

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



7

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

June 30, 2006

Mr. Denis Brown  
Shell Oil Products US  
20945 S. Wilmington Ave.  
Carson, CA 90810-1039

Joseph H. Chan and Ivy T. Wong Trust  
21213-B Hawthorne Blvd., #5146  
Torrance, CA 94609

Subject: Fuel Leak Case No. [REDACTED] Shell, 500 40<sup>th</sup> Street, Oakland, CA

Dear Denis Brown and Joseph H. Chan and Ivy T. Wong Trust:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the reports entitled, "Site Conceptual Model," dated November 21, 2005, "Site Conceptual Model Addendum," dated May 5, 2006, and "First Quarter 2006 Monitoring Report," dated May 5, 2006. The reports were prepared on Shell's behalf by Cambria Environmental Technology, Inc. The "Site Conceptual Model," dated November 21, 2005, included a request for consideration of site closure.

In correspondence dated December 9, 2005, ACEH requested additional information on several technical issues and one additional groundwater monitoring event in the first quarter of 2006 prior to consideration of site closure. The information provided by Shell in the "Site Conceptual Model Addendum," dated May 5, 2006 adequately addresses the technical comments and request for additional information in our December 9, 2005 correspondence. No further investigation of preferential pathways or volatile organic compounds in groundwater is required at this time.

Groundwater monitoring has been ongoing at this site since 1989 and concentrations have generally progressively decreased over time. As an example, the concentration of total petroleum hydrocarbons as gasoline (TPHg) detected in groundwater from off-site monitoring well OMW-6 decreased from 26,000 micrograms per liter ( $\mu\text{g/L}$ ) in August 1991 to  $<50 \mu\text{g/L}$  in April 2005. However, groundwater monitoring results for the first quarter of 2006 indicate that the concentrations of fuel hydrocarbons increased dramatically in two of the off-site wells directly downgradient from the site. The concentration of total petroleum hydrocarbons as gasoline (TPHg) detected in groundwater from off-site monitoring well OMW-6 increased from 3,600 micrograms per liter ( $\mu\text{g/L}$ ) in April 2005 to 22,700  $\mu\text{g/L}$  in March 2006. The concentration of TPHg detected in groundwater from off-site well OMW-9 increased from  $<50 \mu\text{g/L}$  in April 2005 to 10,500  $\mu\text{g/L}$  in March 2006. We request that semi-annual groundwater monitoring be resumed at the site in order to assess whether the marked increases in TPHg concentrations in the downgradient wells represent a significant, long-term change in site conditions or whether the increases represent an isolated event.

Due to the need to evaluate the recent increases in concentrations of TPHg detected in groundwater from the downgradient wells, case closure cannot be granted at this time. This decision is subject to appeal to the State Water Resources Control Board (SWRCB), pursuant to Section 25296.40 of the Health and Safety Code (Thompson-Richter Underground Storage Tank Reform Act - Senate Bill 562). Please contact the SWRCB Underground Storage Tank Program at (916) 341-5851 for information regarding the appeal process.

Please address the following technical comments, perform the proposed work, and send us the reports described below.

### **TECHNICAL COMMENTS**

1. **Groundwater Monitoring.** We request that semiannual groundwater monitoring be resumed at the site. Groundwater samples are to be collected semiannually from wells MW-2, MW-3, MW-8, OMW-6, OMW-9, and OMW-13 and analyzed for TPHg, TPHd, BTEX, and MTBE. Groundwater monitoring results are to be presented in the reports requested below.

### **TECHNICAL REPORT REQUEST**

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **November 15, 2006** – Semi-Annual Monitoring Report (Third Quarter 2006)

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

### **ELECTRONIC SUBMITTAL OF REPORTS**

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet.

Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.swrcb.ca.gov/ust/cleanup/electronic\\_reporting](http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting)).

#### PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "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." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

#### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

#### UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

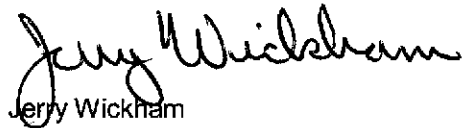
#### AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Denis Brown  
Joseph H. Chan and Ivy T. Wong Trust  
June 30, 2006  
Page 4

If you have any questions, please call me at (510) 567-6791.

Sincerely,



Jerry Wickham  
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: David Gibbs  
Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Emeryville, CA 94608

Donna Drogos, ACEH  
Jerry Wickham, ACEH  
File

RO264

**Wickham, Jerry, Env. Health**

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**From:** Wickham, Jerry, Env. Health  
**Sent:** Tuesday, April 04, 2006 10:56 AM  
**To:** Gibbs, David  
**Cc:** 'Brown, Denis L SOPUS-OP-COR-H'  
**Subject:** RO0264 500 40th Steet Oakland schedule

Dave,

Based on our telephone conversation today, the schedule for submittal of a Revised SCM and Quarterly Monitoring Report for Q1 2006 is extended to May 8, 2006.

Regards,

*Jerry Wickham*

Hazardous Materials Specialist  
Alameda County Environmental Health  
1131 Harbor Bay Parkway  
Suite 250  
Alameda, CA 94502-6577  
510-567-6791 phone  
510-337-9335 Fax  
[jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org)

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



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

December 9, 2005

Mr. Denis Brown  
Shell Oil Products US  
20945 S. Wilmington Ave.  
Carson, CA 90810-1039

Joseph H. Chan and Ivy T. Wong Trust  
21213-B Hawthorne Blvd., #5146  
Torrance, CA 94609

Subject: Fuel Leak Case No. [REDACTED] Shell, 500 40<sup>th</sup> Street, Oakland, CA

Dear Mr. Brown:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site and the document entitled, "Site Conceptual Model," dated November 21, 2005, prepared on Shell's behalf by Cambria Environmental Technology, Inc. The Site Conceptual Model (SCM) is subdivided into the following sections: Hydrocarbon Source, Site Characterization, Remediation Status, Well and Sensitive Receptor Survey, Risk Assessment, and Additional Recommended Data or Tasks. In the recommendations section, the SCM requests consideration of site closure.

Prior to considering case closure, ACEH requests additional information regarding potential preferential pathways at the site as discussed in technical comment 2 below and laboratory analyses for halogenated VOCs and lead scavengers in groundwater as discussed in technical comments 4 and 5. Therefore, we request that you provide the additional information discussed in the technical comments below in a revised SCM and conduct one additional groundwater monitoring event prior to consideration of site closure. Please address the following technical comments, perform the proposed work, and send us the reports described below.

**TECHNICAL COMMENTS**

1. **Chronological Summary from Previous Reports.** A previous report for the site includes a Chronological Summary for the period from 1982 to 1987. (Work Plan for Site Characterization and Remediation, Converse Environmental Consultants, April 14, 1989). Please incorporate information from this Chronological Summary (included as Attachment A) into the revised SCM requested below as appropriate.
2. **Vapors Detected in Storm Water System.** The above referenced Chronological Summary includes a statement that in July 1982, "Combustible vapors were detected in the storm sewer system in the BART station across the street." The source and pathway for the vapors to enter the storm water system are not described. Given this historic detection of vapors at the time of the leak, please evaluate whether the storm sewer system may be an ongoing

receptor for contaminated groundwater from the site. Please present this evaluation in the report requested below.

3. **Second Generation USTs.** The SCM indicates that the underground storage tanks (USTs) were removed in November 1983, following detection of a leak in the piping in 1982. Review of the case file indicates that three fiberglass USTs were apparently installed at the site in October 1984 following removal of the four Shell USTs discussed in the SCM. A sampling report and map showing the location of the three second generation USTs in the southwestern corner of the property are attached (Attachment B). Please include this information in the revised SCM requested below as appropriate.
4. **Volatile Organic Compounds in Groundwater.** Analyses for Volatile Organic Compounds (VOCs) were conducted on groundwater samples collected from monitoring wells at the site on November 18, 1993. Tetrachloroethene (PCE) was detected in groundwater from wells OMW-11 and OMW-12 at concentrations of 380 and 400 µg/L, respectively. PCE was also detected in wells MW-4, MW-5, MW-8, and OWM-10 at concentrations up to 40 µg/L. Trichloroethene, cis-1,2-dichloroethene, chloroform, 1,2-dichloroethane, and 1,1-dichloroethane were also detected. Please include halogenated VOCs as analytes during the first quarter 2006 groundwater monitoring event and present the results in the monitoring report requested below. Please also include an evaluation of the potential for the halogenated VOCs detected in on-site and off-site monitoring wells to have originated from the site.
5. **Groundwater Monitoring.** Please conduct one additional groundwater monitoring event at the site during the first quarter of 2006 prior to consideration of site closure. ACEH requests that groundwater from all on-site and off-site monitoring wells be analyzed for TPHg, TPHd, BTEX, fuel oxygenates, 1,2-dichloroethane, ethylene dibromide, and halogenated VOCs. Please present these results in the monitoring report requested below. Additional groundwater monitoring events beyond the first quarter 2006 event will not be required until consideration of case closure and further direction from ACEH.

#### **TECHNICAL REPORT REQUEST**

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **April 14, 2006** – Revised SCM and Quarterly Monitoring Report for the First Quarter 2006

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

#### ELECTRONIC SUBMITTAL OF REPORTS

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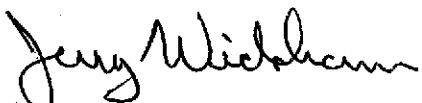
Denis Brown  
Joseph H. Chan and Ivy T. Wong Trust  
December 9, 2005  
Page 4

**AGENCY OVERSIGHT**

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If you have any questions, please call me at (510) 567-6791.

Sincerely,



Jerry Wickham  
Hazardous Materials Specialist

Attachments: Attachment A – Chronological Summary  
Attachment B – Sampling Report, September 26, 1986

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: David Gibbs  
Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Emeryville, CA 94608

Donna Drogos, ACEH  
Jerry Wickham, ACEH  
File

**TABLE 1: Chronological Summary**

<u>DATE</u>	<u>DESCRIPTION OF ACTIVITY</u>
7/82	IT installed 8 six inch diameter groundwater monitoring wells to 30 feet bgs. onsite. The wells were screened from 5 to 30 feet bgs. Combustible vapors were detected in the storm sewer system in the BART Station across the street.
7/82	IT Progress Report 1: Well installations and constructions were reported, and free product was noted in wells B-7 and B-8. Groundwater gradient was shown to be westward, towards the BART Station. (See Attachment 1 for well construction diagrams.)
11/82	IT Progress Report 6: Groundwater gradient still towards well B-3. From September 1 to November 19, 1982, IT removed 35 pints of product from B-4. Well TOCs were re-surveyed and groundwater gradient was confirmed toward B-3. Maximum product thickness was in B-4, at several inches.
12/82	IT Progress Report 7: Product thickness increased in B-3 in apparent response to rising water table. Product in B-4 remained at several inches.
1/83	IT Progress Report 8: Product in B-4 had diminished to film thickness.
2/83	IT Progress Report 9: Rainfall records were researched, and the relationship between rainfall, water table and product removed was charted by graph. Amount of product in B-4 appeared to vary inversely with water table; as water table rose with winter rains, the amount product in B-4 dropped. IT proposed that product was displaced downgradient as water table rose.
3/83	IT Progress Report 10: Vapor concentrations of TPH (expressed as percent lower explosive limit) were rising in wells B-1, B-2, B-3 and B-7. No product was measurable in B-4.
6/83	Rapid reappearance of product in well B-4, from negligible in May to 4+ feet by June 30 and 6.34 feet on July 15. Increase was also measured B-3, to a thickness of 0.66 feet in July. IT concluded that a reservoir of product existed in the tank backfill, and that as water table dropped in summer time this reservoir was allowed to escape by way of gravel lenses which were saturated at high water table seasons.
7/83	IT installed 8 inch diameter monitoring wells B-9 and B-10 to 20 feet bgs in native soils next to the tank backfill.
8/83	IT Progress Report 11: IT repeated the concept that product was released in surges through gravel lenses exposed to the water table during summer.
8/83	IT installed groundwater monitoring well B-11 and sand backfill in the southwest corner of the tank bed. No free-flowing product was encountered in this well.
9/83	IT drilled two 18 inch diameter borings to 30 feet bgs and completed same as 12 inch diameter recovery wells with screen intervals from 5 to 30 feet bgs. These wells, R-1 and R-2, were located near wells B-3 and B-4, directly west of the tank backfill.
10/83	IT purged and developed wells R-1 and R-2, holding a strong depression on the water table for 2 hours.
11/83	According to IT reference, the tanks were removed and, as part of this excavation wells R-1 and R-2 were also removed. No information was provided on tank excavation or associated soils/groundwater testing and reporting to regulatory agencies.
1/84	IT Progress Report 13: Wells B-3 and B-4 continued to contain measurable product, to thicknesses of 2 feet. In general, product thicknesses decreased during December and January. Product thicknesses also decreased after tank removal. Groundwater piezometric map showed a west-trending, low area encompassing wells R-1, R-2, B-3 and B-4. This extended offsite, suggesting a paleodrainage which controlled product collection and migration offsite.

**TABLE 1**  
**CHRONOLOGICAL SUMMARY**

**Continued**

<u>Date</u>	<u>Description of Activity</u>
5/84	IT Report: The thicknesses of product in B-3 and B-4 measured from several inches to one foot during the period January to May 1984.
7/84	IT Report: Product thicknesses increased starting in mid-May in response to lowering water tables. This pattern was similar to the pattern observed in 1983.
8/84	IT Report: The thickness of product in B-3 remained one foot, while the amount of product in B-4 decreased. IT recommended looking for possible upgradient offsite sources.
9/84	IT Report: The thickness of product in B-4 started to increase (still at less than one inch) while the thickness of product in B-3 decreased (still on the order of one foot).
10/84	IT Report: New construction was noted.
1/85	IT Report: The thickness of product of B-3 had decreased to several inches and B-4 contained negligible measurable product. This pattern of decreasing product in the winter (high water table) months was consistent with that observed in the winters of 1982-83, and 1983-84.
2/85	IT Report: Significant measurable gasoline (1.64 feet) was discovered in B-8. The gasoline appeared degraded and "old". IT concluded that this gasoline could be from the same source as that contributing to observed in wells B-3 and B-4.
6/85	IT Report: Product thicknesses in B-3, B-4 and B-8 decreased from January to mid-May, with a dramatic decrease in B-8. IT repeated its interpretation that product thickness decreased as water tables rose and increased water tables fell. IT further proposed that the product was trapped in permeable lenses, and migrated to different geographic areas as the water tables rose and fell.
12/85	IT Report: The thickness of product in B-3 increased to approximately 2 feet during the summer, showing the seasonal increase of prior years period. Simultaneously, no product was measured in B-8 after June 3, and product reappeared in B-2 in September and October. Product thickness in B-4 fluctuated at less than one foot thick during this period. IT recommended installing a recovery extraction trench along the west boundary of the property.
5/86	IT Quarterly Report: Product thickness decreased in wells B-3 and B-4 in response to seasonal rise in the water table.
6/86	IT requested permission to abandon B-6.
7/86	IT stated that Shell planned to remove the underground storage tanks in the near future.
8/86	IT Quarterly Report: IT noted seasonal decline in water table and negligible measurable product in wells B-2 and B-4, with approximately 2 feet of floating product in B-3.
9/86	A groundwater sample from B-3 contained volatile organics: 0.90 ppm; benzene: 0.32 ppm; toluene: 0.23 ppm; xylene: 0.16 ppm.
1/4/87(?)	A commercial shopping center building was erected on the property, covering wells B-2, B-6, B-7, B-9 and B-10. Wells B-1, B-3, B-4, B-5 and B-8 were covered by site parking and a rear driveway.

**BLAINE  
TECH SERVICES**P.O. BOX 5745  
SAN JOSE, CA 95150  
(408) 723-3974

September 26, 1986

Jack Quarle  
c/o Simas Properties  
P.O. Box 403  
Diablo, CA 94528

Re: Field sampling at

40th & Telegraph  
Oakland, CA  
on  
September 25, 1986SAMPLING REPORT

Sampling was performed in accordance with approved methodology at the locations shown on the accompanying site diagram. The lab numbers assigned to the samples are given on the site diagram. Samples were collected in appropriate containers, which were sealed, chilled and transported to the laboratory for analysis. Analytical services were provided by Soil And Water Laboratory with a separate report referencing their lab numbers.

Tanks

age -- unspecified  
type -- three 10,000 gallon gasoline  
reason for removal -- discontinuation of on site storage

Reportage

Submission to the Regional Water Quality Control Board and the Fire Department should include copies of both the sampling report and the laboratory report. The property owner should attach a cover letter and submit all documents together in a package.

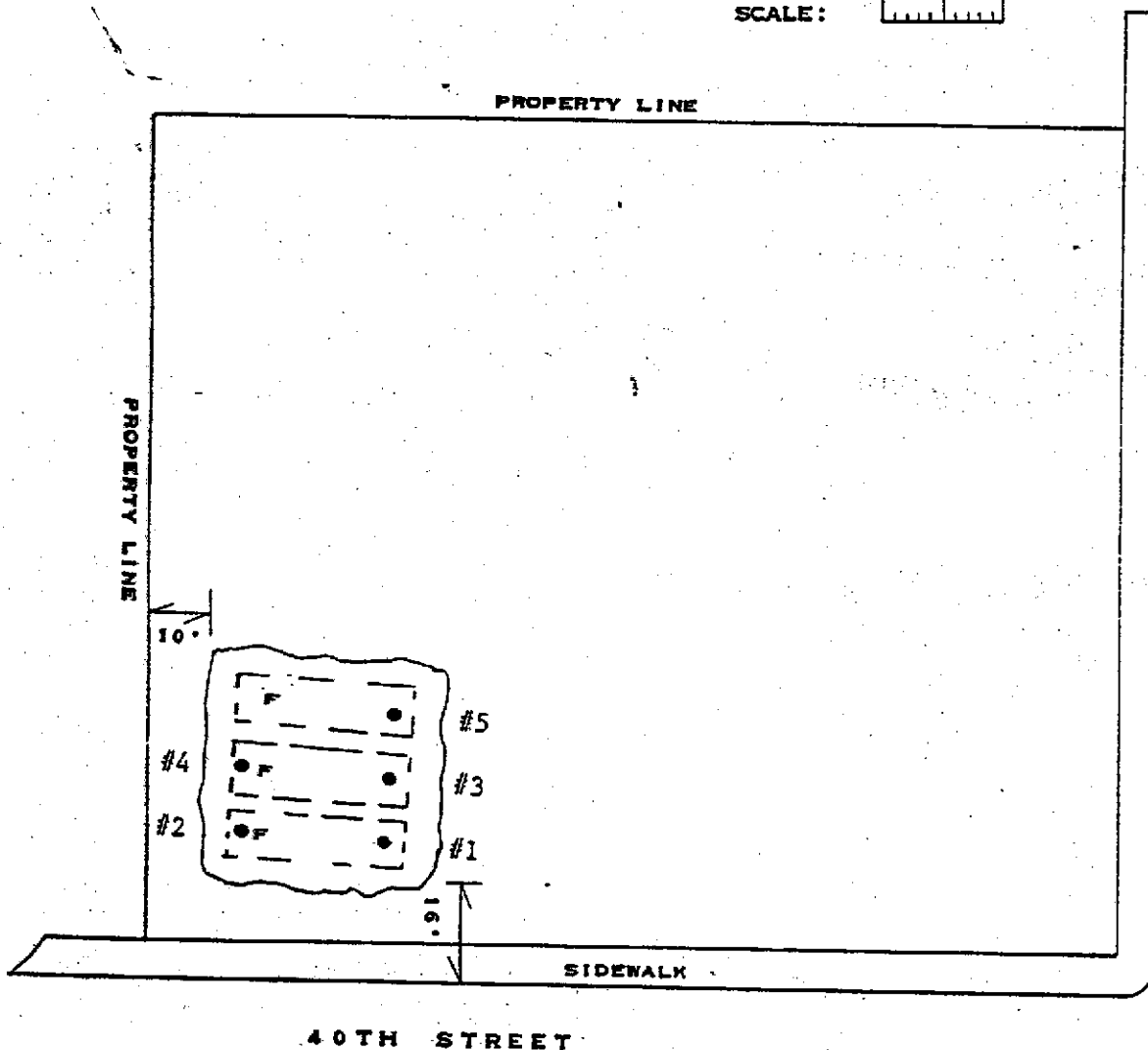
0 10 20'

SCALE:



MAP REF: THOMAS BROS.  
ALAMEDA COUNTY  
P. 4 C-2

LEGEND: F = FILL PIPE



#1 SOIL FROM 10'  
500 PPM-VAPOR  
ANALYSIS FOR GASOLINE AT  
SOIL AND WATER LABORATORY  
S & W LAB NO. 268B6-1

#2 SOIL FROM 9.5'  
ANALYSIS FOR GASOLINE  
S & W LAB NO. 286B6-2

#3 SOIL FROM 10'  
2,000 PPM-VAPOR  
ANALYSIS FOR GASOLINE  
S & W LAB NO. 268B6-3

#4 SOIL FROM 9.5'  
ANALYSIS FOR GASOLINE  
S & W LAB NO. 268B6-4

#5 SOIL FROM 10'  
2,000 PPM-VAPOR  
ANALYSIS FOR GASOLINE  
S & W LAB NO. 268B6-5

SAMPLING PERFORMED BY  
FRANK A. CLINE

DIAGRAM PREPARED BY  
TAMMIE STALLINGS

*Tammie Stallings*

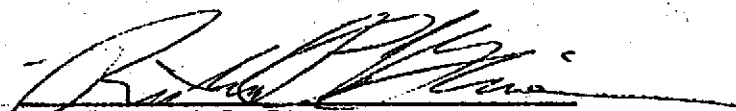
The following addresses have been listed here for your convenience:

Water Quality Control Board  
San Francisco Bay Region  
1111 Jackson Street  
Room 6040  
Oakland, CA 94607  
ATTN: Dale Bowyer

Alameda County Health  
Hazardous Materials Management  
Oakland, Ca 94612  
Attn: Edgar Howell

City of Oakland Fire Prevention Bureau  
One City Hall Plaza  
Oakland, CA 94612  
ATTN: Robert Dawson

If I can be of any further assistance, please call.



Richard C. Blaine

RCB/tls

# BLAINE TECH SERVICES

P.O. BOX 5745  
SAN JOSE, CA 95150  
(408) 723-3974

Include All of the following designation in lab reports and invoices

86268 F1

Jack Quark  
4050 d Telegraph  
Oakland

EVERYTHING written above this line is the project designation

Field sampling completed 9:30 hrs. 9-25-86 performed by R. Alu

RELEASED BY	ACCEPTED BY
<u>6:58</u> hrs. <u>9-25-86</u> <u>Alu</u>	<u>6:59</u> hrs. <u>9-25-86</u> <u>Fred Jones</u>
: hrs. - -86	: hrs. - -86
: hrs. - -86	: hrs. - -86
: hrs. - -86	: hrs. - -86

I.D.	TYPE	ANALYSIS	LAB #	PRELIMS	FINAL
#1	Soil	Gas			19 ppm
#2	↓	↓			8
#3	↓	↓			24
#4	↓	↓			5-1
#5	↓	↓			26

TURN AROUND 24 hrs. Gas.

REPORT TO: Blaine Tech Services

BILLING INVOICE TO: Sam

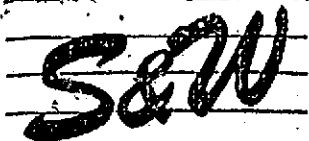
Attn  
Phone

Attn  
Verbal/Ref. PO From:

cc BLAINE TECH SERVICES (always)  
cc OTHER:

SPECIAL INSTRUCTIONS

- ( ) Phone results to RTS
- ( ) Phone results to client direct



September 30, 1986

**SOIL AND WATER  
LABORATORY**

Soil Fertility—Plant Tissue  
Pollution and Residue Control  
Drinking Water

14072 W. Park Avenue  
Boulder Creek, CA 95006

(408) 338-3053

Blaine Technical Services  
P.O. Box 5745  
San Jose, California 95150

Jack Quarie  
40th and Telegraph  
Oakland, CA

LABORATORY REPORT

Total Hydrocarbon Analysis : Gasoline

Procedure: EPA Method 5020 for Headspace Analysis

Detection Limit: 1 ppm

Received: September 25, 1986

Analyzed: September 25, 1986

S&W ID	Client ID	Concentration ppm
268B6-1	86268F1 1 soil, gas	99
268B6-2	86268F1 2 soil, gas	8
268B6 3	86268F1 3 soil, gas	27
268B6 4	86268F1 4 soil, gas	74
268B6-5	86268F1 5 soil, gas	86

Analyst

R.A. Lemon



LOP CHANGE RECORD REQUEST FORM

printed:  
04/24/2000

Mark Out What Needs Changing and Hand to LOP Data Entry  
(Name/Address changes go to Annual Programs Data Entry)

Insp:

AGENCY # : 10000      SOURCE OF FUNDS: F      SUBSTANCE: 8006619  
 StID : 3613      LOC:  
 SITE NAME: Shell Oil Former      DATE REPORTED : 07/01/1982  
 ADDRESS : 500 40th St      DATE CONFIRMED: 07/01/1982  
 CITY/ZIP : Oakland      94609      MULTIPLE RPs : Y

SITE STATUS

CASE TYPE: O CONTRACT STATUS: 4      PRIOR CODE:      EMERGENCY RESP:  
 RP SEARCH: S      DATE COMPLETED: 01/02/1992  
 PRELIMINARY ASMNT: U      DATE UNDERWAY: 06/14/1985      DATE COMPLETED:  
 REM INVESTIGATION:      DATE UNDERWAY:      DATE COMPLETED:  
 REMEDIAL ACTION:      DATE UNDERWAY:      DATE COMPLETED:  
 POST REMED ACT MON:      DATE UNDERWAY:      DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 1      DATE ENFORCEMENT ACTION TAKEN: 01/02/1992  
 LUFT FIELD MANUAL CONSID: 3HSCAWG  
 CASE CLOSED:      DATE CASE CLOSED:  
 DATE EXCAVATION STARTED : 01/01/1986      REMEDIAL ACTIONS TAKEN: NT

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Karen Petryna  
 COMPANY NAME: Equiva Services L L C  
 ADDRESS: P O Box 7869  
 CITY/STATE: Burbank, California 91501-7869

*new address*

RP#2-CONTACT NAME: Joseph Chan & I. Wong  
 COMPANY NAME: J. Chan & I. Wong Trust Et Al  
 ADDRESS: 21213-b Hawthorne Bl.5146  
 CITY/STATE: Torrence, California 94609

INSPECTOR VERIFICATION:

NAME \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

DATA ENTRY INPUT:

Name/Address Changes Only

Case Progress Changes

ANNPMS \_\_\_\_\_ LOP \_\_\_\_\_ DATE \_\_\_\_\_

LOP \_\_\_\_\_ DATE \_\_\_\_\_

LOP CHANGE RECORD REQUEST FORM

printed:  
04/24/2000

Mark Out What Needs Changing and Hand to LOP Data Entry  
(Name/Address changes go to Annual Programs Data Entry)

Insp:

AGENCY # : 10000      SOURCE OF FUNDS: F      SUBSTANCE: 8006619  
 StID : 3613      LOC:  
 SITE NAME: Shell Oil Former      DATE REPORTED : 07/01/1982  
 ADDRESS : 500 40th St      DATE CONFIRMED: 07/01/1982  
 CITY/ZIP : Oakland      94609      MULTIPLE RPs : Y

SITE STATUS

CASE TYPE: O CONTRACT STATUS: 4      PRIOR CODE:      EMERGENCY RESP:  
 RP SEARCH: S      DATE COMPLETED: 01/02/1992  
 PRELIMINARY ASMNT: U      DATE UNDERWAY: 06/14/1985      DATE COMPLETED:  
 REM INVESTIGATION:      DATE UNDERWAY:      DATE COMPLETED:  
 REMEDIAL ACTION:      DATE UNDERWAY:      DATE COMPLETED:  
 POST REMED ACT MON:      DATE UNDERWAY:      DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 1      DATE ENFORCEMENT ACTION TAKEN: 01/02/1992  
 LUFT FIELD MANUAL CONSID: 3HSCAWG  
 CASE CLOSED:      DATE CASE CLOSED:  
 DATE EXCAVATION STARTED : 01/01/1986      REMEDIAL ACTIONS TAKEN: NT

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*new address*

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 ADDRESS: 21213-b Hawthorne Bl.5146  
 CITY/STATE: Torrence, California 94609

INSPECTOR VERIFICATION:

NAME \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

DATA ENTRY INPUT:

Name/Address Changes Only

Case Progress Changes

ANNPGMS \_\_\_\_\_ LOP \_\_\_\_\_ DATE \_\_\_\_\_

LOP \_\_\_\_\_ DATE \_\_\_\_\_

ALAMEDA COUNTY ENVIRONMENTAL  
HEALTH SERVICES

ENVIRONMENTAL PROTECTION DIVISION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
Telephone (510) 667-8700 Fax (510) 337-9335

FAX COVER SHEET

DATE: January 23, 1997  
TO: Paul White / Scott MacLeod

FAX # (510) 420-9170

Total number of pages including cover sheet 2

FROM: SUSAN L. HUGO  
Senior Hazardous Materials Specialist

NOTE:

PLEASE RESPOND BY FAX ONLY.

Please make a note of the Shell sites listed in the attached letter (4/96) to Jeff Branberry. All QM reports should be directed to my attention. Please call if you have any questions.

(SMILE) HAVE A NICE DAY  
DO SOMETHING FOR OUR ENVIRONMENT



Edit Save Add new Delete Reset

SITE ID: 3613	SOURCE OF FUNDS: F	SUBSTANCE :8006619
SITE NAME: Shell Oil Former		DATE REPORTED :07/01/82
SITE ADDRESS: 500 -0 - 40th St.		DATE CONFIRMED:07/01/82
CITY: Oakland	ZIP CODE: 94609	MULTIPLE PRs : Y

CASE TYPE: G CONTRACT STATUS: 2 DATE EMERGENCY RESP:-0-

RP SEARCH : S	DATE BEGIN: 06/14/85	DATE END: 01/02/92
PRELIM ASSESSMENT : U	DATE BEGIN: -0-	DATE END: -0-
REMEDIAL INVESTIG.: -	DATE BEGIN: -0-	DATE END: -0-
REMEDIAL ACTION : -	DATE BEGIN: -0-	DATE END: -0-
POST REMED MONITOR: -	DATE BEGIN: -0-	DATE END: -0-

ENFORCEMENT TYPE: 1	DATE ENFORCEMENT ACTION TAKEN: 01/02/92
LUFT CATEGORY: 3HSCAWG	CASE CLOSED: - DATE CASE CLOSED: -0-
DT EXC START : 01/01/86	REMEDIAL ACTIONS TAKEN: NT

PgDn for Screen #2

[ESC] Done [F2] Clear field [Shift-F2] Clear to end [Shift-F10] More

ALAMEDA COUNTY  
 WATER RESOURCES CONTROL BOARD  
 DIVISION OF WATER QUALITY  
 UST CLEANUP PROGRAM  
 SITE SPECIFIC QUARTERLY REPORT  
 FOR (1 Oct - 31 Dec 97)

CONTRACTOR NO 10000 SOURCE OF FUNDS (S/F) -  
 SITE NO: 3613  
 SITE NAME: Former Shell Station  
 ADDRESS: 500 - 40th St.  
 CITY/ZIP: Oakland, CA 94609

SUBSTANCE 8006619  
 DATE REPORTED 7/1-182  
 DATE CONFIRMED 7/1-182  
 MULTIPLE RPS (Y/N) (Y)

SITE STATUS

CASE TYPE (U/S/G/D) (G) CONTRACT STATUS \_\_\_\_\_ EMERGENCY RESPONSE \_\_\_\_\_  
 RP SEARCH (S) (I) (R) ( ) DATE UNDERWAY 6/14/85 DATE COMPLETED 1/2/92  
 PRELIMINARY ASSESSMENT (U) (C) ( ) DATE COMPLETED \_\_\_\_\_  
 REMEDIAL INVESTIGATION (U) (C) ( ) DATE UNDERWAY \_\_\_\_\_ DATE COMPLETED \_\_\_\_\_  
 REMEDIAL ACTION (U) (C) (I) ( ) DATE UNDERWAY \_\_\_\_\_ DATE COMPLETED \_\_\_\_\_  
 POST REMEDIAL ACTION MONITORING (Y) (N) (U) (C) ( ) DATE UNDERWAY \_\_\_\_\_ DATE COMPLETED \_\_\_\_\_  
 ENFORCEMENT ACTION TAKEN ( ) ( ) ( ) TYPE (1) (2) (3) (4) (5) (6) DATE TAKEN 1/2/92  
 LUFT FIELD MANUAL CONSIDERATION (CATEGORY 1, 2, 3 PLUS H, S, C, A, R, W, G) OR 0 AS APPLICABLE)  
 CASE CLOSED (Y) (R) (C) (L) DATE CLOSED \_\_\_\_\_  
 DATE EXCAVATION STARTED --1-186 REMEDIAL ACTIONS TAKEN NT

RESPONSIBLE PARTY INFORMATION

- |   |                       |
|---|-----------------------|
| 1. CONTACT NAME <u>Jack Brestad</u>                     | 6. CONTACT NAME _____ |
| COMPANY NAME <u>Shell Oil Co.</u>                       | COMPANY NAME _____    |
| ADDRESS <u>P.O. Box 5378</u>                            | ADDRESS _____         |
| CITY/STATE <u>Concord, CA 94524</u>                     | CITY/STATE _____      |
| 2. CONTACT NAME <u>Joseph H. Chan &amp; Ivy T. Wong</u> | 7. CONTACT NAME _____ |
| COMPANY NAME <u>Trust Etal</u>                          | COMPANY NAME _____    |
| ADDRESS <u>212 50 Hawthorne Blvd. #830</u>              | ADDRESS _____         |
| CITY/STATE <u>Torrence, CA 90503</u>                    | CITY/STATE _____      |
| 3. CONTACT NAME _____                                   | 8. CONTACT NAME _____ |
| COMPANY NAME _____                                      | COMPANY NAME _____    |
| ADDRESS _____   | ADDRESS _____         |
| CITY/STATE _____  | CITY/STATE _____      |
| 4. CONTACT NAME _____                                   | 9. CONTACT NAME _____ |
| COMPANY NAME _____                                      | COMPANY NAME _____    |
| ADDRESS _____   | ADDRESS _____         |
| CITY/STATE _____  | CITY/STATE _____      |
| 5. CONTACT NAME _____                                   |                       |
| COMPANY NAME _____                                      |                       |
| ADDRESS _____   |                       |
| CITY/STATE _____  |                       |

ALAMEDA COUNTY  
HEALTH CARE SERVICES



20264

AGENCY  
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, DIRECTOR

April 18, 1996

Mr. R Jeff Granberry  
Shell Oil Products Company  
P.O. Box 4023  
Concord, California 94524

DEPARTMENT OF ENVIRONMENTAL HEALTH  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
(510) 567-6777

RE: Shell Oil Company Sites

Dear Mr. Granberry:

Recently, reports for the Shell Oil Company sites have been submitted to different inspectors / case officers that are not the assigned case workers. I'm currently overseeing the investigation / cleanup of the following Shell Oil Company sites in this department:

<u>STID#</u>	<u>Site Name</u>	<u>Address</u>
3670	Melina Albany Shell	999 San Pablo Avenue, Albany
814	Bay Super Shell	1800 Powell Street, Emeryville
381	Shell Oil Company	3420 San Pablo Ave., Oakland
3613	Former Shell Oil	500 40th Street, Oakland
413	Pill Hill Shell	2800 Telegraph Ave., Oakland
3673	Shell Service Station	230 W MacArthur Blvd., Oakland
3618	Broadway Shell	5755 Broadway, Oakland

Please inform your consultants that all quarterly monitoring reports and work plans for the above mentioned sites should be submitted to my attention.

If you have any questions concerning this letter, please call me at (510) 567-6780.

Sincerely,

Susan L. Hugo  
Senior Hazardous Materials Specialist

c: Jun Makishima, Interim Director, Environmental Health  
Gordon Coleman, Acting Chief, Environmental Protection / files

DATE:

TO : Local Oversight Program

FROM:

SUBJ: Transfer of Eligible Oversight Case

Site name: Shell Oil - Former

Address: 500 - 40th St city Oakland Zip 94609

Closure plan attached? Y N DepRef remaining \$ \_\_\_\_\_

DepRef Project # \_\_\_\_\_ STID #(if any) 3813

Number of Tanks: \_\_\_\_\_ removed? Y N Date of removal \_\_\_\_\_

Samples received? Y N Contamination: \_\_\_\_\_

Petroleum Y N Types: Avgas Jet leaded unleaded Diesel  
fuel oil waste oil kerosene solvents

Monitoring wells on site \_\_\_\_\_ Monitoring schedule? Y N discovery

LUFT category 1 2 3 \* H S C A R W G O 7-22

Briefly describe the following:

Preliminary Assessment \_\_\_\_\_

Remedial Action \_\_\_\_\_

Post Remedial Action Monitoring \_\_\_\_\_

Enforcement Action \_\_\_\_\_

Jack Brasted  
Shell Oil Co.  
1390 Willow Pass Rd. Suite 900  
Concord, CA 94520



SHELL OIL CORPORATION  
QUARTERLY REPORT TO THE  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
County of ALAMEDA

Date of Report: 09/25/89

---

Site ID: 204-5508-4903      500 40TH STREET      City of OAKLAND

Actions in past three months: INSTALLED MW-5, SAMPLED WELLS, PREPARED MONTHLY REPORT AND ATTEMPTED TO OBTAIN OFFSITE ACCESS AND ENCROACHMENT PERMITS.

Actions planned for next three months: INSTALL 3 MORE WELLS ONSITE, DOWN-GRADIENT OF PRIOR TANK BACKFILL; SAMPLE/MONITOR ALL WELLS MONTHLY, INSTALL 5 OFFSITE WELLS AND PREPARE MONTHLY AND QUARTERLY REPORT.

Soil contamination defined?	No	Soil clean-up in progress?	No
Free product plume defined?	None	Free product clean-up in progress?	None
Dis'ld const'nt plume defined?	No	Dis'ld const'nt clean-up in progress?	No

Contractor: CONVERSE

# BILLING ADJUSTMENT FORM

**Pgm Affected Billing Acct.\***  
 Generator . . H \_\_\_\_\_  
 AB2185 . . . L \_\_\_\_\_  
 UGT . . . . . T 81050

Date: \_\_\_\_\_

HazMat StID\* : \_\_\_\_\_

Caller: \_\_\_\_\_ Phone: \_\_\_\_\_

Company Name : AUTO PRO

Site Address : 5200 Telegraph Ave. Oakland 94609  
City Zip

Requested Changes : \_\_\_\_\_

\_\_\_\_\_  
Initials: \_\_\_\_\_

## Inspectors' Conclusion

- Rescind Bill for following reasons:
- No Hazardous Waste       Moved out of County
  - Qty's under 2185 Min.       Closed / Out of Business
  - UGTanks removed
  - Other \_\_\_\_\_

Continue Billing With Following Changes:

___ Change number of EMPLOYEES	From: _____	To: _____
___ Change number of TANKS	_____	_____
___ AB2185: Changes attached		
___ Reopen Site Address / New Owner		
Co. Name _____		
Owner _____	Phone _____	
___ New Address		
Site Address _____	City _____	Zip _____
Mail Address _____	City _____	Zip _____

Inspector: Susan L. Hugo Date: 12-27-90

HM Chg: \_\_\_\_\_  
 Sent to Billing  
on \_\_\_/\_\_\_/\_\_\_  
Rev 11/89 Mac-BillAdj

## CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

SAN FRANCISCO BAY REGION

1111 JACKSON STREET, ROOM 6040

OAKLAND 94607

Phone: Area Code 415  
464-1255

July 11, 1989

File UGT(SGH)

Ms. Diane M. Lundquist  
Environmental Engineer  
Shell Oil Company  
P.O. Box 4023  
Concord, CA 94524

RE: SUBSURFACE FUEL CONTAMINATION AT ~~500 40TH STREET~~ OAKLANDDear Ms. Lundquist: 609

Under the authority of California Water Code Section 13304, this letter is to inform you of your responsibility to clean up the petroleum hydrocarbon contamination existing at the former Shell service station located at 500 40th Street, Oakland.

The Regional Board is responsible for the oversight of the investigation and cleanup of soil and ground water pollution cases which have impacted or threaten to impact waters of the State. Due to the existing large number of cases resulting from unauthorized releases from underground storage tanks, Regional Board staff will not be able to work closely with you on this case. Nevertheless, it is the responsibility of Shell Oil Company to proceed with the timely investigation and remediation of any soil and/or ground water contamination, both on- and off-site, that may have resulted from the operation of the former gasoline station.

According to our files, Shell Oil Company discovered subsurface fuel hydrocarbon contamination at the site in July 1982. Subsequent investigations revealed the presence of as much as 6 feet of fuel product floating on the ground water. On December 3, 1985, IT Corporation, the consultant for Shell, recommended a collection trench be installed to recover the free product. There is no information in our files to indicate that the trench or any other cleanup system was ever installed and activated. Furthermore, at the June 22, 1989 meeting in this office you indicated to Mr. Scott Hugenberger of my staff that to date no remediation system has been installed or operated at this site.

Although my staff will not be able to closely oversee your work, it is the responsibility of Shell Oil Company to proceed to clean up the subsurface contamination as soon as is practicable. The affected contamination zones should be cleaned up to levels consistent with the California Water Code and State Board Resolution No. 68-16 (a copy of which is enclosed). Under these laws and policies, it may be necessary for you to clean up all of the soil and ground water contamination resulting from releases from the former underground storage tank system.

July 11, 1989

Judging from the information submitted to this office by Shell, more soil borings and ground water monitoring wells are necessary in order to determine the full extent of the soil and ground water contamination. It appears likely the contamination has migrated beyond the boundaries of the property.

Until the site has been investigated and remediated to the satisfaction of this Regional Board and the Alameda County Health Care Agency (ACHCA), you must submit progress reports to the ACHCA and a copy to this office on a quarterly basis. The quarterly reports should describe the actions taken to investigate/remediate the site and should include documentation such as lab reports, boring logs, monitoring data, etc. The results of quarterly ground water sampling and analyses should be included with each report. The quarterly reports should be submitted in accordance with the following schedule:

<u>Quarterly Period</u>	<u>Date Due</u>
January, February, March	April 30
April, May, June	July 30
July, August, September	October 30
October, November, December	January 30

The first progress report is due no later than October 30, 1989. By December, 1989 Shell should have a ground water remediation system installed and operating. A description of the operation of the remediation system should be included in the January 30, 1990 quarterly report. The system should be designed to capture the full extent of the zone of ground water contamination. The ground water sampling data contained in your quarterly reports should demonstrate that your remediation system has fully captured the ground water contamination plume.

Please submit a letter to the ACHCA and to this office no later than July 21, 1989 with responses to the following questions:

1. When free product was discovered in July 1982, were the inventory records for the previous three months audited? Please submit copies of these records.
2. In April and May of 1983, there was no more than 0.1 feet of free product floating on the ground water in monitoring well no. B-4. On June 2, 1983 the product thickness was only 0.02 feet. On June 16, 1983 the product thickness jumped to 1.6 feet. On June 30 it was 4.1 feet. On July 7 it was 4.91 feet and on July 15 it was 6.3 feet. What was Shell Oil Company's response to this dramatic increase of fuel product in this well?

July 11, 1989

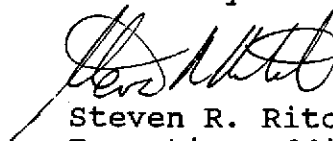
3. In December, 1985, IT Corporation, Shell's consultant, recommended installing an extraction trench to recover the free product. Why wasn't this trench installed?
4. Where exactly was the source of the leak? Was it a pipeline, a joint, or a hole in the tank itself? When and how was this determined?
5. Was the tank system ever repaired? When?
6. When and to whom did Shell sell the property? What is the name and mailing address of the current property owner?

Please be aware that the requests for these reports are made pursuant to Section 13267 of the California Water Code. Failure to comply may subject Shell Oil Company to the imposition of administrative civil liabilities by the Regional Board of up to \$1000.00 per day of non-compliance.

The Alameda County Health Care Agency is currently the lead agency on this case. I encourage you to cooperate with the ACHCA, as their recommendations will be strongly considered in any future actions that may be taken by the Regional Board.

If you have any questions, please call Mr. Scott Hugenberger of my staff at (415)464-4222.

Sincerely



Steven R. Ritchie  
Executive Officer

Attachment

cc: Mr. Ariv Levi  
Department of Environmental Health  
Alameda Health Care Agency  
80 Swan Way, Room 200  
Oakland, CA 94621

7/11/89

ALAMEDA COUNTY  
DEPT. OF ENVIRONMENTAL HEALTH  
HAZARDOUS MATERIALS



July 10, 1989  
88-44-361-01-113

Mr. Scott Hugenberger  
Water Resource Control Engineer  
San Francisco Bay Regional Water Quality Control Board  
1117 Jackson Street Sixth Floor  
Oakland, CA 94607

Subject: RWQCB - Shell Meeting  
500 40th Street  
Oakland, California 94609

Dear Mr. Hugenberger:

In response to agreements made in the recent meeting among the RWQCB, Shell Oil Company, and Converse Environmental Consultants, information is provided herein for inclusion in the Revised Project Work Plan (dated April 5, 1989):

- 1) Revised Task 15, with proper well references, and
- 2) Revised Drawing 4, with all proposed wells shown.

As agreed in the meeting, Shell will proceed to install wells MW-1, MW-5 and MW-6 as soon as right of entry is obtained for demolition of the property boundary fence. As a modification to the Revised Work Plan, water levels and product thickness will be monitored monthly, using an interface probe if product is present. Water quality samples will be taken quarterly.

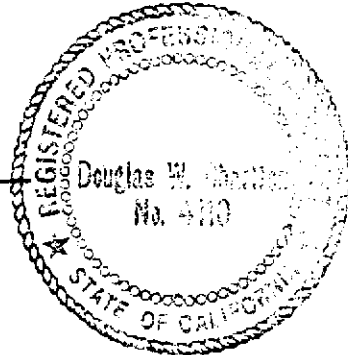
88-44-361-01-113  
Mr. Scott Hugenberger  
Water Resource Control Engineer  
July 10, 1989  
Page 2

Lastly, as you approved, the Quarterly Report for this project summarizing Q2/89 activities will be submitted within an extension to July 10, 1989. This extension will allow for inclusion of lab analytical data currently in progress.

Very truly yours,

**Converse Environmental Consultants California**

  
**Douglas W. Charlton**  
**California Registered Geologist # 4110**



DWC:krk  
Enclosures

cc: Ms. Diane Lundquist - Shell Oil Company - (w/encl.)  
Mr. Rafat Shaid - Alameda County Health - (w/encl.)  
Ms. Robin Breuer - CECC - (w/encl.)

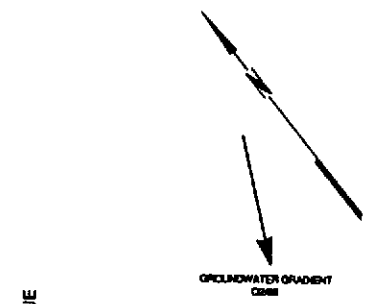
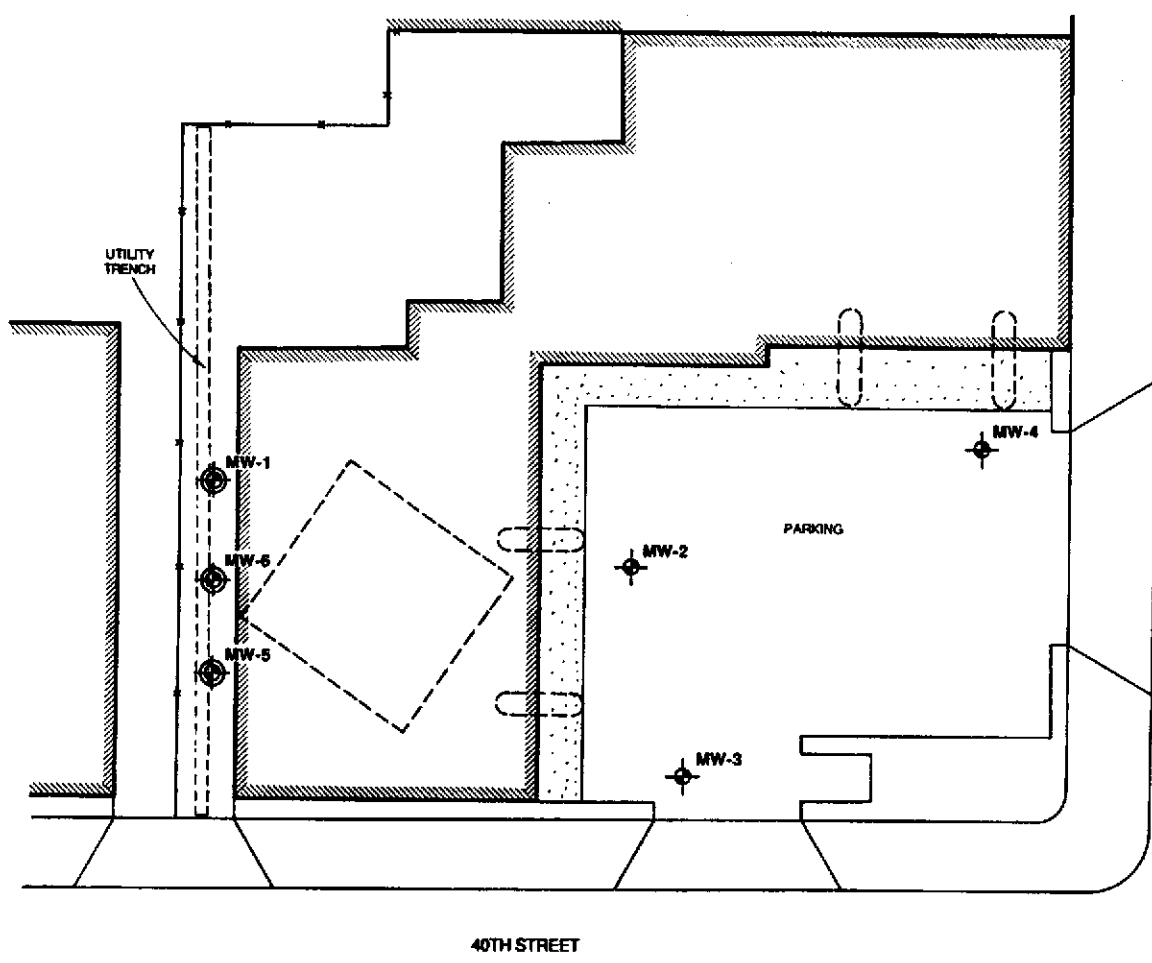
### **Task 15 - Install New Groundwater Monitoring Wells**

Six new groundwater monitoring wells will be installed onsite to initiate investigation of water quality in the upper water-bearing zone. These wells will be installed, developed and sampled according to CECC standard protocols (see Appendices A through D).

MW-5 will be installed near the former underground storage tank area, where contamination has been indicated in groundwater. MW-1 and MW-6 will be installed along the driveway, near former wells B-3, B-4 and B-5. MW-3 will be installed along the west property boundary, approximately 15 feet north of former well B-8, MW-4 will be installed at the upgradient property boundary, near former pump islands and MW-2 will be installed near the western group of former pump islands.

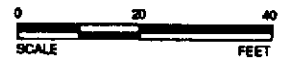
Well installation will consist of constructing 4-inch diameter, filter-packed PVC wells to at least 27 feet bgs into the upper saturated zone, per CECC standard procedures (see Drawings 5 and 6 for construction details, and Appendices A through C for protocols). Soil will be sampled at 5 feet intervals downhole, and thoroughly described using the Unified Soil Classification System (USCS) (see Appendix A). Soil samples from the unsaturated zone will be collected, transported to a State-certified analytical laboratory and analyzed for lead (EPA Method 7421), and TPH as gasoline and diesel (EPA Method modified 8015) (see Appendices A and E).





**LEGEND**

- MW-5 PROPOSED GROUNDWATER MONITORING WELL
- MW-2 GROUNDWATER MONITORING WELL



**PROPOSED GROUNDWATER MONITORING WELLS**

SHELL OIL COMPANY  
 500 40th Street  
 Oakland, California

Scale	AS SHOWN	Project No.	
Date	7/6/89	Drawing No.	88-44-381-01
Prepared By	CPB/KGC		
Checked By	RMB		
Approved By	DWC		8

 Converse Environmental Consultants California

Base Map : Surveyed with EDM, Converse 1989

**SHELL OIL COMPANY  
500 40TH STREET  
OAKLAND**

*File*  
*10/7/89*  
**1/9/89**

**BRIEF HISTORY**

- Ten groundwater monitoring wells (B-1 through B-10) were installed by IT Corporation in July of 1982.
- Progress report of monitoring activities prepared by IT Corporation dated June 14, 1985. Monitoring wells B-3, B-4, and B-8 contained separate phase product thickness from 0.02 feet to 1.64 feet. The product is very dark in color and has a strong odor of oil. Water table elevation fluctuates from approximately 68 feet to 70 feet.
- Progress of monitoring activities prepared by IT Corporation dated May 16, 1986. Wells B-2, B-3, and B-4 contained separate phase product thickness ranging from 0.01 feet to 2.1 feet. Well B-3 contains the greatest amount of product. Water table elevations fluctuates from 68.2 feet to 69.6 feet.
- In April of 1986, the site was under construction and all monitoring wells were destroyed or paved over.
- A proposal dated July 28, 1987 was prepared by Pacific Environmental Group, Inc. to locate wells and install additional groundwater monitoring wells to define the extent of the separate phase product plume.

**WORK COMPLETED THIS PERIOD**

- NONE

**GROUNDWATER MONITORING**

**FREQUENCY: NONE**

- INITIAL: No data available.
- HISTORICAL: Ten (10) wells from February 1985 to April 1985. Separate phase product in wells B-2, B-3, and B-4 fluctuated from 0.1 feet to 0.5 feet. Separate phase product in well B-8 declined from 1.64 feet in February 1985 to 0.03 feet in April 1985. Depth to water (static) is 10 to 12 feet.
- CURRENT: NONE. All wells were destroyed during construction activities in April, 1986.
- PRODUCT RECOVERED: NONE

SHELL OIL COMPANY  
500 40TH STREET  
OAKLAND 94609

9/28/88

*note after*

#### BRIEF HISTORY

- Ten groundwater monitoring wells (B-1 through B-10) were installed by IT Corporation in July of 1982.
- Progress report of monitoring activities prepared by IT Corporation dated June 14, 1985. Monitoring wells B-3, B-4, and B-8 contained separate phase product thickness from 0.02 feet to 1.64 feet. The product is very dark in color and has a strong odor of oil. Water table elevation fluctuates from approximately 68 feet to 70 feet.
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#### WORK COMPLETED THIS PERIOD

- NONE

#### GROUNDWATER MONITORING

FREQUENCY: NONE

- INITIAL: No data available.
- HISTORICAL: Ten (10) wells from February 1985 to April 1985. Separate phase product in wells B-2, B-3, and B-4 fluctuated from 0.1 feet to 0.5 feet. Separate phase product in well B-8 declined from 1.64 feet in February 1985 to 0.03 feet in April 1985. Depth to water (static) is 10 to 12 feet.
- CURRENT: NONE. All wells were destroyed during construction activities in April, 1986.
- PRODUCT RECOVERED: NONE

**SHELL OIL COMPANY  
500 40TH STREET  
OAKLAND**

**9/28/88**

**GROUNDWATER SAMPLING**

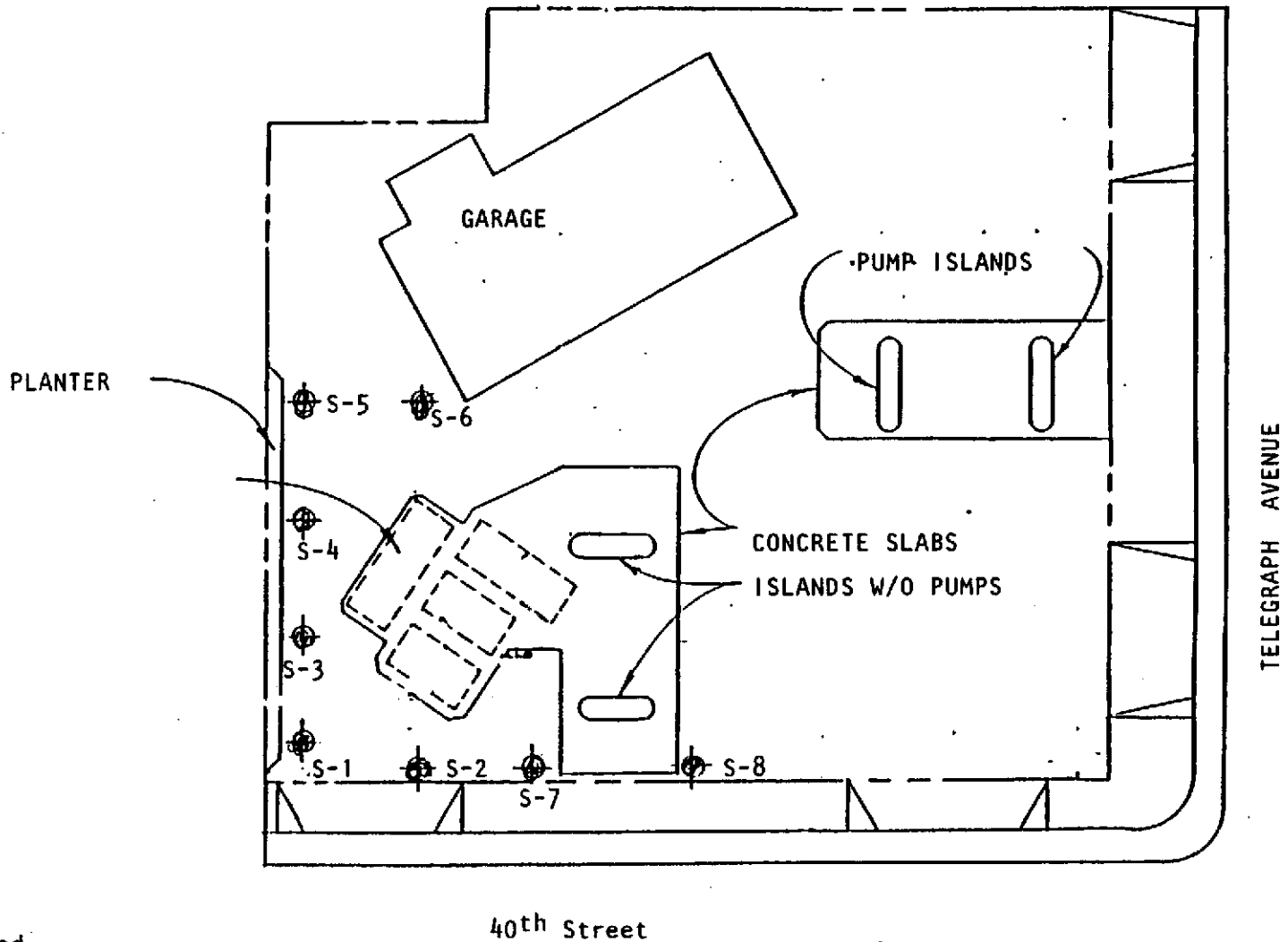
**FREQUENCY: NONE**

- INITIAL: NONE.
- HISTORICAL: NONE
- CURRENT: NONE

**PROPOSED ACTION:**

- Conduct work plan generated by Pacific Environmental Group, Inc. dated July 28, 1987 and prepare a report on the findings.

1-3532 A01002-0



Legend

⊕ Monitoring wells

Monitoring Well Locations Shell Service Station 500 40th Street      Oakland, California	
DESIGNED BY :	DRAWN BY :

FIGURE  
2

*Simas Bros.* EXECUTIVE OFFICES

(415) 838-7670

DB

B3

October 8, 1986

Dale C. Bowyer, Water Resources Control Engineer  
Regional Water Quality Control Board  
San Francisco Bay Region  
1111 Jackson Street, Room 6040  
Oakland, CA 94607

Dear Mr. Bowyer:

Please find enclosed copies of Oakland Fire Prevention  
Bureau Permit, and the report from Blaine Technology  
Reports concerning our recent tank removal at 4013  
Telegraph Avenue, Oakland, CA. *Alameda*

There are monitoring wells installed by Shell Oil  
Company in 1982. Any inquiries or information regarding  
these wells should be directed to Ray Newsome of Shell  
Oil Company at their Lafayette office.

Sincerely,

*Walter Simas*  
Walter Simas

WS/lq

PO BOX 403 DIABLO, CA. 94528



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE • PLEASANTON, CALIFORNIA 94566 • (415) 484-2600

25 September 1986

Mr. Jack Quarle  
21534 Bridge Court  
Castro Valley, CA 94546

Dear Mr. Quarle:

Enclosed are Groundwater Protection Ordinance permits 86258 and 86259 for the destruction of wells 1S/4W 23J80 and 23J81 at 500-40th Street in Oakland for Shell Oil Company. Verbal authorization was given on 24 September 1986.

Please note that permit condition A-1 requests that an application be submitted 5 days prior to your proposed start of work.

If you have any questions, please contact Craig Mayfield at 484-2600.

Very truly yours,

Mun J. Mar  
General Manager

By   
J. Killingstad, Chief  
Water Resources Engineering

CM: bkm  
Enc.



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT  
 5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94566 (415) 484-2600  
**GROUNDWATER PROTECTION ORDINANCE PERMIT APPLICATION**

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

(1) LOCATION OF PROJECT 500 40th Street,  
Oakland

PERMIT NUMBER 86258 and 86259  
 LOCATION NUMBER 1S/4W 23J80 and 23J81

(2) CLIENT  
 Name Shell Oil Company  
 Address \_\_\_\_\_ Phone \_\_\_\_\_  
 City \_\_\_\_\_ Zip \_\_\_\_\_

Approved Craig A. Mayfield Date 24 Sep  
 Craig A. Mayfield

(3) APPLICANT  
 Name Mr. Jack Quarle  
 Address 21534 Bridge Ct. Phone 538-7878  
 City Castro Valley Zip 94546

PERMIT CONDITIONS

Circled Permit Requirements Apply

(4) DESCRIPTION OF PROJECT  
 Water Well Construction \_\_\_\_\_ Geotechnical \_\_\_\_\_  
 Cathodic Protection \_\_\_\_\_ Well Destruction X

(5) PROPOSED WATER WELL USE  
 Domestic \_\_\_\_\_ Industrial \_\_\_\_\_ Irrigation \_\_\_\_\_  
 Municipal \_\_\_\_\_ Monitoring \_\_\_\_\_ Other \_\_\_\_\_

(6) PROPOSED CONSTRUCTION  
 Drilling Method:  
 Mud Rotary \_\_\_\_\_ Air Rotary \_\_\_\_\_ Auger \_\_\_\_\_  
 Cable \_\_\_\_\_ Other \_\_\_\_\_

WELL PROJECTS

Drill Hole Diameter \_\_\_\_\_ In. Depth \_\_\_\_\_ ft.  
 Casing Diameter \_\_\_\_\_ In. Number 2  
 Surface Seal Depth \_\_\_\_\_ ft.  
 Driller's License No. \_\_\_\_\_

GEOTECHNICAL PROJECTS

Number \_\_\_\_\_  
 Diameter \_\_\_\_\_ In. Maximum Depth \_\_\_\_\_ ft.

(7) ESTIMATED STARTING DATE 26 Sep 86  
 ESTIMATED COMPLETION DATE \_\_\_\_\_

(8) I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

A. GENERAL

- ① A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
- ② Notify this office (484-2600) at least one day prior to starting work on permitted work and before placing well seals.
3. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report equivalent for well projects, or bore hole log and location sketch for geotechnical project. Permitted work is completed when the last surface seal is placed or the last boring is completed.
- ④ Permit is void if project not begun within 30 days of approval date.

B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie, or equivalent.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic, irrigation, and monitoring wells unless a lesser depth is specially approved.

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie, or equivalent.

⑤ WELL DESTRUCTION. See attached.

APPLICANT'S SIGNATURE Jack Quarle Date 24 Sep 86

Jack Quarle by phone



Excavation Permit Granted \_\_\_\_\_ No. \_\_\_\_\_

# CITY OF OAKLAND

Tank Permit

Permit to Excavate and Install, Repair, or Remove Inflammable Liquid Tanks. No. 8806

Oakland, California, September 17, 1986

PERMISSION IS HEREBY GRANTED TO XXXXX remove XXXXX Gasoline tank and excavate commencing \_\_\_\_\_ feet inside property line

on the NW side of Telegraph Avenue Street Avenue Corner feet \_\_\_\_\_ of 40th Street Street Avenue

House No. 4013 Telegraph Avenue Street Avenue Present Storage \_\_\_\_\_

Owner Simas Bros. Address P.O. Box 403 Diablo, CA 94528 Phone 838-7676

Applicant Simas Bros. Address \_\_\_\_\_ Phone \_\_\_\_\_

Dimensions of street (sidewalk) surface to be disturbed X Number of Tanks 3 Capacity 10,000 Gallons, each.

Remarks: \_\_\_\_\_

This Permit is granted in accordance with existing City Ordinances.

Owner hereby agrees to remove tanks on discontinuance of use or when notified by the City Authorities.

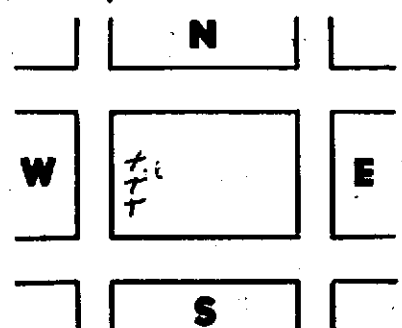
When installing, removing or repairing tanks, no open flame to be on or near premises.

Approved Roy Call 2715 witnessed REMOVAL

OF 3 TANKS

Fire Marshal

Approved \_\_\_\_\_ Drainage Division Engineering Dept.



## EXCAVATING PERMIT

Issued in accordance with Ord. No. 278 CM5, Sec. 6-2.84

\_\_\_\_\_ square feet of digging or removal granted.

The receipt of \$ \_\_\_\_\_ special deposit is hereby acknowledged.

GENERAL DEPOSIT.

BUREAU OF PERMITS AND LICENSES.

Inspection Fee Paid \_\_\_\_\_ \$ 50.00 rec#106727

Received by D. Clemons

FIRE PREVENTION BUREAU

**THIS PERMIT MUST BE LEFT ON THE WORK AS AUTHORITY THEREFOR.**

## CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

Inspected and passed on \_\_\_\_\_ 19 \_\_\_\_\_

By \_\_\_\_\_ Fire Marshal

## NOTICE

Before Covering Tanks, Above Certificate Must Be Signed.

When ready for inspection notify Fire Prevention Bureau, 278-3851

FG:  
JACK  
Dwale  
5387878

Excavation Permit Granted No. \_\_\_\_\_

# CITY OF OAKLAND

## Permit to Excavate and Install, Repair, or Remove Inflammable Liquid Tanks. No. 8806

Tank Permit

Oakland, California, September 17, 1986

PERMISSION IS HEREBY GRANTED TO ~~XXXX~~ remove ~~XXXXX~~ Gasoline tank and excavate commencing \_\_\_\_\_ feet inside Property line

on the NW side of Telegraph Avenue Street Avenue Corner feet of 40th Street Street Avenue

House No. 4013 Telegraph Avenue Street Avenue Present Storage \_\_\_\_\_

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Remarks: \_\_\_\_\_

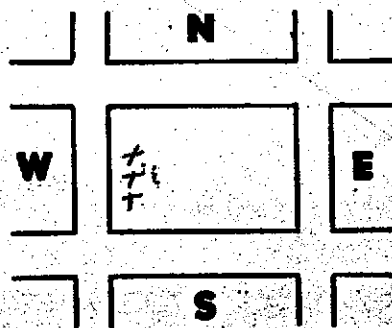
This Permit is granted in accordance with existing City Ordinances.

Owner hereby agrees to remove tanks on discontinuance of use or when notified by the City Authorities.

When installing, removing or repairing tanks, no open flame to be on or near premises.

Approved Henry Call 2715 witness & REMOVAL  
OF 3 TANKS  
Fire Marshal

Approved \_\_\_\_\_  
Drainage Division Engineering Dept.



### EXCAVATING PERMIT

Issued in accordance with Ord. No. 278 CMS, Sec. 6-2.04

\_\_\_\_\_ square feet of digging or removal granted.

The receipt of \_\_\_\_\_ special deposit is hereby acknowledged.

GENERAL DEPOSIT

DIVISION OF PERMITS AND LICENSES

50.00 reg #106727

D. Glemois

### CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

Inspected and passed on \_\_\_\_\_ 19 \_\_\_\_\_

By \_\_\_\_\_ Fire Marshal

### NOTICE

Before Covering Tanks, Above Certificate Must Be Signed.

When ready for inspection notify Fire Prevention Bureau, 278-8851

**THIS PERMIT MUST BE LEFT ON THE WORK AS AUTHORITY THEREFOR.**

*Handwritten note:* 3 TANKS