

Allied Glass Company  
20574 Wisteria St.  
Castro Valley, Ca. 94546

RECEIVED

2:00 pm, Mar 24, 2009

Alameda County  
Environmental Health

March 9, 2009

Mr. Paresh Khatri  
Alameda County Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

SUBJECT: SUBSURFACE INVESTIGATION WORK PLAN CERTIFICATION  
County Case # RO 2844  
Allied Glass Company  
20574 Wisteria Street  
Castro Valley, CA

Dear Mr. Khatri:

You will find enclosed one copy of the following document prepared by RGA Environmental, Inc.

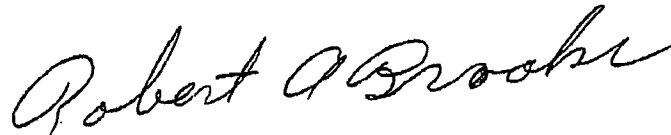
- Subsurface Investigation Work Plan dated March 9, 2009 (document 0463.W2).

I declare, under penalty of perjury, that the information and/or recommendations contained in the above-mentioned document for the subject site is true and correct to the best of my knowledge.

Should you have any questions, please do not hesitate to contact me at 510-537-2180.

Sincerely,

Robert A. Brooks Trust



Robert Brooks

Enclosure

0463.L5



March 9, 2009  
Work Plan 0463.W2

Mr. Paresh Khatri  
Alameda County Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

SUBJECT: SUBSURFACE INVESTIGATION WORK PLAN  
(B6 THROUGH B9)  
Fuel Leak Case No. RO 2844  
Allied Glass Company  
20574 Wisteria Street  
Castro Valley, CA

Dear Mr. Khatri:

RGA Environmental, Inc. (RGA) is pleased to present this work plan for collection of soil and groundwater samples from four boreholes designated as B6 through B9 at the subject site. This work plan is written in response to a request by the Alameda County Department of Environmental Health (ACDEH) in a letter dated January 8, 2009. In addition, RGA the three groundwater monitoring wells at the adjacent property will be monitored and sampled at the time that the boreholes are drilled.

A Site Location Map is attached as Figure 1, and a Vicinity Map showing the locations of the proposed boreholes and the locations of the existing groundwater monitoring wells on the adjacent property is attached as Figure 2. All work will be performed under the supervision of a professional geologist.

#### BACKGROUND

A detailed discussion of the site background and the presence of petroleum hydrocarbons in groundwater at nearby sites is provided in RGA's Soil and Groundwater Investigation Work Plan dated September 2, 2008 and RGA's Subsurface Investigation Report dated November 26, 2008 for the subject site.

#### SCOPE OF WORK

P&D will perform the following tasks:

- Permitting and regulatory agency coordination.
- Obtain offsite property access for drilling and to sample the three groundwater monitoring wells at the adjacent property.

- Health and safety plan preparation and mark drilling locations with white paint.
- Soil boring oversight for four soil borings and collection of one groundwater grab sample from each borehole.
- Purge and sample groundwater monitoring wells MW1 through MW3 at the adjacent property.
- Arrange for analysis of the groundwater samples.
- Report preparation documenting collection of the groundwater samples and the laboratory analytical results.

Each of these is discussed below in detail.

#### Permitting and Regulatory Agency Coordination

A permit will be obtained from the Alameda County Public Works Agency (ACPWA) for the drilling of the soil borings and for drilling in Wisteria Street. Notification will be provided to the ACDEH and ACPWA prior to drilling.

#### Obtain Offsite Property Access

Offsite property access will be obtained for drilling the boreholes and to sample the three groundwater monitoring wells at the adjacent property. The wells will be sampled at the time that the boreholes are drilled.

#### Health and Safety Plan Preparation

A health and safety plan will be prepared for the scope of work identified in this work plan. Prior to the beginning of fieldwork, the drilling locations will be marked with white paint and Underground Service Alert will be notified for underground utility location.

#### Soil Boring Oversight and Sample Collection

A total of four borings, designated as B6 through B9 will be drilled to characterize the horizontal extent of petroleum hydrocarbons in groundwater at the subject site.

The rationale for the borehole locations is as follows.

- B6. Located to the west of B3, the borehole is intended to define the extent of petroleum hydrocarbons detected in B3 to the west of the subject site at the closest possible location where traffic hazards can be minimized during drilling.
- B7. Located between B4 and the residence located to the north of the subject site, the borehole is intended to define the extent of petroleum hydrocarbons detected in B4 to the north of the subject site.
- B8. Located to the east of B5, the borehole is intended to define the extent of petroleum hydrocarbons detected in B5 to the east of the subject site.

- B9. Located between B4 and offsite well MW-3, the borehole is intended to define the extent of petroleum hydrocarbons detected at the subject site to the South of the subject site at a location approximately midway between the onsite boreholes and the closest offsite groundwater monitoring well.

Groundwater was not encountered in any of boreholes B1 through B5 on the day of drilling on October 14, 2008. A temporary slotted PVC pipe was placed into each borehole and the top of each borehole was temporarily sealed with a plastic sheet and bentonite pellets until water entered the boreholes.

Based upon the historic depth to groundwater in nearby groundwater monitoring wells, the anticipated depth to groundwater is approximately 10 feet. Based on the shallow depth to groundwater, the boreholes will be drilled to a maximum depth of 15 feet below the ground surface for the collection of groundwater samples. Each boring will be continuously cored using Geoprobe Macrocore barrel samplers lined with transparent PVC tubes. The soil from the boreholes will be logged in the field in accordance with standard geologic field techniques and the Unified Soil Classification System. The soil from the boreholes will be evaluated with a Photoionization Detector (PID) equipped with a 10.6 eV bulb and calibrated with a 100 ppm isobutylene standard. No soil samples will be retained from the boreholes for laboratory analysis.

One groundwater grab sample will be collected from each borehole. The groundwater grab samples will be collected from the boreholes by placing slotted temporary PVC pipe into each borehole and retrieving the sample using a polyethylene tube with a stainless steel check valve. The samples will be placed into 40-milliliter VOAs and 1-liter amber glass bottles preserved with hydrochloric acid and capped with Teflon-lined screw caps. All sample containers will be clean and provided by the laboratory. The VOAs will be overturned and tapped to ensure that no air bubbles are present. The samples will then be stored in a cooler with ice pending delivery to the laboratory. Chain of custody procedures will be observed for all sample handling. The proposed locations of the soil borings are shown on the attached Site Vicinity Map, Figure 2.

All drilling and sampling equipment will be cleaned with an Alconox solution followed by a clean water rinse prior to use in each borehole. Following completion of sample collection activities, the boreholes will be filled with neat cement grout. Any soil or water generated during drilling will be stored in drums at the site pending characterization and disposal.

#### Offsite Groundwater Monitoring Well Sampling

Offsite groundwater monitoring wells at the adjacent former Quality Tune-Up will be sampled at the time of the proposed drilling for comparison of borehole and well groundwater sample results. Prior to well sampling, the wells will be opened and the water levels in the wells allowed to equilibrate, and the wells will then be monitored for depth to groundwater with an accuracy of 0.01 feet using an electric water level indicator. The wells will then be purged of a minimum of three casing volumes of water or until the wells have been purged dry. During purging operations, the field parameters of electrical conductivity, temperature, and pH will be monitored. Once the field parameters are observed to stabilize, and a minimum of three casing volumes have been purged or

the wells have purged dry and partially recovered, water samples will be collected using a clean disposable polypropylene bailer. Records of the field parameters measured during well purging will be included with the final report.

The water samples will be transferred to 40-milliliter glass VOA vials and 1-liter amber glass bottles that will be sealed with Teflon-lined screw caps. The VOA vials will be overturned and tapped to ensure that no air bubbles are present. The VOA vials and bottles will be transferred to a cooler with ice, until they are transported to the laboratory. Chain of custody documentation accompanied the samples to the laboratory.

Water purged from the wells will be stored in a steel 55-gallon drum with a lid and a label at the subject site pending appropriate disposal.

#### Arrange for Sample Analysis

The groundwater samples from the boreholes and the wells will be analyzed at McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California. McCampbell is a State-Accredited hazardous waste testing laboratory. The groundwater samples from each borehole and each well will be analyzed for TPH-D, TPH-BO, and TPH-MO using EPA Methods 5030B in conjunction with modified EPA Method 8015; for MTBE and BTEX using EPA Method 8021B; and for dissolved lead using EPA Method 200.8.

#### Report Preparation

Upon receipt of the laboratory analytical results, a report will be prepared. The report will document groundwater sample collection procedures and sample results. The report will include a site plan showing the drilling locations, boring logs, tables summarizing the sample results, recommendations based on the sample results, and the stamp of an appropriately registered professional.

March 9, 2009  
Work Plan 0463.W2

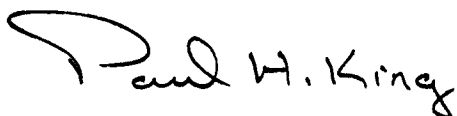
Should you have any questions, please do not hesitate to contact us at (510) 547-7771.

Sincerely,

RGA Environmental, Inc.



Kenneth Pilgrim  
Project Manager



Paul H. King  
Professional Geologist #5901  
Expires: 12/31/09



Attachments: Figure 1 – Site  
Figure 2 – Site Vicinity Map

cc: Mr. Robert Brooks, Brooks Family Trust

PHK  
0463.W2

# FIGURES

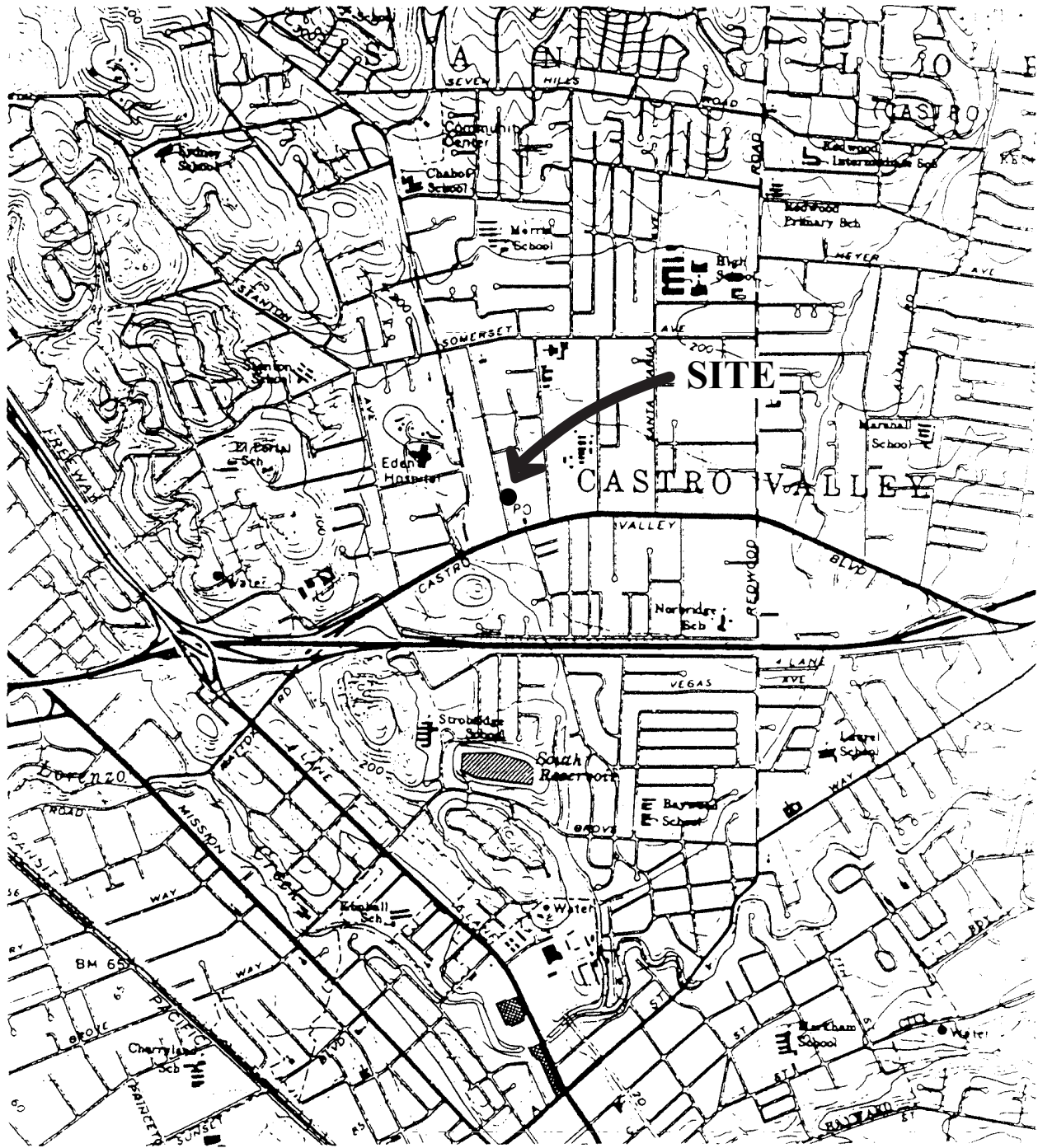
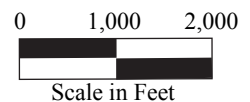


Figure 1  
 Site Location Map  
 Allied Glass Company  
 20574 Wisteria Street  
 Castro Valley, California

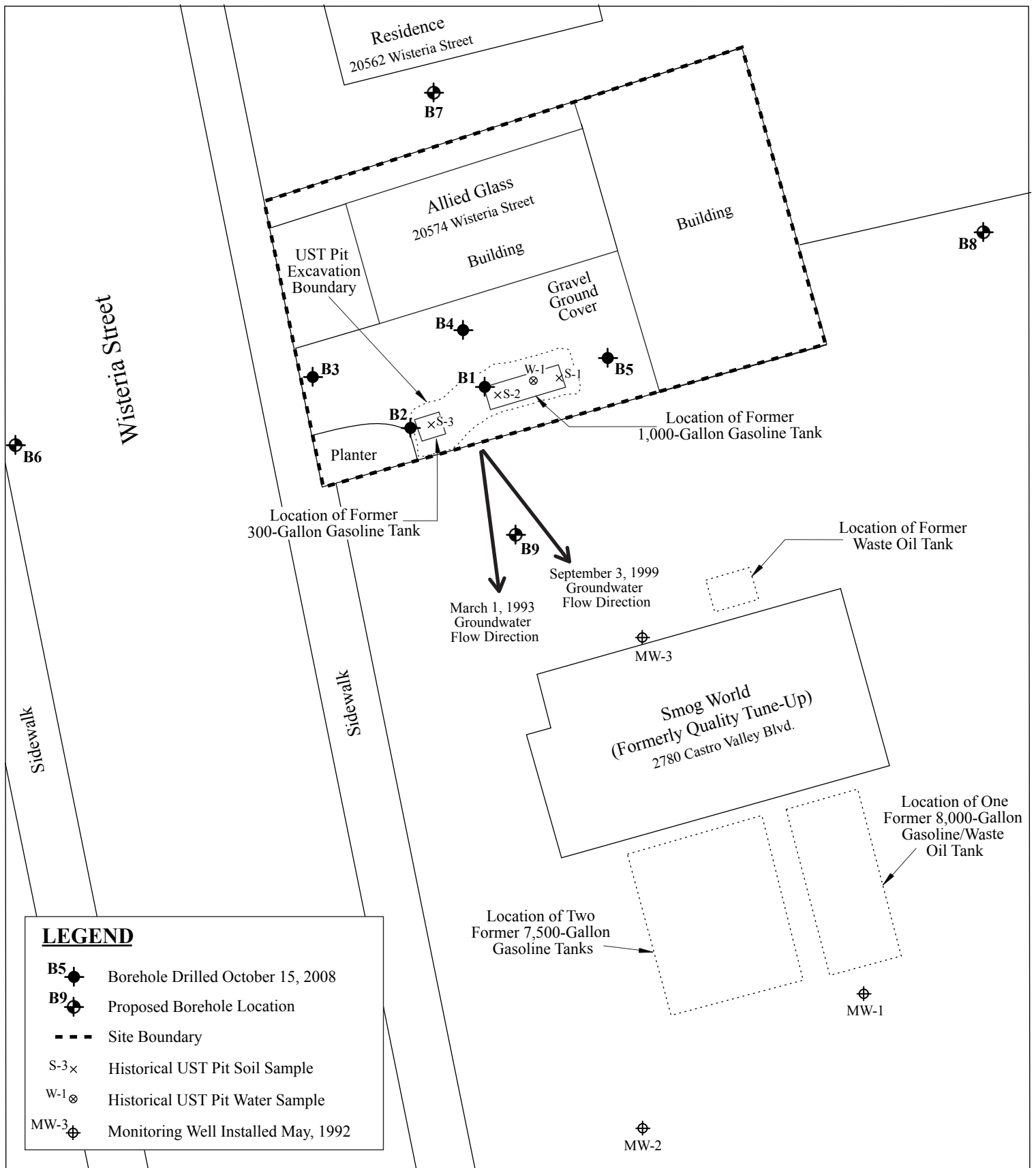


Base Map from:  
 U.S. Geological Survey  
 Hayward, Calif.  
 7.5 Minute Quadrangle  
 Photorevised 1980

RGA Environmental, Inc.  
 1466 66th Street  
 Emeryville, CA 94608







Base Map from:  
 RGA Environmental, Inc., August 2008  
 Prepared Using a Rototape  
 and Hageman-Aguiar, Inc., Report of Soil and  
 Groundwater Investigation, Quality Tune-up, July 1992

RGA Environmental, Inc.  
 1466 66th Street  
 Emeryville, CA 94608

