

March 6, 2003

Alameda County Health Care Services Agency  
Environmental Health Services – Environmental Protection  
1131 Harbor Bay Parkway  
Alameda, California 94502-6577

*Alameda County*  
*MAR 07 2003*  
*Environmental Health*

Attention: Mr. Barney Chan – Hazardous Materials Specialist

Subject: Report of Findings for Site Investigation  
A.A. Johnson & Son Inc. Facility  
1164 66<sup>th</sup> Street, Oakland, California  
Fuel Leak Case RO0000325

Dear Mr. Chan:

### **INTRODUCTION AND BACKGROUND**

Stellar Environmental Solutions, Inc. (SES) is submitting to the Alameda County Health Care Services Agency (ACHCSA) this report of findings for site investigation at the referenced site. This work implemented the activities requested in the February 3, 2003 ACHCSA letter to the property owner, and was in accordance with the SES February 13, 2003 technical workplan submitted to and approved by ACHCSA. Figure 1 shows the site location.

SES submitted to ACHCSA the August 2002 Site Closure Assessment Report that summarized previous work associated with former underground fuel storage tanks (UFSTs) containing gasoline. That report concluded that there was a low potential for residual contamination associated with the former UFST and requested site closure. The ACHCSA letter indicated that analysis of site groundwater for MTBE (previously not analyzed for) would be needed to consider closure.

### **PRE-FIELD WORK PLANNING**

Prior to drilling, SES obtained the requisite borehole drilling permit from Alameda County Public Works Agency (copy included as Attachment A), and we notified Underground Service

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Alert of proposed drilling for their notification to utilities to mark any potential underground utilities.

## **BOREHOLE INSTALLATION AND SAMPLING**

The ACHCSA letter stipulates “a groundwater sample from beneath the former gasoline tanks...” suggesting that only one borehole directly through the former tank excavation would be required. We proposed in our workplan to advance and sample two boreholes: one within the former excavation and one in the hydraulically upgradient (east) direction, near the eastern site property line. This second borehole was advanced and sampled to address the contingency of MTBE contamination being detected in the excavation borehole and not knowing if in fact was the result of offsite-sourced contamination (i.e. from upgradient fuel releases). Figure 2 shows the borehole locations and Figure 3 is a detail layout of the former UFST excavation.

The boreholes were advanced on February 20, 2003 with a Geoprobe (direct-push) rig that advanced approximately 2-inch diameter soil sampling rods. Upon reaching first occurrence of groundwater, one grab-groundwater sample was collected from each borehole using new Tygon tubing connected to a vacuum pump. The hydropunch sampling was completed by a licensed drilling contractor (Fisch Environmental Services – C57 license no. 683865), under SES’s direct supervision. Groundwater samples were securely sealed in 40-ml VOA vials, placed in an ice chest with “blue ice” and transported to the analytical laboratory under chain-of-custody record the same day.

## **LITHOLOGIC AND HYDROLOGIC OBSERVATIONS**

While borehole soil samples were not specifically geologically logged, the core samples were visually observed as to whether the material was backfill or not. Borehole BH-01 (within the former excavation) was advanced to a depth of approximately 8’ below grade. The material recovered in the core samples was entirely pea gravel (excavation backfill). Groundwater was encountered at 6.1’ below grade. Borehole BH-02 (advanced on the eastern, upgradient property line) was advanced to 16’ below grade. Recovered core samples was wholly native clay and/or silt. Groundwater was first encountered at approximately 14’ below grade and quickly rose to 3’

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below grade, indicating confining conditions. There was no evidence of petroleum contamination (odor or sheen) in either the groundwater samples or recovered soil cores.

### ANALYTICAL RESULTS

Laboratory analyses were conducted by Curtis and Tompkins, Ltd. (C&T), a California-certified analytical laboratory. The two groundwater samples were analyzed for MTBE (only) by EPA Method 8260B. The samples contained no MTBE above the method reporting limit (0.5 µg/L). Attachment B contains the analytical laboratory report and chain-of-custody record.

We trust that this submittal meets your agency's needs. We request that ACHCSA provide to the property owner (and copied to SES) a written "no further action" (case closure) letter. Please contact me directly if you have any questions.

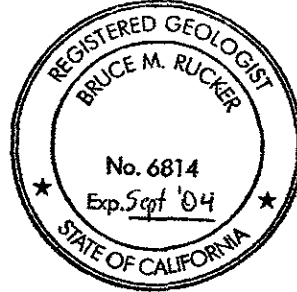
Sincerely,

Stellar Environmental Solutions, Inc.

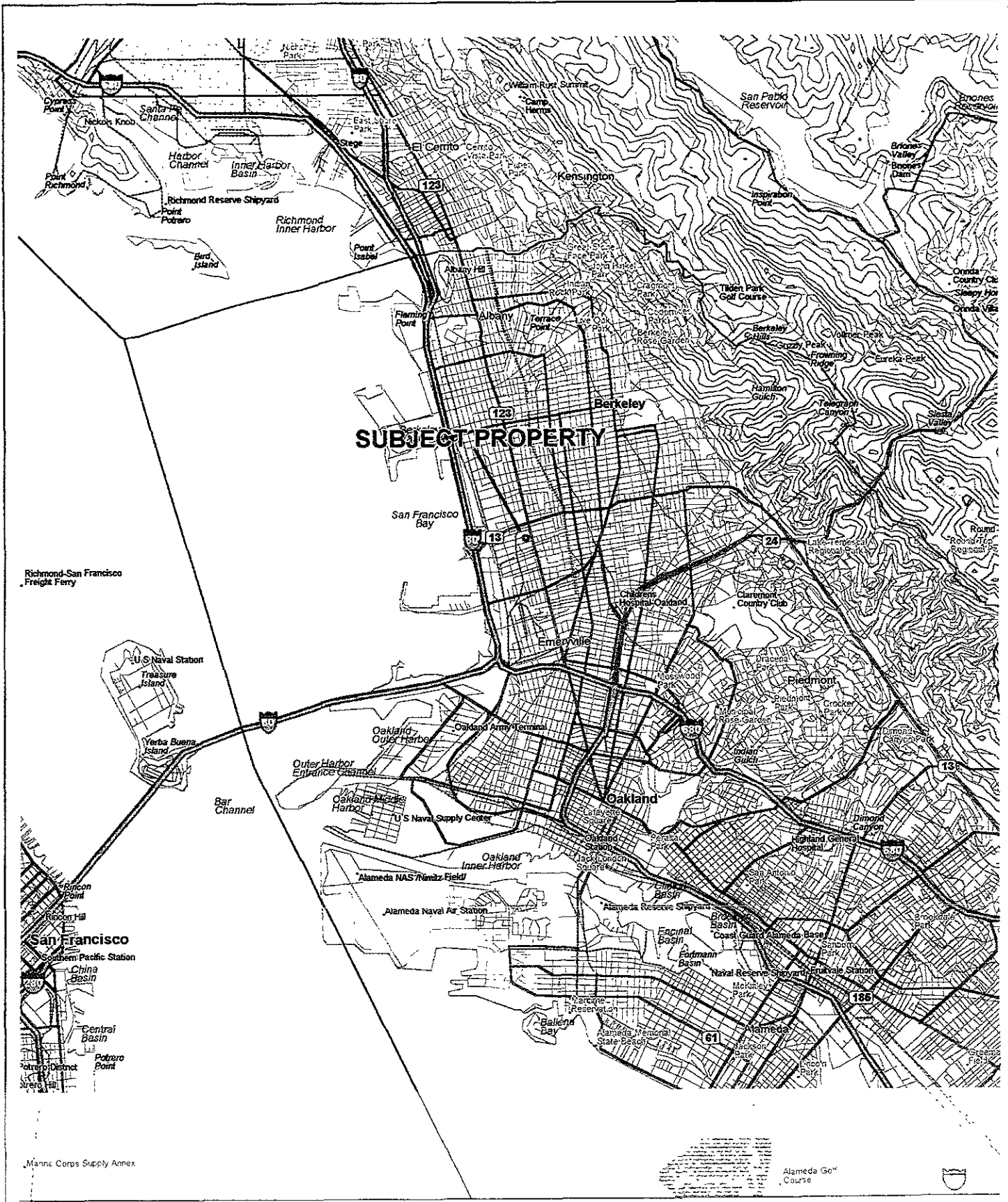
*Bruce M. Rucker*

Bruce M. Rucker, R.G., R.E.A.  
Project Manager

Attachments: Site plan with proposed borehole locations



cc: John Twomey – A.A. Johnson & Son, Inc.



**SUBJECT PROPERTY**



**SITE LOCATION ON U.S.G.S. TOPOGRAPHIC MAP**

1164 66th Street  
Oakland, CA

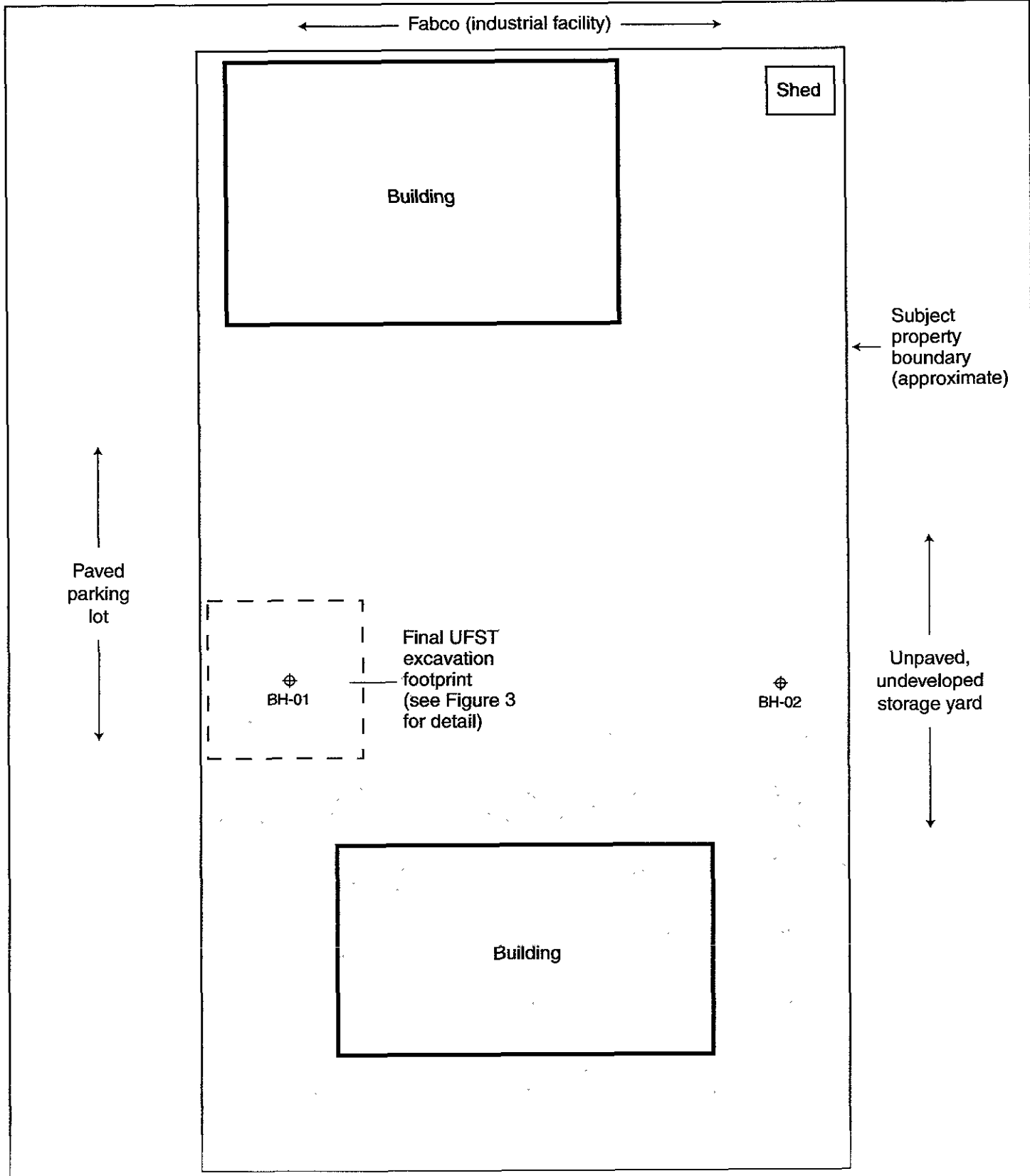
By: MJC

AUGUST 2002

**Figure 1**

★ Stellar Environmental Solutions  
Geoscience & Engineering Consulting

POD-16-01



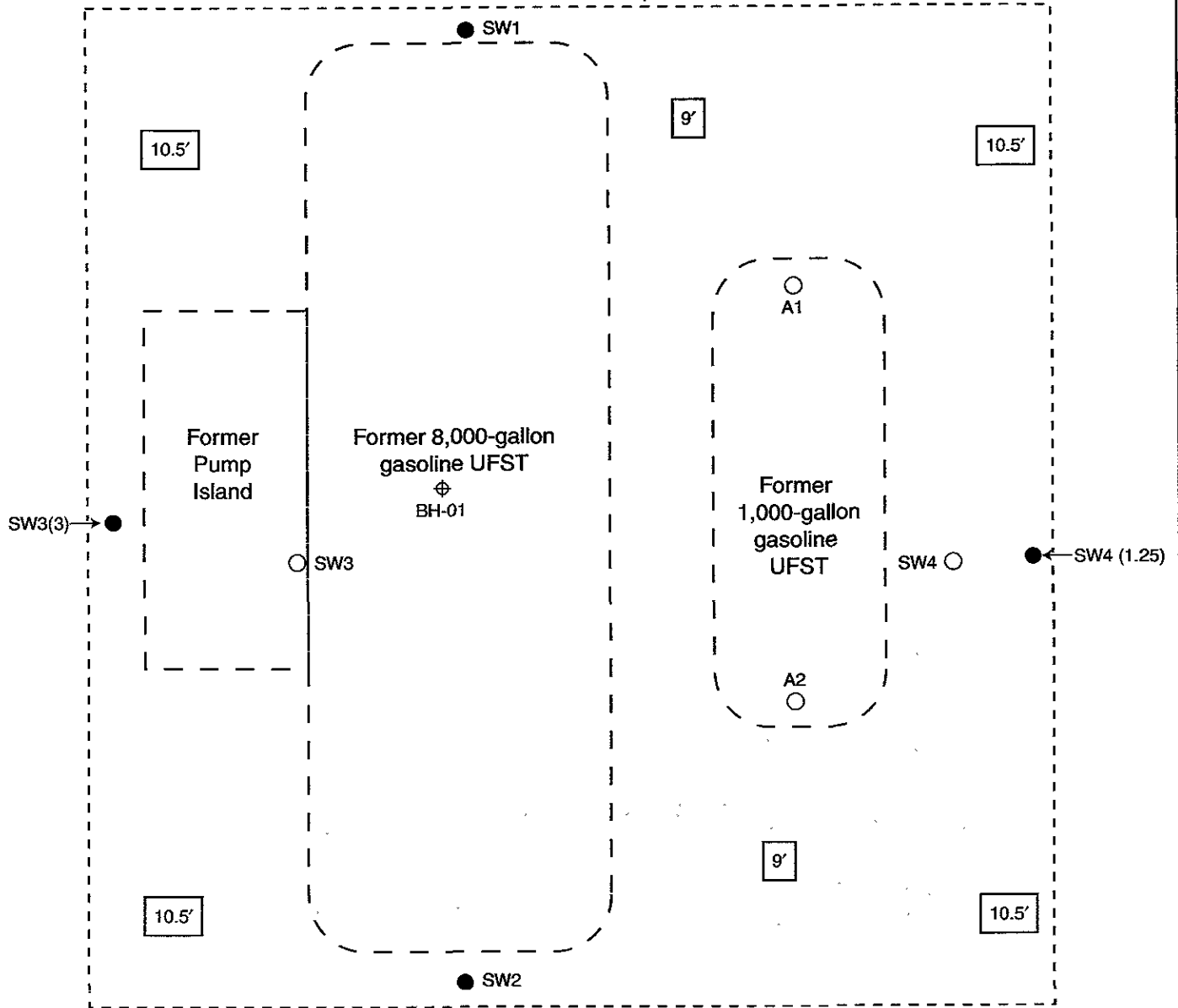
← 66TH STREET →

**LEGEND**  
 ⊕ February 2003 grab-water borehole  
 BH-01

	<b>SITE PLAN</b>		<b>Stellar Environmental Solutions</b> Geoscience & Engineering Consulting
	1164 66th Street Oakland, CA	By: MJC      MARCH 2003	

2003 09 03

Final UFST Excavation Footprint



**LEGEND**

- Residual (not excavated) soil sample
- SW1
- Overexcavated soil sample
- A1
- ⊕ February 2003 grab-water borehole
- BH-01
- 9' Depth of final excavation (feet below grade)
- 10.5' Depth of final excavation (feet below grade)



APPROX SCALE 1" = 10 FEET



**LAYOUT OF FORMER TANKS, SOIL EXCAVATION FOOTPRINT AND SAMPLING LOCATIONS**

1164 66th Street  
Oakland, CA

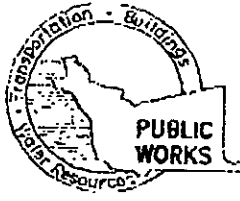
By: MJC

MARCH 2003

**Figure 3**

★ **Stellar Environmental Solutions**  
Geoscience & Engineering Consulting

2003 093-02



**ALAMEDA COUNTY PUBLIC WORKS AGENCY**

**WATER RESOURCES SECTION**  
 399 ELMHURST ST. HAYWARD CA. 94544-1395  
 PHONE (510) 670-6633 James Yoo  
 FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS  
 DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

**DRILLING PERMIT APPLICATION**

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1164 65th Street 66th Street  
Oakland CA 94608

PERMIT NUMBER W03-0129  
 WELL NUMBER \_\_\_\_\_  
 APN \_\_\_\_\_

CLIENT  
 Name A. A. Johnson & son  
 Address 1164 65th St 66th St Phone 510-628-7770  
 City Oakland CA Zip 94608

APPLICANT  
 Name Bruce Rucker  
Stellar Environmental Solutions PWS 510-644-3257  
 Address 1168 Sixth St #201 Phone 510-644-3253  
 City Oakland CA Zip 94608

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

PROPOSED WATER SUPPLY WELL USE  
 New Domestic  Replacement Domestic   
 Municipal  Irrigation   
 Industrial  Other

DRILLING METHOD:  
 Mud Rotary  Air Rotary  Auger   
 Cable  Other (reciprocating)

DRILLER'S NAME Fisch Environmental Exploration  
 DRILLER'S LICENSE NO. 683865

WELL PROJECTS  
 Drill Hole Diameter \_\_\_\_\_ in. Maximum \_\_\_\_\_  
 Casing Diameter \_\_\_\_\_ in. Depth \_\_\_\_\_ ft  
 Surface Seal Depth \_\_\_\_\_ ft. Owner's Well Number \_\_\_\_\_

GEOTECHNICAL PROJECTS  
 Number of Borings 2 Maximum \_\_\_\_\_  
 Hole Diameter \_\_\_\_\_ in. Depth 20 ft

STARTING DATE 2/16/03 (estimated)  
 COMPLETION DATE 2/26/03

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

APPLICANT'S SIGNATURE Bruce M. Rucker DATE 2/17/03  
 PLEASE PRINT NAME Bruce Rucker R-9-19 02

**PERMIT CONDITIONS**  
 Circled Permit Requirements Apply

- A. GENERAL.**
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
  2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
  3. Permit is void if project not begun within 90 days of approval date.

- B. WATER SUPPLY WELLS**
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.

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
  2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

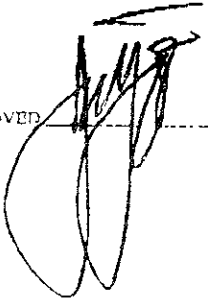
- D. GEOTECHNICAL.**
- Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-thirds feet replaced in kind or with compacted cuttings.

- E. CATHODIC**
- Fill hole anode zone with concrete placed by tremie.

- F. WELL DESTRUCTION**
- Send a map of work site. A separate permit is required for wells deeper than 45 feet.

- G. SPECIAL CONDITIONS**

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED  DATE 2-13-03



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L   R E P O R T

Prepared for:

Stellar Environmental Solutions  
2198 6th Street  
Suite 201  
Berkeley, CA 94710

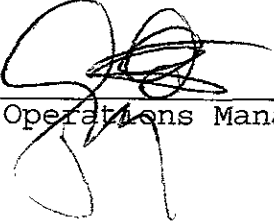
Date: 27-FEB-03  
Lab Job Number: 163759  
Project ID: 2003-09  
Location: A.A.Johnsen & Son

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by:

  
Project Manager

Reviewed by:

  
Operations Manager

This package may be reproduced only in its entirety.





**Purgeable Aromatics by GC/MS**

Lab #:	163759	Location:	A.A.Johnsen & Son
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-09	Analysis:	EPA 8260B
Field ID:	BH-01-GW	Batch#:	79378
Lab ID:	163759-001	Sampled:	02/20/03
Matrix:	Water	Received:	02/20/03
Units:	ug/L	Analyzed:	02/22/03
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	104	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	112	80-120

**Purgeable Aromatics by GC/MS**

Lab #:	163759	Location:	A.A.Johnsen & Son
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-09	Analysis:	EPA 8260B
Field ID:	BH-02-GW	Batch#:	79378
Lab ID:	163759-002	Sampled:	02/20/03
Matrix:	Water	Received:	02/20/03
Units:	ug/L	Analyzed:	02/22/03
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	104	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	113	80-120

**Purgeable Aromatics by GC/MS**

Lab #:	163759	Location:	A.A.Johnsen & Son
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-09	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC205416	Batch#:	79378
Matrix:	Water	Analyzed:	02/21/03
Units:	ug/L		

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	101	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	107	80-120

**Purgeable Aromatics by GC/MS**

Lab #:	163759	Location:	A.A.Johnsen & Son
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-09	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC205417	Batch#:	79378
Matrix:	Water	Analyzed:	02/21/03
Units:	ug/L		

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	107	80-120



STELLAR ENVIRONMENTAL SOLUTIONS  
2198 SIXTH STREET, BERKELEY, CA 94710  
TEL: 510.644.3123 FAX: 510.644.3859

Alameda County  
MAR 07 2003  
Environmental Health

TRANSMITTAL MEMORANDUM

TO: ALAMEDA COUNTY DEPT. OF  
ENVIRONMENTAL HEALTH  
1131 HARBOR BAY PKWY, SUITE 250  
ALAMEDA, CA 94502

DATE: 3/5/03

ATTENTION: MR. BARNEY CHAN

FILE: SES-2003-09

SUBJECT: 1164 - 66<sup>TH</sup> STREET  
OAKLAND, CALIFORNIA  
FUEL LEAK CASE RO0000325

WE ARE SENDING:

HEREWITH

UNDER SEPARATE COVER

VIA MAIL

VIA

THE FOLLOWING: REPORT OF FINDINGS FOR SITE INVESTIGATION (DATED 3/5/03)  
(2 COPIES)

AS REQUESTED

FOR YOUR APPROVAL

FOR REVIEW

FOR YOUR USE

FOR SIGNATURE

FOR YOUR FILES

COPIES TO: A.A. JOHNSON & SON, INC.  
(MR. JOHN TWOMEY)

By: <sup>x12</sup> Bruce Rucker

BMR