



RO 2526
Alameda County
NOV 03 2003
Environmental Health

October 29, 2003

Mr. Don Hwang
Hazardous Services Specialist
Alameda County Environmental Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

**Re: Addendum to Work Plan for Additional Investigation
Active Arco Service Station #2107
3310 Park Boulevard
Oakland, California
Fuel Leak Case No. RO0002526
URS Project No. 38486013**

Dear Mr. Hwang:

At the request of Atlantic Richfield Company (ARCO), URS Corporation (URS) is pleased to submit this Addendum to the Work Plan to investigate the lateral and vertical extent of soil and groundwater contamination at ARCO Service Station #2107, located at 3310 Park Boulevard in Oakland, California (Site) (see Figure 1). This Addendum has been prepared to acknowledge changes requested via voicemail directive from the Alameda County Environmental Health Agency after review of the Work plan. The communication requested that ARCO conduct a preliminary soil investigation to better characterize to subsurface conditions prior to the installation of monitoring wells.

The soil investigation will consist of 10 Geoprobe soil borings advanced to approximately 25 feet. In addition to notifying Underground Safety Alert (USA), a private utility surveyor will be contracted to mark underground utilities and the borings will be hand augered to a minimum depth of 5 feet. The soil will be lithologically logged by an on-Site geologist and field screened using a photo-ionization detector (PID). Soil samples will be taken every five feet, covered at each end with Teflon™ sheeting, capped with plastic end caps, labeled, and placed in an ice-filled cooler for preservation. Sample labels will include sample name, sample depth interval, sampling time and date, analytical methods and sampler's initials. All samples will be transported under chain-of-custody protocol to Sequoia Analytical, a California State-certified analytical laboratory.

URS Corporation
500 12th Street, Suite 200
Oakland, CA 94607-4014
Tel: 510.893.3600
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Soil samples will be analyzed for total petroleum hydrocarbons as gasoline (TPHg), Benzene, Ethylbenzene, Toluene, and total Xylenes (BTEX) using EPA Method 8260B, and fuel oxygenates [methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), methyl ether (TAME), ethyl tertiary butyl ether (ETBE), and tertiary butyl alcohol (TBA)] using EPA Method 8260B. Additionally, one grab groundwater sample will be collected from each location, submitted to Sequoia Analytical, and tested for the same analytes.

Boring locations have been chosen to best characterize the subsurface conditions and have been designated SB-1 through SB-10 (Figure 1). SB-1, 2, and 3 are located upgradient of the Site. SB-4 is directly down gradient from the highest detection of MTBE. SB-6, 7 and 10 are located directly down gradient from the potentially impacted area. SB-5, 8, and 9 are located further down gradient of the potentially impacted area and near the Site boundary. Results of the investigation will be presented to Alameda County in a Site Investigation Report following evaluation of the data by URS.

Sample handling, equipment decontamination, and surveying procedures are discussed in the *Work Plan for Additional Investigation, Active Arco Station #2107*, submitted to Alameda County Environmental Health on June 11, 2003.

We appreciate the opportunity to present this addendum to the Work Plan to Alameda County Environmental Health and trust that this document meets with your approval. If you have any questions or comments regarding this addendum, please feel free to contact me at 510.893.3600.

Sincerely,
URS Corporation



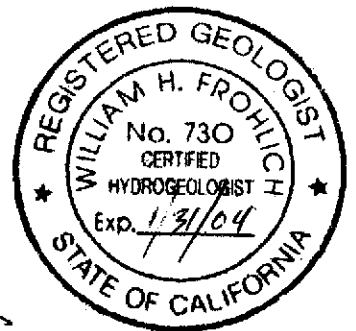
Christopher Sheridan
Staff Geologist



Scott Robinson
Project Manager



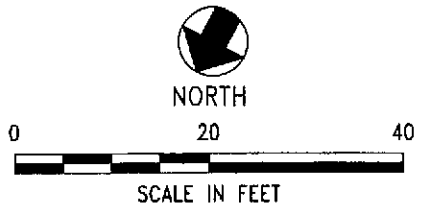
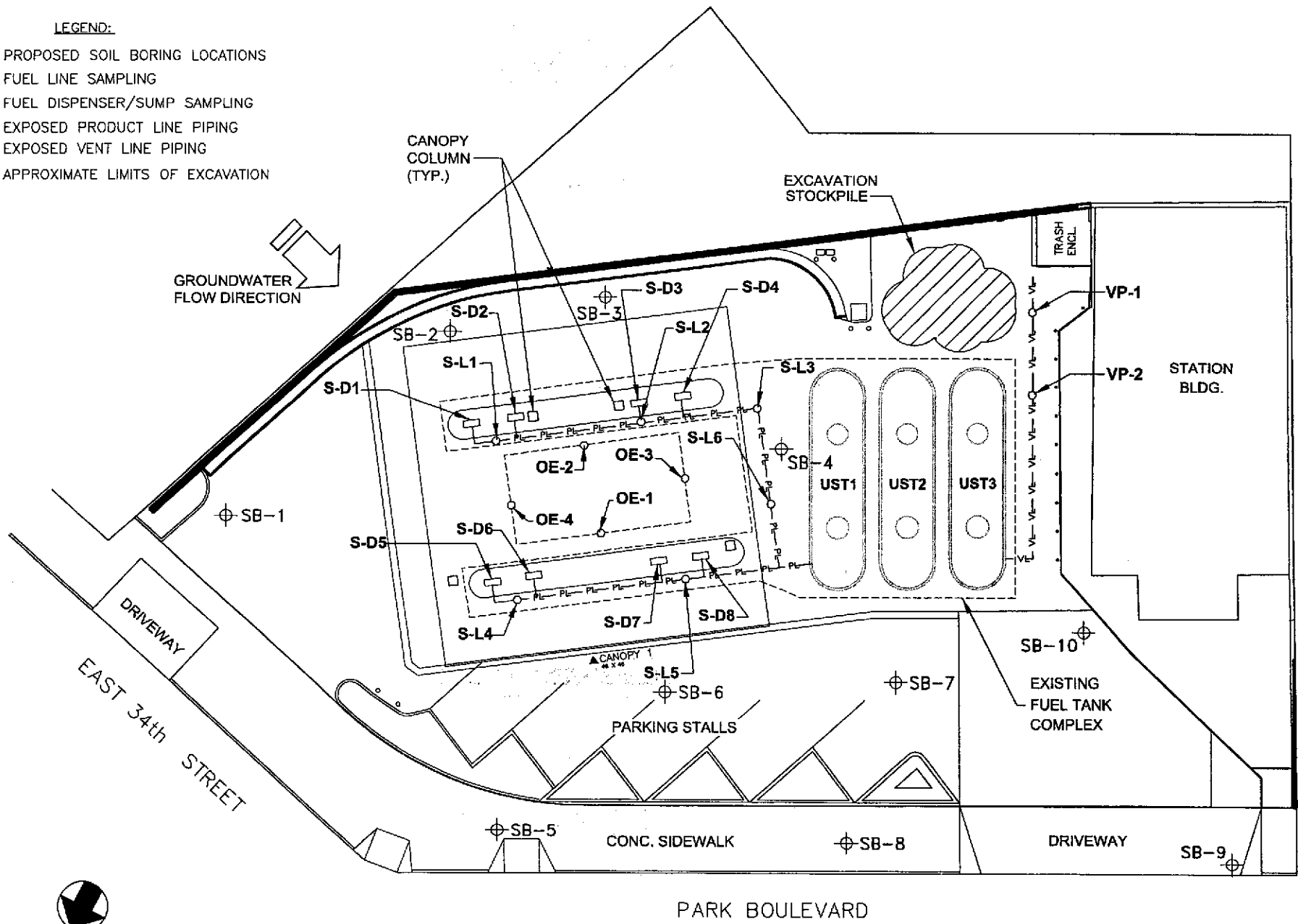
William Frohlich, C.HG., C.E.G.
Senior Geologist



Attachments: Figure 1 – Soil Boring Location Map

LEGEND:

- ⊕ PROPOSED SOIL BORING LOCATIONS
- L1 ○ FUEL LINE SAMPLING
- D1 □ FUEL DISPENSER/SUMP SAMPLING
- PL — EXPOSED PRODUCT LINE PIPING
- VL — EXPOSED VENT LINE PIPING
- APPROXIMATE LIMITS OF EXCAVATION



URS	Project No. 38486503	PROPOSED SOIL BORING LOCATIONS	FIGURE 1
	ARCO Service Station 2107 3310 Park Boulevard Oakland, California		