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November 9, 1998

*Subsequently revised  
11/10/98 (dated 11/9/98)*

WORKPLAN  
for  
STOCKPILE MANAGEMENT  
and  
SITE RESTORATION

Olympic Service Station  
1436 Grant Avenue  
San Lorenzo, California

Prepared for:

Mr. George Jaber  
2801 Encinal Avenue  
Alameda, CA 94501

Prepared by:

AQUA SCIENCE ENGINEERS, INC.  
208 West El Pintado Road  
Danville, CA 94526



*DM. self*



November 9, 1998

Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor  
Alameda, CA 94502

ATTENTION: Mr. Scott Seery

SUBJECT: WORKPLAN FOR STOCKPILED SOIL MANAGEMENT AND SITE  
RESTORATION  
Olympic Service Station  
1436 grant Avenue  
San Lorenzo, CA

Dear Mr. Seery:

Pursuant to your agency's request/requirements as detailed in your letter dated October 21, 1998, Aqua Science Engineers, Inc. (ASE) proposes to perform the following scopes of work on behalf of the subject site's property owner, Mr. Jaber.

### **SCOPE OF WORK FOR TASK I - STOCKPILE SAMPLING**

In order to assess the future use of the estimated 200 cubic yards of stockpiled soil (generated during gas and diesel-fuel UST removal activities, ASE will determine its petroleum-hydrocarbon content by performing the following tasks. Four (4) soil samples will be collected from the soil stockpiles generated during the removal of the gasoline and diesel-fuel USTs, see Figure 1.

The discrete soil samples will be collected by hand shoveling into the stockpile to a depth that represents the interior of the soil, not affected by the sun, wind or recent rains. The soil samples will be collected in brass sample tubes covered on each end by teflon tape and plastic end caps. Each sample will be discretely labeled and placed within an ice chest containing wet ice for transport under chain of custody procedures to Chromalab, Inc. of Pleasanton, California, a CAL-EPA certified analytical laboratory (ELAP #1094). Each of these samples will be analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 8015, total petroleum hydrocarbons as diesel-fuel (TPH-D) by EPA Method 8015, benzene, toluene, ethylbenzene and total xylenes (BTEX) and methyl-

Jaber Property Workplan, November 1998

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tertiary butyl ether (MTBE) by EPA Method 8020, and total lead by EPA Method 6010.

The results of the analytical testing, due in five working days after the laboratory's receipt of the samples, will determine if the soil stockpiles generated during the removal of the gasoline and diesel-fuel USTs can be re-used at the site as backfill material or if they will have to be disposed of at an off-site landfill facility. It is assumed that the soil is suitable as backfill material if the TPH-G and TPH-D concentrations are less than 100 parts per million (ppm). Should the analytical results indicate unfavorable concentrations of petroleum hydrocarbons, the soil will be profiled into a local non-hazardous landfill facility for recycling. Upon completion of these sampling activities, ASE will cover and secure the stockpiles.

The results will be tabulated and faxed to Mr. Seery upon their receipt by ASE. ASE will request guidance in determining the fate of these soil stockpiles.

#### **SCOPE OF WORK FOR TASK II - OVEREXCAVATION AND CONFIRMATION SOIL SAMPLING**

The soil beneath the former waste-oil UST and beneath two of the gasoline dispensers will require overexcavation due to the high levels of compounds detected after the UST and dispensers were removed, see Figure 1.

In regard to the waste-oil UST, the bottom of the excavation needs to be excavated to a depth where the high levels of hazardous lead, oil & grease and petroleum hydrocarbons no longer exist. Based on the data within the Reese Construction UST Closure Report, it is assumed that the waste-oil UST will need to be excavated to a depth of approximately 10-feet below ground surface. When it appears that an appropriate depth has been reached, based on visual and odor inspection, a confirmation soil sample will be collected by ASE from the bottom of the excavation. The overexcavated spoils will be mixed into the existing waste-oil spoils. Then ASE will collect a composite soil sample from the stockpiled soil for analyses. The bottom of excavation soil samples will be collected directly from the backhoe bucket; the stockpiled soil samples will be collected by hand shoveling into the stockpile to a depth that represents the interior of the soil. The soil samples will be collected in brass sample tubes covered on each end by teflon tape and plastic end caps. Each sample will be discretely labeled and placed within an ice chest containing wet ice for

transport under chain of custody procedures to Chromalab, Inc. of Pleasanton, California, a CAL-EPA certified analytical laboratory (ELAP #1094). The afore-mentioned soil samples will require the following analyses: TPH-G, TPH-D, BTEX, MTBE, oil & grease, volatile organic compounds (VOCs) by EPA Method 8010, semi-volatile organic compounds (SVOCs) by EPA Method 8270, and LUFT 5 metals. The stockpiled soil will also be analyzed for toxicity characteristic leaching procedure (TCLP) lead, and waste extraction test (WET) lead by EPA Methods 6010. These analytical results will be available in five working days. The analytical results of the stockpiled soil will determine the final disposition of this soil. Presently, the waste-oil stockpiled soil contains hazardous levels of lead that could require out-of-state disposal.

In regard to the gasoline dispenser area, overexcavation should occur until a depth is reached where odors and staining no longer exist. A discrete soil sample will be collected from the bottom of each excavation and analyzed for TPH-G, TPH-D, BTEX, MTBE, and total lead. These analytical results will be available in five working days.

This workplan assumes that Reese Construction will be performing all of the overexcavation activities, under the direction of ASE personnel.

### **SCOPE OF WORK FOR TASK III – BACKFILLING**

Backfilling and compaction activities are to be completed by Reese Construction. Prior to mobilization for backfilling, it will have been determined by ASE which soil can be returned to the excavations, and which soil requires off-site disposal. Although it is likely that groundwater will exist in the bottom of the excavation(s), backfilling activities will most-likely not include dewatering unless proper compaction cannot be achieved.

### **SCOPE OF WORK FOR TASK IV – REPORT PREPARATION**

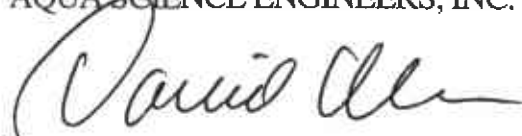
As noted in earlier sections of this workplan, ASE will be preparing tables of the analytical results upon receipt from the laboratory. These tables along with ASE's recommendations will be faxed immediately to Mr. Seery for his response/guidance. Upon completion of all the afore-mentioned work, ASE will prepare a complete report detailing the scopes of work completed, the results of the analytical testing, drawings and attachments.

ASE plans on beginning the work detailed in this workplan immediately upon receipt its verbal or written approval. Due to the inclement weather

that has been forecasted for the weeks ahead, it is ASE's intention to complete all of these tasks within the month of November 1998. Please call me at (925) 820-9391 should any questions or comments arise.

Respectfully submitted,

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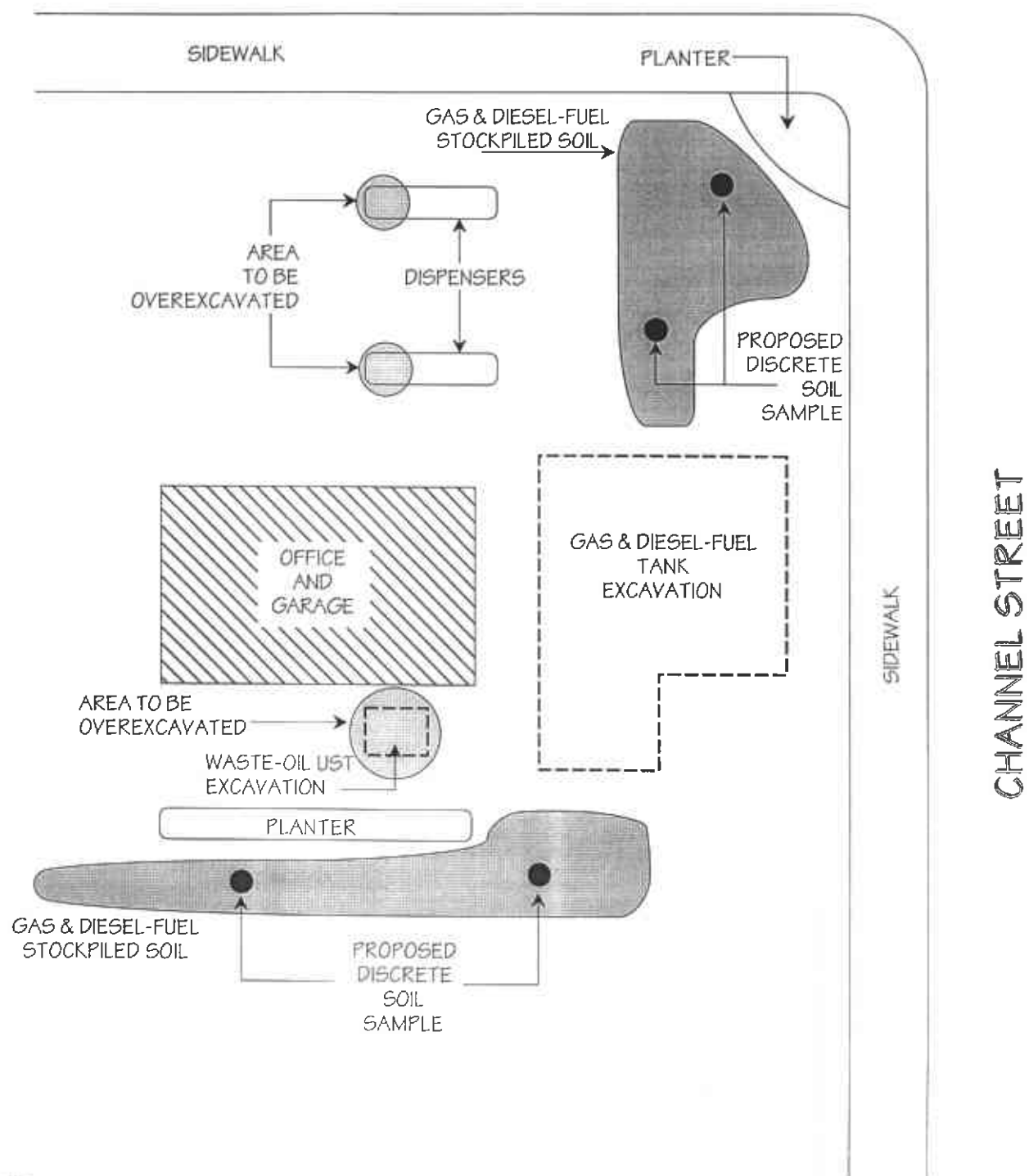


David Allen, R.E.A  
Senior Project Manager



Cc: Mr. George Jaber, Property Owner  
Mr. Chuck Headlee, RWQCB

# GRANT AVENUE



NORTH  
SCALE  
1" = 20'

<h2>SITE PLAN</h2>	
Olympic Service Station 1436 Grant Avenue San Lorenzo, California	
AQUA SCIENCE ENGINEERS, INC.	Figure 1



FAX BEING SENT BY:

Aqua Science Engineers, Inc.  
208 W. El Pintado Road  
Danville, CA 94526  
Phone (925) 820-9391  
Fax (925) 837-4853

DATE: ~~11-9-98~~ 11-10-98  
TO: SCOTT SEERY  
FROM: DAVE ALLEN  
NUMBER OF PAGES TO FOLLOW: 8

\*\*\*\*\*Please Phone If This Fax Is Received Incomplete\*\*\*\*\*

MESSAGE:

WE WOULD APPRECIATE YOUR  
EXPEDITIOUS REVIEW OF THE ATTACHED  
WORKPLAN. A VERBAL APPROVAL WOULD  
WORK FINE FOR US TO GET STARTED IMMEDIATELY.  
CALL IF YOU HAVE ANY ?'S OR COMMENTS.

Thanks,  
11-10-98 Dave  
Thanks,  
Dave



November 9, 1998

Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor  
Alameda, CA 94502

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REVISION

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Pursuant to your agency's request/requirements as detailed in your letter dated October 21, 1998, Aqua Science Engineers, Inc. (ASE) proposes to perform the following scopes of work on behalf of the subject site's property owner, Mr. Jaber.

#### SCOPE OF WORK FOR TASK 1 - STOCKPILE SAMPLING

In order to assess the future use of the estimated 200 cubic yards of stockpiled soil (generated during gas and diesel-fuel UST removal activities, ASE will determine its petroleum-hydrocarbon content by performing the following tasks. Four (4) composite soil samples (made from sixteen (16) discrete samples) will be collected from the soil stockpiles generated during the removal of the gasoline and diesel-fuel USTs, see Figure 1.

The composite soil samples will be collected by hand shoveling into the stockpile to a depth that represents the interior of the soil, not affected by the sun, wind or recent rains. The soil samples will be collected in brass sample tubes covered on each end by teflon tape and plastic end caps. Each sample will be discretely labeled and placed within an ice chest containing wet ice for transport under chain of custody procedures to Chromalab, Inc. of Pleasanton, California, a CAL-EPA certified analytical laboratory (ELAP #1094). Each of these samples will be analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 8015, total petroleum hydrocarbons as diesel-fuel (TPH-D) by EPA Method 8015, benzene, toluene, ethylbenzene and total xylenes (BTEX) and methyl-

Jaber Property Workplan, November 1998

-1-

208 W. El Pintado Road, Danville, California 94526 • 925-820-9391 • Fax 925-837-4853





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Prepared for:

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*composite*

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Jaber Property Workplan, November 1998

-1-

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TPH-G  
TPH-D  
BTEX  
O+G  
VOC  
SVOC  
metals  
OK

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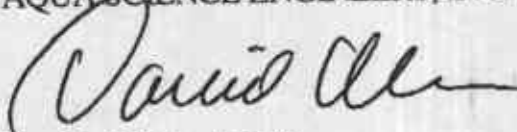
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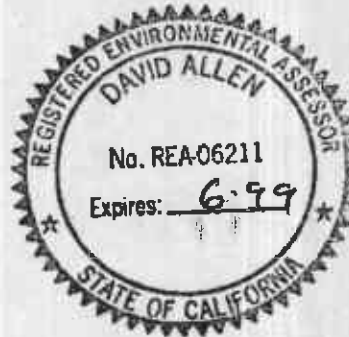
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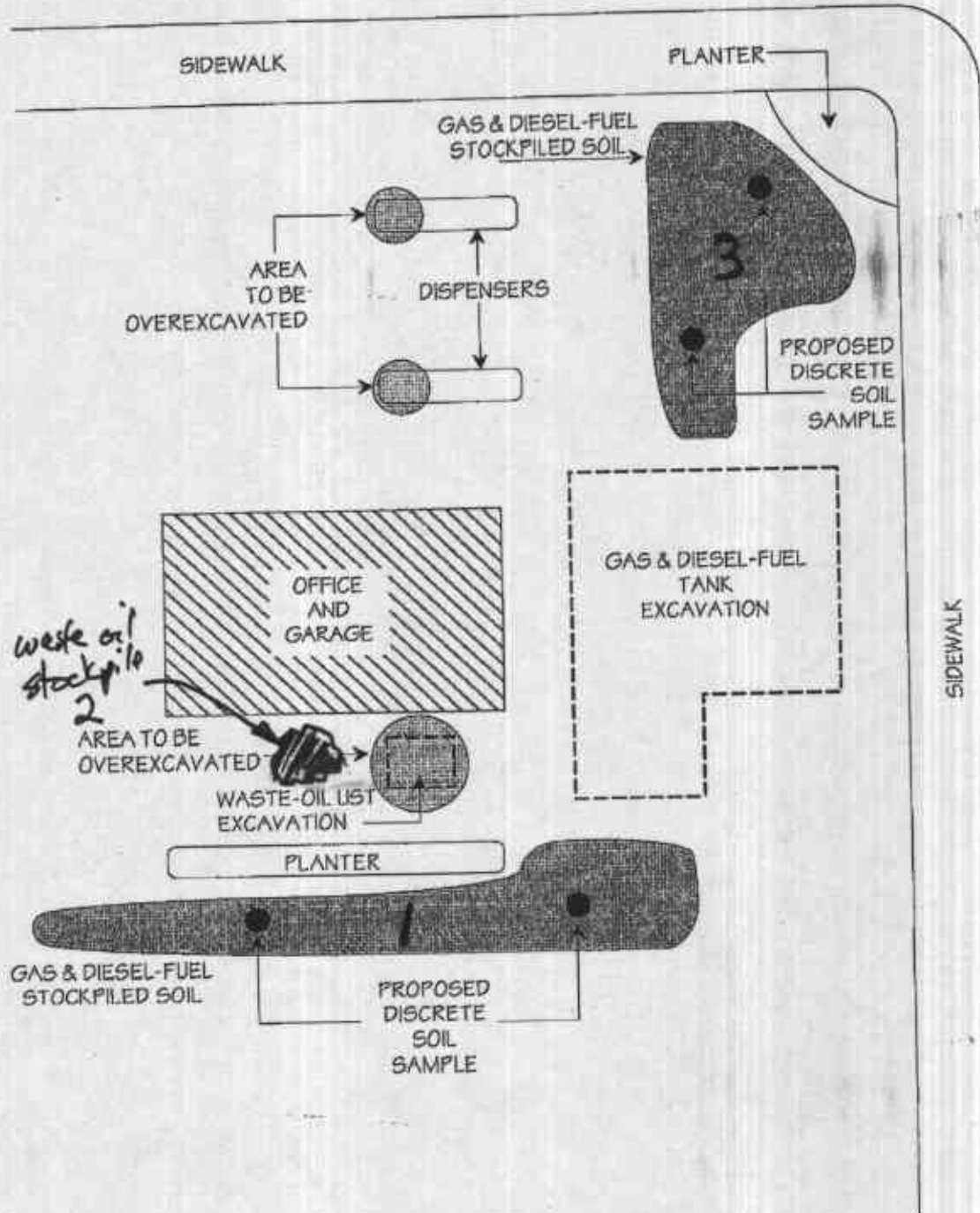
David Allen, R.E.A  
Senior Project Manager



Cc: Mr. George Jaber, Property Owner  
Mr. Chuck Headlee, RWQCB



# GRANT AVENUE



NORTH  
SCALE  
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## SITE PLAN

Olympic Service Station  
1436 Grant Avenue  
San Lorenzo, California

AQUA SCIENCE ENGINEERS, INC.

Figure 1