 WASHINGTON AVENUE  
 SAN LEANDRO, CALIFORNIA

**ATTACHMENT A**

**REVISED FIGURE 5 – PROPOSED EXTRACTION TEST WELL LOCATIONS**

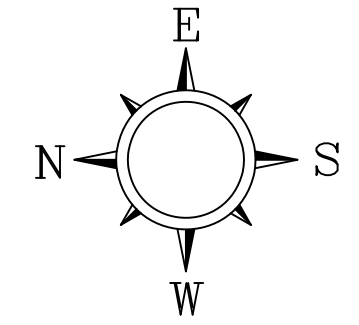
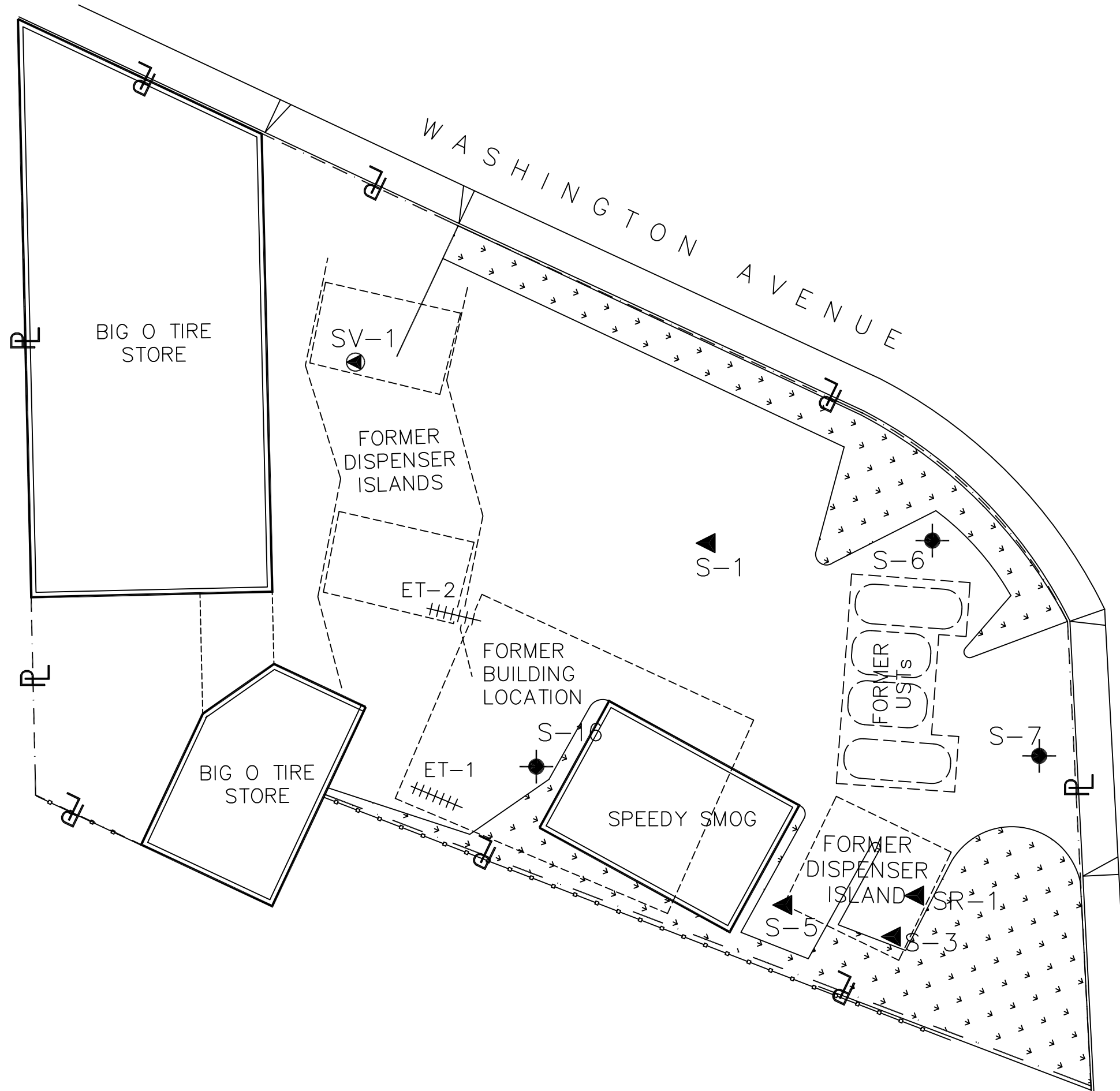


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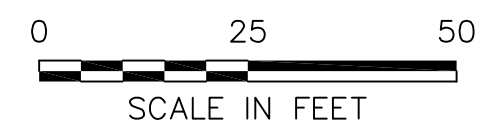
APPROVED BY

CHECKED BY

DRAWN BY  
AD 12/12/08



- LEGEND**
- S-15 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
  - S-1 ▲ GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
  - SV-1 ● SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
  - ET-1 +++ EXTENDED TEST WELL LOCATION AND DESIGNATION
  - CURRENT BUILDING LOCATION
  - TRAILER PARK STRUCTER
  - - - - FORMER BUILDING
  - - - - FORMER UST LOCATION
  - P- PROPERTY LINE
  - F- FENCING



**DELTA CONSULTANTS**

SHELL OIL PRODUCTS U.S.  
FORMER SHELL-BRANDED SERVICE STATION  
SAN LEANDRO, CALIFORNIA

**FIGURE 5**

PROPOSED EXTENDED TEST WELL  
LOCATIONS

15275 WASHINGTON AVENUE  
SAN LEANDRO, CALIFORNIA