

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9335 (FAX)

REMEDIAL ACTION COMPLETION CERTIFICATION

May 13, 1997

Mssrs. William & Ed Sheehan
1236 Bay Street
Alameda, CA 94501

Re: Residence, 743 Santa Clara Avenue, Alameda, CA 94501-One former
1,500-gallon heating oil underground storage tank.

STID: 5845

Dear Mssrs. William & Ed Sheehan,

This letter confirms the completion of a site investigation and remedial action for the underground storage tank formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung
Director of Environmental Health Services

c: Chief, Hazardous Materials Division - files
Juliet Shin, ACDEH
Kevin Graves, RWQCB
Lori Casias, SWRCB (w/ Case Closure Summary)
Cheryl Gordon, UST Cleanup Fund, SWRCB

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May 13, 1997

Mssrs. William & Ed Sheehan
1236 Bay Street
Alameda, CA 94501

Re: Fuel Leak Site Case Closure-Residence, 743 Santa Clara Avenue,
Alameda, CA 94501; STID 5845

Dear Mssrs. William & Ed Sheehan,

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Protection Division is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- o Low levels of TPH as diesel at 1,100 parts per million (ppm), and toluene, total xylenes, and ethylbenzene (0.015ppm, 0.056ppm, and 0.070ppm) remain in the soil around the former tank pit at the site.

If you have any questions, please contact me at (510)567-6700. Thank you.

Sincerely,

Juliet Shin
Senior Hazardous Materials Specialist

Enclosures:

1. Case Closure Letter
2. Case Closure Summary

* 01-2220
Need To
input

EMERGENCY
PROTECTION
97 APR 31 PM 3:09

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: March 11, 1997

Agency name: Alameda County-HazMat
City/State/Zip: Alameda, CA 94502
Responsible staff person: Juliet Shin

Address: 1131 Harbor Bay Pkwy.
Phone: (510) 567-6700
Title: Senior HMS

II. CASE INFORMATION

Site facility name: Residence
Site facility address: 743 Santa Clara Avenue, Alameda, CA 94501
RB LUSTIS Case No: N/A **Local Case No./LOP Case No.:** 5845
URF filing date: 9/24/96 **SWEEPS No:** N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
William & Ed Sheehan	1236 Bay Street Alameda, CA 94501	(510) 522-0978

<u>Tank No:</u>	<u>Size in gal:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	1,500	heating oil	removed	9/17/96

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Holes noted on south end of tank.

Site characterization complete? YES

Date approved by oversight agency: March 11, 1997

Monitoring Wells installed? No

Depth to groundwater: Groundwater was noted at ~13-feet bgs from a hand auger placed at the bottom of the tank excavation on November 8, 1996.

Flow direction: Unknown

Most sensitive current use: Residential zoning.

Are drinking water wells affected? There are no wells within 0.5-mile radius of the site (refer to attached map and well description table from the Alameda County Public Works Agency). **Aquifer name:** Merritt Sand

Leaking Underground Fuel Storage Tank Program

Comments (Depth of Remediation, etc.): See "Additional Comments" section.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan?

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan?

Does corrective action protect public health for current land use? **YES**

Site management requirements: **If the groundwater beneath the site is utilized in the future for drinking water or irrigation, the local regulatory agency shall be notified and the groundwater shall be analyzed for heating oil constituents and a determination made as to whether this groundwater may pose a health threat.**

Should corrective action be reviewed if land use changes? **Refer to the above discussion under "site management requirements".**

List enforcement actions taken: **None**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Juliet Shin**
Signature: *Juliet Shin*

Title: **Senior HMS**
Date: *3/18/97*

Reviewed by
Name: **Eva Chu**
Signature: *Eva Chu*

Title: **Hazardous Materials Specialist**
Date: *3/13/97*

Name: **Thomas Peacock**
Signature: *Thomas Peacock*

Title: **Supervising HMS**
Date: *3-27-97*

VI. RWQCB NOTIFICATION

Date Submitted to RB:
RWQCB Staff Name: **Kevin Graves**

RB Response: *Approved*
Title: **San. Engineering Assoc.** Date:

Kevin Graves *4/21/97*

Leaking Underground Fuel Storage Tank Program

VII. ADDITIONAL COMMENTS, DATA, ETC.

The property is currently occupied by an apartment complex in a residential area. One 1,500-gallon heating oil underground storage tank (UST) was removed from the site on September 16, 1996 and hauled to Erickson, Inc. in Richmond, California. This UST is thought to have been installed in 1929. According to the County's Inspection notes, 90% of the UST was filled with concrete and the remainder of the UST was filled with a mixture of diesel and water when the tank was exposed in September 1996. A total of 240 gallons of the diesel/water mixture as well as rinsate water was vacuumed out and hauled off site by Evergreen Environmental Services, Newark, California.

The UST showed signs of corrosion and pitting. At least two 1/4-inch diameter holes were noted in the south end and bottom of the UST. The tank bottom was located at ~7-feet below ground surface (bgs).

Two soil samples were collected approximately 2 feet beneath the western and eastern ends of the UST at ~9-feet bgs. Additionally, one four-point composite soil sample was collected from the excavated soil, which was temporarily placed back into the pit on top of visqueen lining to stabilize the excavation pit (refer to attached figure for sample locations). The samples were analyzed for Total Petroleum Hydrocarbons as diesel (TPHd) and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Analysis results of the soil samples identified 4,400 parts per million (ppm) TPHd, 0.017ppm benzene, 0.029ppm toluene, 0.110ppm ethylbenzene, and 0.110ppm total xylenes beneath the west end of the UST; and 18ppm TPHd, 0.007ppm toluene, 0.008ppm ethylbenzene, and 0.04ppm total xylenes beneath the east end of the UST. The stockpiled soil sample identified only 24ppm TPHd.

On November 7, 1996, work began to excavate out the formerly backfilled soils above the visqueen lining, and to overexcavate the elevated contaminant concentrations identified at the bottom of the west end of the tank pit. Two water lines were broken in the process: one broken water line was due to a backhoe accident and the other larger broken water line was due to the fact that the sidewall had caved in and undermined the concrete sidewalk above the water lines. Water from the lines seeped into the pit and into the groundwater aquifer beneath the pit (please refer to attached inspection notes). Prior to the water line breakage, the tank pit had been excavated down to ~9-feet bgs, which was the depth of the original tank excavation. On November 8, 1996, three soil samples (Sample #'s 4, 5, and 6) were collected from the west end of the excavation with a hand auger at approximately 12-, 11-, and 11.5-feet bgs (refer to attached figure and table). These three samples were analyzed for TPHd and BTEX. Analysis of one soil sample, Sample #4, identified 1,100ppm TPHd, 0.015ppm toluene, 0.07ppm ethylbenzene, and 0.056ppm total xylenes, and the other two samples did not identify contaminants above detection limits. Based on these results, it appears that the elevated contaminant concentrations initially identified at the west end of the tank pit is limited in extent.

This office is recommending case closure for this site for the following reasons:

- o Based on the analytical results of soil samples collected from the UST pit, the observed soil contamination appears to be limited in extent.
- o Benzene, which is a known carcinogen and generally the primary contaminant of concern in petroleum, was not identified in the final round of soil samples collected from below the bottom of the tank excavation. The concentrations of aromatic hydrocarbons that were identified in the soil samples (toluene, ethylbenzene, and total xylenes) did not exceed the human health threshold values

Leaking Underground Fuel Storage Tank Program

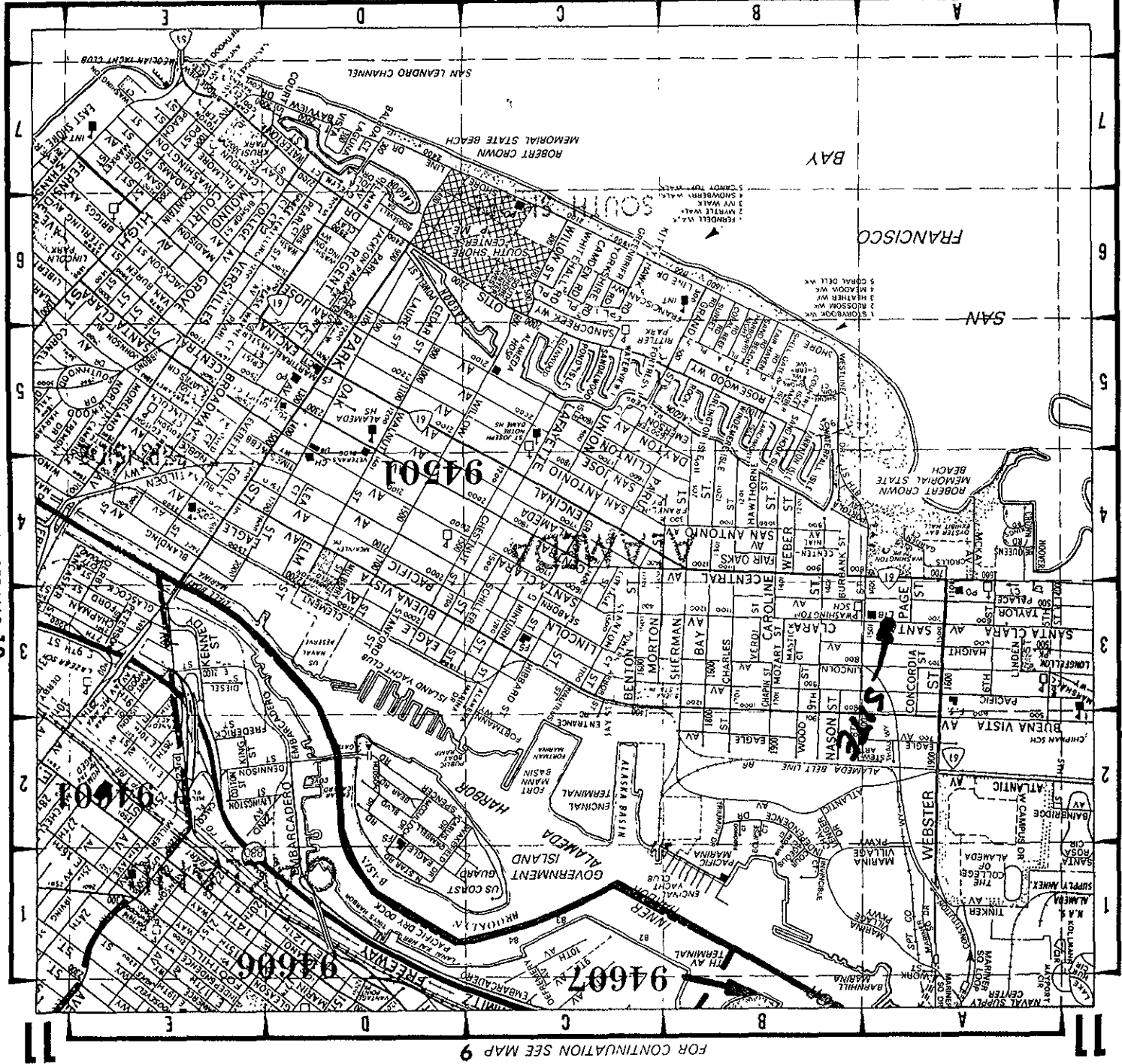
listed for a residence in the Tier 1 look-up table of the American Society For Testing and Materials' Risk-Based Corrective Action guidelines (E-1739-95).

- o Although groundwater samples were not collected from the excavation, there appears to be no drinking water threat due to the fact that there are no drinking water wells located within a 0.5-mile radius of the site.
- o Due to the low to Non Detect levels of BTEX in the soil samples collected from the pit, it is likely that groundwater beneath the site contains low to NonDetect levels of these aromatic hydrocarbons in the groundwater. Therefore, there appears to be a very low risk to the human health of the local residence from volatilization of groundwater contaminants into indoor and outdoor air.

470. 472. 474. 476. 478. 480. 482. 484. 486. 488. 490.

FOR CONTINUATION SEE MAP 8

— N — COPYRIGHT © 1990 BY Thomas Cox Maps



FOR CONTINUATION SEE MAP 9

FOR CONTINUATION SEE MAP 21

FOR CONTINUATION SEE MAP 12

DETAIL

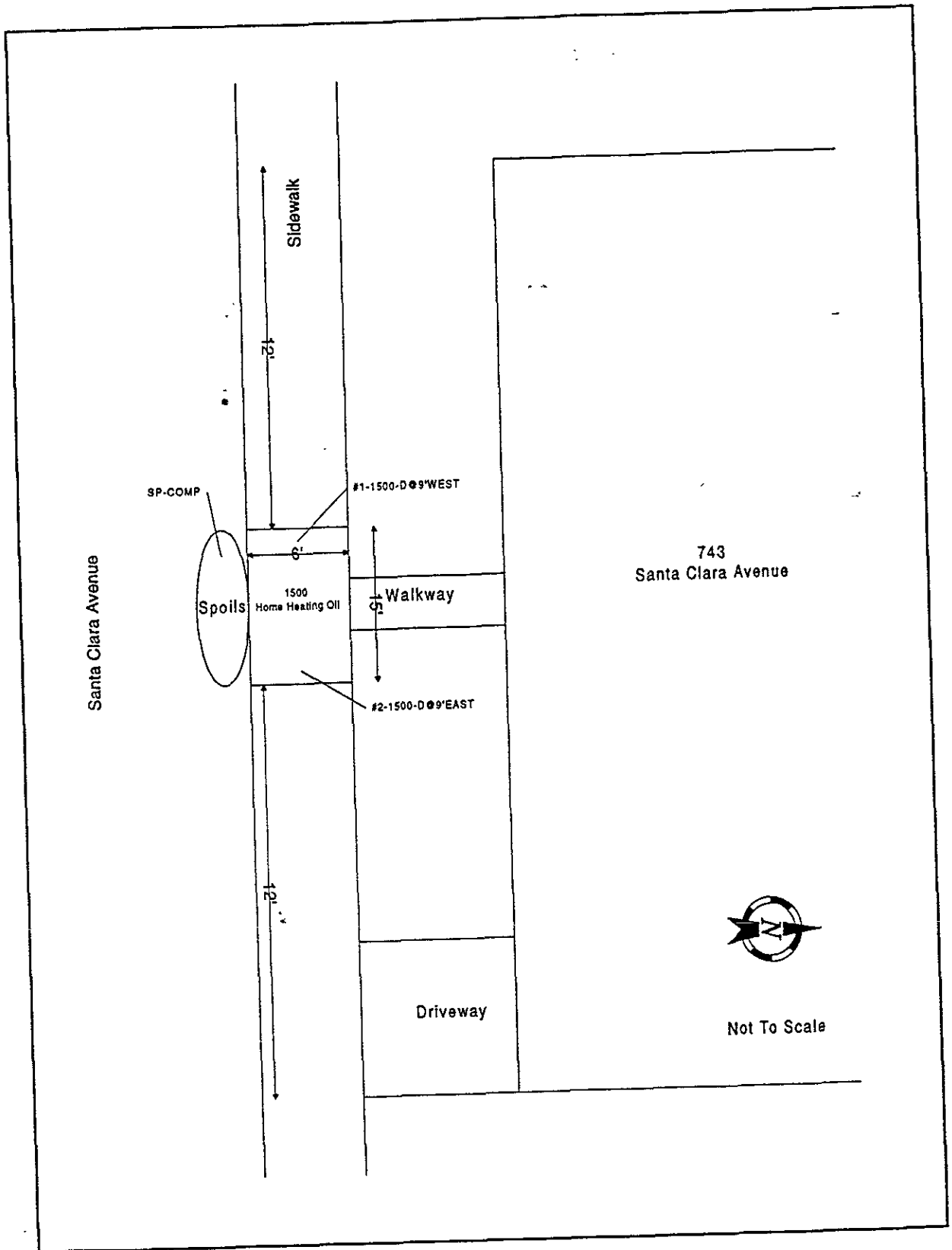
ALAMEDA CO. ZIP

1,500

1,477

1,488

1,485



Site layout and soil sampling locations.

Report of Over Excavation of Hydrocarbon Impacted Soil
743 Santa Clara Avenue
Alameda, California

Introduction:

HK2, Inc./SEMCO was contracted to remove one home heating oil underground storage tank (UST) from the residential site located at 743 Santa Clara Avenue in Alameda California. The UST was located beneath the sidewalk on the north side of Santa Clara Avenue. The tank was removed on September 17, 1996 under the direction of Juliet Shin of the Alameda County Environmental Health Services. Upon removal of the tank it was identified that the UST had at least two holes in the west end of the tank due to corrosion. The soil was sandy. There was some hydrocarbon odor and discoloration in the west end of the excavation. Two soil samples were collected from the excavation and one composite sample was collected from the excavated material. Soil sample #1-1500-D@9'WEST was collected from the west end of the excavation at 9' below ground surface (bgs.). This sample had strong odor and discoloration and contained 4400 mg/Kg Total Petroleum Hydrocarbons as Diesel (TPH-D). Soil sample #2-1500-D@9' EAST was collected from the excavation at 9' bgs. This sample did not have any significant odor or discoloration and contained only 18 mg/Kg TPH-D. The sample collected from the stockpiled material contained only 24 mg/Kg TPH-D. This stockpiled soil was placed back in the excavation. A layer of 6 mil visqueen was placed in the excavation. The clean fill material was placed on top of the visqueen. The following is a summary of the sampling results from the UST removal.

| ID # | Sample | TPH-D
mg/Kg | Benzene
mg/Kg | Toluene
mg/Kg | Ethylbenzene
mg/Kg | Xylenes
mg/Kg |
|------|------------------|----------------|------------------|------------------|-----------------------|------------------|
| 1 | #1-1500-D@9'WEST | 4400 | .017 | .029 | .110 | .110 |
| 2 | #2-1500-D@9'EAST | 18 | ND | .007 | .008 | .04 |
| 3 | SP-COMP | 24 | ND | ND | ND | ND |

A letter dated September 23, 1996 was issued from Juliet Shin of the Alameda County Environmental Health Services. The letter basically stated that the soil from the west end of the excavation, that contained the highest levels of TPH-D, would have to be removed (over excavated) and disposed of at a class II soil recycling center. The objective was to remove the source of the soil contamination down to ~1,000 mg/Kg (ppm) TPH-D and have no BTEX. See Appendix for a copy of letter dated September 23, 1996.

On November 4, 1996 a work plan for the over excavation of the home heating oil tank site was submitted to Juliet Shin. On November 4, 1996 the work plan was accepted by Juliet Shin. See Appendix for copy of letters dated November 4, 1996.

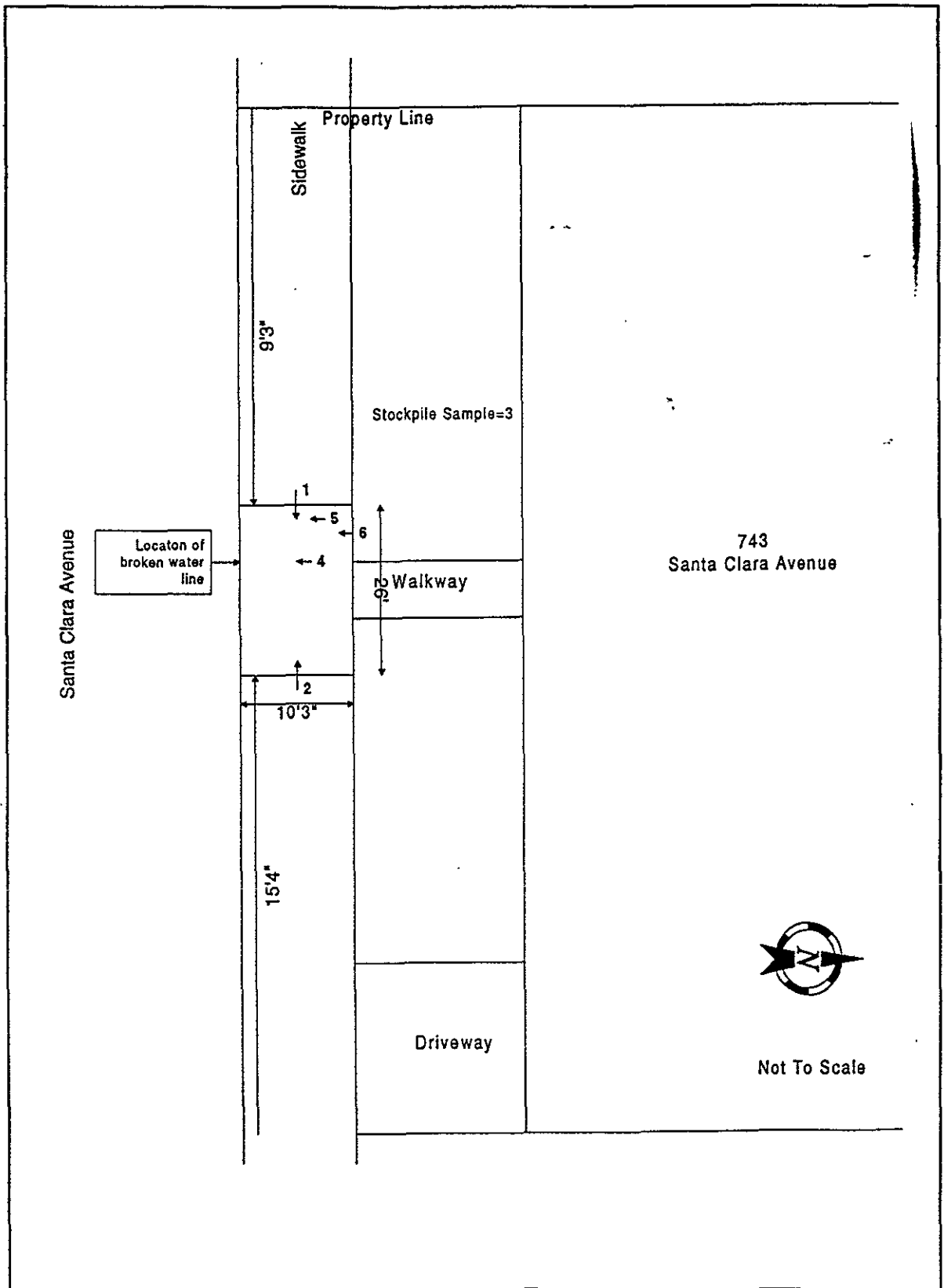
Over Excavation Activities Begin:

On November 7, 1996 over excavation began in the morning. During excavation a water line on the north side of the excavation was inadvertently broken. Approximately 110 gallons of water was pumped from the excavation into two 55-gallon drums. This water was disposed of December 13, 1996 under Manifest #96338321 by Evergreen Environmental Services. See Appendix B for copy of invoice with manifest number.

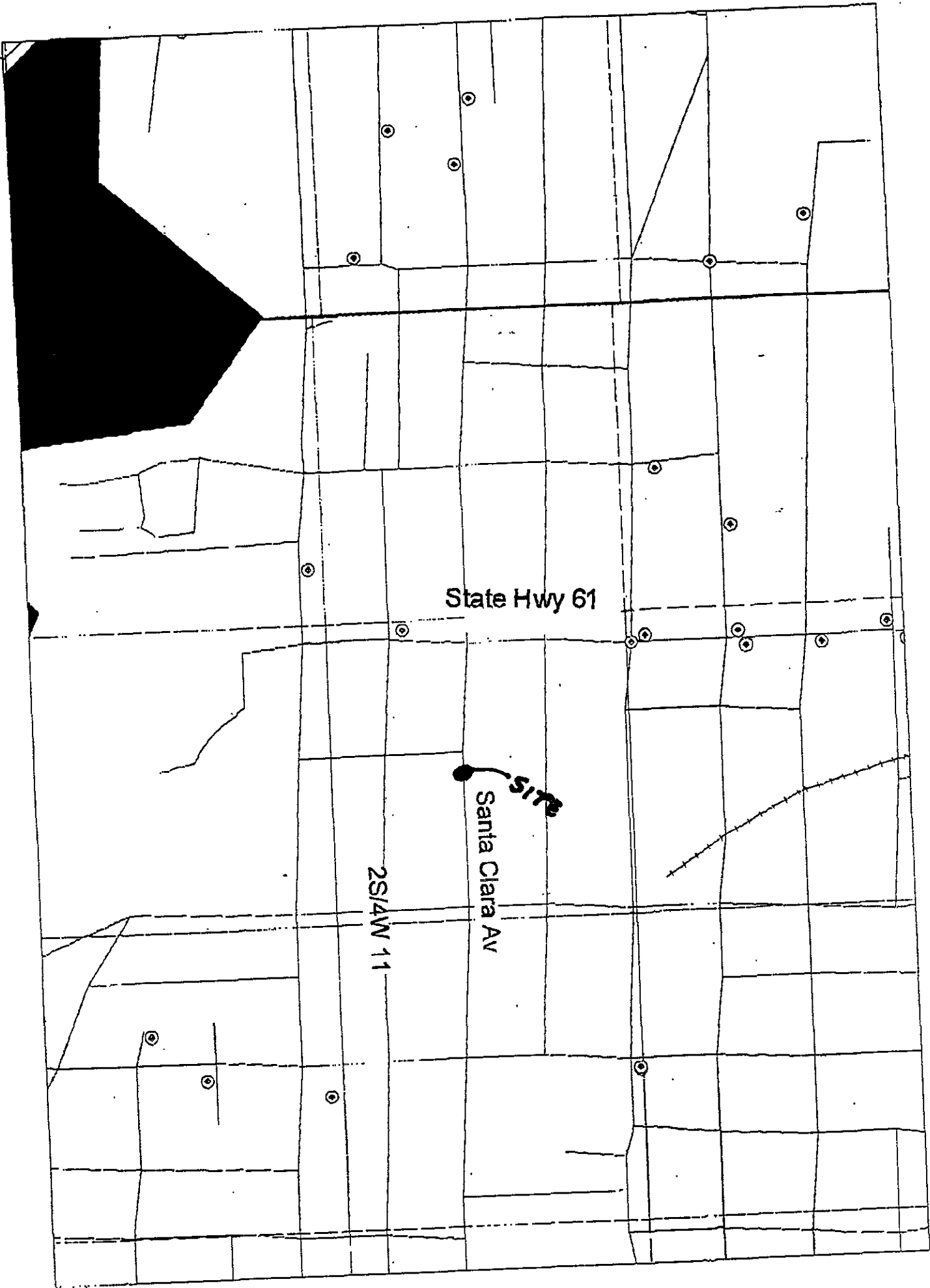
The clean fill material from the top of the former tank site was excavated and placed on a piece of visqueen. The original stockpiled material (from the tank removal) was reached at approximately 2' bgs. This material was removed from the excavation and placed on a separate piece of visqueen. As the material was removed from the excavation it was screened with a photo ionizer detector (PID) for contamination. All material that was obviously contaminated was placed directly in the back of HK2, Inc. truck for transport to Bay Area Soil, a class II recycle center. See Appendix B for copy of Non-Hazardous Material Manifest. The target depth of 9'+ bgs. was reached on the west and east ends of the excavation. After the pit was excavated down to 9'+ bgs. the soil beneath the sidewalk sloughed into the pit and the sidewalk collapsed. This caused a water line along the street side of the sidewalk to break and water to rush into the excavation. The water overflowed from the excavation and was diverted into the storm drain. The inspector, Ms Juliet Shin, noted in her notes that the water was not likely contaminated, because the leak was shallow (around 1' bgs) and went directly into the street without contacting the contaminated soil. Part of the excavation was backfilled for safety reasons. See Appendix for copy of inspector's notes.

On November 8, 1996 three soil samples were collected from the west end of the excavation. The soil samples were collected by pushing a 4" diameter PVC into the soil with the hydraulics from the backhoe. Hand augering was performed inside of the PVC because of the wet soil conditions. Soil samples were collected with a slide hammer. Ground water was found at 13' bgs. Soil sample *MID-W@12'* was collected 17' from the westerly property line and 5' from the curb line. This sample was collected at a depth of 12' bgs. Soil sample *2-MID-W@11'* was collected 12'4" from the westerly property line and 5' from the curb line. This sample was collected at a depth of 11' bgs. Soil sample *4-MID-N@11.5'* was collected 14' from the westerly property line and 8' from the curb line near the northerly edge of the excavation. This sample was collected at a depth of 11.5' bgs. See page 4 for site layout and soil sampling locations. The following is a summary of the sampling results.

| ID # | Sample | TPH-D
mg/Kg | Benzene
mg/Kg | Toluene
mg/Kg | Ethybenzene
mg/Kg | Xylenes
mg/Kg |
|------|---------------|----------------|------------------|------------------|----------------------|------------------|
| 4 | MID-W@12" | 1100 | ND | .015 | .070 | .056 |
| 5 | 2-MID-W@11' | ND | ND | ND | ND | ND |
| 6 | 4-MID-N@11.5' | ND | ND | ND | ND | ND |



Site Layout and Soil Sampling Locations



State Hwy 61

Santa Clara Av

SITE

2S14W 11

#578 P07

ID: ALAMEDA CO PUBLIC WK FAX NO: 510/670-5262

MAR-12-'97 WED 10:13

| Tr | Section | Address | Longcity | Owner | Update | Xcoord | Ycoord | Matchlevel |
|-------|---------|---------------------------|----------|---------------------------|------------|-----------|----------|------------|
| 2S/4W | 11F 2 | 1601 Webster Street | Alameda | Shell Oil Company | 05/30/1990 | 122276100 | 37775665 | 0 |
| 2S/4W | 11F 3 | 1601 Webster Street | Alameda | Shell Oil Company | 05/30/1990 | 122276100 | 37775665 | 0 |
| 2S/4W | 11C 3 | 1701 Webster Street | Alameda | Bernita Leskowski | 07/09/1990 | 122276100 | 37776735 | 0 |
| 2S/4W | 11C 4 | 1701 Webster Street | Alameda | Bernita Leskowski | 07/09/1990 | 122276100 | 37776735 | 0 |
| 2S/4W | 11C 5 | 1701 Webster Street | Alameda | Bernita Leskowski | 07/09/1990 | 122276100 | 37776735 | 0 |
| 2S/4W | 2P 1 | Atlantic & Webster | Alameda | City of Alameda | 03/28/1991 | 122275900 | 37780000 | 0 |
| 2S/4W | 2N | WEBSTER ST & ATLANTIC AVE | Alameda | PERALTA COMMUNITY COLLEGE | 01/21/1987 | 122275900 | 37780000 | 0 |
| 2S/4W | 10A 1 | 462 BUENA VISTA | Alameda | JOHN CAVALLO | 08/02/1984 | 122282149 | 37777683 | 2 |
| 2S/4W | 10A 2 | 441 PACIFIC & 5TH | Alameda | G.S. STAGNARO | 08/02/1984 | 122281500 | 37778800 | 0 |
| 2S/4W | 10H 1 | 447 TAYLOR AVE | Alameda | A.E. BRYANT | 08/02/1984 | 122283659 | 37772952 | 0 |
| 2S/4W | 10H 2 | 427 SANTA CLARA AVE | Alameda | RICHARD FAUCETT | 08/02/1984 | 122284079 | 37773900 | 0 |
| 2S/4W | 10H 3 | 482 SANTA CLARA AV | Alameda | PG&E | 01/17/1985 | 122283117 | 37773700 | 0 |
| 2S/4W | 10J 1 | 1417 5TH ST | Alameda | RICHARD RUTH | 08/02/1984 | 122281800 | 37772485 | 0 |
| 2S/4W | 11C | 1916 WEBSTER ST | Alameda | ALAMEDA HOUSING AUTH | 10/06/1986 | 122275879 | 37778733 | 0 |
| 2S/4W | 11C 1 | 1916 WEBSTER ST | Alameda | ALAMEDA HOUSING AUTH | 10/06/1986 | 122275879 | 37778733 | 0 |
| 2S/4W | 11C 2 | 1916 WEBSTER ST | Alameda | ALAMEDA HOUSING AUTH | 10/06/1986 | 122275879 | 37778733 | 0 |
| 2S/4W | 11D 1 | 635 PACIFIC ST | Alameda | CITY OF ALAMEDA (F/H #2) | 07/22/1986 | 122277647 | 37776700 | 2 |
| 2S/4W | 11E 1 | 1614 6TH ST | Alameda | DANIEL ROBINSON | 08/02/1984 | 122278526 | 37775859 | 0 |
| 2S/4W | 11F 1 | 1601 WEBSTER & LINCOLN | Alameda | SHELL SERVICE STATION | 02/23/1988 | 122276000 | 37775500 | 0 |
| 2S/4W | 11K 1 | 801 SAN ANTONIO AVE | Alameda | MRS. VAILE | 08/02/1984 | 122270508 | 37769783 | 0 |
| 2S/4W | 11K 2 | 820 CENTENNIAL AVE | Alameda | LAWRENCE PICETTI | 02/24/1988 | 122269838 | 37770400 | 0 |
| 2S/4W | 11M 1 | 845 CENTRAL | Alameda | PAUL MARRETT | 08/02/1984 | 122277265 | 37771800 | 2 |
| 2S/4W | 11C 6 | 701 Atlantic Ave | Alameda | Alameda Housing Authority | 03/09/1992 | 122272704 | 37779526 | 1 |
| 2S/4W | 11K 3 | 905 Central Ave | Alameda | Watson Butcher | 08/14/1992 | 122269538 | 37771830 | 1 |
| 2S/4W | 11C | 1900 Webster St | Alameda | Taco Bell U-14 | 09/23/1992 | 122278138 | 37778429 | 1 |
| 2S/4W | 2P 2 | Webster & Adantic | Alameda | College of Alameda MW-1 | 09/24/1992 | 122275900 | 37780000 | 1 |
| 2S/4W | 2P 3 | Webster & Adantic | Alameda | College of Alameda MW-2 | 09/24/1992 | 122275900 | 37780000 | 1 |
| 2S/4W | 2P 4 | Webster & Atlantic | Alameda | College of Alameda MW-3 | 09/24/1992 | 122275900 | 37780000 | 1 |
| 2S/4W | 11C 7 | 1916 Webster St | Alameda | Alameda Housing Auth.MW-3 | 09/30/1992 | 122275879 | 37778733 | 1 |
| 2S/4W | 11G 1 | 901 Lincoln Avenue | Alameda | Steve Chrissanthos MW-1 | 04/30/1993 | 122269768 | 37775414 | 1 |
| 2S/4W | 11G 2 | 901 Lincoln Avenue | Alameda | Steve Chrissanthos MW-2 | 04/30/1993 | 122269768 | 37775414 | 1 |
| 2S/4W | 11G 3 | 901 Lincoln Avenue | Alameda | Steve Chrissanthos MW-3 | 04/30/1993 | 122269768 | 37775414 | 1 |
| 2S/4W | 11C 8 | 1900 Webster St. | Alameda | Dolan Foster Enterprises | 06/16/1993 | 122275877 | 37778656 | 1 |
| 2S/4W | 11C 9 | 1900 Webster St. | Alameda | Dolan Foster Enterprises | 06/16/1993 | 122275877 | 37778656 | 1 |
| 2S/4W | 11C10 | 1900 Webster St. | Alameda | Dolan Foster Enterprises | 06/16/1993 | 122275877 | 37778656 | 1 |
| 2S/4W | 11C11 | 1900 Webster St. | Alameda | Dolan Foster Enterprises | 06/16/1993 | 122275877 | 37778656 | 1 |
| 2S/4W | 11C12 | 1601 Webster St. | Alameda | Shell Oil Company | 06/17/1993 | 122276088 | 37775662 | 1 |
| 2S/4W | 11C13 | 1716 Webster St. | Alameda | BP Oil Co. #11104 | 06/18/1993 | 122275900 | 37776819 | 1 |
| 2S/4W | 11C14 | 1716 Webster St. | Alameda | BP Oil Co. #11104 | 06/18/1993 | 122275900 | 37776819 | 1 |
| 2S/4W | 11C15 | 1716 Webster St. | Alameda | BP Oil Co. #11104 | 06/18/1993 | 122275900 | 37776819 | 1 |
| 2S/4W | 11C16 | 1802 Webster St. | Alameda | Chevron B-7 | 07/13/1993 | 122275882 | 37777674 | 1 |
| 2S/4W | 11C17 | 1802 Webster St. | Alameda | Chevron B-8 | 07/13/1993 | 122275882 | 37777674 | 1 |
| 2S/4W | 11C18 | 1802 Webster St. | Alameda | Chevron B-9 | 07/13/1993 | 122275882 | 37777674 | 1 |
| 2S/4W | 11C19 | 1716 Webster St. | Alameda | BP Oil Co. #11104 MW-4 | 07/15/1993 | 122275880 | 37776819 | 1 |
| 2S/4W | 11C20 | 1716 Webster St. | Alameda | BP Oil Co. #11104 MW-5 | 07/15/1993 | 122275880 | 37776819 | 1 |
| 2S/4W | 11F 4 | 1435 Webster St. | Alameda | John Ferrar MW-1 | 07/15/1993 | 122276327 | 37772858 | 1 |
| 2S/4W | 11F 5 | 1435 Webster St. | Alameda | John Ferrar MW-2 | 07/15/1993 | 122276327 | 37772858 | 1 |
| 2S/4W | 11F 6 | 1435 Webster St. | Alameda | John Ferrar MW-3 | 07/15/1993 | 122276327 | 37772858 | 1 |
| 2S/4W | 11C | 1601 Webster St. | Alameda | Shell Oil Company | 07/22/1993 | 122276090 | 37775665 | 1 |
| 2S/4W | 11G | 901 Lincoln Avenue | Alameda | Steve Chrissanthos | 07/22/1993 | 122269740 | 37775416 | 1 |
| 2S/4W | 11D 2 | 635 Pacific Ave. | Alameda | Fire Station #2 MW-2 | 07/28/1993 | 122277637 | 37776700 | 1 |
| 2S/4W | 11D 3 | 635 Pacific Ave. | Alameda | Fire Station #2 MW-3 | 07/28/1993 | 122277637 | 37776700 | 1 |
| 2S/4W | 11D 4 | 635 Pacific Ave. | Alameda | Fire Station #2 MW-4 | 07/28/1993 | 122277637 | 37776700 | 1 |

→
Collect

#1570 P08

MAR-12-'97 WED 10:14 ID:ALAMEDA CO PUBLIC WK FAX NO:510/670-5262

| Trcqq | Rsc code | Phone | City | Drilldate | Elevation | Totaldepth | Waterdepth | Diameter | Use | Log | Wq | Wl | Yield | Dtwcalc | Old dbase |
|-----------|----------|---------|------|-----------|-----------|------------|------------|----------|-------|-----|----|----|-------|---------|-----------|
| 2S/4W 11F | 49 | | OALA | 4/90 | | 14 | 21 | 8 | 4MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11F | 50 | | OALA | 4/90 | | 14 | 20 | 8 | 4MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 489 | | OALA | 1/89 | | 0 | 19 | 8 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 490 | | OALA | 1/89 | | 0 | 19 | 8 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 491 | | OALA | 1/89 | | 0 | 19 | 8 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 2P | 1532 | | OALA | 9/90 | | 0 | 7 | 0 | 4TES | D | 0 | 0 | 0 | | 0D |
| 2S/4W 2N | 4024 | | OALA | 10/86 | | 6 | 102 | 6 | OBOR | G | 0 | 0 | 0 | | 0D |
| 2S/4W 10A | 4039 | | OALA | 1/85 | | 0 | 23 | 4 | 5IRR | G | 0 | 0 | 0 | | 0D |
| 2S/4W 10A | 4040 | | OALA | 1/86 | | 0 | 315 | 71 | 6IRR | G | 0 | 0 | 0 | | 0D |
| 2S/4W 10H | 4052 | | OALA | 5/77 | | 0 | 35 | 9 | 6IRR | D | 0 | 0 | 0 | | 0D |
| 2S/4W 10H | 4053 | | OALA | 5/77 | | 0 | 30 | 5 | 0IRR | D | 0 | 0 | 0 | | 0D |
| 2S/4W 10H | 4054 | | OALA | 6/76 | | 0 | 120 | 0 | 0CAT | D | 0 | 0 | 0 | | 0D |
| 2S/4W 10J | 4055 | | OALA | 1/77 | | 0 | 45 | 15 | 0IRR | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 4058 | | OALA | 08/86 | | 0 | 12 | 5 | 0BOR | G | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 4059 | | OALA | 08/86 | | 0 | 14 | 4 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 4060 | | OALA | 08/86 | | 0 | 10 | 5 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11D | 4061 | 5224100 | OALA | 6/86 | | 0 | 23 | 5 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11E | 4062 | | OALA | 6/77 | | 0 | 25 | 5 | 6IRR | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11F | 4083 | | OALA | 9/87 | | 0 | 20 | 7 | 3MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11K | 4072 | | OALA | 1/68 | | 0 | 0 | 8 | 36IRR | G | 0 | 0 | 0 | | 0D |
| 2S/4W 11K | 4073 | | OALA | 10/87 | | 0 | 70 | 18 | 6IRR | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11M | 4074 | | OALA | 10/77 | | 0 | 88 | 17 | 8IND | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 7336 | | OALA | 7/91 | | 0 | 15 | 4 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11K | 7721 | | OALA | 8/91 | | 0 | 75 | 15 | 0MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 7970 | | OALA | 5/92 | | 0 | 20 | 16 | 0BOR | G | 0 | 0 | 0 | | 0D |
| 2S/4W 2P | 8001 | | OALA | 2/92 | 10 | 0 | 16 | 5 | 2MON | D | 0 | 0 | 0 | | 96D |
| 2S/4W 2P | 8002 | | OALA | 2/92 | 100 | 0 | 16 | 5 | 2MON | D | 0 | 0 | 0 | | 94D |
| 2S/4W 2P | 8003 | | OALA | 2/92 | 101 | 0 | 17 | 0 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 8173 | | OALA | 7/91 | | 0 | 18 | 4 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11G | 0 | | OALA | 12/92 | | 0 | 15 | 9 | 2MON | D | 0 | 0 | 0 | | 2D |
| 2S/4W 11G | 0 | | OALA | 12/92 | | 0 | 18 | 14 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11G | 0 | | OALA | 12/92 | | 0 | 18 | 14 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 0 | | OALA | 8/92 | | 0 | 18 | 0 | 4MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 0 | | OALA | 8/92 | | 0 | 18 | 0 | 4MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 0 | | OALA | 8/92 | | 0 | 18 | 0 | 4MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 0 | | OALA | 8/92 | | 0 | 19 | 0 | 4MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 0 | | OALA | 2/93 | | 0 | 20 | 0 | 4MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 0 | | OALA | 7/92 | | 0 | 17 | 0 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 0 | | OALA | 7/92 | | 0 | 17 | 0 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 0 | | OALA | 7/92 | | 0 | 17 | 0 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 0 | | OALA | 3/93 | | 0 | 16 | 0 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 0 | | OALA | 3/93 | | 0 | 16 | 0 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 0 | | OALA | 3/93 | | 0 | 16 | 0 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 0 | | OALA | 3/93 | | 0 | 15 | 0 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 0 | | OALA | 3/93 | | 0 | 15 | 0 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11F | 0 | | OALA | 1/93 | | 0 | 24 | 0 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11F | 0 | | OALA | 1/93 | | 0 | 24 | 0 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11F | 0 | | OALA | 1/93 | | 0 | 24 | 0 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11C | 0 | | OALA | 10/92 | | 0 | 13 | 0 | 0BOR | G | 0 | 0 | 0 | | 0D |
| 2S/4W 11G | 0 | | OALA | 12/92 | | 0 | 16 | 0 | 0BOR | G | 0 | 0 | 0 | | 0D |
| 2S/4W 11D | 0 | | OALA | 8/92 | | 0 | 18 | 0 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11D | 0 | | OALA | 8/92 | | 0 | 18 | 0 | 2MON | D | 0 | 0 | 0 | | 0D |
| 2S/4W 11D | 0 | | OALA | 8/92 | | 0 | 20 | 0 | 2MON | D | 0 | 0 | 0 | | 0D |