

CASE TYPE: R

STID

4250

STID 4250

PLAN REVIEW INFORMATION:

DEPOSIT DATE 3/29/91

AMOUNT OF DEPOSIT \$432.00

RECEIPT # 592380

INSPECTOR'S NAME SUSAN HUGG

CONTRACTOR/PAYOR \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY, STATE, ZIP CODE \_\_\_\_\_

SITE NAME ROY POULAD RESIDENCE

ADDRESS 2739 Summit Street

CITY, ZIP CODE Oakland 94609

ADDITIONAL FOLDERS? YES / (NO)

If YES, this FOLDER # \_\_\_\_\_

PERIOD COVERED: \_\_\_\_\_

NON-LOP

CASE CLOSED  
7/7/97

SIC

DATE	BY	REMARKS

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



July 7, 1997

Dr. Roy Powlan  
P.O. Box 1544  
Lafayette, CA 94549

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

**RE: Removal of Two Home Heating Fuel Underground Storage Tanks at  
2939 Summit Street, Oakland, CA 94609 (STID # 4250)**

Dear Dr. Powlan:

This office has reviewed the case file regarding the removal of two heating fuel underground storage tanks ( 100 gallon and 500 gallon capacity ) at the above referenced site.

The 100 gallon tank was located beneath the concrete pad of the driveway and the 500 gallon tank was in the front lawn of the subject residential property. The former tanks were removed in April 1991 by Bernabe and Brinker. Contaminated soil was excavated by Exceltech, Inc. in August 1991 and disposed at Vasco Road Landfill. Confirmation soil samples showed very low levels of residual petroleum hydrocarbon which remains at the site ( 670 ppm TPH diesel, 0.032 ppm toluene, 0.026 ppm ethyl benzene and 0.12 ppm xylene). The subject site is considered a low risk soil case and presents no significant risk to the environment.

The former heating fuel tanks have been removed in full compliance with the requirements of Title 23, California Code of Regulations. Therefore, 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 investigation or cleanup action is required regarding the former heating fuel underground storage tanks.

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

Sincerely,

Susan L. Hugo  
Senior Hazardous Materials Specialist

c: Mee Ling Tung, Director, Environmental Health  
Gordon Coleman, Chief, Environmental Protection Division  
Ravi Arunalantham, San Francisco Bay RWQCB  
Kevin Graves, San Francisco Bay RWQCB  
Leroy Griffin, Oakland Fire Department  
SH / files

42501 Albrae Street  
Fremont, California 94538

**FAX TRANSMITTAL FORM**

Date of Transmission: 6/1/92 Time: \_\_\_\_\_  
Total number of pages sent, including this cover page: 6

TO: Name: Susan Hugo  
Company: \_\_\_\_\_  
FAX No.: 2569-4757

FROM: Name: Nissa Mack  
Company: RESNA INDUSTRIES INC.  
FAX No.: (510) 651-2218 Phone No.: (510) 440-3300

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (510) 440-3300

~~Susan Hugo~~

**WORK PLAN FOR  
SOIL AND GROUNDWATER INVESTIGATION  
AND  
QUARTERLY MONITORING**

**AT**

**2939 SUMMIT STREET  
OAKLAND, CALIFORNIA**

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This work plan has been prepared for the drilling of one exploratory boring and the installation of one groundwater monitoring well at the subject site in the City of Oakland, Alameda County, California (Figure 1). A program of quarterly monitoring is also proposed. It is our understanding that this work is required by the Alameda County Department of Environmental Health.

**Background**

The site is rectangular in shape and located near the intersection of Summit Street and 30th Avenue near downtown Oakland. The site is currently occupied by a two-story stucco structure. The lot is narrow and confined by multi-story structures on two sides. Overhead powerlines run along the sidewalk at the front of the building.

One 100-gallon and one 500-gallon underground storage tanks (USTs), formerly used for heating fuel oil, were excavated from the southside of the site by Bernabe and Brinker during April 1991. Soil samples collected from the excavation indicated the soil contained up to 1,700 parts per million (ppm) total petroleum hydrocarbons as diesel (TPHD). Stockpiled soil from excavation was sent to Vasco Road Landfill.

In August 1991, Exceltech, Inc., now RESNA Industries, over-excavated the former UST locations and removed the soil. Petroleum hydrocarbons were not detected in soil samples collected from the deepened excavations. RESNA will be placing one 20-foot exploratory boring within each tank excavation to evaluate possible soil contamination attributed to fuel oil.

**Purpose and Scope of Work**

To determine the impact, if any, of the fuel oil on the groundwater beneath the site, RESNA proposes to drill one exploratory boring in the approximate downgradient direction. The boring will then be converted to a groundwater monitoring well. The boring and subsequent well will determine if soil and groundwater below the site has been affected by fuel oil.

The location of the proposed boring and monitoring well is shown on Figure 2. The location of the well is somewhat constrained by property size and overhead utility lines.

Groundwater is anticipated to occur at 30 feet and the regional flow direction in the area is to the south-southwest. Given the size of the site together with physical constraints, placement of three monitoring wells is not feasible. In RESNA's opinion, one well, placed immediately downgradient of the former UST's excavation will provide the needed groundwater information and monitoring.

### **Permitting**

Exploratory drilling and monitoring well installation permits will be required from the Alameda County Department of Health, Hazardous Materials Division and Zone 7 of the Alameda County Flood Control and Water Conservation District. RESNA will secure the permits prior to drilling and schedule the drilling date. A utilities clearance will be obtained prior to drilling.

### **Exploratory Drilling and Soil Sampling**

One exploratory boring will be drilled and then converted to a groundwater monitoring well. The depth of the well boring is anticipated to be about 40 feet.

RESNA proposes to drill the boring with a RESNA drill rig using 4-1/4-inch-inside-diameter hollow-stem continuous-flight auger. The auger will be steam-cleaned before the start of work boring to minimize the possibility of contamination.

Relatively undisturbed soil samples will be collected at 5-foot intervals using a modified California split-spoon sampler with internal 2-inch-diameter by 6-inch-long brass liners to collect the soil samples. When the boring is advanced to the desired sampling depth, the sampler will be lowered to the bottom of the hole and driven 1-1/2 feet ahead of the auger with a 140-pound, rig-operated hammer. The sampler will then be removed and disassembled.

The RESNA geologist will field-test one sample from each depth interval with a portable gas vapor photoionization detector for volatile hydrocarbons. One sample from each 5-foot interval above first encountered groundwater will be selected for laboratory analysis. The ends of the sample selected for laboratory analysis will be covered with aluminum foil and a plastic cap. The sample will then be labeled, logged on a chain-of-custody form, and placed in a chilled cooler for transport to a state-certified laboratory. The geologist will also prepare a log of the subsurface conditions encountered during drilling based on observations of the samples and soil cuttings. The geologist will classify the soil using the Unified Soil Classification System and Munsell Soil Color Charts (see attached protocol).

Drill cuttings will be placed on and covered by plastic sheeting. They will remain at the site until the stockpile soil samples are analyzed. Assuming a minimum amount of contamination in the cuttings, RESNA will dispose of the cuttings.

### **Groundwater Monitoring Well Construction**

Upon completion of the borehole, RESNA will convert it to a groundwater monitoring well by installing 2-inch-diameter, Schedule 40 polyvinyl chloride (PVC) blank and factory-slotted (0.02 inch) casing with flush-threaded couplings. No solvents or cements will be used during well construction. A RESNA geologist will determine the placement of the screened interval. The well will be installed to a depth of approximately 35 to 40 feet to monitor the uppermost water-bearing stratum. Final depth and screen interval will be determined in the field.

After the casing is installed, the annular space between the casing and the wall of the boring will be filled with clean No. 2/12 sand to approximately 2 feet above the top of the screened interval. One foot of bentonite pellets will then be placed upon the top of the sand and hydrated. A cement grout seal will then be placed in the annulus to within 1 foot of the ground surface. The PVC wellhead will be installed in a traffic-rated waterproof vault box for protection. A concrete surface seal will be completed up to approximately 1/2-inch above the existing grade.

### **Well Development**

After construction, the new monitoring well will be developed by manually surging and mechanically pumping the groundwater to (a) remove residual silts and clays left from the drilling and (b) improve the hydraulic conductivity between the well and the natural formation. After development, the well will be allowed to recharge for approximately 72 hours, enabling RESNA to collect a representative water sample (see attached protocol).

All water collected during well development will be placed in a properly labeled drum and left on-site until laboratory results are completed. The client is responsible for the disposal of all drummed water.

### **Groundwater Sampling**

RESNA will collect a groundwater sample from the monitoring well for laboratory analysis. Before groundwater sampling, a RESNA geologist will field-check the monitoring well, using an electric interface probe, for the presence of free-floating product. If no floating product is observed, the well will be purged of at least 4 well volumes of groundwater before sampling. The samples will be (a) collected with a clean bailer, (b) transferred to appropriate laboratory-supplied bottles, (c) labeled, (d) logged on chain-of-custody forms, and (e) placed in a cooler for transport to a state-certified laboratory.

If free-phase hydrocarbons are detected, the free-phase portion will be bailed from the well and the estimated volume removed recorded. A groundwater sample will be collected if bailing reduces the amount of free-phase hydrocarbons to the point where

they are not present in the well. Well sampling will be conducted using one of the aforementioned methods depending on the formation yield. However, if free-phase hydrocarbons persist throughout bailing, then a groundwater sample will not be collected.

### **Laboratory Analyses**

Depending on depth to water, four to six soil samples and one groundwater sample will be submitted for chemical analysis for TPHD and benzene, toluene, ethyl benzene, and total xylenes (BTEX), as recommended in the Tri-Regional Board Staff Recommendations. Normal turnaround time for sample analysis is 10 to 15 working days.

### **Report**

At the conclusion of this investigation, RESNA will prepare a letter report presenting the field and laboratory methods, the data obtained, and brief summary of subsurface conditions. The report will be ready within four to five weeks following completion of field work. The report will contain:

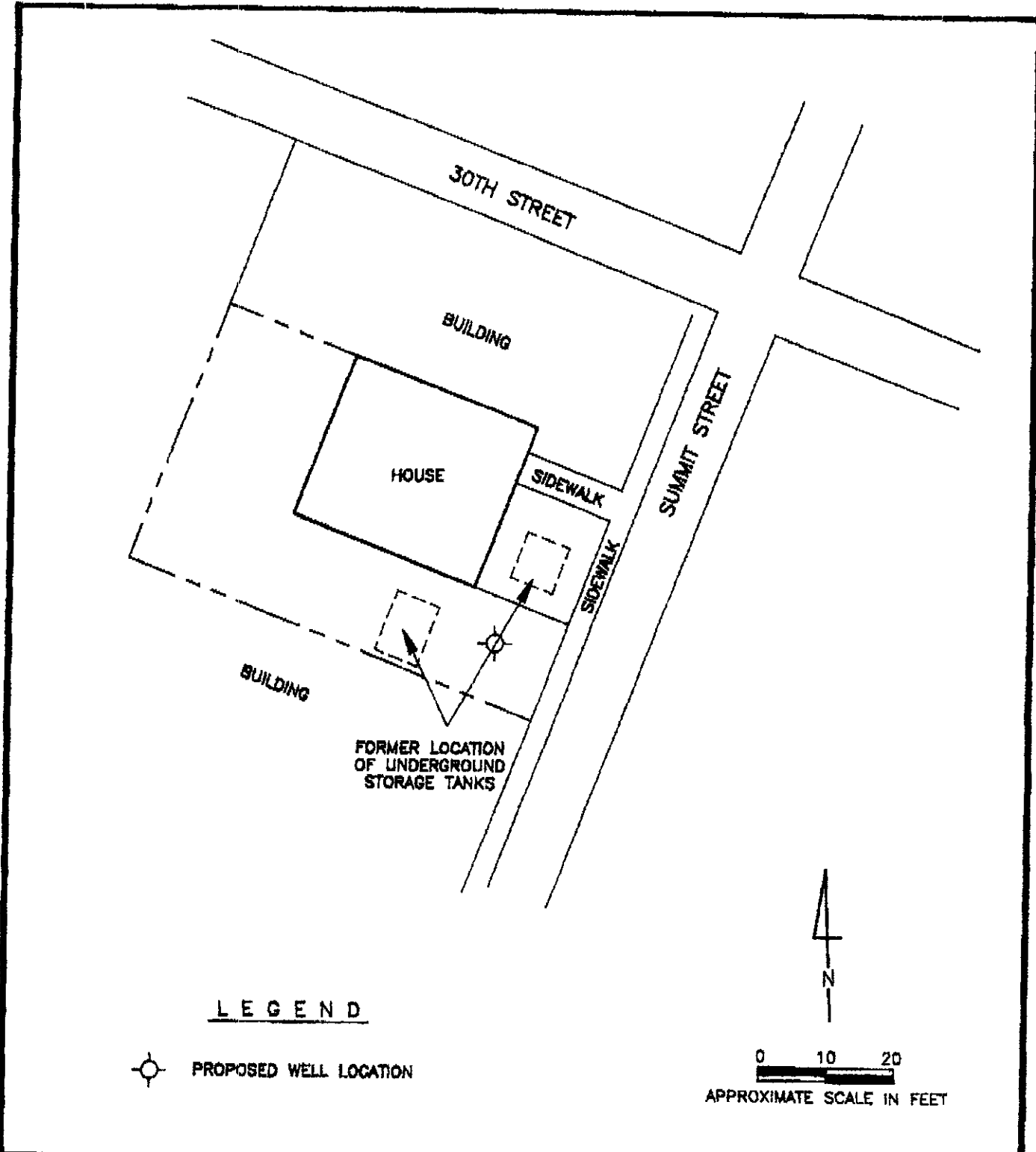
- Site geology and hydrogeology summary.
- Lithology logs for exploratory boring.
- Construction details of the monitoring well.
- A site map showing features relevant to the investigation.
- Analytical data from sampling.

### **Quarterly Monitoring**

RESNA will monitor and sample the monitoring well on a quarterly basis for three additional quarters. The well will be sampled for TPHD and BTEX using the aforementioned procedures and methods. A brief letter report of results from quarterly sampling will be submitted following sampling.

### **Well Destruction**

At the client's discretion, the wells may be destroyed once the regulatory agency requirement to monitor ends. When groundwater at the site is found to be not detected for 4 consecutive quarters, site closure can be applied for from the regulatory agency.



LEGEND

 PROPOSED WELL LOCATION



0 10 20  
 APPROXIMATE SCALE IN FEET

REVIEWED BY:	<b>SITE MAP</b>	<b>RESNA</b>	
APPROVED BY:	ROY POWLAN		
	2939 SUMMIT STREET	DATE: 5/29/92	DRAWING #: FIG. 2
	OAKLAND, CALIFORNIA		



LAW OFFICES

**LEMPRES & WULFSBERG**

PROFESSIONAL CORPORATION

KAISER CENTER

300 LAKESIDE DRIVE, 24TH FLOOR

OAKLAND, CALIFORNIA 94612-3524

TELEPHONE (510) 835-9100

DANIEL N. LEMPRES  
(1931-1987)

OF COUNSEL  
BARBARA SUZANNE FARLEY

TELECOPIER  
(510) 451-2170  
(510) 451-2575

FILE NUMBER 9999-053

H. JAMES WULFSBERG  
ROBERT L. HUGHES  
CHARLES W. REESE  
PETER H. FERRIS  
JEFFREY A. SYKES  
PATRICIA NICHOLS  
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E. BENNETT BOLTON  
RENEE C. MENDOZA  
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CAMERON C. WARD  
MOLLY J. BAIER  
DAVID W. GINN  
PAUL T. GARD  
KEITH A. SUGAR  
KIP B. SHUMAN

October 7, 1992

Alameda County Health Care Services Agency  
Hazardous Materials Program  
80 Swan Way, Room 200  
Oakland, CA 94612

Attention: Ms. Susan Hugo

Re: 2939 Summit Street, Oakland, California

Dear Ms. Hugo:

This law firm represents Roy Powlan, owner of the property located at 2939 Summit Street, Oakland, California. Enclosed please find the report from the soil investigation and excavation conducted by RESNA. You will note on page 3 of the report that, because of the high plasticity and low permeability of the clay layer underlying the excavation, RESNA has expressed the opinion that no further work at the site is warranted at this time.

We request that you kindly review this report and confirm your concurrence with the report's findings to this office at your earliest convenience.

Your courtesy and assistance with regard to the above is greatly appreciated.

Very truly yours,

LEMPRES & WULFSBERG  
PROFESSIONAL CORPORATION

  
DAVID W. GINN

DWG:lg  
Enclosure

9999-053\57373.1

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**SOIL INVESTIGATION  
AND EXCAVATION**

**AT**

**POWLEN PROPERTY  
2939 SUMMIT STREET  
OAKLAND, CALIFORNIA**

**Project No. E1062.11  
September 1992**

---

***RESNA***  
42501 Albrae Street  
Fremont, California 94538  
(510) 440-3300

October 5, 1992  
Project No. E1062.11

Lempres and Wulsberg  
Professional Corporation, Kaiser Center  
300 Lakeside Drive, 24th Floor  
Oakland, CA 94604

Attention: Mr. David W. Ginn

Subject: Soil Investigation and Excavation at Powlen Property  
2939 Summit Street, Oakland, California

Dear Mr. Ginn:

RESNA Industries Inc., has prepared this report describing the drilling of two exploratory borings and subsequent excavation at the subject site in the City of Oakland, Alameda County, California (Plate 1). It is our understanding that this work was required by the Alameda County Department of Environmental Health.

### **Background**

The site is rectangular in shape and located near the intersection of Summit Street and 30th Avenue near downtown Oakland, and is currently occupied by a two-story stucco structure. The lot is narrow and confined by multi-story structures on two sides. Overhead powerlines run along the sidewalk at the front of the building.

One 100-gallon and one 500-gallon underground storage tank (UST), formerly used for home heating fuel oil, were excavated from the site by Bernabe and Brinker in April 1991. Soil samples collected from the excavation indicated the soil contained up to 1,700 parts per million (ppm) total petroleum hydrocarbons as diesel (TPHD). Soil stockpiled from the excavation was sent to Vasco Road Landfill.

In August 1991, Exceltech, Inc., now RESNA, over-excavated the former UST locations and removed the soil. Petroleum hydrocarbons were not detected in samples collected from the deepened excavations.

### **Purpose and Scope**

The purpose of this investigation was to determine vertical extent, if any, of petroleum hydrocarbons below the excavations at the site. The work performed included the following:

- Informing the Alameda County Health department of RESNA's plans for the investigation and of any subsequent action taken in response to the findings.
- Drilling two exploratory borings and collecting soil samples for analysis.
- Evaluation of the collected data.
- Over-excavation of areas showing elevated petroleum hydrocarbon levels.
- Preparation of this report.

### **Work Plan Approval and Permitting**

RESNA submitted a work plan detailing the approach to this investigation for approval to the Alameda County Department of Health, Hazardous Materials Division (ACDH). The work plan, dated March 31, 1992, received approval from Ms. Susan Hugo of the ACDH on May 11, 1992.

A boring permit was applied for and received from the Zone 7 Alameda County Flood Control and Water Conservation District. Copies of the work plan approval and the boring permit are attached in Appendix A.

### **Exploratory Drilling and Soil Sampling**

RESNA drilled two exploratory borings at the site on June 4, 1992. The borings; designated B-1 and B-2; were located within the areas of the fuel tank excavations, as shown on Plate 2. Due to the proximity of boring B-2 to overhead power lines, a portable drill rig was used for the drilling activities.

Relatively undisturbed soil samples were collected at 5-foot intervals in each boring using a modified California split-spoon sampler with internal 2-inch-diameter by 6-inch-long brass lines. When each boring was advanced to the desired sampling depth, the sampler was lowered to the bottom of the hole and driven 1-1/2 feet ahead of the auger with a 140-pound, manually-operated hammer. The sampler was then removed and disassembled.

The RESNA geologist field-tested one sample from each depth interval with a portable gas vapor photoionization detector for volatile hydrocarbons. One sample from each sampling interval in native material below the excavations was selected for laboratory analysis. Each end of the sample selected for laboratory analysis was covered with aluminum foil and a plastic cap. The sample was then labeled, logged on a chain-of-custody form, and placed in a chilled cooler for transport to a state-certified laboratory. A copy of RESNA's soil sampling protocol is in Appendix B. The geologist also prepared a log of the subsurface conditions encountered during drilling based on observation of the samples and soil cuttings. The geologist classified the soil using the Unified Soil Classification System and Munsell Soil Color Charts. Copies of the boring logs are attached in Appendix C.

Each borehole was completed to a depth of 21-1/2 feet and then drill cuttings were placed on and covered with grout.

### **Subsurface Conditions**

Boring B-1 encountered 10 feet of Class II aggregate base fill material, indicating the tank excavation extended to 10 feet below grade. Two to three feet of yellowish brown clay was encountered below the excavation, grading to a silty clay at approximately 12-1/2 feet. A brown fat clay was noted at 18 to 19 feet below grade and continued to the bottom of the boring.

Class II aggregate base was observed in boring B-2 to a depth of 15 feet below grade. The fill was underlain by a yellowish brown clayey sand. A light yellowish brown fat clay similar in structure to that found at the bottom of B-1 was observed at 18 to 19 feet below grade.

### **Laboratory Analysis and Results: Exploratory Drilling**

Five soil samples were submitted to RESNA Environmental Laboratories, in Fremont, California. RESNA's state-certified laboratory No. 1211, analyzed the soil for total petroleum hydrocarbons as diesel (TPHd) and benzene, toluene, ethyl benzene, and total xylenes (BTEX). These tests were conducted as

recommended by the Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites using EPA Test Methods 8015 and 8020.

Trace amounts of toluene, ethyl benzene, and total xylenes were detected in the samples collected from the 10-1/2 and 15-1/2 foot levels in B-1. TPHd was also reported in these samples, with a concentration of 670 ppm reported in the 15-1/2 foot sample. Petroleum hydrocarbon constituents were not detected in the 20-1/2 foot sample in B-1 or in any of the samples from B-2. The analytical results are summarized on Table 1. Copies of the laboratory reports and chain-of-custody documents are in Appendix D.

### **Excavation**

Based on the analytical results, it was determined that the area around B-1 should be re-excavated; either to a depth below the occurrence of petroleum hydrocarbons or to the limits proscribed by the equipment and space limitations at the site.

A letter outlining the plan was submitted to the ACHD on August 3, 1992, and verbal approval was received from Ms. Hugo on the same day. RESNA began excavation on August 5, 1992, and continued through August 6, 1992. RESNA removed soil to a depth of 16 to 16-1/2 feet, and collected a soil sample from the bottom of the excavation. The sample was transported to RESNA laboratory for analysis.

### **Laboratory Analysis and Results: Excavation**

The sample was transported in a chilled cooler to RESNA Laboratory for TPHd and BTEX Analysis. Petroleum hydrocarbon constituents were not reported in the sample collected at 16 feet (Table 1 and Appendix C).

### **Discussion and Recommendations**

Information obtained from the exploratory borings placed on the Powlan property in June, 1992, indicated soil impacted by heating oil from the tank on the east side of the property had been removed during the excavation performed in August, 1991. However, up to 670 ppm diesel was detected in the area below the excavation on the southeastern portion of the site. RESNA therefore re-excavated the tank pit area and removed soil to a depth of 16 feet below grade. A soil sample collected at that depth did not contain detectable concentrations of petroleum hydrocarbon concentrations. The area was then backfilled with clean soil and Class II aggregate base.

Native material below the excavated areas appears to be a highly plastic clay with low permeability. Based on this information, RESNA does not believe further work at the site is warranted at this time.

### **Reporting Requirements**

A copy of this report should be forwarded to the following agency in a timely manner.

Alameda County Health Care Services Agency  
Hazardous Materials Program  
80 Swan Way, Room 200  
Oakland, California 94621  
Attention: Ms. Susan Hugo

**Limitations**

The discussion and recommendations presented in this report are based on the following:

1. Exploratory borings drilled at the site and in its vicinity.
2. Observations by field personnel.
3. The results of laboratory analyses performed by a state-certified analytical laboratory.
4. Our understanding of the regulations of the State of California, City of Oakland, and Alameda County.

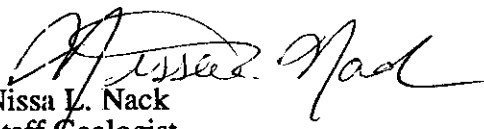
It is possible that variations in the soil or groundwater conditions could exist beyond the points explored in this investigation.

The service performed by RESNA has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the City of Oakland area. Please note that contamination of soil must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.

RESNA includes in this report chemical analytical data from a state-certified laboratory. The analytical results are performed according to procedures suggested by the U.S. EPA and State of California.

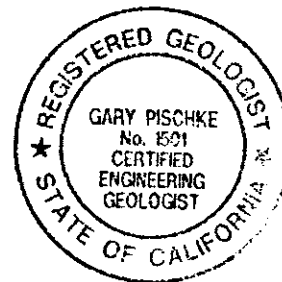
If you have any questions, please feel free to call (510) 440-3300.

Sincerely,  
RESNA Industries Inc.

  
Nissa L. Nack  
Staff Geologist

  
Gary Pischke, C.E.G. 1501  
Senior Project Geologist

NLN/GP/sr  
Attachments



### **Limitations**

The discussion and recommendations presented in this report are based on the following:

1. Exploratory borings drilled at the site and in its vicinity.
2. Observations by field personnel.
3. The results of laboratory analyses performed by a state-certified analytical laboratory.
4. Our understanding of the regulations of the State of California, City of Oakland, and Alameda County.

It is possible that variations in the soil or groundwater conditions could exist beyond the points explored in this investigation.

The service performed by RESNA has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the City of Oakland area. Please note that contamination of soil must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.

RESNA includes in this report chemical analytical data from a state-certified laboratory. The analytical results are performed according to procedures suggested by the U.S. EPA and State of California.

If you have any questions, please feel free to call (510) 440-3300.

Sincerely,  
RESNA Industries Inc.

Nissa L. Nack  
Staff Geologist

Gary Pischke, C.E.G. 1501  
Senior Project Geologist

NLN/GP/sr  
Attachments

**TABLE 1**  
**ANALYTICAL RESULTS**

Sample Number	Sample Date	Sample Depth (ft)	Benzene (ppm)	Toluene (ppm)	Ethyl benzene (ppm)	Total Xylenes (ppm)	TPHd (ppm)
<b>Borings</b>							
B1-2	06/04/92	10-1/2	<0.005	0.027	0.016	0.073	22
B1-3	06/04/92	15-1/2	<0.005	0.032	0.026	0.12	670
B1-4	06/04/92	20-1/2	<0.005	<0.005	<0.005	<0.005	<1.0
B2-3	06/04/92	15-1/2	<0.005	<0.005	<0.005	<0.005	<1.0
B2-4	06/04/92	20-1/2	<0.005	<0.005	<0.005	<0.005	<1.0
<b>Excavation</b>							
2	08/06/92	16	<0.005	<0.005	<0.005	<0.005	<1.0

*Handwritten notes:*  
 22  
 670  
 of  
 after  
 fire

ppm Parts per million  
 TPHd Total petroleum hydrocarbons as diesel  
 B1- Sample collected from Boring 1  
 B2- Sample collected from Boring 2  
 <0.005 Constituent not detected at or above laboratory detection limit





SOURCE: THOMAS BROTHER'S GUIDE  
ALAMEDA AND CONTRA COSTA COUNTIES  
1991



APPROXIMATE SCALE

0 1100 2200 4400



FEET

**RESNA**

PROJECT NO. E1062.11

SITE LOCATION MAP

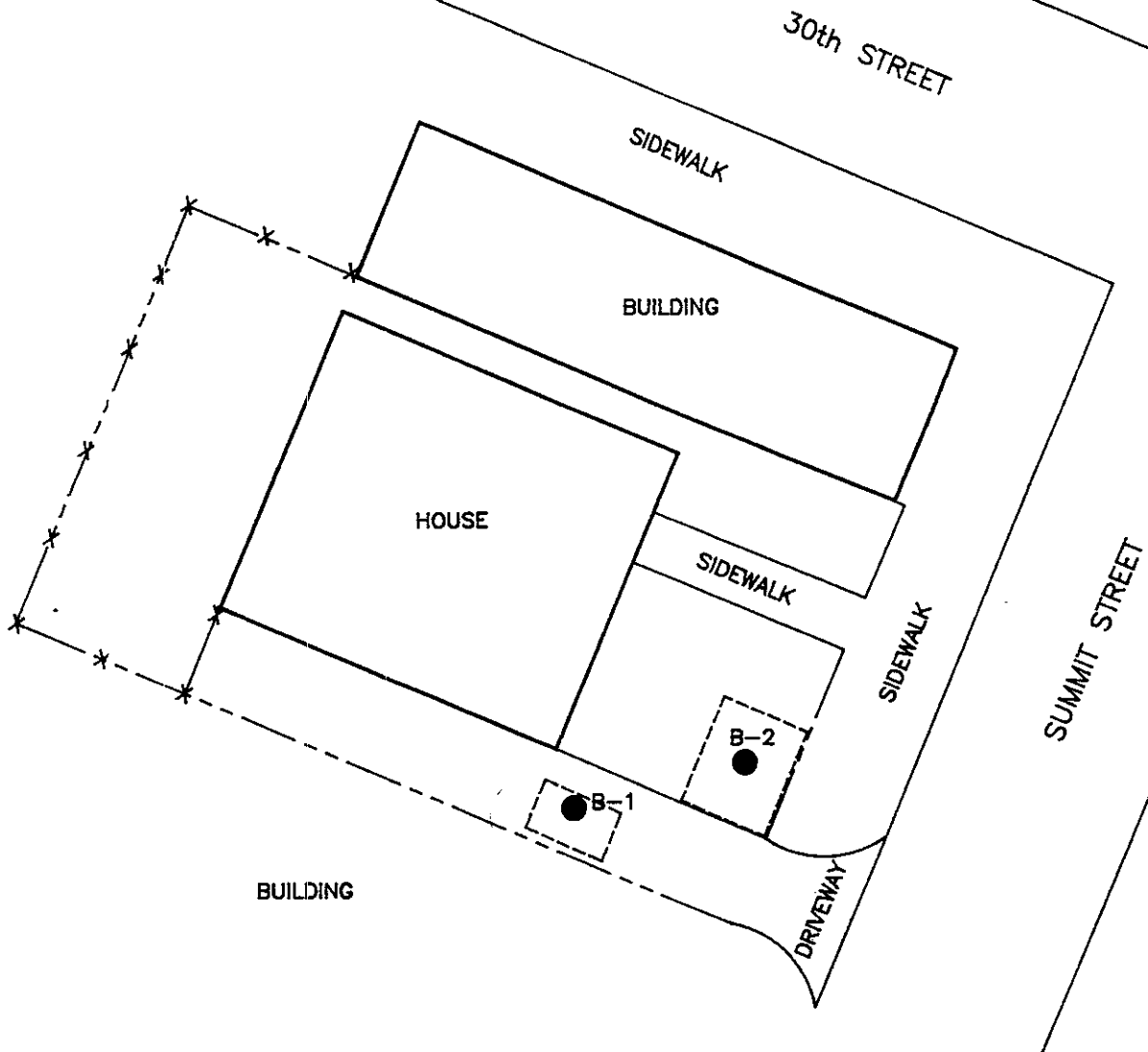
ROY POWLAN

2939 SUMMIT STREET

OAKLAND, CALIFORNIA

PLATE

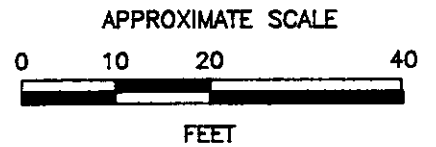
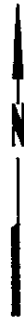
1



L E G E N D

B-2 ● = SOIL BORING

□ = APPROXIMATE FUEL TANK LOCATION



**RESNA**

**SITE PLAN**

ROY POWLAN

2939 SUMMIT STREET

OAKLAND, CALIFORNIA

PLATE

2

PROJECT NO. E1062.11

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**APPENDIX A**

**DRILLING PERMIT  
WORK PLAN APPROVAL**

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ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 (510) 484-2600

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 2939 Summit Street Oakland, California

PERMIT NUMBER 92268 LOCATION NUMBER

CLIENT Name Roy Paulan Address P.O. Box 1544 Phone 510-283-1326 City Lafayette Zip 94549

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT Name Nissal Mack Address 42501 Albraest Phone 510-440-3345 City Fremont Zip 94538

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. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER WELLS, INCLUDING PIEZOMETERS

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

- C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

- D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

- E. WELL DESTRUCTION. See attached.

TYPE OF PROJECT Well Construction Geotechnical Investigation Cathodic Protection General Contamination Water Supply Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE Domestic Industrial Other Municipal Irrigation

DRILLING METHOD: Mud Rotary Air Rotary Auger Cable Other

DRILLER'S LICENSE NO. 622930

WELL PROJECTS Drill Hole Diameter in. Maximum Casing Diameter in. Depth ft. Surface Seal Depth ft. Number

GEOTECHNICAL PROJECTS Number of Borings Hole Diameter in. Maximum Depth ft.

ESTIMATED STARTING DATE 5/29/92 4 JUN 92 ESTIMATED COMPLETION DATE 5/29/92 5 JUN 92

Approved Wyman Hong Date 28 May 92

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

APPLICANT'S SIGNATURE Nissal Mack Date 5/18/92

ALAMEDA COUNTY  
HEALTH CARE SERVICES



AGENCY  
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

May 11, 1992

DEPARTMENT OF ENVIRONMENTAL HEALTH  
Hazardous Materials Division  
80 Swan Way, Rm. 200  
Oakland, CA 94621  
(510) 271-4320

Ms. Nissa Nack  
RESNA  
42501 Albrae Street  
Fremont, California 94538

RE: **Work Plan for Soil Investigation at  
2939 Summit Street, Oakland California 94609**

Dear Ms. Nack:

This letter is a follow-up to our conversation of May 4, 1992 regarding the work plan submitted by RESNA concerning the soil investigation at the referenced site. The proposal for the drilling of two exploratory borings at the subject site is acceptable to this department.

Please notify this office of the schedule when the proposed work will start so a site visit can be arranged.

Should you have any questions concerning this letter, please contact me at (510) 271-4530.

Sincerely,

Susan L. Hugo  
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health  
Gil Jensen, Alameda County District Attorney's Office  
Rich Hiatt, San Francisco Bay RWQCB  
Dr. Roy Powlen, P.O. Box 1544, Lafayette, California 94549  
Files

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**APPENDIX B**  
**SOIL SAMPLING PROTOCOL**

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# ***RESNA***

## **Soil Sampling Protocol**

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# SOIL SAMPLING PROTOCOL

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## I. SOIL SAMPLING BY DRILLING RIG

- 1) Review site proposal for boring locations and special instructions. Confirm boring locations in field with client. Have Underground Service Alert (USA) mark utilities in area prior to drilling.
- 2) Prior to initiating an exploratory boring, all equipment to be used during drilling and sampling operation is steam cleaned. Such equipment includes, but is not limited to, augers, bits, drilling rod, and soil samplers. Additionally, before each sampling event, the sampler and any sample liners are thoroughly cleaned with a dilute trisodium phosphate solution and rinsed with clean tap water or distilled water. Additional decontamination procedures are implemented as needed by specific projects.
- 3) Each exploratory boring is drilled with a truck-mounted drilling rig using either solid flight or hollow stem augers. The boring is advanced to the desired sampling depth and the sampler is lowered to the bottom of the hole. The sampler is driven a maximum of 18 inches into the undisturbed soils ahead of the auger by a 140-pound, rig-operated hammer falling 30 inches. The number of blows required to drive the sampler the final 12 inches is recorded on the boring log. When necessary, the sampler may be pushed by the drill rig hydraulics. In this case, the pressure exerted (in pounds per square inch) is recorded. After the sampler has penetrated the full depth, it is retrieved to the surface.
- 4) The samplers commonly used are either a California modified sampler (3 inch or 2.5 inch O.D.) or a standard penetrometer (2 inch O.D.). The standard penetrometer does not contain sample liners and is used to determine soil strength characteristics and visually characterize the subsurface materials. If samples are collected for laboratory analysis the California modified sampler, equipped with brass liners, is used except when the analysis will include copper or zinc. In this instance, the sample should be taken with the standard penetrometer and placed in a labeled plastic bag.



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Upon retrieval, the sampler is disassembled into its component parts. One or more of the liners is selected for chemical analysis. The ends of the selected liner(s) are sealed with aluminum foil or teflon tape, capped with plastic caps, labeled, logged on chain-of-custody forms and stored in a chilled ice chest for preservation in the field and during transport to the analytical laboratory. All labels are pre-written to the extent possible with indelible ink to minimize handling time.

- 5) Samples not sealed for chemical analysis are checked for the presence of contamination in the field by the geologist. Any discoloration or odor is noted on the boring log. Each sample is classified in the field by a geologist using the Unified Soil Classification System and a Munsell soil color chart. In addition, samples may also be field-screened with a photoionization detector (calibrated daily) or threshold limit value sniffer. In either case, the instrument probe is held adjacent to freshly crumbled soil and the stabilized reading value is recorded on the log. Values of volatile vapors measured in the field are reconnaissance only and are not meant to supplant chemical analysis in a certified laboratory. Other visual screening techniques include examination of the sample under hand-lens magnification as-well-as floating sheen inspection resulting from immersion in water.

Lithology logging will collect geologic data as required, using conventional geologic and hydrogeologic terminology. When rock is logged, a GSA Rock Color Chart and appropriate terminology will be employed to describe rock, fractures, bedding, etc. Soil or rock coring may be specified by the supervising geologist on a project-specific basis.

- 6) Samples are held in the possession of RESNA personnel until transferred to the analytical laboratory. Transfer to the laboratory is accomplished with either delivery by RESNA personnel, pick-up by laboratory personnel, or transfer by a personal delivery service. Each transfer of responsibility is recorded on a chain-of-custody record that accompanies the samples.
- 7) Conditions occasionally arise when other drilling equipment are used given site-specific formation conditions. Rotary drilling may be selected if coring or bearing conditions arise. Rotary or casing hammer may be used as deep drilling, flowing sands, or formation-specific conditions require.
- 8) When drilling though an aquifer known to be contaminated, a staged drilling approach will be used. This would involve using either a temporary or

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permanent conductor casing placed adjacent to the contaminated aquifer and pressed or advanced slightly into the underlying aquitard. The cased hole will be cleaned as necessary, following which, a smaller diameter drill bit/auger will be advanced to the next underlying water bearing stratum. An impermeable seal will be placed in the borehole or annular space as appropriate upon completion of exploratory boring/well construction.

## II. SOIL SAMPLING BY HAND

- 1) Some situations require that samples be collected by hand without the assistance of a drill rig (e.g., soil stock piles, excavation sidewall sampling, etc.). When possible, soil samples will be collected using a steel core sampler equipped with clean brass liners which is advanced into the soil with a slide hammer. In other cases, the outer surface of the soil is removed and a brass liner is driven into the soil by hand or with a hammer. To avoid damaging the liner, a block of wood can be held next to the liner so that the hammer strikes the block rather than the liner. The liner is removed and handled as described above. In deep excavations where safety factors preclude the direct sampling of the bottom or side wall, soil is retrieved by a backhoe bucket and this soil is sampled.

# UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS	LTR	DESCRIPTION	MAJOR DIVISIONS	LTR	DESCRIPTION		
Coarse-grained soils	Gravel and gravelly soils	GW	Well-graded gravels or gravel-sand mixtures, little or no fines	Fine-grained soils	Silt and clays LL<50	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		GM	Silty gravels, gravel-sand-silt mixtures			OL	Organic silts and organic silt-clays of low plasticity
		GC	Clayey gravels, gravel-sand-clay mixtures			Silt and clays LL>50	MH
	Sand and sandy soils	SW	Well-graded sand or gravelly sands, little or no fines		CH		Inorganic clays of high plasticity, fat clays
		SP	Poorly-graded sands or gravelly sands, little or no fines		OH		Organic clays of medium to high plasticity, organic silts
		SM	Silty sands, sand-silt mixtures		Highly organic soils		PT
		SC	Clayey sands, sand-clay mixtures				

- |  |   |
|--|---|
| <p> Depth through which sampler is driven</p> <p> Relatively undisturbed sample</p> <p> No sample recovered</p> <p> Static water level observed in well</p> <p> Initial water level observed in boring</p> <p>S-10 Sample number</p> <p> Contact, where well known</p> | <p> Sand pack</p> <p> Bentonite seal</p> <p> Neat cement annular seal</p> <p> Caved native soil</p> <p> Blank PVC</p> <p> Machine-slotted PVC</p> <p>OVM Organic vapor meter</p> <p> Contact, where approximately known</p> |
|--|---|

BLOWS REPRESENT THE NUMBER OF BLOWS OF A 140-POUND HAMMER FALLING 30 INCHES TO DRIVE THE SAMPLER THROUGH EACH 6 INCHES OF AN 18-INCH PENETRATION.

DASHED LINES SEPARATING UNITS ON THE LOG REPRESENT APPROXIMATE BOUNDARIES ONLY. ACTUAL BOUNDARIES MAY BE GRADUAL. LOGS REPRESENT SUBSURFACE CONDITIONS AT THE BORING LOCATION AT THE TIME OF DRILLING ONLY.

<h2 style="margin: 0;">RESNA</h2>	<b>UNIFIED SOIL CLASSIFICATION SYSTEM AND SYMBOL KEY</b>
	POWLEN PROPERTY
	2939 SUMMIT STREET
	OAKLAND, CALIFORNIA
<b>PROJECT NO. E1062.11</b>	

Total depth of boring: 21-1/2 feet  
 Diameter of boring: 8 inches O.D.  
 Date drilled: 5-4-92  
 Drilling Company: RESNA Industries  
 Driller: Cam  
 Drilling method: Hollow-Stem Auger  
 Field Geologist: Nissa Nack

Casing diameter: N/A  
 Casing material: N/A  
 Slot size: N/A  
 Sand size: N/A  
 Blank casing from N/A to N/A  
 Perforated casing from N/A to N/A  
 Annular seal from N/A to N/A  
 Bentonite plug from N/A to N/A  
 Sand pack from N/A to N/A

Depth	Sample No.	Blows	OVM	USCS Code	Description	Well Const.
2					Class II aggregate base (fill).	
4						
6	E1-1	2 2 2	0			
8						
10	E1-2	9 17 20	2.8	CH	Clay, yellowish-brown (10 YR 5/6), trace sand with gray clay films, medium to high plasticity, very stiff, damp.	
12						
14				CL	Silty clay, mottled yellowish-brown (10 YR 6/4), trace sand, medium to low plasticity, gray staining, stiff.	
16	E1-3	10 15 22	33.3			
18						
20	E1-4	14 22 17	0	CH	Clay, brown (10 YR 5/3), some fractures, high plasticity, very stiff, damp to slightly moist.	
22					Total Depth = 21-1/2 feet.	
24						
26						
28						
30						
32						
34						
36						
38						
40						

**RESNA**

**LOG OF BORING B-1**

POWLEN PROPERTY

2939 SUMMIT STREET

OAKLAND, CALIFORNIA

PROJECT NO. E1062.11

Total depth of boring: 21-1/2 feet  
 Diameter of boring: 8 inches O.D.  
 Date drilled: 5-4-92  
 Drilling Company: RESNA Industries  
 Driller: Cam  
 Drilling method: Hollow-Stem Auger  
 Field Geologist: Nissa Nack

Casing diameter: N/A  
 Casing material: N/A  
 Slot size: N/A  
 Sand size: N/A  
 Blank casing from N/A to N/A  
 Perforated casing from N/A to N/A  
 Annular seal from N/A to N/A  
 Bentonite plug from N/A to N/A  
 Sand pack from N/A to N/A

Depth	Sample No.	Blows	OVM	USCS Code	Description	Well Const.
2					Sand/top soil (1 foot). Class II aggregate.	
4						
6	B31-1	4 4 4	0			
8						
10						
12	B31-2	3 2 2	0			
14						
16	B31-3	18 22 24	0	SC	Clayey sand, yellowish-brown (10 YR 5/4), moist, dense.	
18						
20	B31-4	10 11 18	0	CH	Clay, light yellowish-brown (10 YR 8/4), some fractures, slick on sides, high plasticity, stiff, moist.	
22					Total Depth = 21-1/2 feet.	
24						
26						
28						
30						
32						
34						
36						
38						
40						

**RESNA**

**LOG OF BORING B-2**

POWLEN PROPERTY

2939 SUMMIT STREET

OAKLAND, CALIFORNIA

PROJECT NO. E1062.11

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**APPENDIX D**

**LABORATORY RESULTS AND  
CHAIN OF CUSTODY DOCUMENT**

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**ANALYSIS REPORT**

1020lab.frm

Attention:	Ms. Nissa Nack RESNA 42501 Albrae St. Fremont, CA 94538	Date Sampled:	06-04-92
Project:	19513-L, Project #3-10062-ADM Powlan Property	Date Received:	06-04-92
		BTEX Analyzed:	06-10-92
		TPHg Analyzed:	NR
		TPHd Analyzed:	06-20/22-92
		Matrix:	Soil

	<u>Benzene</u> <u>ppm</u>	<u>Toluene</u> <u>ppm</u>	<u>Ethyl- benzene</u> <u>ppm</u>	<u>Total Xylenes</u> <u>ppm</u>	<u>TPHg</u> <u>ppm</u>	<u>TPHd</u> <u>ppm</u>
Detection Limit:	0.005	0.005	0.005	0.005	1.0	1

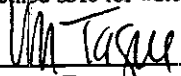
**SAMPLE**  
Laboratory Identification

B1-2 S1206026	ND	0.027	0.016	0.073	NR	22
B1-3 S1206027	ND	0.032	0.026	0.12	NR	670
B1-4 S1206028	ND	ND	ND	ND	NR	ND
B2-3 S1206029	ND	ND	ND	ND	NR	ND
B2-4 S1206030	ND	ND	ND	ND	NR	ND

ppm = parts per million = mg/kg = milligrams per kilogram.  
 ND = Not detected. Compound(s) may be present at concentrations below the detection limit.  
 NR = Analysis not requested.

**ANALYTICAL PROCEDURES**

**BTEX**-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.  
**TPHg**--Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.  
**TPHd**--Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

  
 \_\_\_\_\_  
 Laboratory Representative

June 30, 1992  
 Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA  
 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY  
 (Certification No. 1211)

# CHAIN OF CUSTODY RECORD

45168

Project No. <b>3-10062-ADM</b>			Project Name <b>Powell Property</b>			Test Requested				P.O. No.		
Samplers (Signature) <b>[Signature]</b>			Sample Description			TPHD	BTEX					Lab <b>RESNA</b>
												Turnaround Time <b>Normal</b>
No.	Date	Time	Sample Description			TPHD	BTEX					Remarks
B1-2	6/4/92	815	Soil, 16" brass			10 1/4 ft	1					S1206026
B1-3		830	"			15 1/2 ft	1					027
B1-4		950	"			20 1/4 ft	1					028
B2-3		1115	"			15 1/2 ft	1					029
B2-4		1130	"			20 1/4 ft	1					030

Relinquished By <b>[Signature]</b>	Date <b>6/4/92</b>	Time	Received By	Relinquished By	Date	Time	Received By
Relinquished By <b>[Signature]</b>	Date <b>6/4/92</b>	Time <b>2:30pm</b>	Received By <b>Roberto Arilla</b>	Relinquished By	Date	Time	Received By



**ANALYSIS REPORT**

1020lab.frm

Attention:	Ms. Nissa Nack RESNA 42501 Albrae St. Fremont, CA 94538	Date Sampled:	08-06-92
Project:	19513-L, Project #3-10062-11 Powlan Property	Date Received:	08-06-92
		BTEX Analyzed:	08-06-92
		TPHg Analyzed:	NR
		TPHd Analyzed:	08-06-92
		Matrix:	Soil

	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPHg	TPHd
	<u>ppm</u>	<u>ppm</u>	<u>ppm</u>	<u>ppm</u>	<u>ppm</u>	<u>ppm</u>
Detection Limit:	0.005	0.005	0.005	0.005	1.0	1.0

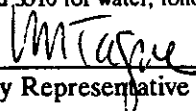
**SAMPLE**  
Laboratory Identification

2 @ 16 ft S1203053	ND	ND	ND	ND	NR	ND
-----------------------	----	----	----	----	----	----

ppm = parts per million = mg/kg = milligrams per kilogram.  
 ND = Not detected. Compound(s) may be present at concentrations below the detection limit.  
 NR = Analysis not requested.

**ANALYTICAL PROCEDURES**

**BTEX**-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.  
**TPHg**--Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.  
**TPHd**--Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

  
 Laboratory Representative

August 7, 1992  
 Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA  
 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY  
 (Certification No. 1211)

PROJECT NO.	PROJECT NAME/SITE						NO. CONTAINERS	SAMPLE TYPE	ANALYSIS REQUESTED								P.O. #:		
SAMPLERS (SIGN) <i>Michael Mack</i> / (PRINT) <i>Nissa Nact</i>																			
SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	PRES. USED	ICED			BTEX (802/802D)	TPHd (8015)	TPHd (8015)	TOG 418-1/5520	601/8010	824/8240	825/8270				REMARKS
1 @ 14 ft	8/5/92	330pm							/	/						5/208052			Hold
2 @ 16 ft	8/6/92	1000							/	/						W/083			24 hr

RELINQUISHED BY: <i>Michael Mack</i>	DATE 8/6/92	TIME 1230	RECEIVED BY: <i>M. Taylor</i>	LABORATORY:	PLEASE SEND RESULTS TO:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:		
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	REQUESTED TURNAROUND TIME:	
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY LABORATORY:	RECEIPT CONDITION: <i>good/corr</i>	PROJECT MANAGER: <i>Nissa Nact</i>

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Assistant Agency Director

May 11, 1992

DEPARTMENT OF ENVIRONMENTAL HEALTH  
Hazardous Materials Division  
80 Swan Way, Rm. 200  
Oakland, CA 94621  
(510) 271-4320

Ms. Nissa Nack  
RESNA  
42501 Albrae Street  
Fremont, California 94538

**RE: Work Plan for Soil Investigation at  
2939 Summit Street, Oakland California 94609**

Dear Ms. Nack:

This letter is a follow-up to our conversation of May 4, 1992 regarding the work plan submitted by RESNA concerning the soil investigation at the referenced site. The proposal for the drilling of two exploratory borings at the subject site is acceptable to this department.

Please notify this office of the schedule when the proposed work will start so a site visit can be arranged.

Should you have any questions concerning this letter, please contact me at (510) 271-4530.

Sincerely,

Susan L. Hugo  
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health  
Gil Jensen, Alameda County District Attorney's Office  
Rich Hiatt, San Francisco Bay RWQCB  
Dr. Roy Powlen, P.O. Box 1544, Lafayette, California 94549  
Files

5/4/92

Missa rack.

Unsol Q/C approved WP.  
notified 48hrs in advance  
before drilling starts



QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL  
PACKAGE  
TRACKING NUMBER

2066920774

203PM

2066920774

Date  
4/2/92

RECIPIENT'S COPY

From (Your Name) Please Print <b>NISSA NACK</b>		Your Phone Number (Very Important) <b>(510) 440-3300</b>		To (Recipient's Name) Please Print <b>SUSAN HUGO</b>		Recipient's Phone Number (Very Important)	
Company <b>INDUSTRIES INC</b>		Department/Floor No.		Company <b>ALAMEDA COUNTY HEALTH CARE SERVICES</b>		Department/Floor No.	
Street Address <b>4001 ALAMEDA ST</b>				Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.) <b>80 SWAN WAY CENTER, SUITE 200</b>			
City <b>BERKLEY</b>		State <b>CA</b>		City <b>OAKLAND, CA</b>		State <b>CA</b>	
ZIP Required <b>94705</b>		ZIP Required <b>94621-1439</b>					

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice) <b>3-10052-31</b>				IF HOLD FOR PICK-UP, Print FEDEX Address Here			
PAYMENT 1 <input type="checkbox"/> Bill Sender 2 <input type="checkbox"/> Bill Recipient's FedEx Acct No 3 <input type="checkbox"/> Bill 3rd Party FedEx Acct No 4 <input type="checkbox"/> Bill Credit Card				Street Address			
<input type="checkbox"/> Cash <input type="checkbox"/> Check				City			
				State			
				ZIP Required			

<b>4 SERVICES</b> (Check only one box)		<b>5 DELIVERY AND SPECIAL HANDLING</b> (Check services required)		<b>6 PACKAGES</b> WEIGHT in Pounds Only YOUR DECLARED VALUE		Emp. No. _____ Date _____ <input type="checkbox"/> Cash Received <input type="checkbox"/> Return Shipment <input type="checkbox"/> Third Party <input type="checkbox"/> Chg To Del <input type="checkbox"/> Chg To Hold Street Address _____ City _____ State _____ Zip _____ Received By: _____ <input checked="" type="checkbox"/> X Date/Time Received _____ FedEx Employee Number _____		Federal Express Use Base Charges _____ Declared Value Charge _____ Other 1 _____ Other 2 _____ Total Charges _____			
<b>Priority Overnight</b> (Delivery by next business morning) 11 <input type="checkbox"/> YOUR PACKAGING 16 <input checked="" type="checkbox"/> FEDEX LETTER* 12 <input type="checkbox"/> FEDEX PAK* 13 <input type="checkbox"/> FEDEX BOX 14 <input type="checkbox"/> FEDEX TUBE		<b>Standard Overnight</b> (Delivery by next business afternoon) 51 <input type="checkbox"/> YOUR PACKAGING 56 <input type="checkbox"/> FEDEX LETTER* 52 <input type="checkbox"/> FEDEX PAK* 53 <input type="checkbox"/> FEDEX BOX 54 <input type="checkbox"/> FEDEX TUBE		1 <input type="checkbox"/> HOLD FOR PICK-UP (If B in Box #) 2 <input checked="" type="checkbox"/> DELIVER WEEKDAY 3 <input type="checkbox"/> DELIVER SATURDAY (Extra charge) (Not available to all locations) 4 <input type="checkbox"/> DANGEROUS GOODS (Extra charge) 5 <input type="checkbox"/> 6 <input type="checkbox"/> DRY ICE Lbs. 7 <input type="checkbox"/> OTHER SPECIAL SERVICE 8 <input type="checkbox"/> 9 <input type="checkbox"/> SATURDAY PICK-UP (Extra charge) 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> HOLIDAY DELIVERY (if offered) (Extra charge)		Total Total Total DIM SHIPMENT (Chargeable Weight) <input type="checkbox"/> lbs. Received At: 1 <input type="checkbox"/> Regular Stop 3 <input checked="" type="checkbox"/> Drop Box 2 <input type="checkbox"/> On-Call Stop 4 <input type="checkbox"/> BSC 5 <input type="checkbox"/> Station		Release Signature: _____ FedEx Emp. No. _____ Date/Time _____		REVISION DATE 6/91 PART #137204 FXEM 1/92 FORMAT #099 <b>099</b> © 1990-91 FEDEX PRINTED IN U.S.A.	
<b>Economy Two-Day</b> (Delivery by second business day) 30 <input type="checkbox"/> ECONOMY		<b>Government Overnight</b> (Red clad for authorized users only) 46 <input type="checkbox"/> GOVT LETTER* 41 <input type="checkbox"/> GOVT PACKAGE		<b>Freight Service</b> (For Extra Large or any package over 150 lbs.) 70 <input type="checkbox"/> OVERNIGHT FREIGHT** 80 <input type="checkbox"/> TWO-DAY FREIGHT**							

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92107-2-111112

**WORK PLAN  
FOR  
SOIL INVESTIGATION**

**AT**

**2939 SUMMIT STREET  
OAKLAND, CALIFORNIA**

**Project No. 3-10062-31  
March 1992**

---

**RESNA**  
42501 Albrae Street  
Fremont, California 94538  
(510) 440-3300

42501 Albrae Street  
Fremont, California 94538  
Phone: (510) 440-3300  
FAX: (510) 651-2233

March 31, 1992  
Project No. 3-10062-31

Lempres & Wulfsberg  
Professional Corporation, Kaiser Center  
300 Lakeside Drive, 24th Floor  
Oakland, CA 94604

Attention: Mr. David W. Ginn


Subject: Work Plan for Soil Investigation  
2939 Summit Street, Oakland, California

Dear Mr. Gin:

RESNA Industries, Inc. (formerly Exceltech, Inc.), is pleased to submit this work plan for the drilling of two exploratory borings at the subject site in the City of Oakland, Alameda County, California. This work plan describes the investigative methods and techniques proposed to determine the possible impact of a release from two former underground storage tanks on the soil beneath the subject site.

If you have any questions, please call.

Sincerely,  
RESNA Industries, Inc.

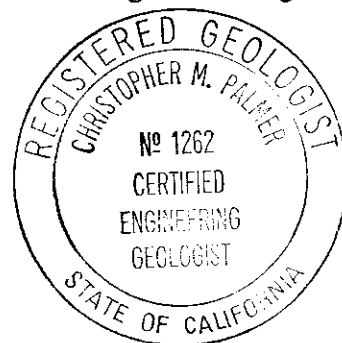


Nissa L. Nack  
Staff Geologist

NLN/CMP/da  
Enclosures



Christopher M. Palmer, C.E.G. 1262  
Senior Program Geologist



# Table of Contents

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## Figures

- 1 Site Location Map
- 2 Site Plan

## Appendices

- A Site Safety Plan
  - B Soil Sampling Protocol
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**WORK PLAN**  
**FOR**  
**SOIL INVESTIGATION**  
**2939 SUMMIT STREET**  
**OAKLAND, CALIFORNIA**

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This work plan has been prepared for the drilling of two exploratory borings at the subject site in the City of Oakland, Alameda County, California (Figure 1). It is our understanding that this work is required by the Alameda County Department of Environmental Health as outlined in their letter dated February 28, 1992. A copy of our site safety plan for this site is attached.

### **Background**

The site is rectangular in shape and located near the intersection of Summit Street and 30th Avenue near downtown Oakland. The site is currently occupied by a two-story stucco structure. The lot is narrow and confined by multi-story structures on two sides. Overhead powerlines run along the sidewalk at the front of the building.

One 100-gallon and one 500-gallon underground storage tanks (USTs), formerly used for home heating fuel oil, were excavated from the site by Bernabe and Brinker during April 1991. Soil samples collected from the excavated indicated the soil contained up to 1,700 parts per million (ppm) total petroleum hydrocarbons as diesel (TPHD). Stockpiled soil from excavation was sent to Vasco Road Landfill.

In August 1991, Exceltech, Inc., now RESNA Industries, over-excavated the former UST locations and removed the soil. Petroleum hydrocarbons were not detected in samples collected from the deepened excavations.

### **Purpose and Scope**

RESNA proposes to drill two exploratory borings, one in the approximate center of each UST excavation. The borings will determine if the soil below the excavations has been affected by fuel oil. The locations of the proposed borings are shown on Figure 2. Soil samples will be collected every 5 feet from these boreholes, and will be used to ascertain depth of contaminant penetration. Borings are anticipated to be around to about 20 to 25 feet

### **Permitting**

Approval of this work plan will be required from the Alameda County Department of Health, Hazardous Materials Division. RESNA will secure approval and coordinate a

drilling date with the Alameda County inspector. A utilities clearance will be obtained prior to drilling.

### **Exploratory Drilling and Soil Sampling**

Two exploratory boring will be drilled to a depth of 20 feet within the approximate center of each UST excavation.

RESNA proposes to drill the borings with a RESNA truck-mounted drill rig using 4-1/4-inch-inside-diameter hollow-stem continuous-flight auger. The auger will be steam-cleaned before the start of each boring to minimize the possibility of cross-contamination.

Relatively undisturbed soil samples will be collected at 5-foot intervals in each boring using a modified California split-spoon sampler with internal 2-inch-diameter by 6-inch-long brass liners to collect the soil samples. When the boring is advanced to the desired sampling depth, the sampler will be lowered to the bottom of the hole and driven 1-1/2 feet ahead of the auger with a 140-pound, rig-operated hammer. The sampler will then be removed and disassembled.

The RESNA geologist will field-test one sample from each depth interval with a portable gas vapor photoionization detector for volatile hydrocarbons. One sample from each 5-foot interval above first encountered groundwater will be selected for laboratory analysis. The ends of the sample selected for laboratory analysis will be covered with aluminum foil and a plastic cap. The sample will then be labeled, logged on a chain-of-custody form, and placed in a chilled cooler for transport to a state-certified laboratory. The geologist will also prepare a log of the subsurface conditions encountered during drilling based on observations of the samples and soil cuttings. The geologist will classify the soil using the Unified Soil Classification System and Munsell Soil Color Charts.

Drill cuttings will be placed on and covered by plastic sheeting. The boreholes will be backfilled with grout upon completion. They will remain at the site until the submitted soil samples are analyzed. It is the Client's responsibility to dispose of all drill cuttings.

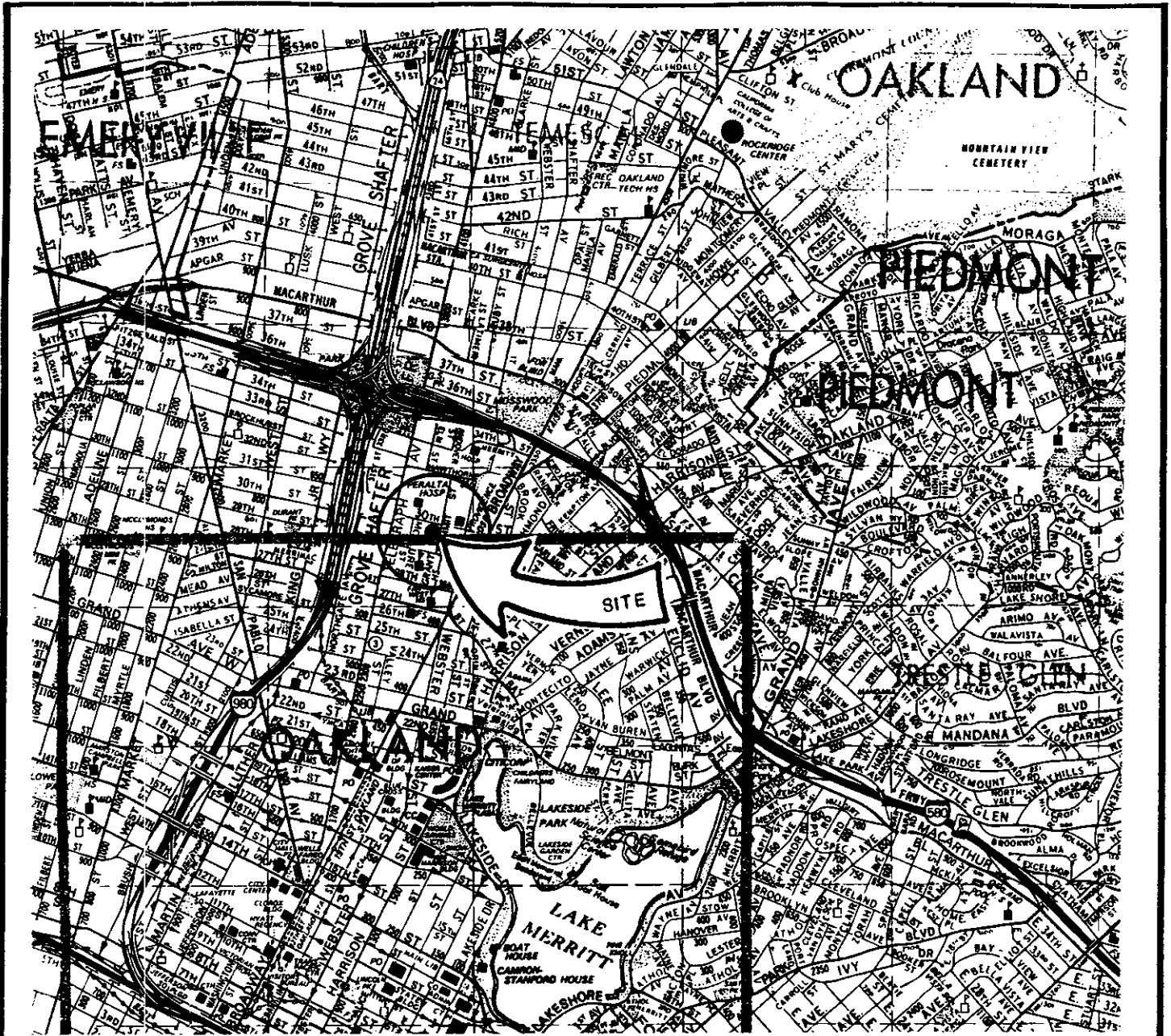
### **Laboratory Analyses**

Up to 8 soil samples will be submitted for chemical analysis for TPHD and benzene, toluene, ethyl benzene, and total xylenes, as recommended in the Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites. Normal turnaround time for sample analysis is 10 to 15 working days.

## **Report**

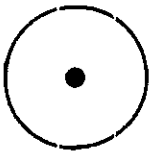
At the conclusion of this investigation, RESNA will prepare a letter report presenting the field and laboratory methods, the data obtained, and brief summary of subsurface conditions. The report will be ready within four to five weeks following completion of field work. The report will contain:

- Summary of subsurface conditions.
- Lithology logs for exploratory borings.
- A background summary of site tank removal and excavation.
- Documentation of excavation as off-site removal of excavated soils.
- A site map showing features relevant to the investigation.
- Analytical data from sampling.

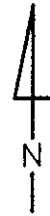
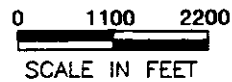


BASE MAP: THOMAS BROTHERS GUIDE, ALAMEDA AND CONTRA COSTA COUNTIES

**LEGEND**



SITE LOCATION



REVIEWED BY:

**SITE LOCATION MAP**

**RESNA**

ROY POWLAN

APPROVED BY:

2939 SUMMIT STREET

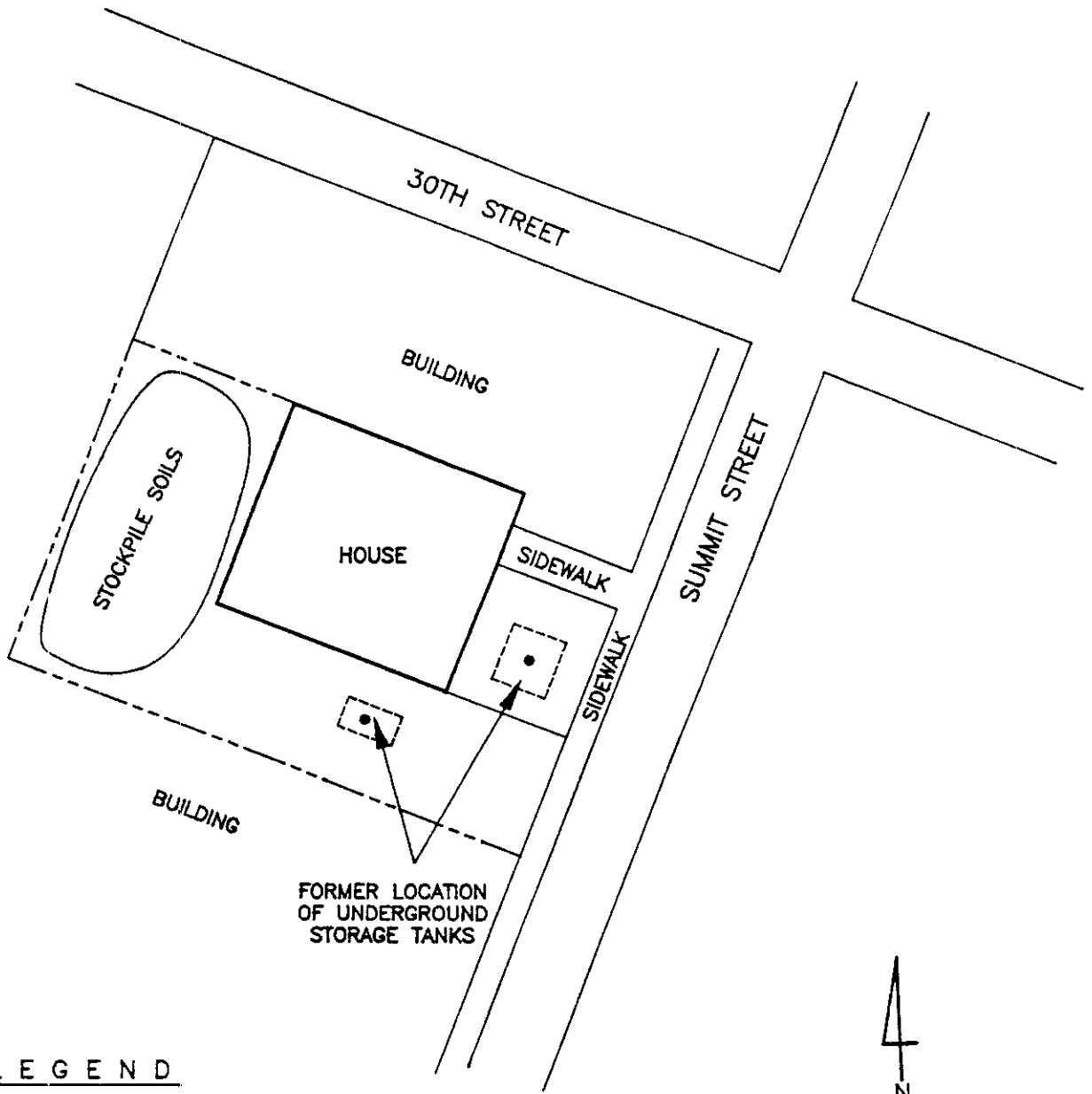
JOB #:  
3-10062-31

DRAWN BY:  
J.D.S.

OAKLAND, CALIFORNIA

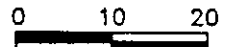
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4/1/92

DRAWING #:  
FIG. 1



L E G E N D

- PROPOSED BORING LOCATION



APPROXIMATE SCALE IN FEET

REVIEWED BY:

**SITE MAP**



ROY POWLAN

APPROVED BY:

2939 SUMMIT STREET

OAKLAND, CALIFORNIA

JOB #:  
3-10062-31

DRAWN BY:  
E.C.

DATE:  
3/30/92

DRAWING #:  
FIG. 2

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**APPENDIX A**  
**SITE SAFETY PLAN**

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**SITE SAFETY AND  
HEALTH PLAN**

**FOR**

**POWLAN PROPERTY  
2939 SUMMIT STREET  
OAKLAND, CALIFORNIA**

**Project No. 3-10062-31  
April 1992**

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***RESNA***  
42501 Albrae Street  
Fremont, California 94538  
(510) 440-3300

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## Site Safety Plan

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**Job Name:** Powlan Property  
**Job Location:** 2939 Summit Drive, Oakland, California  
**Client Name:** Powlan Property  
**Project Number:** 3-10062-31 **Date:** April 2, 1992  
**SSP Prepared by:** Nissa L. Nack  
**Site Safety Officer:** Nissa L. Nack

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This site safety and health plan (SSP) must be kept on-site and accessible to all on-site employees during all phases of site operations. The SSP must be reviewed and signed by all on-site employees, subcontractors, and visitors prior to entering the site. General safe work practices are identified in the RESNA Injury and Illness Prevention Manual and apply to all RESNA work sites.

The provisions set-forth in this SSP shall apply to RESNA Industries Inc. (RESNA) employees and any subcontractors working for RESNA at the job site. All personnel working for RESNA at the job site must read this SSP, and sign the attached Compliance Agreement before entering the work area. Field personnel may deviate from the safety provisions set-forth in this SSP, but only to upgrade or increase the safety requirements. RESNA personnel may suspend work if unauthorized modifications to the safety provisions set-forth in this SSP are made. If changes in site or working conditions require changes in safety procedures, appropriate amendments to this SSP will be provided by the RESNA project manager or supervisor, with the written approval of a RESNA branch safety officer or the RESNA Health and Safety Director.

### WORK PLAN

**Task One:** Drill two borings on-site. Proposed boring locations are shown on Figure 2.

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**Task Two:** \_\_\_\_\_

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**JOB HAZARD ANALYSIS AND SUMMARY**

**Chemical Health Hazards**

Task(s)	Chemical	TWA/IDLH	Soil/Water, Known Concentration	Signs/Symptoms
1	Benzene	1.0 ppm/3000 ppm	Unknown	irritation of eyes, nose, respiratory track, nausea
1	Toluene	100 ppm/2000 ppm	Unknown	weakness, confusion, dialated pupils
1	Ethyl benzene	100 ppm/2000 ppm	Unknown	irritation to eyes, nose, respiratory track, nausea
1	Total xylenes	100 ppm/1000 ppm	Unknown	Dizziness, excitement, drowsiness, incoherence
1	Diesel		Unknown	

*Attach Additional Pages as Necessary*

TWA: Time-weighted average concentrations for up to a 10-hour work day during a 40 hour work week.  
 IDLH: Immediately dangerous to life or health concentrations

**Physical Hazards**

Task(s)	Hazard	Mitigation Measure
1	Trip/Fall	Keep work area free of potential trip hazards
1	Underground Utilities	Call USA, use underground locator service, check City of Santa Clara Records
1	Overhead Utilities	Work at least 10 feet from overhead lines. Use skid rigs if necessary

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### Fire and Explosion Hazards

List Flammable or Combustible materials on-site. Keep sources of ignition away from these materials.

Flammable (Flash Point <100 °F)	Combustible (Flash Point <200 °F)

List oxidizers on-site. Keep away from flammable or combustible materials.

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Type and Location of Fire Extinguishers (*Show on map for large projects*)

Geology Truck

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Drill Rig

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### Other Hazards (Check if applicable)

Noise

*Activities likely to generate noise exceeding 85 dB:*

Drilling

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*Wear hearing protection during these activities.*

Heat Stress

*Symptoms:*

Heat Cramps:	Muscular pains and spasms.
Heat Exhaustion:	Cool, pale, moist skin; heavy sweating; dilated pupils, headache nausea, dizziness, vomiting, near normal body temperature
Heat Stroke:	Hot, red skin; very small pupils; high body temp., reduced sweating

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**Mitigation:** Cool place for breaks: \_\_\_\_\_  
Whenever ambient temperatures exceed 80°F, or whenever semi-permeable or impermeable protective clothing is worn and ambient temperatures exceed 70°, monitoring the worker:

- *Heart rate. Count the radial pulse during a 30-second period as early as possible in the rest period.*  
If the heart rate exceeds 110 beats per minute at the beginning of the rest period, shorten the next work cycle by 1/3 and keep the rest period the same. If the heart rate still exceeds 110 beats per minute at the next rest period, shorten the following work cycle by 1/3 (12).
- *Oral temperature. Use a clinical thermometer (3 minutes under the tongue) or similar device to measure the oral temperature at the end of the work period (before drinking).*  
If oral temperature exceeds 99.6°F (37.6°C), shorten the next work cycle by 1/3 without changing the rest period. If oral temperature still exceeds 99.6°F (37.6°C) at the beginning of the next rest period, shorten the following work cycle by 1/3 (12). Do NOT permit a worker to wear a semi-permeable or impermeable garment when his/her oral temperature exceeds 100.6°F (38.1°C) (12).

Take frequent breaks in shaded area. Unzip or remove PPE during breaks. Provide drinking water and/or electrolyte replacement drink. Record the time and duration of all breaks. Heat stroke victims must receive emergency medical care.

<input type="checkbox"/>	<b>Hypothermia/Frostbite</b>
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**Symptoms:** Hypothermia: Shivering, apathy, loss of consciousness, decreasing pulse and breathing rate.  
Frostbite: white, then grayish yellow progressing to grayish blue skin. cold, numb part.

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*Mitigation:* Wear multilayer cold weather outfits covered by a wind resistant fabric. Take frequent breaks in a warm, sheltered area. Provide warm non-alcoholic drinks. For frostbite victims warm injured part gradually, do not rub! Warm hypothermia victims and transport to emergency medical care.

**Underground/Overhead Utilities** — *show location of utilities on site map*

How were underground utilities identified? \_\_\_\_\_

Describe mitigation measures: Contact USA, City of Oakland Public Works Department, underground locators  
\_\_\_\_\_  
\_\_\_\_\_

**Confined Space Entry** — *follow RESNA's Confined Space Entry Procedures*

**Other** — *explain hazard and mitigation*

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**EXPOSURE MONITORING**

All sample results will be recorded in the RESNA exposure log. Log copies are filed in the job file, and in all site personnel's medical file. and maintained in the job file. All sampling instruments will be calibrated per the manufacturers instructions on a daily basis.

- \* Note calibration gas and any unusual calibration settings in the "monitoring equipment" column.
- \*\* Include monitoring for health hazards, explosion hazards, etc.

Monitoring Equipment	Hazard Monitored	Sample Location	Sample Frequency	Action Level	Action
OVM	BTEX	Work area	Every hour or as needed	150 ppm per period of 15 min.	Upgrade to modified Level C

*Identify sample locations on site map*

**PERSONAL PROTECTIVE EQUIPMENT**

As a *minimum* Level D protection is required on all RESNA worksites. *Level D includes: steel toed boots, safety glasses and a hard hat.* For each task on this project, identify additional protective garments as required, include the conditions (exposure levels ,etc.) under which the level of PPE would be modified for each task.

Task(s)	Condition	Personnel	Garment(s)
1		All	Level C: tyvek, nitrile gloves, respirator with organic vapor cartridges; Modified Level C: respirator with organic vapor cartridges

**SITE CONTROL AND COMMUNICATIONS**

The buddy system is encouraged on all RESNA hazardous waste sites.

Site will be secured as follows: \_\_\_\_\_

Work Zones will be marked as follows: \_\_\_\_\_

Mark Work Zones on site map  Check when done

On-site communications:  Radio  Verbal  Hand Signals  
 Other \_\_\_\_\_

Off-site communications:  Radio  Telephone  
 Other \_\_\_\_\_

The specific signal for an emergency is: \_\_\_\_\_

The specific signal for an evacuation is: \_\_\_\_\_

Evacuation assembly point is: \_\_\_\_\_

Mark Evacuation route(s) on site map  Check when done

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### SANITATION AND DECONTAMINATION

Personnel Decontamination Procedure: Hands and face will be washed before smoking, drinking, and eating.

Location of Wash Water: Water on Geo-truck

Location of Toilet: A restroom is located within the building.

Location of Drinking Water: Support truck

Mark Location of Eyewash and Shower drench on site map  Check when done

Attach Decontamination Line chart if applicable  Check when done

Equipment Decontamination Procedure: Equipment will be cleaned with Alconox Solution.

Decontamination Equipment/Supplies needed: \_\_\_\_\_

Materials to be Disposed of as Hazardous Waste: Gloves, possibly respirator cartridges

### EMERGENCY RESPONSE

In case of an emergency the site safety officer must be notified. The site safety officer or his/her alternate will notify outside emergency response agencies (ER) as needed, the branch safety officer, and the project supervisor/manager. The branch safety officer will make any required reports to local, state, and federal agencies. Other emergency notifications will include: \_\_\_\_\_

ER Agency: Fire and Police Phone 911

ER Agency: Providence Hospital Phone 510-835-4500

Site Safety Officer: Nissa L. Nack On-site Phone \_\_\_\_\_  
Pager # \_\_\_\_\_

Branch Safety Officer: Madhulla Logan Office Phone 510-440-3300  
Pager # \_\_\_\_\_

Project Manager: Gary Della Vecchia Office Phone 510-440-3300  
Pager # \_\_\_\_\_



Employees may only fight small fires which have not spread beyond the original source. Spills should be cleaned up as outlined in the RESNA spill response procedure. Spills may be cleaned up by properly prepared personnel as follows.

Spilled Material	Neutralizer	PPE	Monitoring

**Emergency Medical Treatment**

All RESNA field personnel must be CPR and first aid trained. At a minimum personnel who inhale hazardous materials must be removed to fresh air. Personnel who are contaminated with hazardous materials by contact should rinse the area of contact for a minimum of 15 minutes. The site safety officer or his/her alternate will determine if injured personnel require further emergency medical attention.

Unusual first aid procedures: N/A

Location of first aid kit: Geology vehicle

Nearest emergency medical facility: Providence Hospital, 3100 Summit Street, Oakland

Directions from work site: One block north on Summit Street

*Attach a map which shows the route from the work site to the nearest emergency medical facility.*

*Check when done.*

**\*\*\*SPECIAL EMERGENCY DIRECTIONS\*\*\***

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## KEY SAFETY PERSONNEL AND RESPONSIBILITIES

All personnel working for RESNA at the job site are responsible for project safety. The operational and health and safety responsibilities of pertinent RESNA personnel are identified below.

**Corporate Safety Director:** Marilyn Moots

The Corporate Safety Director is responsible for establishing and directing the RESNA Health and Safety program. In this capability she sets policies with respect to SSPs and ensures that the requirements are implemented company-wide. The Corporate Health and Safety Director reports to the company president, Mr. George Barsom. Ms. Moots can be reached at (602) 961-0777.

**Branch Safety Officer:** Madhulla Logan

The Branch Safety Officer is responsible for disseminating requirements with respect to SSPs, for monitoring training related to SSPs, and for submitting specified SSPs to the Corporate Safety Director for approval. The Branch Safety Officer reports to the Corporate Safety Director.

**Project Manager:** Gary DellaVecchia

The Project Manager is responsible for the provisions and submittal of this SSP to the Site Safety Officer (SSO) and for advising the SSO on health and safety matters. She/He has the authority to provide for the auditing of compliance with the provisions of this SSP, suspend or modify work practices, and to recommend disciplinary action for individuals whose conduct does not meet the provisions presented in this SSP. The Project Manager is also responsible for ensuring that Medical Surveillance Exams and Training Programs are current for all personnel working on-site. The Project Manager reports to the Branch Safety Officer.

**Site Safety Officer:** Nissa L. Nack

The SSO is responsible for the dissemination of the information contained in this SSP to all RESNA personnel working at the job site, and to the responsible representative(s) of each subcontractor firm working for RESNA at the job site. The SSO is responsible for ensuring the following items are adequately addressed: Safety Supplies and Equipment Inventory; Accident/Incident Reporting Procedures; Decontamination/Contamination Reduction Procedures; General Safe Work Practices. Perform air monitoring as required, direct emergency response activities as described in the SSP.

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The SSO has the authority to suspend work anytime he/she determines the safety provisions set-forth in this SSP are inadequate to ensure worker safety. The SSO shall also inform the Project Manager of individuals whose conduct does not meet the safety provisions of this SSP. The Site Safety Officer reports to the Project Manager. A SSO or the alternate must be present during the field work operations.

### **TAILGATE MEETING**

All field personnel from RESNA and the subcontractors must attend a safety orientation meeting before commencing the field work. The meeting will be scheduled and conducted by the Site Safety Officer and is to include an overview of the site history, the potentially hazardous compounds, their potential mode of ingress into the body, protective equipment requirements, and emergency response equipment. All individuals who do not have respirators and who may be required to wear them, will not be allowed on the site until they are provided with and fit tested for respirators by their respective employers.

A tailgate meeting will be held every morning before the start of work and is to be attended by all personnel on-site. The purpose of the meeting is to discuss the days work, potential hazards, and specific health and safety procedures to be utilized during the day. The minutes of the meeting will be prepared by the Site Safety Officer.

### **VISITOR CLEARANCE**

Visitors to the site must inform the Site Safety Officer or the Project Manager upon their arrival on the site and must be informed of the contents of this report and fully equipped before entry is permitted. Visitors will be required to be escorted in the exclusion zone and must comply with escort directions at all times. Non-compliance with escort directions will not be tolerated, and violators will be required to leave the restricted access zones immediately.

**Sign-Off Page**

I have read the Site Safety Plan and fully understand the hazards associated with the following job: \_\_\_\_\_

I will comply with the minimum safety requirements set forth in the Site Safety Plan. I agree to notify the responsible employee of RESNA should any unsafe acts be witnessed by me while I am on this site.

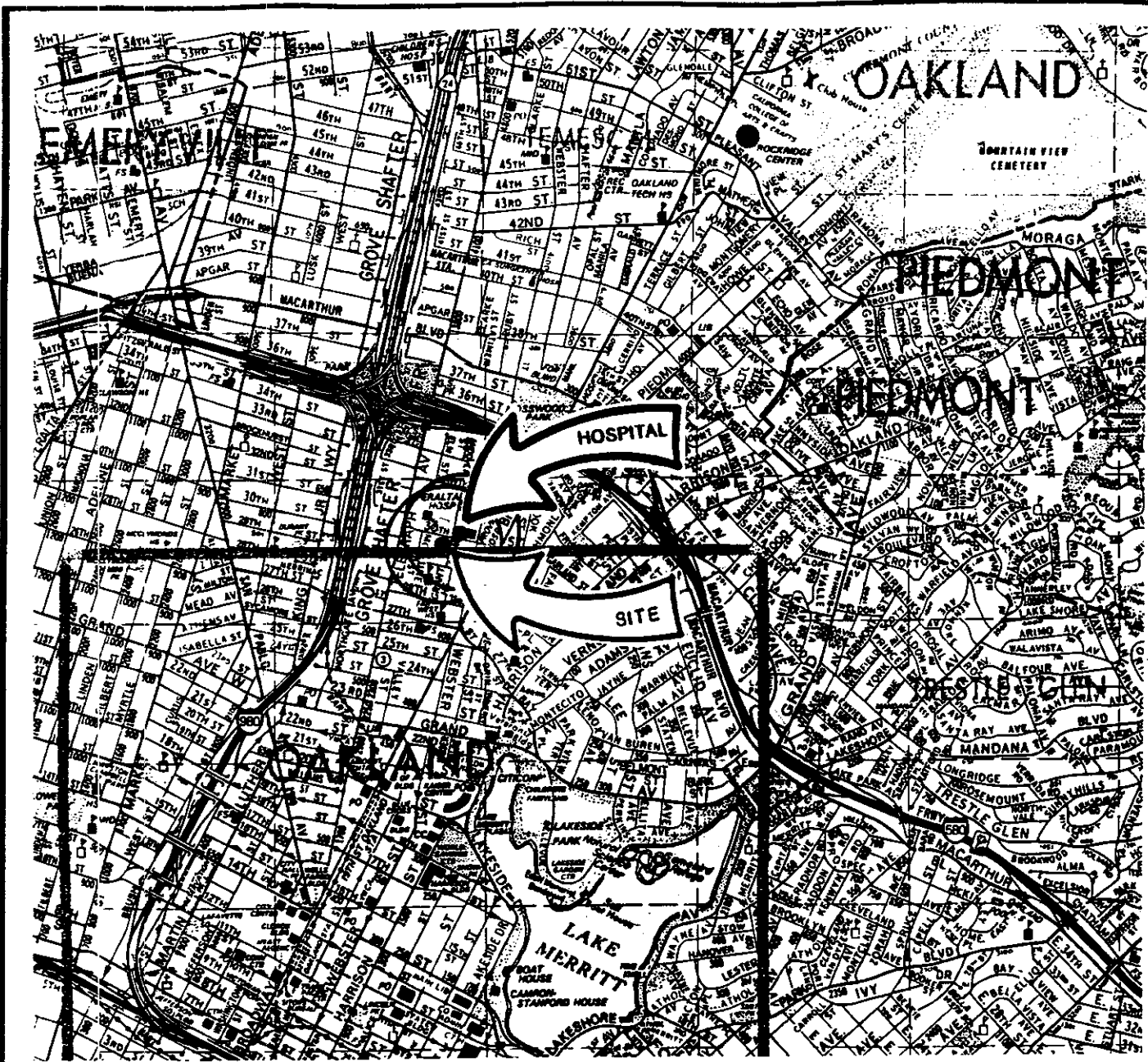
Print Name	Signature	Date

Safety Plan approved by:

\_\_\_\_\_ **Branch Safety Officer**

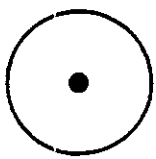
\_\_\_\_\_ **Project Supervisor**



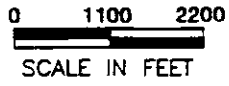


BASE MAP: THOMAS BROTHERS GUIDE, ALAMEDA AND CONTRA COSTA COUNTIES

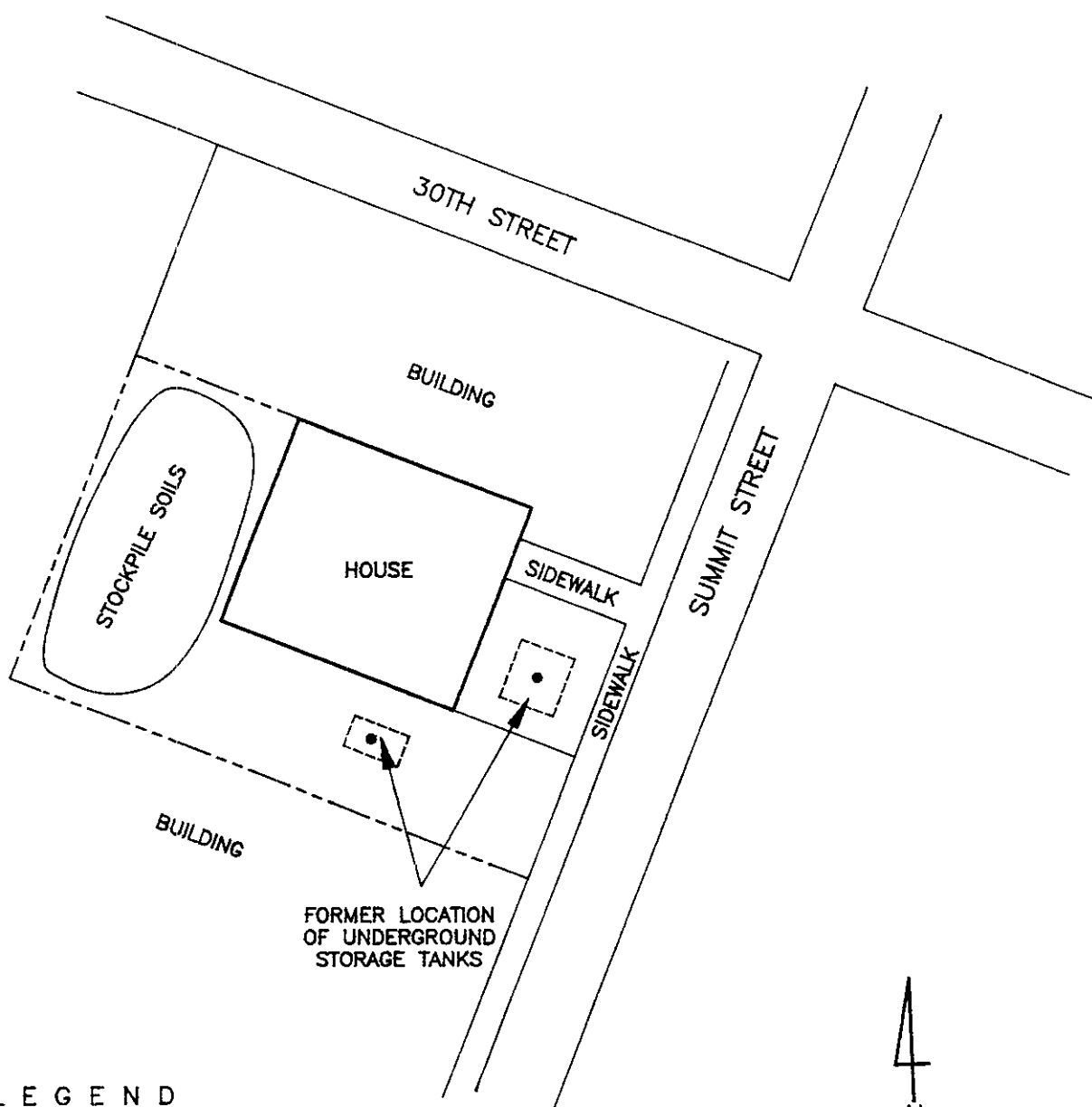
**LEGEND**



SITE LOCATION

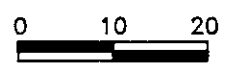


REVIEWED BY:	<b>HOSPITAL LOCATION MAP</b>		<b>RESNA</b>	
	PROVIDENCE HOSPITAL			
APPROVED BY:	3100 SUMMIT STREET		JOB #:	DRAWN BY:
	OAKLAND, CALIFORNIA		3-10062-31	J.D.S.
			DATE:	DRAWING #:
			4/1/92	FIG. 1



LEGEND

- PROPOSED BORING LOCATION



APPROXIMATE SCALE IN FEET

REVIEWED BY:	<b>SITE MAP</b>	<b>RESNA</b>	
	ROY POWLAN		
APPROVED BY:	2939 SUMMIT STREET	JOB #: 3-10062-31	DRAWN BY: E.C.
	OAKLAND, CALIFORNIA	DATE: 3/30/92	DRAWING #: FIG. 2



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**APPENDIX B**  
**SOIL SAMPLING PROTOCOL**

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***RESNA***

**Soil Sampling Protocol**

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# SOIL SAMPLING PROTOCOL

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## I. SOIL SAMPLING BY DRILLING RIG

- 1) Review site proposal for boring locations and special instructions. Confirm boring locations in field with client. Have Underground Service Alert (USA) mark utilities in area prior to drilling.
- 2) Prior to initiating an exploratory boring, all equipment to be used during drilling and sampling operation is steam cleaned. Such equipment includes, but is not limited to, augers, bits, drilling rod, and soil samplers. Additionally, before each sampling event, the sampler and any sample liners are thoroughly cleaned with a dilute trisodium phosphate solution and rinsed with clean tap water or distilled water. Additional decontamination procedures are implemented as needed by specific projects.
- 3) Each exploratory boring is drilled with a truck-mounted drilling rig using either solid flight or hollow stem augers. The boring is advanced to the desired sampling depth and the sampler is lowered to the bottom of the hole. The sampler is driven a maximum of 18 inches into the undisturbed soils ahead of the auger by a 140-pound, rig-operated hammer falling 30 inches. The number of blows required to drive the sampler the final 12 inches is recorded on the boring log. When necessary, the sampler may be pushed by the drill rig hydraulics. In this case, the pressure exerted (in pounds per square inch) is recorded. After the sampler has penetrated the full depth, it is retrieved to the surface.
- 4) The samplers commonly used are either a California modified sampler (3 inch or 2.5 inch O.D.) or a standard penetrometer (2 inch O.D.). The standard penetrometer does not contain sample liners and is used to determine soil strength characteristics and visually characterize the subsurface materials. If samples are collected for laboratory analysis the California modified sampler, equipped with brass liners, is used except when the analysis will include copper or zinc. In this instance, the sample should be taken with the standard penetrometer and placed in a labeled plastic bag.

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Upon retrieval, the sampler is disassembled into its component parts. One or more of the liners is selected for chemical analysis. The ends of the selected liner(s) are sealed with aluminum foil or teflon tape, capped with plastic caps, labeled, logged on chain-of-custody forms and stored in a chilled ice chest for preservation in the field and during transport to the analytical laboratory. All labels are pre-written to the extent possible with indelible ink to minimize handling time.

- 5) Samples not sealed for chemical analysis are checked for the presence of contamination in the field by the geologist. Any discoloration or odor is noted on the boring log. Each sample is classified in the field by a geologist using the Unified Soil Classification System and a Munsell soil color chart. In addition, samples may also be field-screened with a photoionization detector (calibrated daily) or threshold limit value sniffer. In either case, the instrument probe is held adjacent to freshly crumbled soil and the stabilized reading value is recorded on the log. Values of volatile vapors measured in the field are reconnaissance only and are not meant to supplant chemical analysis in a certified laboratory. Other visual screening techniques include examination of the sample under hand-lens magnification as-well-as floating sheen inspection resulting from immersion in water.

Lithology logging will collect geologic data as required, using conventional geologic and hydrogeologic terminology. When rock is logged, a GSA Rock Color Chart and appropriate terminology will be employed to describe rock, fractures, bedding, etc. Soil or rock coring may be specified by the supervising geologist on a project-specific basis.

- 6) Samples are held in the possession of RESNA personnel until transferred to the analytical laboratory. Transfer to the laboratory is accomplished with either delivery by RESNA personnel, pick-up by laboratory personnel, or transfer by a personal delivery service. Each transfer of responsibility is recorded on a chain-of-custody record that accompanies the samples.
- 7) Conditions occasionally arise when other drilling equipment are used given site-specific formation conditions. Rotary drilling may be selected if coring or bearing conditions arise. Rotary or casing hammer may be used as deep drilling, flowing sands, or formation-specific conditions require.
- 8) When drilling through an aquifer known to be contaminated, a staged drilling approach will be used. This would involve using either a temporary or

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permanent conductor casing placed adjacent to the contaminated aquifer and pressed or advanced slightly into the underlying aquitard. The cased hole will be cleaned as necessary, following which, a smaller diameter drill bit/auger will be advanced to the next underlying water bearing stratum. An impermeable seal will be placed in the borehole or annular space as appropriate upon completion of exploratory boring/well construction.

## II. SOIL SAMPLING BY HAND

- 1) Some situations require that samples be collected by hand without the assistance of a drill rig (e.g., soil stock piles, excavation sidewall sampling, etc.). When possible, soil samples will be collected using a steel core sampler equipped with clean brass liners which is advanced into the soil with a slide hammer. In other cases, the outer surface of the soil is removed and a brass liner is driven into the soil by hand or with a hammer. To avoid damaging the liner, a block of wood can be held next to the liner so that the hammer strikes the block rather than the liner. The liner is removed and handled as described above. In deep excavations where safety factors preclude the direct sampling of the bottom or side wall, soil is retrieved by a backhoe bucket and this soil is sampled.

***RESNA***

**Laboratory Procedures**

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# LABORATORY PROCEDURES

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## Selection of the Laboratory

The laboratories selected to perform the analytical work are certified by the California State Department of Health Services (DHS) as being qualified to perform the selected analyses. The selected laboratories are reviewed by RESNA Industries, Inc., to assure that they are certified by the State of California and maintain an adequate in-house quality control program. When a laboratory is selected by a client for RESNA's use, a check is made regarding current DHS certification.

## Chain-of-Custody Control

The following procedures are used during sampling and analytical activities to provide chain-of-custody control during transfer of samples from collection through delivery to the laboratories. Record keeping activities used to achieve chain-of-custody control are:

- Contact made by sampling organization with facility supervisor and laboratory prior to sampling to alert them of dates of sampling and sample delivery.
- Well location map with well identification number(s) prominently displayed.
- Field log book for documenting sampling activities in the field.
- Labels for identifying individual samples.
- Chain-of-custody record for documenting transfer and possession of samples.
- Laboratory analysis request sheet for documenting analyses to be performed.

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## **Field Filtration of Samples**

Samplers will refrain from filtering TOC, TOX, or other organic compound samples as the increased handling required may result in the loss of chemical constituents of interest. Allowing the samples to settle prior to analysis followed by decanting the sample is preferable to filtration of these substances. If filtration is necessary for the determination of extractable organic compounds, the filtration should be performed in the laboratory. It may be necessary to run parallel sets of filtered and unfiltered samples with standards to establish the recovery of hydrophobic compounds when sample must be filtered. All the materials' precautions used in the construction of the sampling train should be observed for filtration apparatus. Vacuum filtration of groundwater samples is not recommended.

Water samples for dissolved inorganic chemical constituents (e.g., metals, alkalinity, and anionic species) will be filtered in the field.

## **Sample Containers**

Sample containers vary with each type of analytical parameter. Selected container types and materials are non-reactive with the sample and the particular analytical parameter being tested. Appropriate containers for volatile organics are glass bottles of at least 40 milliliters in size, fitted with teflon-faced silicon septa. Sample containers are properly cleaned and sterilized by the certified laboratory according to the Environmental Protection Agency (EPA) protocol for the individual analysis. RESNA uses laboratory-prepared sample containers for the sampling and analysis desired. Containers prepared by one laboratory are not sent to a different laboratory.

## **Sample Preservation and Shipment**

Various preservatives are used by the certified laboratory to retard changes in samples. Sample shipment from RESNA to laboratories performing the selected analyses routinely occurs within 24 hours of sample collection. If an overnight delivery service is required, samples are shipped at the end of each day.

## **Analytical Procedures**

The analysis of groundwater samples is conducted in accordance with accepted quantitative analytical procedures. The following six publications are considered the primary references for groundwater sample analysis, and the contracts with the



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laboratories analyzing the samples stipulate that the methods set out in these publications be used. Please note that procedures used are periodically updated by federal and state agencies, and the certified laboratories amend analysis as required by the update.

- Standard Methods for the Examination of Water and Wastewater, 16th Ed., American Public Health Association, et al., 1985, and later revisions.
- Methods for Chemical Analysis of Water and Wastes, U.S. EPA, 600/4-79-020, March 1979, and later revisions.
- Test Methods for Evaluation of Solid Waste: Physical/Chemical Methods, U.S. EPA SW-846, 1982, and later revisions.
- Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA, 600/4-82-057, 1982, and later revisions.
- Practical Guide for Groundwater Sampling, EPA, 600/2-85/104, September 1985.
- RCRA Ground-Water Monitoring Technical Enforcement Guidance Document, EPA, September 1986.

### **Analytical Methods**

The analytical methods used by the selected laboratories are those required by the type of analysis (fuels, metals, etc.). These methods are those currently approved by the State Regional Water Quality Control Board (RWQCB). Additional information regarding chemical analyses are contained in the RWQCB Leaking Underground Fuel Tank(LUFT) Manual; Tri-Regional Board guidance dated August 2, 1988; policy letters on guidance offered at irregular intervals; or analytical procedures selected for site-specific project needs.

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 yellow -facility  
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200  
 Oakland, CA 94621  
 (415) 271-4320

Hazardous Materials Division Inspection Form

Site ID# \_\_\_\_\_ Site Name Ray Powler Today's Date 7/1/91  
 Site Address 2939 Summit EPA ID# \_\_\_\_\_  
 City Oakland Zip 94609 Phone \_\_\_\_\_

MAX Amt. Stored > 500lbs/55g/200cf? Y N  
 Hazardous Waste generated per month? \_\_\_\_\_

- Inspection Categories:**
- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
  - II. Business Plans. Acute Hazardous Materials
  - III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

- I.A GENERATOR (Title 22)**
- \_\_\_ 1. Waste D \* 66471
  - \_\_\_ 2. EPA ID 66472
  - \_\_\_ 3. > 90 dcys 66508
  - \_\_\_ 4. Label codes 66508
  - \_\_\_ 5. Biennial 66493
- 
- Manifest**
- \_\_\_ 6. Records 66492
  - \_\_\_ 7. Correct 66484
  - \_\_\_ 8. Copy sent 66492
  - \_\_\_ 9. Exception 66484
  - \_\_\_ 10. Copies Rec'd 66492
- 
- Misc.**
- \_\_\_ 11. Treatment 66371
  - \_\_\_ 12. On-site Disp. (H.S.&C.) 26189.5
  - \_\_\_ 13. Ex Haz. Waste 66570
- 
- Prevention**
- \_\_\_ 14. Communications 67121
  - \_\_\_ 15. Aisle Space 67124
  - \_\_\_ 16. Local Authority 67126
  - \_\_\_ 17. Maintenance 67120
  - \_\_\_ 18. Training 67105
- 
- Cont'n. Agency**
- \_\_\_ 19. Prepared 67140
  - \_\_\_ 20. Name List 67141
  - \_\_\_ 21. Copies 67141
  - \_\_\_ 22. Emg. Coord. Trng. 67144
- 
- Containers, Tanks**
- \_\_\_ 23. Condition 67241
  - \_\_\_ 24. Compatibility 67242
  - \_\_\_ 25. Maintenance 67243
  - \_\_\_ 26. Inspection 67244
  - \_\_\_ 27. Buffer Zone 67246
  - \_\_\_ 28. Tank Inspection 67259
  - \_\_\_ 29. Containment 67245
  - \_\_\_ 30. Safe Storage 67261
  - \_\_\_ 31. Freeboard 67257
- 
- I.B TRANSPORTER (Title 22)**
- \_\_\_ 32. Applic./Insurance 66428
  - \_\_\_ 33. Comp. Cert./CHP Insp. 66448
  - \_\_\_ 34. Containers 66465
- 
- Manifest**
- \_\_\_ 35. Vehicles 66465
  - \_\_\_ 36. EPA ID #s 66531
  - \_\_\_ 37. Correct 66541
  - \_\_\_ 38. HW Delivery 66543
  - \_\_\_ 39. Records 66544
- 
- Cont'n**
- \_\_\_ 40. Name/ Covers 66545
  - \_\_\_ 41. Recyc ables 66800

**Comments:**

UGT Removal - found  
- 500 gal UGT Heating fuel oil  
- 100 gal oil & H<sub>2</sub>O purged out  
4/26/91

- UGT manifest # 90542212

- 1 sample taken 2 ft below tank  
bottom at full line

- 1 sample taken from stockpile  
LEL = 0.7.

Rev 6/88

Contact: ERDIE BERRABE  
 Title: CONTRACTOR  
 Signature: [Signature]

Inspector: \_\_\_\_\_  
 Signature: Susan J. Hugo

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 yellow -facility  
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200  
 Oakland, CA 94621  
 (415) 271-4320

Hazardous Materials Inspection Form

II, III

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Strcs. 25503(b)
- 3. RR Cars > 31 days 25503.7
- 4. Inventory in operation 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- 10. Registrar Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N)
- 14. OffSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- |   |  |
|---|--|
| General   | <input type="checkbox"/> 1. Permit Application 25284 (H&S)                                 |
|   | <input type="checkbox"/> 2. Pipeline Leak Detection 25292 (H&S)                            |
|   | <input type="checkbox"/> 3. Records Maintenance 2712                                       |
|   | <input type="checkbox"/> 4. Release Report 2651  |
|   | <input type="checkbox"/> 5. Closure Plans 2670   |
| Monitoring for Existing Tanks                                 | <input type="checkbox"/> 6. Method   |
|   | 1) Monthly Test  |
|   | 2) Daily Vadose<br>Semi-annual groundwater<br>One time soils                               |
|   | 3) Daily Vadose<br>One time soils<br>Annual tank test                                      |
|   | 4) Monthly Groundwater<br>One time soils   |
|   | 5) Daily Inventory<br>Annual tank testing<br>Cont pipe leak det<br>Vadose/groundwater mon. |
|   | 6) Daily Inventory<br>Annual tank testing<br>Cont pipe leak det                            |
|   | 7) Weekly Tank Gauge<br>Annual tank testing  |
|   | 8) Annual Tank Testing<br>Daily Inventory  |
|   | 9) Other   |
| New Tanks   | <input type="checkbox"/> 7. Precls Tank Test 2643<br>Date: _____                           |
|   | <input type="checkbox"/> 8. Inventory Rec. 2644  |
|   | <input type="checkbox"/> 9. Soil Testing 2646  |
|   | <input type="checkbox"/> 10. Ground Water. 2647  |
|   | <input type="checkbox"/> 11. Monitor Plan 2632   |
| <input type="checkbox"/> 12. Access. Secure 2634              |  |
| <input type="checkbox"/> 13. Plans Submit 2711<br>Date: _____ |  |
| <input type="checkbox"/> 14. As Built 2635<br>Date: _____     |  |

Site ID # \_\_\_\_\_ Site Name Ray Powell Today's Date 7/26/91  
 Site Address 2939 Summit  
 City Oakland Zip 94609 Phone \_\_\_\_\_

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

\* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

aprot.  
1-100 gal underground tank removed. (venting fuel tank)  
HEH- transporter, manifest # 90542183  
One sample taken aprot 2 feet from beneath tank excavation on spill line  
Stack pile samples  
2 samples taken - composite for analysis  
1 sample taken for verification

Rev 6/88

Contact: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: [Signature]

Inspector: [Signature]  
 Signature: [Signature]

II, III



**SITE SAFETY PLAN**  
**FOR**  
**SITE CLOSURE SERVICES**

**ROY POWLAN**  
**2939 SUMMIT STREET**  
**OAKLAND, CALIFORNIA**

**Project No. 3-10062-11**  
**August 1991**

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## **SITE SAFETY PLAN**

**SITE CLOSURE SERVICES  
2939 SUMMIT STREET  
OAKLAND, CALIFORNIA**

This Site Safety Plan delineates the basic safety requirements for the removal, disposal, and site restoration of petroleum hydrocarbon contaminated soil at 2939 Summit Street, Oakland, California.

The provisions set forth in this Plan will apply to the employees of Exceltech, Inc., and their subcontractors working on this project. The subcontractors working on this project may elect to modify these provisions, but only to upgrade or increase the safety requirements, and only with Exceltech's written concurrence.

This Site Safety Plan addresses the expected potential hazards that may be encountered for this project. Field activities for this phase are planned to begin on August 9, 1991. If changes in site or working conditions occur as the activities progress, Exceltech will provide amendments to this Plan.

## SECTION 1

### SITE HISTORY AND BACKGROUND

2939 Summit Street is a rental property located in a residential section of Oakland, California. Previously, two fuel tanks were removed (by others) from the front yard and driveway of the property. Initial soil testing (by others) indicated elevated levels of gas and diesel contamination. Exceltech has been contracted to overexcavate both pits in an attempt to reduce total petroleum hydrocarbons as gasoline (TPHG) and total petroleum hydrocarbons as diesel (TPHD) to below 100 parts per million (ppm).

#### 1.1 Work Plan

Exceltech's work plan consists of the following tasks:

##### A. Soil Excavation and Testing

###### 1. Site Preparation

Block the sidewalk up and down hill from the driveway, re-route pedestrian traffic to the other side of Summit Street, and delineate the work zone using yellow caution tape.

###### 2. Excavation and Sampling

Excavate existing pits to a maximum depth of 16 feet. Excavated soil will be loaded into a dump truck and hauled to the parking area behind the building where it will be placed on and covered with plastic pending analytical test results.

Sampling will consist of three soil samples from each of the two cavities and four from the stockpiled soil. The four stockpile samples will be composited by Applied Analytical Laboratory, Fremont, California, into two samples for testing. At the completion of the day's activities, the excavation will be covered with plywood and fenced.

###### 3. Site Restoration

Exceltech will backfill the two excavations with clean import material upon receipt of laboratory reports verifying that the contamination levels are below 100 ppm. Stockpiled soil will be disposed of at a Class III landfill if test results register below 100 ppm. If results register above 100 ppm, on-site biological treatment or Class II disposal will become necessary.



4. Report Preparation

Exceltech will prepare a final report summarizing its activities, findings, and conclusions including, if warranted, any recommendations for additional work.

Accompanying the final report will be:

- Site map showing features relevant to the project.
- A detailed project background (analytical reports by others will be included).
- Copies of permit applications, analytical reports, chain-of-custody documentation, and manifests.

## SECTION 2

### PROJECT SAFETY AUTHORITY

#### 2.1 Personnel

Personnel responsible for project safety are:

Corporate Safety Officer:	Lisa Nelowet
Office Safety Officer(s):	Dan Nechkash/Jeff Welch
Project Supervisor:	Joe Brosnan
Project Foreman:	Boyd Anderson

Exceltech's commitment to project safety includes the provision of complete in-house training for all field and construction employees. These regularly scheduled training programs comply with Occupational Safety and Health Administration (OSHA) Standard 29CFR 1910.120. Exceltech personnel have extensive experience in the safe conduct of hazardous waste and construction services.

- The Corporate Safety Officer: **Ms. Lisa Nelowet** is responsible for establishing and directing the Exceltech Health and Safety program. In this capability he sets policies with respect to SSPs and ensures that the requirements are implemented company-wide. Ms. Nelowet can be reached at (415) 659-0404.
- The Office Safety Coordinator(s): **Mr. Dan Nechkash/Jeff Welch** are responsible for disseminating requirements with respect to SSPs, for monitoring training related to SSPs, and for submitting specified SSPs to the Corporate Safety Officer for approval. The Office Safety Officers report to the Corporate Safety Officer. Mr. Nechkash or Jeff Welch can be reached at (415) 659-0404.
- Project Supervisor: **Joseph Brosnan**, has over 25 years of experience supervising construction and engineering projects. He has managed several complex asbestos abatement programs emphasizing control, scheduling, and contract administration. Mr. Brosnan specializes in both engineering and business. He holds a B.S. in Engineering Management and Civil Engineering, from the University of Missouri and a M.B.A. from Breach School of Business in Springfield, Missouri.

#### 2.2 On-Site Project Safety

The Project Supervisor is responsible for the provisions of this Plan. He has the authority to provide for the auditing of compliance with the provisions of this Plan,

suspend or modify work practices, and to administer disciplinary actions for individuals whose conduct does not meet the requirements set forth herein. He will raise any policy issues needing attention to one of the office safety coordinators for discussion with and resolution by the Corporate Safety Officer. The Project Supervisor is responsible for the dissemination of the information contained in this Plan to all Exceltech personnel assigned to the project, and to the responsible representative of each subcontractor firm working under Exceltech on the project.

The senior Exceltech representative (supervisor, foreman, or technician) on-site will be the Site Safety Officer. The Site Safety Officer will ensure that the work is conducted safely.

### **2.3 Specific Responsibilities**

Corporate Safety Officer: establishes our Corporate Health and Safety Policy and oversees all company activities related to the following:

- Safety supplies and equipment inventory.
- Medical surveillance program/physical examinations.
- Training programs/hazard communications
- Health surveillance of all Exceltech employees.
- Assuring that safety procedures in effect are in compliance with all appropriate federal, state, and company regulations (following the most stringent of the standards).
- Assuring appropriate personal protective equipment is adequate for actual hazards of on-site conditions.

Office Safety Coordinators:

- Review Site Safety Plan and submit to Corporate Safety Officer as appropriate.
- Oversee office medical surveillance files.
- Oversee office training files and arrange for needed training.
- Review all accident/incident reports filed.

Project Supervisor:

- Accident/incident reporting procedures.
- Decontamination/contamination reduction procedures.
- Coordination of health emergency plans with local medical clinic.
- Coordination of evacuation plans with local authorities.
- Coordination of fit testing for all respiratory protective devices to be used on-site.
- Investigation of all incidents and accidents and report in writing to Corporate Safety Officer.

Site Safety Officer:

- Ensure that all personnel implement the requirements of the Site Safety Plan.
- Conduct daily tailgate safety meetings.
- Maintain personnel exposure monitoring records.
- Assure appropriate hazard areas are identified and marked.
- Assure all personnel entering hazard area are in appropriate levels.
- Conduct any required personnel hazard exposure surveillance through personal air sampling devices.
- Establish and supervise first aid station.
- Assure that adequate supplies of personal protective equipment are maintained.
- Assure that all supplied-air equipment is functioning properly.
- Establish site-specific safety procedures for problems encountered on-site.
- Obtain acknowledgement from all on-site personnel on sign-off page of the Site Safety Plan.

In addition to his safety responsibilities, the Project Supervisor will be responsible for all work activities on the site. The Project Foreman who reports directly to the Project Supervisor, is responsible for all activities on the site in the absence of the Project Supervisor.

## SECTION 3

### JOB HAZARD ANALYSIS

#### 3.1 Chemical Hazards

The major contaminants that may be encountered are gasoline and its hazardous components and diesel.

The primary routes of exposure for the petroleum hazard are inhalation and ingestion. These hazards will be mitigated by air monitoring and avoiding dust. The air will be monitored by an organic vapor meter during excavation of any heavily contaminated areas. If the action level, as noted in the table on page 3-2, is exceeded, the site will be vacated until the levels are reduced.

Water will be applied to control the dust if visible levels of dust reach the property boundary.

#### 3.2 Physical Hazards

Physical hazards associated with the project include: 1) the hazards associated with heavy equipment, which are primarily physical contact accidents and noise, 2) blowing dust associated with excavating, 3) a fall and confined space hazard associated with the excavation pit and; 5) heat stress.

All heavy equipment used on this project will be in good working order and operated in accordance with recognized industry standards and Cal-OSHA Title 8, Subchapter 4, Construction Safety Orders. All backhoes will use side bracing when in operation to secure against lateral movement. Bracing will have secure footing. Personnel will not be allowed under an excavated load at any time.

All equipment operators and ground crews working in close proximity of heavy equipment will be supplied with ear protection.

The dust hazard will be mitigated as noted in the chemical hazard section above.

No personnel will be allowed to enter the pit if deeper than 5 feet.

All personnel will take due caution when working within 5 feet of the excavation edge.

Some signs and symptoms of heat stress are presented below:

- Heat rash may result from continuous exposure to heat or humid air.
- Heat cramps are caused by heavy sweating with inadequate electrolyte replacement. Signs and symptoms include:
  - muscle spasms
  - heavy sweating
  - dizziness
  - nausea
  - fainting
- Heat exhaustion occurs from increased stress on various body organs including inadequate blood circulation due to cardiovascular insufficiency or dehydration. Signs and symptoms include:
  - pale, cool, moist skin
  - heavy sweating
  - dizziness
  - nausea
  - fainting
- Heat stroke is the most serious form of heat stress. Temperature regulation fails and the body temperature rises to critical levels. Immediate action must be taken to cool the body before serious injury and death occurs. Competent medical help must be obtained. Signs and symptoms are:
  - red, hot, usually dry skin
  - lack of or reduced perspiration
  - nausea
  - dizziness and confusion
  - strong, rapid pulse
  - coma

To avoid heat stress, the Site Safety Officer will keep a supply of drinking water on-site at all times and call frequent work breaks during hot periods.

### CHEMICALS AND CHARACTERISTICS

Chemical	Symptoms	UEL <sup>a</sup> /LEL <sup>b</sup>	PEL <sup>c</sup>	Action Level <sup>d</sup>
Benzene	Irritant to eyes, nose, respiratory system, giddiness, headaches, nausea, staggered gait, fatigue, lassitude, dermatitis, bone marrow depression, abdominal pain; CARCINOGEN	7.1%/1.3%	1 ppm	IC <sup>e</sup>
TPH as Gasoline	Irritant to eyes and lungs, causes cough, conjunctive irritation, hallucinations, dermatitis, blistering, central nervous system depression	7.6%/1.4%	300 ppm	150 ppm
TPH as Diesel	(Mutagenic data, no toxic data)	N/A/N/A	N/A	200 ppm
Toluene	Fainting, weakness, confusion, headache, insomnia, dizziness, and dilated pupils	7.1%/1.3%	100 ppm	IC
Ethyl-Benzene	Irritant to eyes, nose, throat, skin and mucous membranes, dizziness, constriction in the chest	6.7%/1.0%	100 ppm	IC
Xylene	Dizziness, excitement, drowsiness, incoherence, irritant to eyes, nose, and throat	6.0%/1.0%	100 ppm	IC

<sup>a</sup> UEL = Upper Explosive Limit

<sup>b</sup> LEL = Lower Explosive Limit

<sup>c</sup> PEL = Permissible Exposure Limit (OSHA)

<sup>d</sup> Action Level = Level above which respiratory protection is required

<sup>e</sup> IC = Use indicator contaminant - TPHG

## SECTION 4

### JOB HAZARD SUMMARY

Risk to the environment and the public is forecast to be at a minimum. Dust from heavy equipment usage will be kept to a minimum with misting from existing water services on-site. Public access will be prohibited by a fence around the excavation. Workers will be briefed on all potential signs of danger as outlined in Section 3.



## SECTION 5

### EXPOSURE MONITORING

During excavation of the most heavily contaminated areas the air will be monitored with an organic vapor meter to determine if Level C personal protective equipment is required.

Dust hazards will be monitored visually.

When temperatures exceed 85 °F, workers will monitor each other for heat stress after every work period. Flushed skin or the lack of sweating will be noted. Fatigue, flushed skin, decreased concentration and movement, lightheadedness, nausea, and loss of manual dexterity are all possible physical reactions to excess heat.

## SECTION 6

### PROTECTIVE EQUIPMENT REQUIREMENTS

#### 6.1 Introduction

It is important that personal protective equipment and safety requirements be appropriate to protect against the potential hazards at the site. Protective equipment has been selected based on the contaminant type(s), concentration(s), and routes of entry. In situations where the type of materials and possibilities of contact are unknown or the hazards are not clearly identifiable, a more subjective determination will be made on-site by the Site Safety Officer of the personal protective equipment.

Field personnel and visitors are required to wear the following clothing and equipment, as a minimum, while on site:

- Hard hat (field personnel and visitors)
- Steel-toed boots (field personnel)
- Safety glasses (field personnel)

#### 6.2 Level of Protection

The scope and nature of this work qualifies the project to be in Level D based upon the criteria of 29 CFR, "Level D protection should be used when:..." This is based on no airborne hazards and will be confirmed by air monitoring.

Level C personal protective equipment will be maintained on-site. Level C protection will be required for continued activity when air concentrations exceed the action levels noted in Section 3.

Level D and C personal protective equipment is defined as follows for this project:

##### **Level D**

- Hard Hat
- Steel Toed Boots
- Safety Glasses

##### **Level C**

- Hard Hat
- Steel Toed Boots
- Safety Glasses (when an eye hazard is imminent)
- Standard Tyvek Suit
- Half face respirator with Organic Vapor Cartridges
- Chemical Resistant Gloves

## SECTION 7

### WORK ZONE

#### 7.1 General

The site will be controlled to reduce the possibility of exposure to any contaminants present and their transport by personnel or equipment from the site.

The possibility of exposure or translocation of contaminants will be reduced or eliminated in a number of ways, including:

- Setting up security or physical barriers to exclude unnecessary personnel from the general zone.
- Establishing work zones within the site.
- Conducting operations in a manner to reduce the exposure of personnel and equipment as noted in Section 3.
- Minimizing the airborne dispersion of contaminants as noted in Section 3.
- Implementing appropriate decontamination procedures.

#### 7.2 Field Operations Work Area

Work areas (zones) will be established based on anticipated contamination. Within these zones prescribed operations will occur utilizing appropriate personal protective equipment. The planned zones are:

1. Exclusion Zone
2. Contamination Reduction Zone; and,
3. Support Zone (non-contaminated).

These zones are identified on Diagram 1, Page 7-3.

##### 7.2.1 Exclusion Zone

The exclusion zone is the innermost zone and is considered dirty or "hot." The excavation will be considered the exclusion zone. No personnel will enter the exclusion zone.

### 7.2.2 Contamination Reduction Zone

Between the Exclusion Zone and the Support Zone is the Contamination Reduction Zone. The areas within 20 feet of the excavation and the stockpiled soil area will be considered the contamination reduction zone.

### 7.2.3 Support Zone

The Support Zone is considered a non-contaminated or clean zone. The Support Zone is all other zones within the property boundaries.

## SECTION 8

### DECONTAMINATION PROCEDURES

To prevent or reduce the physical transfer of contaminants by equipment, the excavation equipment buckets will be visually inspected at the completion of excavation activities. If any petroleum contamination exists in the buckets, the buckets will be washed with a trisodium phosphate solution and the solution placed in 55-gallon drums for appropriate disposal.

When Level C personal protective equipment (PPE) is worn, personnel will doff their contaminated PPE before leaving the contamination reduction zone. Contaminated PPE will be collected in plastic bags for appropriate disposal.

## SECTION 9

### GENERAL PROJECT SAFETY REQUIREMENTS

The project operations shall be conducted with the following minimum safety requirements employed:

- 9.1 Eating, drinking, chewing gum or tobacco, smoking, or any practice that increases the probability of hand to mouth transfer and ingestion of materials is prohibited during excavation activities.
- 9.2 Hands must be thoroughly washed before eating, drinking, smoking, or any other activities transpire.
- 9.3 Legible and understandable precautionary labels shall be prominently affixed to containers of decontamination solution.
- 9.4 Removal of materials from protective clothing or equipment by blowing, shaking, or any other means which may disperse materials into the air is prohibited.
- 9.5 Daily inspections of excavations shall be made. If there is evidence of possible cave-in or slides that impact safe operations, all work in the excavation shall cease until the necessary safeguards have been taken.
- 9.6 All trenching and excavation work will comply with regulatory agency rules.
- 9.7 The walls and spaces of all excavations and trenches more than 5 feet deep and into which employees will enter shall be guarded by shoring, sloping of the ground (1:1), or some other equivalent means.
- 9.8 All entries by workers into trenches or excavations greater than 5 feet deep are subject to the provisions of the Exceltech Confined Space Entry Procedures.
- 9.9 All trenches shall be backfilled as soon as practical after work is completed and all associated equipment removed following receipt of analytical results.
- 9.10 Field operations personnel shall be cautioned to inform each other of non-visual symptoms of the presence of toxics, such as:
  - Headaches
  - Dizziness
  - Nausea

- Blurred Vision
- Cramps
- Irritation of eyes, skin, or respiratory tract
- Changes in complexion or skin discoloration
- Changes in apparent motor coordination
- Changes in personality or demeanor
- Excessive salivation or changes in pupillary response
- Changes in speech ability or pattern

- 9.11** Exceltech personnel on-site are to be thoroughly briefed on the anticipated hazards, equipment requirements, safety practices, emergency procedures and communications methods, standard operating procedures for all equipment, initially and in daily briefings.
- 9.12** Any skin contact with excavated soil or groundwater shall be avoided.
- 9.13** The ambient temperature will be monitored as specified previously and the necessary controls to reduce employee heat or cold stress will be implemented.
- 9.14** A multi-purpose portable fire extinguisher shall be located on each piece of heavy equipment and in on-site Exceltech pick-up trucks.
- 9.15** The Site Safety Officer will be responsible to take necessary steps to ensure that employees are protected from physical hazards, which could include,
- Falling objects such as tools or equipment
  - Falls from elevations
  - Tripping over hoses, pipes, tools, or equipment
  - Slipping on wet or oily surfaces
  - Insufficient or faulty protective equipment
  - Insufficient or faulty operations, equipment, or tools

**SECTION 10**

**SANITATION**

A restroom is located in the maintenance building. Potable water is also available in that building.



## SECTION 11

### STANDARD OPERATING PROCEDURES

Exceltech will use the heavy equipment operating procedures, heavy equipment operator check list, and truck operating procedures that follow.

#### 11.1 Heavy Equipment Operating Procedures

- a. All employees shall be clear of equipment before starting. Equipment operators shall perform a complete walk-around inspection before starting equipment.
- b. All engines shall be shut down prior to refueling.
- c. No adjustments, cleaning, or repairs shall be made to equipment while the equipment is running. All exposed gears, sprockets, chain drives, and belt and pulley drives shall have guards replaced directly following repairs, lubrication, cleaning, or similar operations.
- d. Only trained employees are permitted to operate equipment.
- e. No equipment shall be left with the engine running on an inclined surface.
- f. All four wheels will be kept on the ground during loading.
- g. Material piles shall only be approached at a speed necessary to fill the bucket.
- h. The bucket or blade shall be grounded when equipment is to be left unattended, even if for a short time.
- i. No eating, reading, or daydreaming while engaged in the operation of heavy equipment. Equipment shall not be operated if the operator is physically unfit to do so.
- j. Hand signals shall only be recognized by the operator from the person supervising the lift or the unloading. Operating signals must follow the approved standard.
- k. Clearances and other environmental conditions shall be checked when working near electrical wires, guy lines, or structures. Avoid contact of boom or cables with lines, electrical wires, and structures. At no time will

equipment booms operate within 10 feet of high voltage overhead power lines.

- l. Operators will inspect equipment daily to ensure that it is in good working order, and all safety equipment is operational. This includes brakes, horn, alarms, etc.
- m. Gasoline shall not be stored on the equipment.
- n. All equipment shall be kept clean and orderly. Cabs shall be routinely inspected for cleanliness by the operator and the supervisor.
- o. Load limits of the equipment shall be strictly observed.
- p. The operator will be the only person allowed on the equipment. NO PASSENGERS.

#### 11.2 Heavy Equipment Operator Check List

1. Check for oil or water drippings on machine or onto ground.
2. Check engine oil and water level.
3. Check fan belts, tire pressure, and loose lug nuts.
4. Look for sabotage or damage done to machine the previous day.
5. Start engine and check oil pressure.
6. Inspect all gauges.
7. Inspect all controls.
8. Inspect cutting edge for wear and loose bolts.
9. Inspect all safety equipment - seat belts, back-up alarm, brakes, canopy and windshield.
10. Contact foreman or your shop if any adjustments or repairs are needed to be done to your piece of equipment.

### 11.3 Truck Operating Procedures

- a. Oil, water, and the brakes shall be checked before starting the engine.
- b. Before moving any truck, a check for clearance around the vehicle from any obstructions or personnel shall be performed. Walk around the truck.
- c. Drivers shall, unless specifically instructed, exit the cab when the truck is being loaded.
- d. Overloading of trailers shall be prohibited.
- e. Passengers are not to ride on the running boards.
- f. Always set the hand brakes and lock ignition before leaving the truck at the end of the shift.
- g. All regulations and traffic laws shall be strictly obeyed.

## SECTION 12

### **CONTINGENCY PLAN AND EMERGENCY RESPONSE PROCEDURES**

#### **12.1 Site Emergency Warning System**

The warning systems that will be utilized depending on the work site conditions or emergency involved:

- Hand signals
- Verbal communications
- Radio communications
- Vehicle horns

Verbal instructions with or without assistance are used to deal with specific incidents.

Radio communications are used between the site and the Fremont office.

Vehicle horn signals are used to signify an emergency warning. One long blast is used on-site to signify emergency evacuation of the immediate work area to a predetermined location upwind, where a head count will be taken and further instructions given.

#### **12.2 Emergency Equipment**

The following equipment comprises the basic emergency equipment list, of which all shall be available at the work site:

- Fire extinguishers - dry chemical
- First kits (including chemical burn kit)

#### **12.3 General Emergency Procedures**

In case of an emergency or hazardous situation, the team member that observes this condition shall immediately sound the alarm.

Upon hearing an alarm, all non-emergency communications will cease and the member giving the alarm will proceed to give the Site Safety Officer all pertinent information. This information will also be provided the Project Supervisor as soon as feasibility.

Actions to be taken will be dictated by the emergency condition as directed by the Site Safety Officer.

Power equipment will be shut down and operators will stand by for instruction.

Injured personnel will be transported to the appropriate medical facility

The Exceltech Fremont office will be notified immediately.

In case of a fire, explosion, or hazard alarm, personnel will immediately proceed to assigned pre-arranged safe locations: along the site perimeter.

Upon arrival at the safe locations, a complete head count will be given to the Site Safety Officer and personnel will stay at the safe locations until the area is secured.

#### **12.4 Personal Injury**

If an injury occurs due to an accident or exposure to a hazardous substance, the Exceltech Fremont office will be notified. The Site Safety Officer will be given all appropriate information concerning the nature and cause of the injury so that treatment preparations can be initiated. The injured person will be transported to the Support Zone where appropriate first aid and treatment can begin. The Project Supervisor will be informed and will investigate the cause of the injury and make any necessary changes in work procedures.

#### **12.5 Ambient Monitoring Contingencies**

When organic vapor monitoring on the downwind edge of the Contamination Reduction Zone indicates higher than action levels of any contaminants, the Site Safety Officer will warn unprotected personnel to evacuate.

#### **12.6 Emergency Contact Listing**

In the event of an accident resulting in physical injury, first aid will be administered, and the injured worker will be transported to the Providence Hospital for emergency treatment. A physician's attention is required regardless of the severity of the injury.

In the event of fire, explosion, or property damage at the site, Mr. Roy Paulan (283-4623) will be immediately notified. If necessary, local fire or response agencies will be called.

**Emergency Telephone Numbers:**

Fire and Police ..... 911

Providence Hospital ..... (415) 835-4500  
3100 Summit Street  
Oakland, California

Directions to Hospital:     Go one block west on Summit Street.

**Additional Contingency Telephone Numbers:**

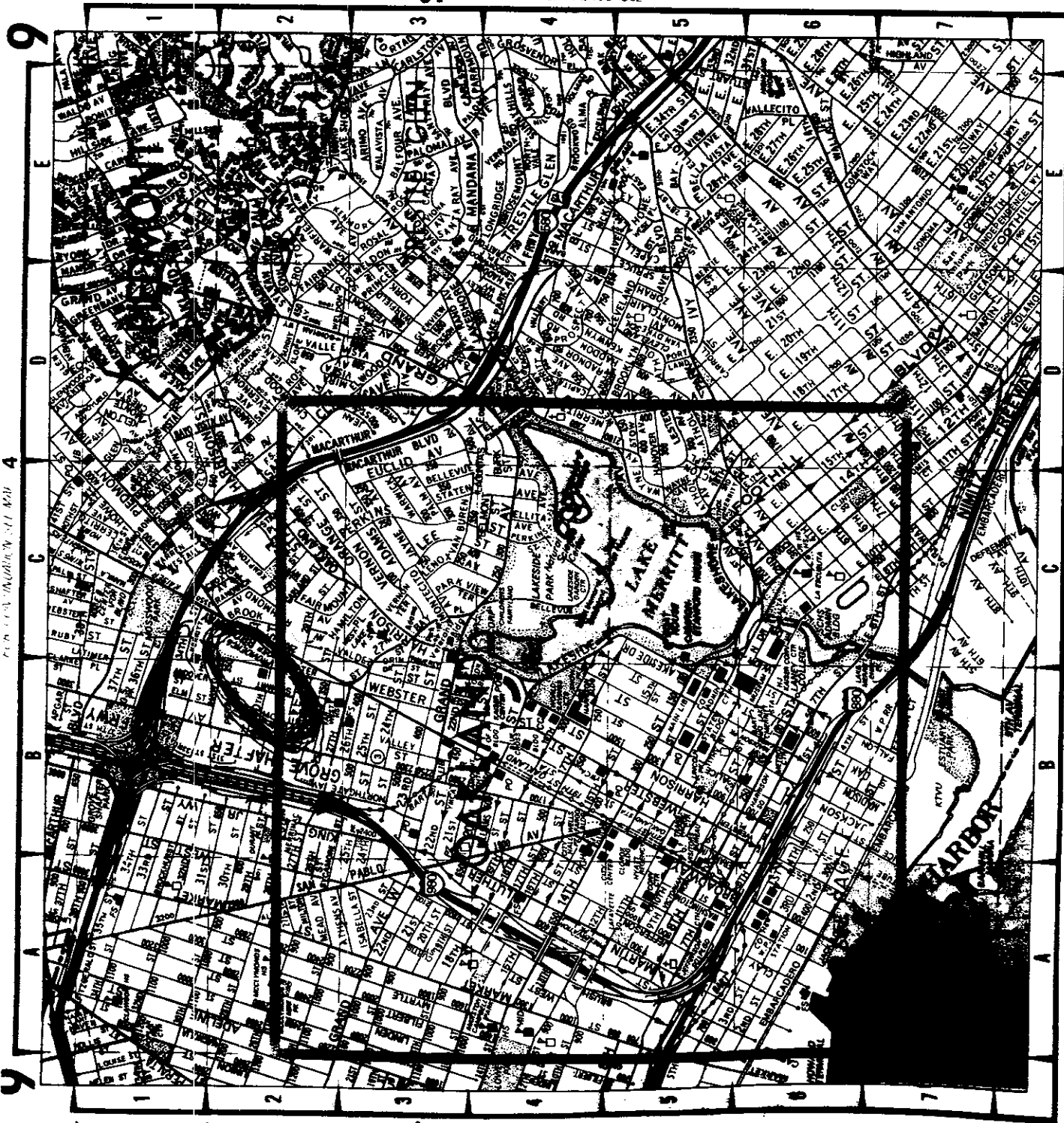
Mr. Dan Nechkash, Office Safety Coordinator ..... (415) 659-0404  
Exceltech, Inc., Fremont, California ..... pager: (415) 438-8067

Mr. Lisa Nelowet, Corporate Safety Officer ..... (415) 659-0404  
Exceltech, Inc., Fremont, California

Occupational Health and Safety Group ..... (408) 253-6300

ALAMEDA CO.

FOR CONTINUATION SEE MAP 10



FOR CONTINUATION SEE MAP 4

FOR CONTINUATION SEE MAP 7

1,485, 1,488, 1,497, 1,500.

FOR CONTINUATION SEE MAP 11

## SECTION 13

### **SAFETY/ORIENTATION TRAINING**

Field personnel from Exceltech will attend a project-specific training program for safety issues and project work task review before beginning work. The meeting will be conducted by the Project Supervisor.

#### **13.1 Formal Training**

All Exceltech field personnel are trained in accordance with all applicable OSHA regulations pertaining to personal safety and hazardous materials handling and decontamination. Exceltech's health and safety program is in full compliance with 29 CFR, Part 1910, including the OSHA interim ruling which amends CERCLA and sets specific standards for medical surveillance and training. Copies of training documentation are available on request by notifying Mr. Dan Nechkash in our Fremont office at (415) 659-0404.

Exceltech field personnel have extensive knowledge of various construction work and the tools in which to do their work. Personnel are trained in the hazards of heavy equipment, open excavation, and various other earth moving hazards.

This formal training is supplemented by daily tail-gate safety briefings and additional site-specific training as required.



## SECTION 14

### MEDICAL SURVEILLANCE

Exceltech personnel and subcontractors engaged in project operations shall be participants in the Medical Surveillance program, and must be cleared by the examining physician(s) to wear respiratory protection devices and protective clothing for working with hazardous materials. The applicable requirements under CAC Title 8, Section 5216 are available in the Fremont office and will be observed.

#### **14.1 Examination Requirements**

All Exceltech personnel on-site shall have successfully completed a pre-placement or periodic medical examination in accordance with established Exceltech policies and procedures, and consistent with the provisions of the OSHA carcinogen standards. This examination includes a complete medical and occupational history, physical examination, and selected biological sampling. Laboratory studies include a complete blood count (CBC), urinalysis, chemistry panel (SMAC), pulmonary function (FEV and FVC), chest X-ray, audiometer, and vision screening. Additional testing is conducted as deemed appropriate by the occupational physician. Ongoing medical consultation and post-project testing is also provided. Exceltech Medical Surveillance Program records are available in the Fremont office for review.

#### **14.2 Emergency Medical Treatment**

Emergency facilities and contact agencies (which include local hospital facilities, state highway patrol, local fire/paramedics, and local law enforcement agencies) have been established in Section 12, and arrangements have been made with those organization as appropriate. These facilities and agencies will be utilized in the event of an employee injury or illness requiring emergency medical care beyond the capabilities of on-site first aid trained personnel.

## SECTION 15

### **RECORDKEEPING**

#### **15.1 General**

Recordkeeping shall be consistent with OSHA regulations in all respects. The following permanent records will be maintained in the Exceltech offices and at the site:

- Safety Inspection Reports
- Personnel Exposure Monitoring Records (spiral or bound permanent log books will be used)
- OSHA 200 - Current to within 5 days
- Accident reports consistent with the established Exceltech procedures
- Tailgate safety meetings (held daily before start of work)

#### **15.2 Medical Records**

Permanent medical records are maintained in confidential files as part of Exceltech's Medical Surveillance Program.

**SECTION 16**

**SIGNOFF PAGE**

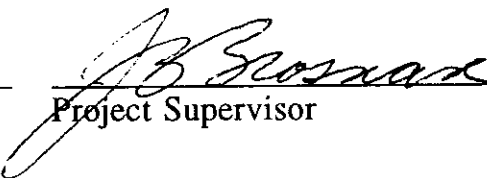
I have read the Site Safety Plan and fully understand the hazards associated with the site closure services at 23939 Summit Street, Oakland, California.

I will comply with the minimum safety requirements set forth in the Site Safety Plan. I will implement the Site Safety Plan requirements and agree to notify the Site Safety Officer or the Project Supervisor should any unsafe acts be witnessed by me while I am on this site.

Print Name	Signature	Date

Project Safety Plan approved by:

Office Safety Coordinator

  
Project Supervisor

Roy Y. Powlan, M.D.  
Box 1544  
Lafayette, Ca. 94549

283-1326

November 7, 1991

Ms. Susan L. Hugo  
Alameda County  
Dept. of Environmental Health  
80 Swan Way #200  
Oakland, Ca. 94521


Dear Ms. Hugo:

I enclose a Closure Report, provided to me by Exceltech Company, for your review.

In view of the small size of the tanks and their placement, relatively close to the surface, the over excavation, as described in the report, was able to achieve a complete removal of all signs of any contamination in the soil, at the bottom and sides of the excavations. Additionally, this site is at the highest elevation of the "Medical Hill" area of Oakland.

I would appreciate hearing from you at your earliest convenience regarding closure of the site.

Yours truly,



Roy Y. Powlan, M.D.  
RYP/k

## INSTRUCTIONS

### EMERGENCY

Indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazardous Material Incident Report should be filed with the State Office of Emergency Services (OES) at 2800 Meadowview Road, Sacramento, CA 95832. Copies of the OES report form may be obtained at your local underground storage tank permitting agency. Indicate whether the OES report has been filed as of the date of this report.

### LOCAL AGENCY ONLY

To avoid duplicate notification pursuant to Health and Safety code Section 25180.7, a designated government employee should sign and date the form in this block. A signature here does not mean that the leak has been determined to pose a significant threat to human health or safety, only that notification procedures have been followed if required.

### REPORTED BY

Enter your name, telephone number, and address. Indicate which party you represent and provide company or agency name.

### RESPONSIBLE PARTY

Enter name, telephone number, contact person, and address of the party responsible for the leak. The responsible party would normally be the tank owner.

### SITE LOCATION

Enter information regarding the tank facility. At a minimum, you must provide the facility name and full address.

### IMPLEMENTING AGENCIES

Enter names of the local agency and Regional Water Quality Control Board involved.

### SUBSTANCES INVOLVED

Enter the name and quantity lost of the hazardous substance involved. Room is provided for information on two substances if appropriate. If more than two substances leaked, list the two of most concern for cleanup.

### DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

### SOURCE/CAUSE

Indicate source(s) of leak. Check box(es) indicating cause of leak.

### CASE TYPE

Indicate the case type category for this leak. Check one box only. Case type is based on the most sensitive resource affected. For example, if both soil and ground water have been affected, case type will be "Ground Water". Indicate "Drinking Water" only if one or more municipal or domestic water wells have actually been affected. A "Ground Water" designation does not imply that the affected water cannot be, or is not, used for drinking water, but only that water wells have not yet been affected. It is understood that case type may change upon further investigation.

### CURRENT STATUS

Indicate the category which best describes the current status of the case. Check one box only. The response should be relative to the case type. For example, if case type is "Ground Water", then "Current Status" should refer to the status of the ground water investigation or cleanup, as opposed to that of soil. Descriptions of options follow:

No Action Taken - No action has been taken by responsible party beyond initial report of leak.

Leak Being Confirmed - Leak suspected at site, but has not been confirmed.

Preliminary Site Assessment Workplan Submitted - workplan/proposal requested of/submitted by responsible party to determine whether ground water has been, or will be, impacted as a result of the release.

Preliminary Site Assessment Underway - implementation of workplan.

Pollution Characterization - responsible party is in the process of fully defining the extent of contamination in soil and ground water and assessing impacts on surface and/or ground water.

Remediation Plan - remediation plan submitted evaluating long term remediation options. Proposal and implementation schedule for appropriate remediation options also submitted.

Cleanup Underway - implementation of remediation plan.

Post Cleanup Monitoring in Progress - periodic ground water or other monitoring at site, as necessary, to verify and/or evaluate effectiveness of remedial activities.

Case Closed - regional board and local agency in concurrence that no further work is necessary at the site.

IMPORTANT: THE INFORMATION PROVIDED ON THIS FORM IS INTENDED FOR GENERAL STATISTICAL PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS REPRESENTING THE OFFICIAL POSITION OF ANY GOVERNMENTAL AGENCY

### REMEDIAL ACTION

Indicate which action have been used to cleanup or remediate the leak. Descriptions of options follow:

Cap Site - install horizontal impermeable layer to reduce rainfall infiltration.

Containment Barrier - install vertical dike to block horizontal movement of contaminant.

Excavate and Dispose - remove contaminated soil and dispose in approved site.

Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming).

Remove Free Product - remove floating product from water table.

Pump and Treat Groundwater - generally employed to remove dissolved contaminants.

Enhanced Biodegradation - use of any available technology to promote bacterial decomposition of contaminants.

Replace Supply - provide alternative water supply to affected parties.

Treatment at Hookup - install water treatment devices at each dwelling or other place of use.

Vacuum Extract - use pumps or blowers to draw air through soil.

Vent Soil - bore holes in soil to allow volatilization of contaminants.

No Action Required - incident is minor, requiring no remedial action.

COMMENTS - Use this space to elaborate on any aspects of the incident.

SIGNATURE - Sign the form in the space provided.

### DISTRIBUTION

If the form is completed by the tank owner or his agent, retain the last copy and forward the remaining copies intact to your local tank permitting agency for distribution.

1. Original - Local Tank Permitting Agency
2. State Water Resources Control Board, Division of Loans and Grants, Underground Storage Tank Program, P.O. Box 944212, Sacramento, CA 94244-2120
3. Regional Water Quality Control Board
4. County Board of Supervisors or designee to receive Proposition 65 notifications.
5. Owner/responsible party.

Request  
in writing Fax  
(916) 739-2300

Birchmeier  
home heating  
if permission  
to transfer  
for LOP state funding



42501 Alhambra Street  
Fremont, California 94538  
Phone: (510) 440-3300  
FAX: (510) 651-2233

August 3, 1992  
Project No. 3-10062-32

Department of Environmental Health  
Hazardous Materials Division  
80 Swan Way, Rm. 200  
Oakland, California 94621

Attention: Susan L. Hugo  
Senior Hazardous Materials Specialist

Subject: 2939 Summit Street, Oakland, California

Dear Ms. Hugo:

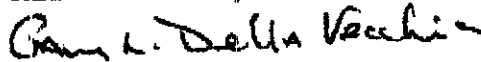
As discussed by you and Ms. Nissa Nack on July 31 and August 3, 1992, analytical results from the soil investigation conducted on June 4, 1992 indicate petroleum hydrocarbon constituents may exist below the former underground storage tank on the south side of the subject site. Based on observations by workers during the initial excavation of this tank pit, RESNA believes the hydrocarbons to be in a limited area.

RESNA therefore proposes re-excavating the tank pit in the area of the boring. Continued excavation of the area will proceed based on visual observation of possible contamination, and the restrictions posed by the proximity of the building and the retaining wall to the excavation. One sample will be collected from the bottom of the excavation according to RESNA's sampling protocol (please refer to Appendix B of the March, 1992 Work Plan) and transported to RESNA Environmental Laboratory for analysis.

Excavation will continue until either the soil below the newly excavated area is shown to contain less than 100 parts per million petroleum hydrocarbon constituent, or it is apparent that further excavation will result in damage to either the building or the retaining wall. Clean fill material will then be used to backfill the excavation.

Should you have any questions concerning this letter, please contact Ms. Nack at (510) 440-3345.

Sincerely,  
RESNA Industries, Inc.

  
Gary DellaVecchia  
Operations Manager



42501 Albrae Street  
Fremont, California 94538

**FAX TRANSMITTAL FORM**

Date of Transmission: 8/18/92 Time: \_\_\_\_\_

Total number of pages sent, including this cover page: 2

TO: Name: Susan Hugo  
Company: Alameda County Health  
FAX No.: 569-4757

FROM: Name: N. Susan Mack  
Company: RESNA INDUSTRIES INC.  
FAX No.: (510) 651-2218 Phone No.: (510) 440-3300

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (510) 440-3300



**CLOSURE REPORT**

**FOR**

**MR. ROY POWLAN  
2939 SUMMIT STREET  
OAKLAND, CALIFORNIA**

**Project No. 3-10062  
October 1991**

October 23, 1991

Mr. Roy Powlan  
P.O. Box 1544  
Lafayette, CA 94549

Subject: Closure Report for 2939 Summit Street, Oakland, California  
Exceltech Project No. 3-10062

Dear Mr. Powlan:

Exceltech is pleased to provide you with this letter report regarding closure activities at 2939 Summit Street in Oakland, California. Exceltech was contracted to complete work previously started by Bernabe and Brinker Incorporated, a licensed contractor. A site map is attached as Figure 1.

Bernabe and Brinker's field activities took place in April 1991. On April 26, 1991, they removed one approximately 100-gallon underground fuel oil tank and on April 29, 1991, they removed another approximately 100-gallon underground tank, this one presumed also to have held heating oil fuel. After removal of the tanks, Tank Protect Engineering, an environmental management firm took the required samples.

Analytical data reported May 15, 1991 and May 20, 1991 by Sequoia Analytical show hydrocarbon contaminants in the soil. The analytical results, as well as chain-of-custody records, are attached in Appendix A.

On July 9, 1991, Roy Powlan contracted with Exceltech to do further excavation work to remove contaminants, sample the excavation to confirm removal, backfill the excavation upon confirmation with clean import fill, and dispose of all excavated soils.

On August 14, 1991, Exceltech crews mobilized and over-excavated previous tank locations. Removed soils were placed on and covered with Visqueen®. At completion of the soil excavation, one sample was taken from each of the excavations and four samples were taken from the stockpiled soils. The four stockpiled samples were composited by the laboratory into one sample. These samples were taken with the bucket of a backhoe, placed in glass jars, and sealed. Samples were then placed on ice for transport to Applied Analytical, a state-certified laboratory. Proper chain-of-custody followed the samples.

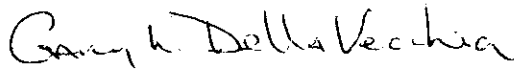
Analytical data reported August 23, 1991, showed non-detectable levels of hydrocarbon contamination both excavation and stockpile soils. Lead concentrations were also non-detectable. These results are attached as Appendix B. ↓

Mr. Roy Powlan  
Project No. 3-10062  
Page 2.

After reviewing these results, Exceltech crews backfilled the excavation and profiled the stockpile to BFI Waste Systems, a Class III disposal. On October 4, 1991, these soils were transferred to Vasco Road Landfill. The non-hazardous special waste manifests are attached as Appendix C.

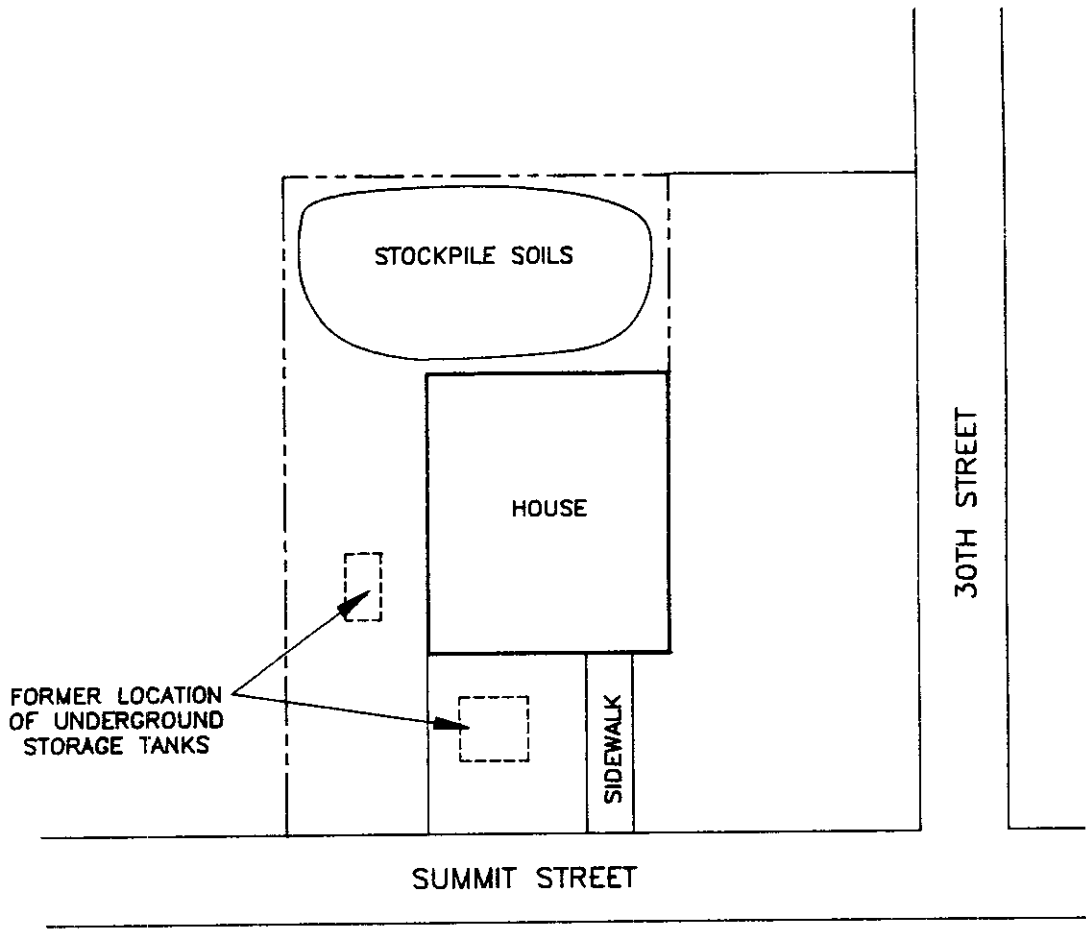
Based upon visual inspection of the site, as well as analytical data reported, Exceltech believes no further activities are needed to close this site. If you have any questions or comments, regarding this report, please call me at (510) 659-0404.

Thank you.  
Exceltech, Inc.



Gary L. DellaVecchia  
Field Service Manager

GLD/da  
Attachments



NOT TO SCALE



**SITE MAP**

ROY POULAN

2939 SUMMIT STREET

OAKLAND, CALIFORNIA

REVIEWED BY: APPROVED BY:

JOB #:  
310062-11

DATE:  
10/11/91

DRAWN BY:  
E.C.

DRAWING #:  
FIG. 1

---

**Attachment A**

**Analytical Data from Sequoia Analytical  
and  
Chain-of-Custody Records**

---



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(415) 686-9600 • FAX (415) 686-9689

Tank Protect Engineering of N. Calif Client Project ID: #162A-042691  
2821 Whipple Road  
Union City, CA 94587  
Attention: Lyle Travis

QC Sample Group: 1040957-59

Reported: May 20, 1991

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
---------	---------	---------	---------------	---------

Method:	EPA8015/8020	EPA8015/8020	EPA8015/8020	EPA8015/8020
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha
Reporting Units:	ppm	ppm	ppm	ppm
Date Analyzed:	May 10, 1991	May 10, 1991	May 10, 1991	May 10, 1991
QC Sample #:	104-0292	104-0292	104-0292	104-0292

Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.40	0.40	0.40	1.2
Conc. Matrix Spike:	0.39	0.37	0.39	1.2
Matrix Spike % Recovery:	98	92	98	100
Conc. Matrix Spike Dup.:	0.39	0.37	0.38	1.2
Matrix Spike Duplicate % Recovery:	98	92	95	100
Relative % Difference:	0	0	2.6	0

SEQUOIA ANALYTICAL

*J. R. Malerstein*  
Julia R. Malerstein  
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(415) 686-9600 • FAX (415) 686-9689

Tank Protect Engineering of N. Calif Client Project ID: #162A-042691	Sampled: Apr 26, 1991
2821 Whipple Road	Received: Apr 29, 1991
Union City, CA 94587	Analyzed: May 10, 1991
Attention: Lyle Travis	Reported: May 20, 1991
Matrix Descript: Soil	
Analysis Method: EPA 5030/8015/8020	
First Sample #: 104-0958	

## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Benzene	Toluene	Ethyl	Xylenes
		Hydrocarbons			Benzene	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
104-0958	SP-1	6.1	N.D.	N.D.	0.0081	0.037
104-0959 AE	SP1-1&2	16	0.012	0.025	0.022	0.082

Detection Limits:	1.0	0.0050	0.0050	0.0050	0.0050
-------------------	-----	--------	--------	--------	--------

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

*J. Malerstein*  
 Julia R. Malerstein  
 Project Manager

*Sta 10-100*



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(415) 686-9600 • FAX (415) 686-9689

Tank Protect Engineering of N. Calif Client Project ID: #162A-042691	Sampled: Apr 26, 1991
2821 Whipple Road	Received: Apr 29, 1991
Union City, CA 94587	Analyzed: May 10, 1991
Attention: Lyle Travis	Reported: May 20, 1991
Matrix Descript: Soil	
Analysis Method: EPA 5030/8015/8020	
First Sample #: 104-0957	

## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
104-0957	SBT-1	280	0.19	0.62	0.49	2.0

Detection Limits:	5.0	0.025	0.025	0.025	0.025
-------------------	-----	-------	-------	-------	-------

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

*Julia R. Malerstein*  
Julia R. Malerstein  
Project Manager

*Drive away tank*





# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(415) 686-9600 • FAX (415) 686-9689

Tank Protect Engineering of N. Calif Client Project ID: #162A-043091  
2821 Whipple Road  
Union City, CA 94587  
Attention: Lyle Travis

QC Sample Group: 1050010-11

Reported: May 15, 1991

## QUALITY CONTROL DATA REPORT

### ANALYTE

Diesel

Method: EPA 8015  
Analyst: J.R. Malerstein  
Reporting Units: mg/kg  
Date Analyzed: May 7, 1991  
QC Sample #: BLK050391

Sample Conc.: N.D.

Spike Conc.  
Added: 10

Conc. Matrix  
Spike: 8.0

Matrix Spike  
% Recovery: 80

Conc. Matrix  
Spike Dup.: 7.5

Matrix Spike  
Duplicate  
% Recovery: 75

Relative  
% Difference: 6.5

SEQUOIA ANALYTICAL

  
Julia R. Malerstein  
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520

(415) 686-9689 • FAX: (415) 686-9689

Tank Protect Engineering of N. Calif Client Project ID: #162A-043091  
2821 Whipple Road Matrix Descript: Soil  
Union City, CA 94587 Analysis Method: EPA 3550/8015  
Attention: Lyle Travis First Sample #: 105-0011

Sampled: Apr 29, 1991  
Received: May 1, 1991  
Extracted: May 3, 1991  
Analyzed: May 7, 1991  
Reported: May 15, 1991

## TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
105-0011	STP-1	700

Detection Limits:

50

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

  
Julia R. Malerslein  
Project Manager

1050010.TPE <4>

Tank  
Protect  
Engineering



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520

(415) 886-9889 • FAX (415) 886-9889

Tank Protect Engineering of N. Calif Client Project ID: #162A-043091  
2821 Whipple Road Matrix Descript: Soil  
Union City, CA 94587 Analysis Method: EPA 3550/8015  
Attention: Lyle Travis First Sample #: 105-0010

Sampled: Apr 29, 1991  
Received: May 1, 1991  
Extracted: May 3, 1991  
Analyzed: May 7, 1991  
Reported: May 15, 1991

## TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
105-0010	SM-1	1,700

Detection Limits:

100

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

  
Julia R. Malerstein  
Project Manager

1050010.TPE <3>



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(415) 686-9600 • FAX (415) 686-9689

Tank Protect Engineering of N. Calif Client Project ID: #162A-043091  
2821 Whipple Road  
Union City, CA 94587  
Attention: Lyle Travis

QC Sample Group: 1050010-11

Reported: May 15, 1991

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene		Ethyl Xylenes	
	Benzene	Toluene	Benzene	Xylenes
Method:	EPA 8015/8020	EPA 8015/8020	PA 8015/802	PA 8015/8020
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha
Reporting Units:	mg/lkg	mg/lkg	mg/lkg	mg/lkg
Date Analyzed:	May 13, 1991	May 13, 1991	May 13, 1991	May 13, 1991
QC Sample #:	105-0127	105-0127	105-0127	105-0127
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.40	0.40	0.40	1.2
Conc. Matrix Spike:	0.37	0.35	0.36	1.1
Matrix Spike % Recovery:	92	88	90	92
Conc. Matrix Spike Dup.:	0.38	0.36	0.37	1.1
Matrix Spike Duplicate % Recovery:	95	90	92	92
Relative % Difference:	2.7	2.8	2.7	0

SEQUOIA ANALYTICAL

  
Julia R. Malerstein  
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(415) 686-9600 • FAX (415) 686-9689

Tank Protect Engineering of N. Calif Client Project ID: #162A-043091	Sampled: Apr 29, 1991
2821 Whipple Road	Received: May 1, 1991
Union City, CA 94587	Analyzed: May 12, 1991
Attention: Lyle Travis	Reported: May 15, 1991
Matrix Descript: Soil	
Analysis Method: EPA 5030/8020	
First Sample #: 105-0010	

## BTEX DISTINCTION (EPA 8020)

Sample Number	Sample Description	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
105-0010	SM-1	N.D.	N.D.	N.D.	N.D.
105-0011	STP-1	N.D.	N.D.	N.D.	N.D.

Detection Limits:	0.050	0.050	0.050	0.050
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Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

  
Julia R. Malerstein  
Project Manager

1050010.TPE <1>

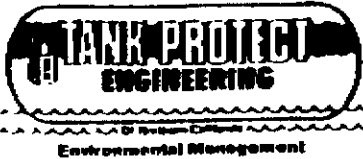
415 659 0612;# 3

41528340657

2:12PM ;

7-18-91

SENT BY: ALPHAGRAPHICS, LAFAYETT; 7-18-91



**TANK PROTECT ENGINEERING**

2021 WHIPPLE ROAD  
UNION CITY, CA 94507  
(415)429-8000  
(800)523-8000  
FAX (415)429-8009

LAB: SEQUOIA

TURNAROUND: NORMAL

P.O. #: 207

PAGE 1 OF 1

**CHAIN OF CUSTODY**

PROJECT NO.		SITE NAME & ADDRESS				(1) TYPE OF CONTAINER	ANALYTES REQUESTED						REMARKS
SAMPLER NAME, ADDRESS AND TELEPHONE NUMBER		SAMPLING LOCATION					TOTAL LIGHT HC	AROMATIC HC	TOTAL HEAVY HC	OIL & GREASE	PCB SCLAR (271 a)	OTHER	
ID NO.	DATE	TIME	SOIL	WATER									
K2A-C42691		2930 Summit Street, OAKLAND, CA				BRASS TUBE							1040957
LYLE THOMAS & TRAVIS TANK PROTECT ENGINEERING 2021 WHIPPLE ROAD, UNION CITY, CA 94507 (415) 429-8000													
SBT-1	4/26/91	1140	✓		SBT-1 @ 7.5'	✓	✓					} COMPOSITE SP-1 & SP1-2 9959 LB	
SP-1		1145	↓		SP-1 @ STOCK PILE	✓	✓						
SP1-1		1200	↓		SP1-1 @ STOCK PILE	✓	✓						
SP1-2		1200	↓		SP1-2 @ STOCK PILE	✓	✓						
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)			
<i>J. L. Avarach</i>		4/26/91 3:00pm		<i>Craig C. ...</i>		<i>Craig C. ...</i>		4/26/91 4:01 PM		<i>Paul ...</i>			
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)			
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks					
<i>B. Will</i>		4/27/91 1000		<i>Ken ...</i>		4/27/91 11:35am							

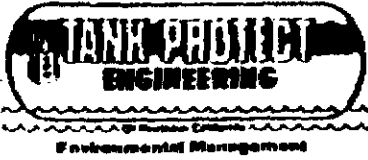
DATE: \_\_\_\_\_

415 659 0512: # 2

4152834065

2:11PM

SENT BY: ALPHAGRAPHS, LAFAYETT; 7-18-91



# TANK PROTECT ENGINEERING

2821 WHIPPLE ROAD  
UNION CITY, CA 94587  
(415) 429-8088  
(800) 523-8088  
FAX (415) 429-8089

LAB: SAFECO LABS

TURNAROUND: NORMAL

P.O. #: 214

PAGE 1 OF 1

## CHAIN OF CUSTODY

PROJECT NO.		SITE NAME & ADDRESS				(1) TYPE OF CONTAINER	ANALYTES REQUESTED						REMARKS
182A-0484		2449 SUMMIT STREET CASANOVA					TOTAL LIGHT HC	AROMATIC HC (BTEX)	TOTAL HEAVY HC	OLEF & GELASOL	PCB SEM (EPA 9)	OTHER	
SAMPLER NAME, ADDRESS AND TELEPHONE NUMBER													
AHMAD SMITH TANK PROTECT ENGINEERING													
2821 WHIPPLE ROAD, UNION CITY, CA 94587 (415) 429-8088													
ID NO.	DATE	TIME	SOIL	WATER	SAMPLING LOCATION								
SM-1	4/29/91	3:15	✓		MIDDLE OF PLOT @ 5' FROM TOP	BRASS TUBE	✓	✓				1050010	
STP-1	5/1/91	3:15	✓		STEEL PILE @ 1' FROM TOP	"	✓	✓				011	
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)			
<i>[Signature]</i>		4/29/91 4:05 PM		<i>[Signature]</i>		<i>[Signature]</i>		4/30/91 1632		<i>[Signature]</i>			
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)			
<i>[Signature]</i>		5/1/91 1550		<i>[Signature]</i>		<i>[Signature]</i>				<i>[Signature]</i>			
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks					
<i>[Signature]</i>				<i>[Signature]</i>		4/30 1430							

rel'd by KWR 5-1 2:15 *[Signature]*

*[Signature]*

DATE: 04/29/91

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**Attachment B**

**Analytical Data from Applied Analytical  
and  
Chain-of-Custody Records**

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# APPLIED ANALYTICAL

## Environmental Laboratories

42501 Albrae St., Suite 100

Fremont, CA 94538

Bus: (415) 623-0775

Fax: (415) 651-8647

### ANALYSIS REPORT

Attention: Mr. Joe Brosnan  
Exceltech  
41674 Christy St.  
Fremont, CA 94536  
Project: 19513-L, Project #3-10062-11  
Powlan

Date Sampled: 08-14/15-91  
Date Received: 08-15-91  
BTEX Analyzed: 08-23-91  
TPHg Analyzed: 08-23-91  
TPHd Analyzed: 08-23-91  
Matrix: Soil

	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPHg	TPHd
	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit:	0.005	0.005	0.005	0.005	1.0	10

#### SAMPLE

#### Laboratory Identification

1 S1108285	ND	ND	ND	ND	ND	ND
1A S1108286	ND	ND	ND	ND	ND	ND
(2-6) S1108287	ND	ND	ND	ND	ND	300

ppm = parts per million = mg/kg = milligrams per kilogram.

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.

#### ANALYTICAL PROCEDURES

BTEX- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg- Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd- Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

  
Laboratory Representative

August 7, 1991  
Date Reported

# APPLIED ANALYTICAL

## Environmental Laboratories

42501 Albrae St., Suite 100  
Fremont, CA 94538  
Bus: (415) 623-0775  
Fax: (415) 651-8647

### ANALYSIS REPORT

Attention: Dale Hemstad  
Exceltech  
41674 Christy St.  
Fremont, CA 94538  
Project: AGS 19513-L, Project #3-10062-11  
Roy Powlan

Date Sampled: 08-15-91  
Date Received: 09-24-91  
Date Extracted: 09-24-91  
Date Reported: 09-26-91  
Batch No.: 0013  
Matrix: Leachate

1020lab.frm

---

Lab ID Number	Client ID Number	Concentration (mg/L)
S1108285	1-1A COMP	ND
S1108287	2-6 COMP	ND

---

Reporting Limits\*:

0.50

---

Analysis Report: TCLP Pb: EPA Method 6010.

\*Unless otherwise indicated within parentheses.

ND - Not Detected at or above indicated Reporting Limit.

  
Laboratory Representative

September 26, 1991

Date Reported

# CHROMALAB, INC.

5 DAYS TURNAROUND

Analytical Laboratory (E694)

September 25, 1991

ChromaLab File No.: 0991190

APPLIED ANALYTICAL

Attn: Laura Kuck / Dale Hensted

RE: Two rush soil samples for Reactivity, Corrosivity, and Ignitability analyses

Project Name: ROY POWLAN

Project Number: 3-10062-11

Date Sampled: Aug. 15, 1991

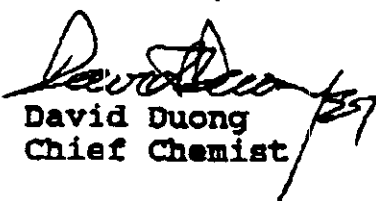
Date Submitted: Sept. 25, 1991

Date Analyzed: Sept. 25, 1991

## RESULTS:


<u>Sample I.D.</u>	<u>Reactivity</u>	<u>Corrosivity</u>	<u>Ignitability</u>
1, 1A-COMPOSITE	No	pH 5.9	No
2, 6A-COMPOSITE	No	pH 6.2	No
BLANK	No	pH 7.0	No
METHOD OF ANALYSIS	SEC.66705	SEC.66708	SEC.66702

ChromaLab, Inc.

  
David Duong  
Chief Chemist

  
Eric Tam  
Laboratory Director

**CHAIN OF CUSTODY RECORD**

PROJECT NO. 310062-4		PROJECT NAME Dowler		TEST REQUESTED				P.O. #
SAMPLERS (Signature) <i>S Adams</i>				BTX	TPH	TPH4	LAB <i>AGS</i>	
							TURN AROUND TIME <i>7 Day</i>	
NO.	DATE	TIME	SAMPLE DESCRIPTION				REMARKS	
1	8-14	11:45	Soil in Glass Jars	<i>Compost Stackpile</i>				
1A	8-15	11:00						
2	8-15	11:15						
3	8-15	11:20						
4	8-15	11:25						
5	8-15	11:30						
6	8-15	11:35						
RELINQUISHED BY: <i>Scott Adams</i>		DATE: TIME: 8-15 15:00	RECEIVED BY: <i>Laura Kuck</i>	RELINQUISHED BY:		DATE: TIME:	RECEIVED BY:	
RELINQUISHED BY:		DATE: TIME:	RECEIVED BY:	RELINQUISHED BY:		DATE: TIME:	RECEIVED BY:	
REMARKS:				 41674 Christy Street Fremont, C.A. 94538-3114 (415) 659-0404 Fax (415) 651-4677 Contr. Lic. No. 550205				
REPORT TO:								



## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

094014

PROJECT NO.		PROJECT NAME/SITE					ANALYSIS REQUESTED											P.O. #:				
SAMPLERS		(SIGN)					(PRINT)	NO. CONTAINERS	SAMPLE TYPE	/											REMARKS	
SAMPLE IDENTIFICATION		DATE	TIME	COMP	GRAB	PRES. USED	ICED			BTEX (602/8020)	TPHg (8015)	TPHd (8015)	TOG 418 1/5520	601/8010	624/8240	623/8270	TLC-P-LEAD	RCI				
1 } Composite		8-15		✓	✓			1	S													
1A } Composite		↓		✓	✓			1	S													
(2-6) Composite				✓	✓			5	S													
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		LABORATORY:					PLEASE SEND RESULTS TO:											
Del Henstruff		9-24		Ken Owens		APPLIED ANALYTICAL																
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		REQUESTED TURNAROUND TIME:					PROJECT MANAGER:											
						2 DAY																
RELINQUISHED BY:		DATE	TIME	RECEIVED BY LABORATORY:		RECEIPT CONDITION:																
											Del Henstruff											

---

**Attachment C**

**Non-Hazardous Special Waste Manifests**

---



# NON-HAZARDOUS SPECIAL WASTE MANIFEST

## GENERATOR

Generator Name \_\_\_\_\_ Generating Location Some

Address 2937 \_\_\_\_\_ Address \_\_\_\_\_

Woklo - Co.

Phone No. 415-283-1623 \_\_\_\_\_ Phone No. \_\_\_\_\_

BFI Waste Code \_\_\_\_\_ Containers \_\_\_\_\_

Description of Waste	Quantity	Units	Containers	
			No.	Type
<u>Fuel Oil Contaminated Soils</u>	<u>20</u>	<u>1</u>		

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.13 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly classified and packaged, and is in proper condition for transportation according to applicable regulations.

Dale Hemstad \_\_\_\_\_ Dale Hemstad \_\_\_\_\_ 100491 \_\_\_\_\_  
Generator Authorized Agent Name Signature Shipment Date

## TRANSPORTER

Truck No. C239 \_\_\_\_\_ Phone No. (510) 475-0793

Transporter Name OED TRUCKING \_\_\_\_\_ Driver Name (Print) R.G. FERRELL

Address P.O. BOX 7897 \_\_\_\_\_ Vehicle License No./State FLYN OD

FREMONT CA 94537 \_\_\_\_\_ Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

R.G. Ferrell \_\_\_\_\_ 100491 \_\_\_\_\_  
Driver Signature Shipment Date Driver Signature Delivery Date

## DESTINATION

Site Name \_\_\_\_\_ Phone No. \_\_\_\_\_

Address \_\_\_\_\_

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

\_\_\_\_\_  
Name of Authorized Agent Signature Receipt Date

PASS CODE \_\_\_\_\_

# NON-HAZARDOUS SPECIAL WASTE

## GENERATOR

Generator Name POWLAN Generating Location SAME

Address 2939 ST Address \_\_\_\_\_

OAKLAND, CA

Phone No. 415-2834623 Phone No. \_\_\_\_\_

BFI Waste Code \_\_\_\_\_ Description of Waste \_\_\_\_\_ Containers \_\_\_\_\_ Type \_\_\_\_\_

FUEL OIL CONTAMINATED SOILS

Quantity	Units	No.	Type
<u>18</u>	<input checked="" type="checkbox"/>		

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name DALE HENSTAD Signature Dale Henstad Shipment Date 10039

## TRANSPORTER

Truck No. C239 Phone No. (510)475

Transporter Name OED TRUCKING Driver Name (Print) RG FERRELL

Address P.O. BOX 7897 Vehicle License No./State FLYN 011

FREMONT CA 94537 Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature RG Ferrell Shipment Date 1003911 Driver Signature RG Ferrell Delivery Date 1003911

## DESTINATION

Site Name \_\_\_\_\_ Phone No. \_\_\_\_\_

Address \_\_\_\_\_

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature \_\_\_\_\_ Receipt Date \_\_\_\_\_

PASS CODE \_\_\_\_\_





# NON-HAZARDOUS SPECIAL WASTE MANIFEST

## GENERATOR

Generator Name \_\_\_\_\_ Generating Location SAME

Address 2939 \_\_\_\_\_ ST Address \_\_\_\_\_

Oakland CA

Phone No. 415-2834623 Phone No. \_\_\_\_\_

BFI Waste Code \_\_\_\_\_ Description of Waste \_\_\_\_\_ Containers \_\_\_\_\_

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
<u>FUEL OIL CONTAMINATED SOILS</u>	<u>18</u>	<u>Y</u>			

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- Q - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.11, state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name DAVE HENSTAD Signature [Signature] Shipment Date 1003911

## TRANSPORTER

Truck No. C239 Phone No. (510) 475-0793

Transporter Name O D Trucking Driver Name (Print) R G FERRELL

Address P.O. BOX 7897 Vehicle License No./State FLYN OD

FREMONT CA, 94537

Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Driver Signature [Signature] Delivery Date 1003911

## DESTINATION

Site Name \_\_\_\_\_ Phone No. \_\_\_\_\_

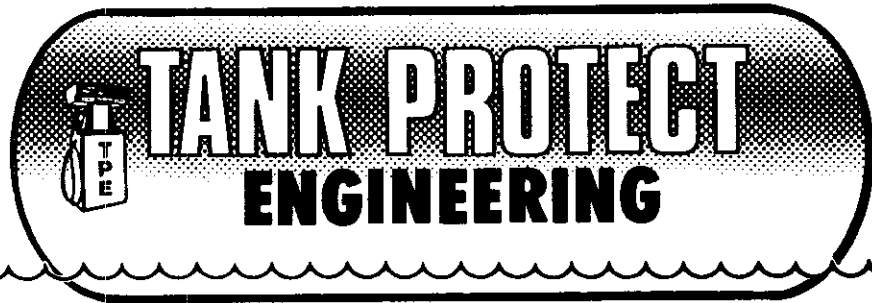
Address \_\_\_\_\_

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature \_\_\_\_\_ Receipt Date \_\_\_\_\_

PASS CODE \_\_\_\_\_

GENERATOR RETAIN



(415) 429-8088  
(800) 523-8088  
FAX (415) 429-8089

Of Northern California

June 4, 1991

Ms. Susan L. Hugo  
Alameda County Health Care Services Agency  
Hazardous Materials Division  
80 Swan Way, Room 200  
Oakland, CA 94621

Re: Analytical Results for 2939, Summit Street, Oakland, CA 94609

Dear Mrs. Hugo:

Attached are copies of analytical reports, chain-of-custody documentation, Unauthorized Release(Leak)/Contamination Site Report, and site plan for the subject site.

If you have any question please contact our office.

Sincerely,

TANK PROTECT ENGINEERING

98:1111V S-1111P 16



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(415) 686-9600 • FAX (415) 686-9689

Tank Protect Engineering of N. Calif Client Project ID: #162A-043091	Sampled: Apr 29, 1991
2821 Whipple Road	Received: May 1, 1991
Union City, CA 94587	Analyzed: May 12, 1991
Attention: Lyle Travis	Reported: May 15, 1991
Matrix Descript: Soil	
Analysis Method: EPA 5030/8020	
First Sample #: 105-0010	

## BTEX DISTINCTION (EPA 8020)

Sample Number	Sample Description	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
105-0010	SM-1	N.D.	N.D.	N.D.	N.D.
105-0011	STP-1	N.D.	N.D.	N.D.	N.D.

Detection Limits:

0.050

0.050

0.050

0.050

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

  
Julia R. Malerstein  
Project Manager

1050010.TPE <1>



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(415) 686-9600 • FAX (415) 686-9689

Tank Protect Engineering of N. Calif Client Project ID: #162A-043091

2821 Whipple Road

Union City, CA 94587

Attention: Lyle Travis

QC Sample Group: 1050010-11

Reported: May 15, 1991

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene		Ethyl Benzene	
	Benzene	Toluene	Benzene	Xylenes

Method:	EPA 8015/8020	EPA 8015/8020	PA 8015/802	PA 8015/8020
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha
Reporting Units:	mg/lkg	mg/lkg	mg/lkg	mg/lkg
Date Analyzed:	May 13, 1991	May 13, 1991	May 13, 1991	May 13, 1991
QC Sample #:	105-0127	105-0127	105-0127	105-0127

Sample Conc.: N.D. N.D. N.D. N.D.

Spike Conc. Added: 0.40 0.40 0.40 1.2

Conc. Matrix Spike: 0.37 0.35 0.36 1.1

Matrix Spike % Recovery: 92 88 90 92

Conc. Matrix Spike Dup.: 0.38 0.36 0.37 1.1

Matrix Spike Duplicate % Recovery: 95 90 92 92

Relative % Difference: 2.7 2.8 2.7 0

SEQUOIA ANALYTICAL

  
Julia R. Malerstein  
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520

(415) 886-9600 • FAX (415) 886-9689

Tank Protect Engineering of N. Calif Client Project ID: #162A-043091  
2821 Whipple Road Matrix Descript: Soil  
Union City, CA 94587 Analysis Method: EPA 3550/8015  
Attention: Lyle Travis First Sample #: 105-0010

Sampled: Apr 29, 1991  
Received: May 1, 1991  
Extracted: May 3, 1991  
Analyzed: May 7, 1991  
Reported: May 15, 1991

## TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
105-0010	SM-1	1,700

Detection Limits:

100

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard.  
Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

  
Julia R. Malerstein  
Project Manager



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520

(415) 686-9600 • FAX (415) 686-9689

Tank Protect Engineering of N. Calif Client Project ID: #162A-043091  
2821 Whipple Roac Matrix Descript: Soil  
Union City, CA 94587 Analysis Method: EPA 3550/8015  
Attention: Lyle Travis First Sample #: 105-0011

Sampled: Apr 29, 1991  
Received: May 1, 1991  
Extracted: May 3, 1991  
Analyzed: May 7, 1991  
Reported: May 15, 1991

## TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

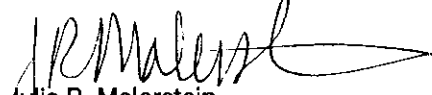
Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
105-0011	STP-1	700

Detection Limits:

50

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

  
Julia R. Malerstein  
Project Manager



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(415) 686-9600 • FAX (415) 686-9689

Tank Protect Engineering of N. Calif Client Project ID: #162A-043091

2821 Whipple Road  
Union City, CA 94587  
Attention: Lyle Travis

QC Sample Group: 1050010-11

Reported: May 15, 1991

## QUALITY CONTROL DATA REPORT

### ANALYTE

Diesel

Method: EPA 8015  
Analyst: J.R. Malerstein  
Reporting Units: mg/kg  
Date Analyzed: May 7, 1991  
QC Sample #: BLK050391

Sample Conc.: N.D.

Spike Conc.  
Added: 10

Conc. Matrix  
Spike: 8.0

Matrix Spike  
% Recovery: 80

Conc. Matrix  
Spike Dup.: 7.5

Matrix Spike  
Duplicate  
% Recovery: 75

Relative  
% Difference: 6.5

SEQUOIA ANALYTICAL

  
Julia R. Malerstein  
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



TANK PROTECT ENGINEERING

2021 WHIPPLE ROAD  
UNION CITY, CA 94587  
(415) 429-8088  
(800) 523-8088  
FAX (415) 429-8089

LAB: SEARCHED

TURNAROUND: NORMAL

P.O. #: 214

PAGE 1 OF 1

CHAIN OF CUSTODY

PROJECT NO.		SITE NAME & ADDRESS				(1) TYPE OF CONTAINER	ANALYTES REQUESTED							REMARKS										
123A-040001		2059 SUMMIT STREET CARLISLE					TOTAL LIGHT HC	AROMATIC HC	TOTAL HEAVY HC	OIL & GREASE	VOC SCAN (62's)	OTHER												
SAMPLER NAME, ADDRESS AND TELEPHONE NUMBER												ID NO.	DATE	TIME	SOIL	WATER	SAMPLING LOCATION							
AHMAD BAHAM TANK PROTECT ENGINEERING 2821 WHIPPLE ROAD, UNION CITY, CA 94587 (415) 429-8088																								
RM-1	04/20	3:15	✓			MODEL OF PET @ 5' FROM TOP	BRASS TUBE	✓	✓												1050010			
SEP-1	04/20	3:25	✓			STEEL PIPE @ 1' FROM TOP	"	✓	✓												011			
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)														
<i>[Signature]</i>		4/30/91 405		<i>[Signature]</i>		<i>[Signature]</i>		4/30/91 1632		<i>[Signature]</i>														
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)														
<i>[Signature]</i>		5/1/91 1550		<i>[Signature]</i>		<i>[Signature]</i>				<i>[Signature]</i>														
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks																
<i>[Signature]</i>				<i>[Signature]</i>		4/30 1430																		

held by Kniv 5-1 2:15 Philip B.

*[Signature]*

DATE: 04/29/91





# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(415) 686-9600 • FAX (415) 686-9689

Tank Protect Engineering of N. Calif Client Project ID: #162A-042691	Sampled: Apr 26, 1991
2821 Whipple Road	Received: Apr 29, 1991
Union City, CA 94587	Analyzed: May 10, 1991
Attention: Lyle Travis	Reported: May 20, 1991
Matrix Descript: Soil	
Analysis Method: EPA 5030/8015/8020	
First Sample #: 104-0957	

## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Benzene	Toluene	Ethyl	Xylenes
		Hydrocarbons			Benzene	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
104-0957	SBT-1	280	0.19	0.62	0.49	2.0

Detection Limits:

5.0

0.025

0.025

0.025

0.025

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

  
Julia R. Malerstein  
Project Manager

1040957.TPE <1>



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(415) 686-9600 • FAX (415) 686-9689

Tank Protect Engineering of N. Calif Client Project ID: #162A-042691	Matrix Descript: Soil	Sampled: Apr 26, 1991
2821 Whipple Road	Analysis Method: EPA 5030/8015/8020	Received: Apr 29, 1991
Union City, CA 94537	First Sample #: 104-0958	Analyzed: May 10, 1991
Attention: Lyle Travis		Reported: May 20, 1991

## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons		Toluene mg/kg (ppm)	Ethyl Benzene Xylenes	
		mg/kg (ppm)	Benzene mg/kg (ppm)		mg/kg (ppm)	mg/kg (ppm)
104-0958	SP-1	6.7	N.D.	N.D.	0.0081	0.037
104-0959 AB	SP1-1&2	16	0.012	0.025	0.022	0.082

<b>Detection Limits:</b>	<b>1.0</b>	<b>0.0050</b>	<b>0.0050</b>	<b>0.0050</b>	<b>0.0050</b>
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

*Julia R. Malerstein*  
Julia R. Malerstein  
Project Manager



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(415) 686-9600 • FAX (415) 686-9689

Tank Protect Engineering of N. Calif Client Project ID: #162A-042691  
2821 Whipple Road  
Union City, CA 94587  
Attention: Lyle Travis

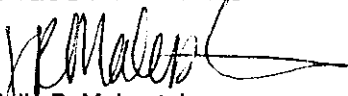
QC Sample Group: 1040957-59

Reported: May 20, 1991

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene		Ethyl Benzene Xylenes	
	Benzene	Toluene	Benzene	Xylenes
Method:	EPA8015/8020	EPA8015/8020	EPA8015/8020	EPA8015/8020
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha
Reporting Units:	ppm	ppm	ppm	ppm
Date Analyzed:	May 10, 1991	May 10, 1991	May 10, 1991	May 10, 1991
QC Sample #	104-0292	104-0292	104-0292	104-0292
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.40	0.40	0.40	1.2
Conc. Matrix Spike:	0.39	0.37	0.39	1.2
Matrix Spike % Recovery:	98	92	98	100
Conc. Matrix Spike Dup.:	0.39	0.37	0.38	1.2
Matrix Spike Duplicate % Recovery:	98	92	95	100
Relative % Difference:	0	0	2.6	0

SEQUOIA ANALYTICAL

  
Julia R. Malerstein  
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



TANK PROTECT ENGINEERING

2021 WHIPPLE ROAD  
 UNION CITY, CA 94587  
 (415) 429-8088  
 (800) 523-8088  
 FAX (415) 429-8089

LAB: SCUCOLA

TURNAROUND: NORMAL

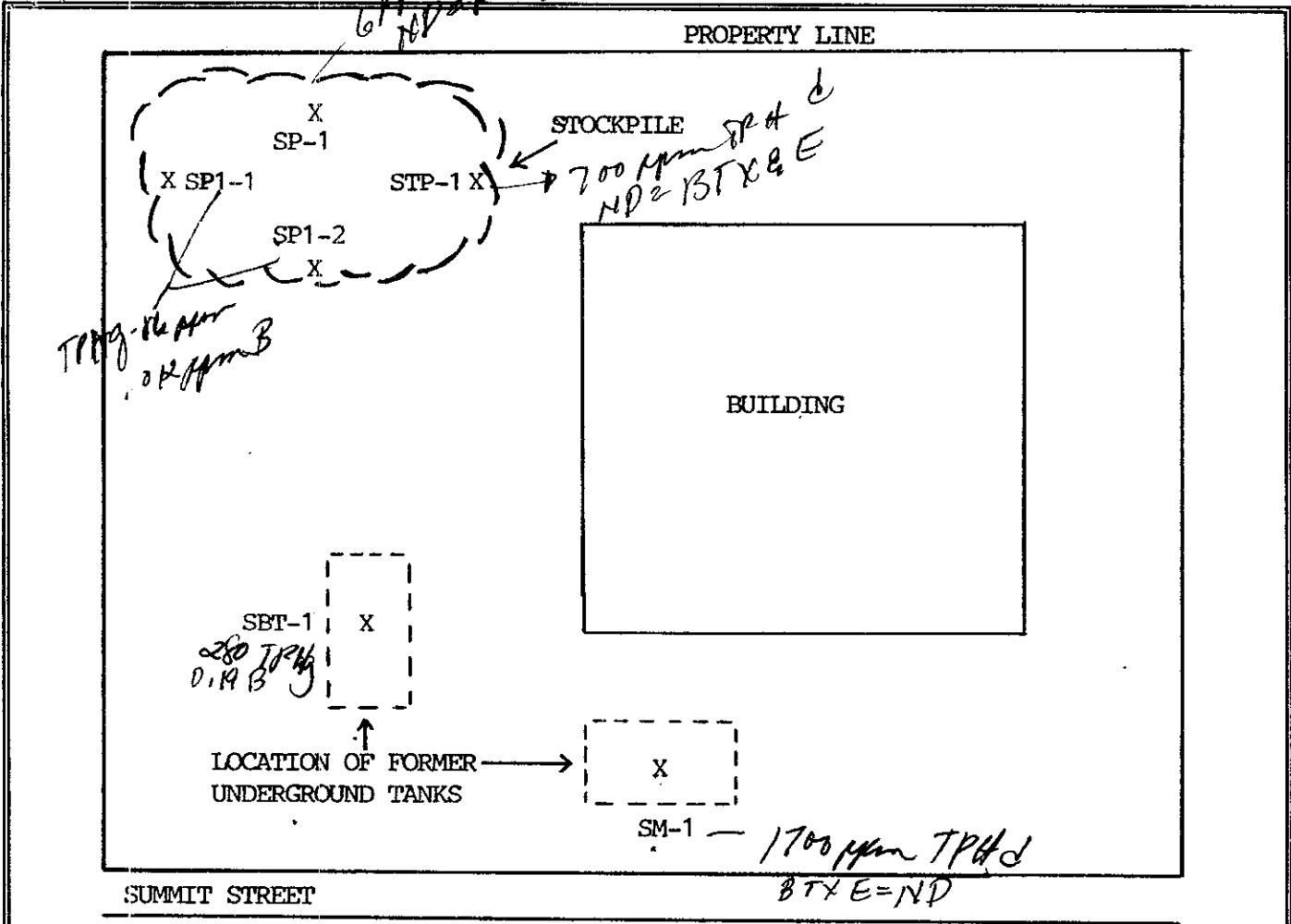
P.O. #: 207

PAGE 1 OF 1

CHAIN OF CUSTODY

PROJECT NO.		SITE NAME & ADDRESS				(1)	ANALYTES REQUESTED	REMARKS		
102A-04291		2930 Summit Street, Oakland, CA								
SAMPLER NAME, ADDRESS AND TELEPHONE NUMBER						TYPE OF CONTAINER				
LYLE THOMAS E. TRAVIS TANK PROTECT ENGINEERING 2821 WHIPPLE ROAD, UNION CITY, CA 94587 (415) 429-8088										
ID NO.	DATE	TIME	SOIL	WATER	SAMPLING LOCATION					
SBT-1	4/26/91	1140	✓		SBT-1 @ 7.5'	BRASS TUBE	✓	1040957		
SP-1	↓	1145	↓		SP-1 @ STOCK PILE	↓	✓	958		
SPI-1	↓	1200	↓		SPI-1 @ STOCK PILE	↓	✓	} COMPOSITE SPI-1 & SPI-2 9959 AB		
SPI-2	↓	1200	↓		SPI-2 @ STOCK PILE	↓	✓			
Relinquished by: (Signature)						Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
D.L. Avarack						4/26/91 3:00pm	Craig C. Lee	Craig C. Lee	4/26/91 4:01pm	Paul Newman
Relinquished by: (Signature)						Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
K. Will						4/27/91 1000	Received in Laboratory by: (Signature)	4/27/91 11:35am	Remarks	

DATE: \_\_\_\_\_

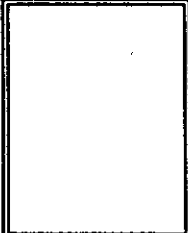


**LEGEND**

X  
 SP-1 SOIL SAMPLE NAME  
 AND LOCATION



SITE PLAN  
 2939 SUMMIT STREET  
 OAKLAND, CALIFORNIA



ALAMEDA COUNTY  
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

February 28, 1992

Dr. Roy Powlen  
P.O. Box 1544  
Lafayette, CA 94549

DEPARTMENT OF ENVIRONMENTAL HEALTH  
Hazardous Materials Division  
80 Swan Way, Rm. 200  
Oakland, CA 94621  
(510) 271-4320

**RE: 2939 Summit Street, Oakland CA 94609  
Underground Tank Removals**

Dear Mr. Powlen:

This letter is a follow-up to our conversation of February 11, 1992 and February 25, 1992 regarding the underground tank removals at the above referenced site and to clarify the additional investigation/remediation work required before the site can be recommended to the Regional Water Quality Control Board (RWQCB) for case closure.

As you know, two underground heating fuel oil tanks were removed from the above referenced site on April 26, 1991 and April 29, 1992. Soil samples collected from the excavation pit showed contamination as high as 1700 ppm total petroleum hydrocarbon as diesel.

This department is in receipt of the following documents for the referenced site:

- \* Closure Report (October, 1991) and the Site Safety Plan for Site Closure Services (August, 1991) submitted by Exceltech
- \* Analytical reports and the unauthorized leak report submitted by Tank Protect Engineering
- \* Uniform Hazardous Waste Manifest for the two underground tanks that you submitted to this office

This office has reviewed all the reports and documents pertaining to the referenced site and before case closure can be recommended to RWQCB the following issues need to be address:

- \* The workplan submitted by Exceltech stated the collection of three verification soil samples from each excavation pit. However, the report showed only one soil sample was collected from each excavation pit.
- \* The extent of over-excavation, both vertically and laterally that was performed at the site was not mentioned in the report. The location where the verification samples were taken must be provided to this office. The removal of all contaminated soil from the ground must be fully documented.

Mr. Roy Powlen  
RE: 2939 Summit, Oakland 94609  
February 28, 1992  
Page 2 of 3

- \* The analytical data showed that stockpiled soil had 300 ppm of total petroleum hydrocarbon as diesel and was not " non-detectable level" as stated in the closure report.
- \* Because of the degree of contamination found at the site, Tri-Regional Water Quality Control Board's Guideline (August, 1990) requires that impact to groundwater of the unauthorized release associated with the former underground tanks must be investigated. Specifically, a groundwater monitoring well must be installed within ten feet of the former tank location. This well must be located in a down gradient direction relative to groundwater flow. The guidelines state that groundwater flow gradient must be determined by data derived from three wells.

Based on these findings and to make progress toward case closure, a workplan must be developed in accordance with Attachment A. The workplan must be submitted to our office within 30 days of the date of this letter and must contain a timetable for the completion of the workplan elements.

Our office will be the lead agency overseeing the investigation and cleanup activities at this site. The San Francisco Bay RWQCB is currently unable to oversee the large number of underground tank cases within Alameda County and has delegated the handling of this case to our Division. We will be in contact with the RWQCB in order to provide you with guidance concerning RWQCB's investigation requirements. However, you must keep the RWQCB apprised of all actions taken to characterize and remediate the contamination at this site as the Board retains the ultimate responsibility for ensuring protection of the waters of the State. Please be aware that you are responsible for performing diligent actions to protect the waters of the State.

A report must be submitted within 30 days after completion of this investigation. Subsequent reports must be submitted **quarterly** until the site can be recommended for RWQCB's "**sign off**". All reports and proposals must be submitted under seal of a California Registered Geologist or Registered Civil Engineer. Copies of reports and proposal must also be submitted to:

Eddy So  
San Francisco Bay RWQCB  
2101 Webster Street, Fourth Floor  
Oakland, CA 94612

Mr. Roy Powlen  
RE: 2939 Summit, Oakland 94609  
February 28, 1992  
Page 3 of 3

Please be aware that request for technical reports is pursuant to California Water Code Section 13267 (b) and any extensions of stated deadlines or changes in the workplan must be confirmed in writing and approved by this agency.

Should you have any questions concerning this letter, please contact me at (510) 271-4530.

Sincerely,



Susan L. Hugo  
Senior Hazardous Materials Specialist

attachment

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health  
Gil Jensen, Alameda County District Attorney's Office  
Eddy So, San Francisco Bay RWQCB  
Howard Hatayama, State Department of Health Services  
Gary Della Vechia, Exceltech - 41674 Christy St., Fremont  
California 94536

Files



DEPARTMENT OF ENVIRONMENTAL HEALTH

APPLICATION FORM

MFR Sent \_\_\_\_\_ (date)

PURPOSE: Permit Application  Service  Renewal

Computer No.

TYPE OF ACTION: New  Premises Change  of Owner Change  of Name Change  of Status Change  of Mailing Address Inactivate  Delete  Unincorp.

Premises Name SAMS & ASSOCIATES SUPV.  DIST.  C.T. 4  
A. Premises Address 5801 Christie Ave. Suite 525, Emeryville, CA 94608 Number Street City Zip Code Phone (510) 420-1869  
Owner/Applicant Attn: R.L. ARNOLD If corporation, also show name of corporation president Phone

B. Mailing Address \_\_\_\_\_ Number Street City Zip Code

SEND BILLING TO ADDRESS: A, B (circle one)

Prior Business Name \_\_\_\_\_ Prior Owner's Name \_\_\_\_\_

Property Owner \_\_\_\_\_ If corporation, also show name of corporation president Phone

Address \_\_\_\_\_ Number Street City Zip Code

E.U. NO.  C.P. CODE

FOOD CATEGORIES

Bakery

- \_\_\_ Under 2,000 sq. ft. (130)
- \_\_\_ 2,000 - 6,000 sq. ft. (131)
- \_\_\_ Over 6,000 sq. ft. (132)

Food Market, Retail

- \_\_\_ Under 3,000 sq. ft. (120)
- \_\_\_ 3,000 - 10,000 sq. ft. (121)
- \_\_\_ Over 10,000 sq. ft. (122)

Confectionary (125)

Restaurant

- \_\_\_ Tavern, Cocktail lounge (104)
- \_\_\_ Snack Bar (105)
- \_\_\_ Drive-In, Take Out (110)
- \_\_\_ Catering Commissary (111)
- \_\_\_ Under 26 seats (100)
- \_\_\_ 26 - 50 seats (101)
- \_\_\_ 51 - 75 seats (102)
- \_\_\_ Over 75 seats (103)
- \_\_\_ In Plant Feeding (114)
- \_\_\_ Bed & Breakfast (Cont.) (115)
- \_\_\_ Bed & Breakfast (Reg.) (116)

Vending Machine

Other Food

Temporary Food Operation

- \_\_\_ Special Event Facility (113) (not to exceed 3 days)
- \_\_\_ Temporary Food Facility (108) (not to exceed 21 days)
- \_\_\_ Seasonal Food Facility (129) (not to exceed 45 days)

Food Vehicle

- \_\_\_ Vehicle Application Fee
- \_\_\_ Mobile Food Prep. Unit (107)
- \_\_\_ Stationary M.F.P.U. (117)
- \_\_\_ Retail Food Vehicle (112)
- \_\_\_ Itinerant Vehicle (128)

GENERAL CATEGORIES

- \_\_\_ Plan Review
- \_\_\_ Special Service
- \_\_\_ Public Swimming Area
- \_\_\_ Commercial Spa
- \_\_\_ Mobilehome Park
- No. Spaces \_\_\_\_\_

Private Waste Disposal

- \_\_\_ Site Evaluation
- \_\_\_ Percolation Test
- \_\_\_ Plan Review
- \_\_\_ Installation

Holding Tank

- \_\_\_ Site Evaluation
- \_\_\_ Installation
- \_\_\_ Inspection

Water Supply-Utility

- \_\_\_ Community System
- \_\_\_ Non-Community System
- \_\_\_ State Small Water System
- \_\_\_ Local Small Water System

Private Water Supply

- \_\_\_ Flow, Bacti. & Chem. Anal.

Drinking Water Analysis

- \_\_\_ Bacterial
- \_\_\_ Chemical
- \_\_\_ Flow Rate

Other

Number of Units/Hrs. 1 HOUR 85 COPIES Fee Per Unit/Hr. \$ 71.00/HOUR 1.00/copy Total Fee \$ 156.00

REMARKS: Site search/copies for 2939 Summit Street OAKLAND, CA 94609

You will receive a BILL in accordance with Article 11 of Chapter 6, Title 3 of the Ordinance Code of Alameda County

Owner/Applicant \_\_\_\_\_ Date \_\_\_\_\_  
Sanitarian Juan L. Hugo Phone (510) 271-4530 Date 4/2/92

To Susan Hugo :

Here are the  
forms you  
requested .

Roy Powlan

Please print or type. Form designed for use on elite (12-pitch typewriter).

90542212

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>				1. Generator's US EPA ID No. C A C 0 0 0 5 7 6 0 8 8	Manifest Document No. 3 0 0 0 0 3	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address <b>MR. ROY POWLEN</b> <b>P. O. Box 1544, Lafayette, Ca. 94549</b>						A. State Manifest Document Number <b>90542212</b>	
4. Generator's Phone <b>(415) 283-1326</b>						B. State Generator's ID	
6. Transporter 1 Company Name <b>H &amp; H Ship Service Company</b>				8. US EPA ID Number C A D 0 0 4 7 7 1 1 6 8		C. State Transporter's ID <b>200510</b>	
7. Transporter 2 Company Name						D. Transporter's Phone <b>(415) 543-4835</b>	
9. Designated Facility Name and Site Address <b>H &amp; H Ship Service Company</b> <b>220 China Basin Street</b> <b>San Francisco, CA 94107</b>						10. US EPA ID Number C A D 0 0 4 7 7 1 1 6 8	
						E. State Transporter's ID	
						F. Transporter's Phone	
						G. State Facility's ID C A D 0 0 4 7 7 1 1 6 8	
						H. Facility's Phone <b>(415) 543-4835</b>	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers	13. Total Quantity	14. Unit	15. Waste No.
a. <b>RESIDUE HEATING OIL TANK</b> <b>NON RCRA HAZARDOUS WASTE SOLID</b>				No. 0 0 1	Type T P	0 0 5 0 0	P
							State <b>512</b>
							EPA/Other
b.							State
c.							EPA/Other
d.							State
							EPA/Other
J. Additional Descriptions for Materials Listed Above <b>PUMPED OUT 500 gallon tank last containing</b> <b>heating oil. Tank contains 400 gallons of solids.</b> <b>Tank inerted with dry ice for transport.</b> <b>PROFILE #A0753</b>						K. Handling Codes for Wastes Listed Above	
						a. <b>01/03</b>	b.
						c.	d.
15. Special Handling Instructions and Additional Information							
<b>JOB #7432</b>				<b>JOB SITE: ROY POWLEN</b>			
<b>24 Hr. Emergency Contact: H &amp; H # (415) 543-4835</b>				<b>2939 Summitt Street</b>			
<b>APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.</b>				<b>Oakland, California</b>			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name <b>ERNESTO BERNABE</b>				Signature <i>Ernesto Bernabe</i>		Month Day Year <b>0 4 2 9 9 1</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name <b>DAVID E. RIGSBY</b>				Signature <i>David Rigby</i>		Month Day Year <b>0 4 2 9 9 1</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name				Signature		Month Day Year	

90542183  
 GENERATOR  
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-9802; WITHIN CALIFORNIA CALL 1-800-852-7550

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. CAIC0101015176101818		Manifest Document No. 010101011		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>MR. ROY POWLEN P. O. Box 1544, Lafayette, Ca. 94549</b>						A. State Manifest Document Number <b>90542183</b>			
4. Generator's Phone (415) 283-1326						B. State Generator's ID			
5. Transporter 1 Company Name <b>H &amp; H Ship Service Company</b>						6. US EPA ID Number ICAD01010477111618		C. State Transporter's ID 200510	
7. Transporter 2 Company Name						8. US EPA ID Number		D. Transporter's Phone (415) 543-4835	
9. Designated Facility Name and Site Address <b>H &amp; H Ship Service Company 220 China Basin Street San Francisco, CA 94107</b>						10. US EPA ID Number ICAD01010477111618		E. State Transporter's ID	
								F. Transporter's Phone	
								G. State Facility's ID	
								H. Facility's Phone (415) 543-4835	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
a. <b>RESIDUE HEATING OIL TANK NON RCRA HAZARDOUS WASTE SOLID</b>						0101	TIP	01013010	P
b.									State 512 EPA/Other
c.									State EPA/Other
d.									State EPA/Other
J. Additional Descriptions for Materials Listed Above <b>PUMPED OUT 300 gallon tank last containing heating oil. Tank inerted with dry ice for transport. PROFILE #A0753</b>						K. Handling Codes for Wastes Listed Above			
						a.	01	b.	c.
						c.		d.	
15. Special Handling Instructions and Additional Information									
JOB #7474 24 Hr. Emergency Contact: H & H #(415) 543-4835 APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR					JOB SITE: ROY POWLEN 2939 Summitt Street Oakland, California				
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name <b>ERNESTO BERRABE</b>					Signature <i>[Signature]</i>			Month Day Year 10/1/21/91	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name <b>LANCE D. SMITH</b>					Signature <i>[Signature]</i>			Month Day Year 10/1/21/91	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name					Signature			Month Day Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name					Signature			Month Day Year	

white - env. health  
 yellow - facility  
 pink - files

# ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200  
 Oakland, CA 94621  
 (415) 271-4320

## Hazardous Materials Division Inspection Form

Site ID# \_\_\_\_\_ Site Name Key Pawns Today's Date 9/29/91  
 Site Address 2939 Summit EPA ID# \_\_\_\_\_  
 City Oakland Zip 94609 Phone \_\_\_\_\_

MAX Amt. Stored > 500lbs/55g/200cf?  Y  N  
 Hazardous Waste generated per month? \_\_\_\_\_

- Inspection Categories:**
- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
  - II. Business Plans, Acute Hazardous Materials
  - III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

- LA GENERATOR (Title 22)**
- 1. Waste ID \* 66471
  - 2. EPA ID 66472
  - 3. > 90 days 66508
  - 4. Label dates 66508
  - 5. Biennial 66493
- 
- Manifest**
- 6. Records 66492
  - 7. Correct 66484
  - 8. Copy sent 66492
  - 9. Exception 66484
  - 10. Copies Rec'd 66492
- 
- Misc.**
- 11. Treatment 66371
  - 12. On-site Disp. (H.S.&C.) 26189.5
  - 13. Ex Haz. Waste 66570
- 
- Prevention**
- 14. Communications 67121
  - 15. Aisle Space 67124
  - 16. Local Authority 67126
  - 17. Maintenance 67120
  - 18. Training 67105
- 
- Conf'n. Gen'ly**
- 19. Prepared 67140
  - 20. Name List 67141
  - 21. Copies 67141
  - 22. Emg. Coord. Trng. 67144
- 
- Containers, Tanks**
- 23. Condition 67241
  - 24. Compatibility 67242
  - 25. Maintenance 67243
  - 26. Inspection 67244
  - 27. Buffer Zone 67246
  - 28. Tank Inspection 67259
  - 29. Containment 67245
  - 30. Safe Storage 67261
  - 31. Freeboard 67257
- 
- LB TRANSPORTER (Title 22)**
- 32. Applic./Insurance 66428
  - 33. Comp. Cert./CHP Insp. 66448
  - 34. Containers 66465
- 
- Manifest**
- 35. Vehicles 66465
  - 36. EPA ID # 66531
  - 37. Correct 66541
  - 38. HW Delivery 66543
  - 39. Records 66544
- 
- Conf'n's**
- 40. Name/ Covers 66545
  - 41. Recyclables 66800

**Comments:**

UGT Removal - found

- 500 gal UGT Heating fuel oil

- 100 gal oil @ H2O substituted dist

4/26/91

- UGT manifest # 90542212

- 1 sample taken 2 ft below tank bottom at fill line

- 1 sample taken from steel pipe

LEL = 0%

Rev 6/88

Contact: ERNIE BERNABE  
 Title: CONTRACTOR  
 Signature: [Signature]

Inspector: \_\_\_\_\_  
 Signature: [Signature]

ROY Y. POWLAN, M.D., J.D.

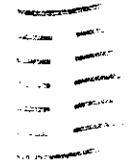
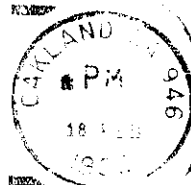
~~2939 SUMMIT STREET~~

~~OAKLAND, CALIFORNIA 94609~~

PO BOX 1544

Lafayette Ca

94549



Alameda Co. Dept of  
Environmental Health.

Att: Susan Hugo.

80 - Swan Way,  
Oakland, Ca. 94621

AP

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY  
DEPARTMENT OF ENVIRONMENTAL HEALTH  
HAZARDOUS MATERIALS DIVISION

80 SWAN WAY, ROOM 200  
OAKLAND, CA 94621  
PHONE NO. 415/271-4320

ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH  
470 - 7th Street, 1st Floor  
Oakland, CA 94612  
Telephone (415) 575-7337

These plans have been reviewed and found to be in accordance with the requirements of State and local laws, regulations, codes, ordinances and local health orders. The Department of Environmental Health has no objection to the issuance of a permit for the construction of the above described project. The permit shall be issued upon receipt of the required fee and the necessary conditions of the permit shall be observed with the following:

1. A copy of the plans shall be submitted to the local health officer for review and approval. The local health officer shall have the authority to require any changes to the plans if such changes are necessary to comply with local laws, regulations, codes, ordinances and local health orders. The local health officer shall be notified prior to the start of construction.

THIS IS A CONTRACTUALITY FOR NO GUARANTEE OF THE DESIGN.

*please note change made on page 3 & 4.  
Susan J. Hays  
4/19/91*

Project # 592388  
Fee Paid \$432.00  
Date 3/29/91

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

- Business Name N-A  
Business Owner ROY POWLEN
- Site Address 2939 SUMMIT STREET  
City OAKLAND Zip 94609 Phone \_\_\_\_\_
- Mailing Address P.O. BOX 1544  
City LAFAYETTE Zip 94549 Phone 415-283-1326
- Land Owner ROY POWLEN  
Address P.O. BOX 1544 City, State LAFAYETTE, CA Zip 94549
- EPA I.D. No. CAC0000576088
- Contractor BERNABE AND BRINKER, INC  
Address 1281-30th STREET  
City OAKLAND, CA. 94608 Phone 415-451-3482  
License Type A-HAZARDOUZ ID# 610617
- Consultant BERNABE AND BRINKER, INC  
Address 1281-30th STREET  
City OAKLAND, CA. 94608 Phone 415-451-3482

*page 549-5222*

8. Contact Person for Investigation

Name ERNESTO F. BERNABE JR Title CONTRACTOR  
Phone 415-451-3482

9. Total No. of Tanks at facility 1

10. Have permit applications for all tanks been submitted to this office? Yes [ ] No [ X ]

11. State Registered Hazardous Waste Transporters/Facilities

a) Product/Waste Tranporter

Name H AND H EPA I.D. No. 94-1151921  
Address 220 CHINA BASIN  
City SAN FRANCISCO State CA Zip 94107

b) Rinsate Transporter

Name \_\_\_\_\_ EPA I.D. No. \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

c) Tank Transporter

Name H AND H EPA I.D. No. 94-1151921  
Address 220 CHINA BASIN  
City SAN FRANCISCO State CA. Zip 94107

d) Tank Disposal Site

Name H AND H EPA I.D. No. 94-1151921  
Address 220 CHINA BASIN  
City SAN FRANCISCO State CA Zip 94107

e) Contaminated Soil Transporter

Name \_\_\_\_\_ EPA I.D. No. \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_



12. Sample Collector

Name TANK PROTECT ENGINEERING INC. OF NORTHERN CALIFORNIA  
 Company TANK PROTECT ENGINEERING INC. OF NORTHERN CALIFORNIA  
 Address 2821 WHIPPLE ROAD  
 City UNION CITY State CA Zip 94587 Phone 415-429-8088

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
300 GALLON	EMPTY Heating fuel oil	<del>NONE</del> soil  and groundwater if present	One sample beneath each SOUTHWEST SIDE OF THE DRIVEWAY - tank end - no deeper than 2 feet below the tank bottom.

\* One sample must be collected for every 20 feet of piping

\* Stockpiled soil must be characterized placed on bermed plastic & must be completely covered by plastic sheeting.

14. Have tanks or pipes leaked in the past? Yes [ ] No [X]

If yes, describe. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

15. NFPA methods used for rendering tank inert? Yes [X] No [ ]

If yes, describe. CO2  
 \_\_\_\_\_  
 \_\_\_\_\_

\* An explosion proof combustible gas meter shall be used to verify tank inertness.

16. Laboratories

Name SEQUIA LABORATORIES  
 Address 680 CHESAPEAKE  
 City REDWOOD CITY State CA. Zip 94063

State Certification No. 145

Before tanks are pumped out & inerted, all associated piping must be flushed out into the tanks. All accessible piping must be removed. Inaccessible piping must be plugged.

17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought:	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
TPH-D ✓ BTX&E	GC FID (3538) 8020 or 8240	3550 8020 or 8240
<p>The following WQCB detection limits must be met:</p> <p>TPH-D - 1.0 ppm (soil) - 50.0 ppb (water)</p> <p>BTX&amp;E - 5.0 ppb (soil) - 0.5 ppb (water)</p>		

18. Submit Site Safety Plan

19. Workman's Compensation: Yes  No

Copy of Certificate enclosed? Yes  No  IT'S BEEN MAILED

Name of Insurer STATE WORKMENS COMP.

20. Flot Plan submitted? Yes  No

21. Deposit enclosed? Yes  No

22. Please forward to this office the following information within 60 days after receipt of sample results.

- a) Chain of Custody Sheets
- b) Original Signed Laboratory Reports
- c) TSD to Generator copies of wastes shipped and received
- d) Attachment A summarizing laboratory results

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel and safety.

I will notify the Department of Environmental Health at least two (2) working days (48 hours) after approval of this closure plan in advance to schedule any required inspections. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Signature of Contractor

Name (please type) \_\_\_\_\_

Signature *[Handwritten Signature]*

Date 3-18-91

Signature of Site Owner or Operator

Name (please type) \_\_\_\_\_

Signature *[Handwritten Signature]*

Date 3-18-91

NOTES:

1. Any changes in this document must be approved by this Department.
2. Any leaks discovered must be submitted to this office on an underground storage tank unauthorized leak/contamination site report form within 5 days of its discovery.
3. Three (3) copies of this plan must be submitted to this Department. One copy must be at the construction site at all times.
4. After approval of plan, notification of at least two (2) working days (48 hours) must be given to this Department prior to removal of tank(s).
5. A copy of your approved plan must be sent to the landowner.
6. Triple rinse means that:
  - a) Final rinse must contain less than 100 ppm of Gasoline (EPA method 8020 for soil, or EPA method 602 for water) or Diesel (EPA method 418.1). Other methods for halogenated volatile organics (EPA method 8010 for soil, EPA method 601 for water) may be required. The composition of the final rinse must be demonstrated by an original or facsimile report from a laboratory certified for the above analyses.
  - b) Tank interior is shown to be free from deposits or residues upon a visual examination of tank interior.
  - c) Tank should be labelled as "tripled rinsed; laboratory certified analysis available upon request" with the name and address of the contractor.

If all the above requirements cannot be met, the tank must be transported as a hazardous waste.

7. Any cutting into tanks requires local fire department approval.

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

ATTACHMENT A  
SAMPLING RESULTS

Tank or Area	Contaminant	Location & Depth	Results (specify units)

## INSTRUCTIONS

2. SITE ADDRESS

Address at which closure or modification is taking place.

5. EPA I.D. NO.

This number may be obtained from the State Department of Health Services, 916/324-1781.

6. CONTRACTOR

Prime contractor for the project.

7. OTHER

List professional consultants here.

12. SAMPLE COLLECTOR

Persons who are collecting samples.

13. SAMPLING INFORMATION

Historic contents - the principal product(s) used in the last 5 years.

Material sampled - i.e., water, oil, sludge, soil, etc.

16. LABORATORIES

Laboratories used for chemical and geotechnical analyses.

17. CHEMICAL METHODS:

All sample collection methods and analyses should conform to EPA or DHS methods.

Contaminant - Specify the chemical to be analyzed.

Sample Preparation Method Number - The means used to prepare the sample prior to analyses - i.e., digestion techniques, solvent extraction, etc. Specify number of method and reference if not an EPA or DHS method.

Analysis Method Number - The means used to analyze the sample - i.e., GC, GC-MS, AA, etc. Specify number of method and reference if not a DHS or EPA method.

NOTE:

Method Numbers are available from certified laboratories.

18. SITE SAFETY PLAN

A plan outlining protective equipment and additional specialized personnel in the event that significant amount of hazardous materials are found. The plan should consider the availability of respirators, respirator cartridges, self-contained breathing apparatus (SCBA) and industrial hygienists.

19. ATTACH COPY OF WORKMAN'S COMPENSATION

20. PLOT PLAN

The plan should consists of a scaled view of the facility at which the tank(s) are located and should include the following information:

- a) Scale
- b) North Arrow
- c) Property Line
- d) Location of all Structures
- e) Location of all relevant existing equipment including tanks and piping to be removed
- f) Streets
- g) Underground conduits, sewers, water lines, utilities
- h) Existing wells (drinking, monitoring, etc.)
- i) Depth to ground water
- j) All existing tanks in addition to the ones being pulled

rev. 9/88  
mam



# BERNABE AND BRINKER INCORPORATED

1 2 8 1

30TH ST.

OAKLAND

CALIFORNIA

9 4 6 0 8

415 • 451 • 3482

415 • 451 • 5884

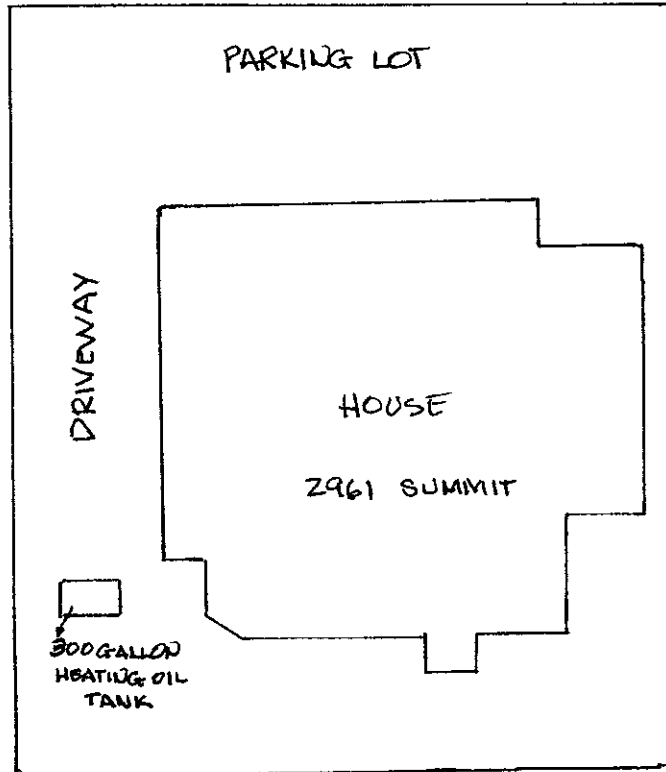
FAX 415 • 839 • 4344

LICENSE #A587322

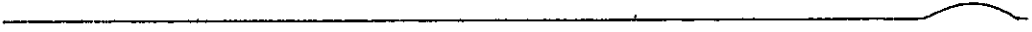
GASOLINE STATION  
CONSTRUCTION

MAINTENANCE

HAZARDOUS WASTE



← TO 29TH STREET SUMMIT ROAD → TO 30TH STREET





**BERNABE & BRINKER, INC.**  
**SITE SAFETY PLAN**

Site 2939 SUMMIT, OAKLAND Project#                     

Original Site Safety Plan: Yes() No() Revision#                     

Plan Prepared by ERNIE BERNABE Date 3-25-91

Plan Approved by JIM BRINKER Date 3-26-91

Please respond to each item as completely as possible.  
Where an item is not applicable, please mark "N/A."

**1. KEY PERSONNEL AND RESPONSIBILITIES**

(Include name, telephone number, health and safety responsibilities, i.e., project manager - Joe Smith - responsible for supervision of all site activities.)

Project Manager ERNESTO F. BERNABE JR

Site Safety Manager ERNESTO F. BERNABE JR

Alternate Site Safety Manager JAMES E. BRINKER

Field Team Members WILLIE BOWEN, GABRIEL LAGOS

\_\_\_\_\_

\_\_\_\_\_

Agency Reps: [Please specify by one of the following symbols: Federal:(F), State:(S), Local:(L), Contractor(s):(C)]

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**B&B SITE SAFETY PLAN**

**2. JOB HAZARD ANALYSIS:**

Hazard Level: High( ) Moderate( ) Low(X) Unknown ( )

Hazard Type: Liquid(X) Solid( ) Sludge( ) Vapor/Gas(X)

Known or suspected hazardous materials present on site:  
HEATING OIL

---

Characteristics of hazardous materials included above:

(Complete for each chemical present:)

---

**MATERIAL #1:** Corrosive( ) Ignitable(X) Toxic( )  
Reactive( ) Volatile( ) Radioactive( )  
Biological Agent( )

Exposure Routes: Inhalation(X) Ingestion(X) Contact(X)

---

**MATERIAL #2:** Corrosive( ) Ignitable( ) Toxic( )  
Reactive( ) Volatile( ) Radioactive( )  
Biological Agent( )

Exposure Routes: Inhalation( ) Ingestion( ) Contact( )

---

**MATERIAL #3:** Corrosive( ) Ignitable( ) Toxic( )  
Reactive( ) Volatile( ) Radioactive( )  
Biological Agent( )

Exposure Routes: Inhalation( ) Ingestion( ) Contact( )

---

**MATERIAL #4:** Corrosive( ) Ignitable( ) Toxic( )  
Reactive( ) Volatile( ) Radioactive( )  
Biological Agent( )

Exposure Routes: Inhalation( ) Ingestion( ) Contact( )

**B&B SITE SAFETY PLAN**

**2.2 JOB-SPECIFIC HAZARDS**

For each labor category, specify the possible hazards based information available (i.e., Task-driller, Hazards-trauma from drill rig accidents, etc. ) For each hazard, indicate steps to be taken to minimize the hazard.

JACK HAMMER AND AIR COMPRESSOR NOISE(USE EARPLUGS)

---

---

---

The following additional hazards are expected on site (i.e., snake-infested area, extreme heat, etc.):

---

---

---

Measures to minimize the effects of the additional hazards are:

---

---

---

**3. MONITORING PLAN**

**3.1 (a) Air Monitoring Plan**

Action levels for implementation of air monitoring. Action levels should be based on published data available on contaminants of concern. Action levels should be set by persons experienced in industrial hygiene.

Level (i.e., .5ppm)	Action Taken (i.e., commence perimeter monitoring)
<hr/>	NA
<hr/>	<hr/>
<hr/>	<hr/>

**B&B SITE SAFETY PLAN**

**(b) Air Monitoring Equipment**

Outline the specific equipment to be used, calibration method, frequency of monitoring, locations to be monitored, and analysis of samples (if applicable):

NA

---

---

---

If air monitoring is not to be implemented for this site, explain why:

WE ARE NOT GOING INTO THE TANK, WE ARE JUST

---

REMOVING AND DISPOSING THE TANK

---

---

**3.2 Personnel Monitoring**

(Include hierarchy of responsibilities in decision-making on the site).

NA

---

---

---

---

**3.3 Sampling Monitoring**

(a) Techniques used for sampling NA

---

---

---

---

---

**B&B SITE SAFETY**

(b) Equipments used for sampling\_\_\_\_\_

---

---

---

(c) Maintenance and calibration of equipments\_\_\_\_\_

---

---

---

4. **PERSONAL PROTECTIVE EQUIPMENT (PPE)**  
Equipment used by employees for the site tasks and operations being conducted. Be specific (i.e., hard hat, impact resistance goggles, other protective glove, etc.).

RUBBER GLOVES, EAR PLUGS, RUBBER BOOTS, SAFETY GLASSES,  
PROTECTIVE CLOTHING, HARD HATS

5. **SITE CONTROL AND SECURITY MEASURES**  
The following general work zone security guidelines should be implemented:

- Work zone shall be barricaded and caution tape be used.
- Excavations shall be closed when drilling and sampling activities are not actually taking place.
- No excavations shall be left unattended. Visitors will not enter the work zone unless they have attended a project safety briefing.
- Persons will not leave the work zone without first passing through the decontamination zone.

## **B&B SITE SAFETY PLAN**

### **6. DECONTAMINATION PROCEDURE**

List the procedures and specific steps to be taken to decontaminate equipment and PPE.

ALL EQUIPMENTS HAS TO BE WASH, SOAP AND RINSE.

---

PROTECTIVER CLOTHING THAT HAD BEEN CONTAMINATED

---

HAS TO BE DISPOSE OF PROPERLY.

---

### **7. TRAINING REQUIREMENTS**

Prior to mobilization at the job site, employees will be attend a safety briefing. The briefing will include the nature of the wastes and the site, donning personal protection clothes and equipment, decontamination procedures and emergency procedures.

### **8. MEDICAL SURVEILLANCE REQUIREMENTS**

If any task requires a very high personnel protection level, personnel shall provide assurances that they have received a physical examination and they are fit to do the task. Also, personnel will be instructed to look for any symptom of heat stress, heat stroke, heat exhaustion, or any other unusual symptom. If there is any report of that, it will be immediately be followed through, and appropriate action will be taken.

### **9. STANDARD OPERATION PROCEDURES**

Bernabe & Brinker, Inc. is responsible for all Bernabe & Brinker, Inc. employees on the site. Each contractor shall provide all the equipment necessary to meet safe operation practices and procedures for their personnel on site, and be responsible for the safety of their workers.

A. "Three Warning" system is utilized to enforce compliance with Health and Safety procedures practices which will be implemented at the site for worker safety:

\*Eating, drinking, chewing gum, or tobacco, and smoking will be allowed only in designated areas.

**B&B SITE SAFETY PLAN**

\*Wash facilities will be utilized by workers in the work areas before eating, drinking, or use of toiled facilities.

\*Containers will be labeled, identifying them as waste, debris, or contaminated clothing.

\*All excavation/drilling work will comply with regulatory agencies requirement.

\*All site personnel will be required to wear hard hats and advised to take adequate measures for self-protection.

\*Any other action which is determined to be unsafe by the site safety officer.

**10. CONFINED SPACE ENTRY PROCEDURES**

No one is allowed to enter any confined space operation without proper safety measures. Specifically, in case of an excavated Tank Pit no one should enter at no time.

**11. EMERGENCY RESPONSE PLAN**

Fire extinguisher(s) will be on site prior to excavation. Relevant phone numbers are:

Person	Title	Phone Number
ERNES'TO BERNABE	Project Manager	415-451-3482
OAKLAND	Fire	911 or 444-1616
OAKLAND	Police	911 or 273-3211
ACME	Ambulance	911 or 653-6622
	Poison Control Center	(800) 523-2222
	Site Phone	NONE
	Nearest Off-Site Number	415-5191654
	Medical Advisor	
ROY POWLEN	Client Contact	415-283-1326

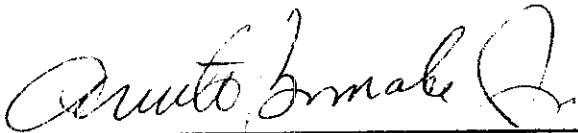
**B&B SITE SAFETY PLAN**

U.S. EPA - ERT.....(201) 321-6660  
Chemtrec.....(800) 424-9300  
Centers for Disease Control.....Day:  
(404) 329-3311  
Night:  
(404) 329-2888  
National Response Center.....(800) 424-8802  
Superfund/RCRA Hotline.....(800) 424-8802  
TSCA Hotline.....(800) 424-9065  
National Pesticide Information Services....(800) 845-7633  
Bureau of Alcohol, Tobacco, and Firearms...(800) 424-9555

**HEALTH AND SAFETY  
COMPLIANCE STATEMENT**

I, ERNESTO F. BERNABE JR, have received and read a copy of the project Health and Safety Plan.

I understand that I am required to have read the aforementioned document and received proper training under the occupational Safety and Health Act (29 CFR, Part 1910.120) prior to conducting site activities at the site.



**Signature**

MARCH 25, 1991

**Date**

NEAREST HOSPITAL PERALTA HOSPITAL

TEL.NO. 420-6091



**STATE  
COMPENSATION  
INSURANCE  
FUND**

P.O. BOX 807, SAN FRANCISCO, CA 94101-0807

**CERTIFICATE OF WORKERS' COMPENSATION INSURANCE**

91 MAR 22 AM 11:08

MARCH 21, 1991

POLICY NUMBER: 1183362 - 91  
CERTIFICATE EXPIRES: 3-1-92

ALAMEDA COUNTY HEALTH SERVICES AGENCY  
DEPT. OF ENVIRONMENTAL HEALTH,  
HAZARDOUS MATERIAL DIVISION  
80 SWAN WAY #200  
OAKLAND, CA 94621

JOB: 2939 SUMMIT ST.  
OAKLAND, CA 94609

This is to certify that we have issued a valid Workers' Compensation insurance policy in a form approved by the California Insurance Commissioner to the employer named below for the policy period indicated.

This policy is not subject to cancellation by the Fund except upon ten days' advance written notice to the employer.

We will also give you TEN days' advance notice should this policy be cancelled prior to its normal expiration.

This certificate of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or other document with respect to which this certificate of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions and conditions of such policies.

  
PRESIDENT

EMPLOYER

ERNESTO F. BERNAEE JR. - GLORIA F. BRINKER  
DEA: B & B ASSOCIATED SERVICES LC.  
1281 -- 30TH ST.  
OAKLAND  
CA 94608

**STATE**  
COMPENSATION  
INSURANCE  
**FUND**

91 MAY 29 AM 11:46

IN REPLY REFER TO:

MAY 17, 1991

COUNTY OF ALAMEDA  
ATTN: HEALTH CARE  
80 SWAN WAY, ROOM 200  
OAKLAND  
CA 94621

CERTIFICATE OF WORKERS\*  
COMPENSATION INSURANCE  
CANCELLATION NOTICE

RE: CERTIFICATE DATED MARCH 26, 1991.

THE WORKERS\* COMPENSATION INSURANCE POLICY FOR THE EMPLOYER  
NAMED BELOW HAS BEEN CANCELLED EFFECTIVE JUNE 3, 1991 AT  
12:01 A.M.

IF YOU HAVE ANY QUESTIONS REGARDING THIS NOTICE, PLEASE  
CONTACT THE EMPLOYER NAMED BELOW

**EMPLOYER:**

BERNABE AND BRINKER, INC.  
1281 - 30TH ST  
OAKLAND  
CALIF., 94608  
1183362 - 91

CUSTOMER SERVICES UNIT  
OAKLAND DISTRICT OFFICE  
(415) 577-3000

1275 Market Street • San Francisco, CA 94103-1410  
Mailing Address: P.O. Box 807 • San Francisco, CA 94101-0807

REMARKS			REMARKS		REMARKS	
Date	By		Date	By	Date	By
5/11/92	SH	Letter out - approving work plan.				
5/20/92	SH	Look to dr. Bowler re Workplan to include granulation investigations	6/4/92	SH		
		Mailed copy of W.P. to dr. Bowler				
5/29/92	SH	Telephone conversation w/ RP + consultant re: soil boring & MW installation				
6/4/92	SH	Review work plan for soil boring & MW installation				
6/3/92	SH	Talked to missa - re: schedule of 2 soil boring advance on east pit - boring will be advanced to 20 ft depth				
		The first 2 samples (5 ft & 10 ft) will be field tested w/				
		CHS equipment soil filled material - oversized material to 15 ft deep & the sample at 15 ft & 20 ft will be analyzed at the lab.				
		Total of 4 samples in the boring				

Have not heard from RP re: workplan for MW installation if not proceed.

Advancement of 2 soil borings (to 20 ft) at 2 excavations pit backfilled w/ clean fill.

5 samples to be analyzed at state certified lab.

FILE OR PER NO.	ENVELOPE	PLAN REVIEW	By	Date	By	Date	By	Date
	No. _____ of _____	\$ 432.00 Rec'd.	JHU	3/18/91				
<input type="checkbox"/> OWNER	ROY POWLEN	No. 592380 Plans Rec'd.	BOO	3/29/91	POOL	Pre-Concrete/Gunite		Pre-Covering
Address	2939 SUMMIT ST. OAKLAND, CA 94609 Phone 283-1326	Plans Approved			Pre-Plaster			
<input type="checkbox"/> Contractor	BERNABE & BRINKER, INC.	Layout Made			Final			
Address	1281-30TH ST. OAKLAND, CA 94608 Phone 451-3482	Rejected			EXCAVATION	Septic Tank		Final
<input type="checkbox"/> OTHER (Specify)		Applicant Notified			Absorption Field			
Address		Plans Returned			Absorption Bed			
<input checked="" type="checkbox"/> CONTACT FOR INVESTIGATION		Permit Issued			House Sewer			
		CONSTRUCTION PROGRESS ACCEPTANCE			FINAL	Septic Tank		
		Pre-Plaster/drywall			Absorption Field			
		Pre-Final			Absorption Bed			
		Final			OTHER			

4250

XR		REMARKS		LOCATION
Date	By	Date	By	
		2/22/92	SH	draft letter to dr. powlen re: review of reports, file
* 4/19/91	JA	2/28/92	SH	Letter out - picked up by dr. powlen @ 11:00 AM
4/26/91	EH			Business with him contents of letter.
7/29/91	SH			Telephone conversation of dr. powlen regarding additional work to be done at the site.
7/29/91	SH	3/4/92	SH	Phone conversation of Jerry de la Vachia (Excitral) re: letter, defects etc.
2/18/92	SH	5/4/92	SH	Review work plan submitted by RESNA (Missie road) approved 2 borings at excavation pit to so. 2nd pt. day.
				continued at back

Project # 592380  
 Fee Paid \$432.00  
 Date 3/29/91  
 \* Project # 592414  
 Fee Paid \$210.00  
 Date 5/1/91

the additional work required before case closes