



ALCO
HAZMAT
95 JUN 18 AM 9:01

Underground Contamination Investigations, Groundwater Consultants, Environmental Engineering

December 7, 1994

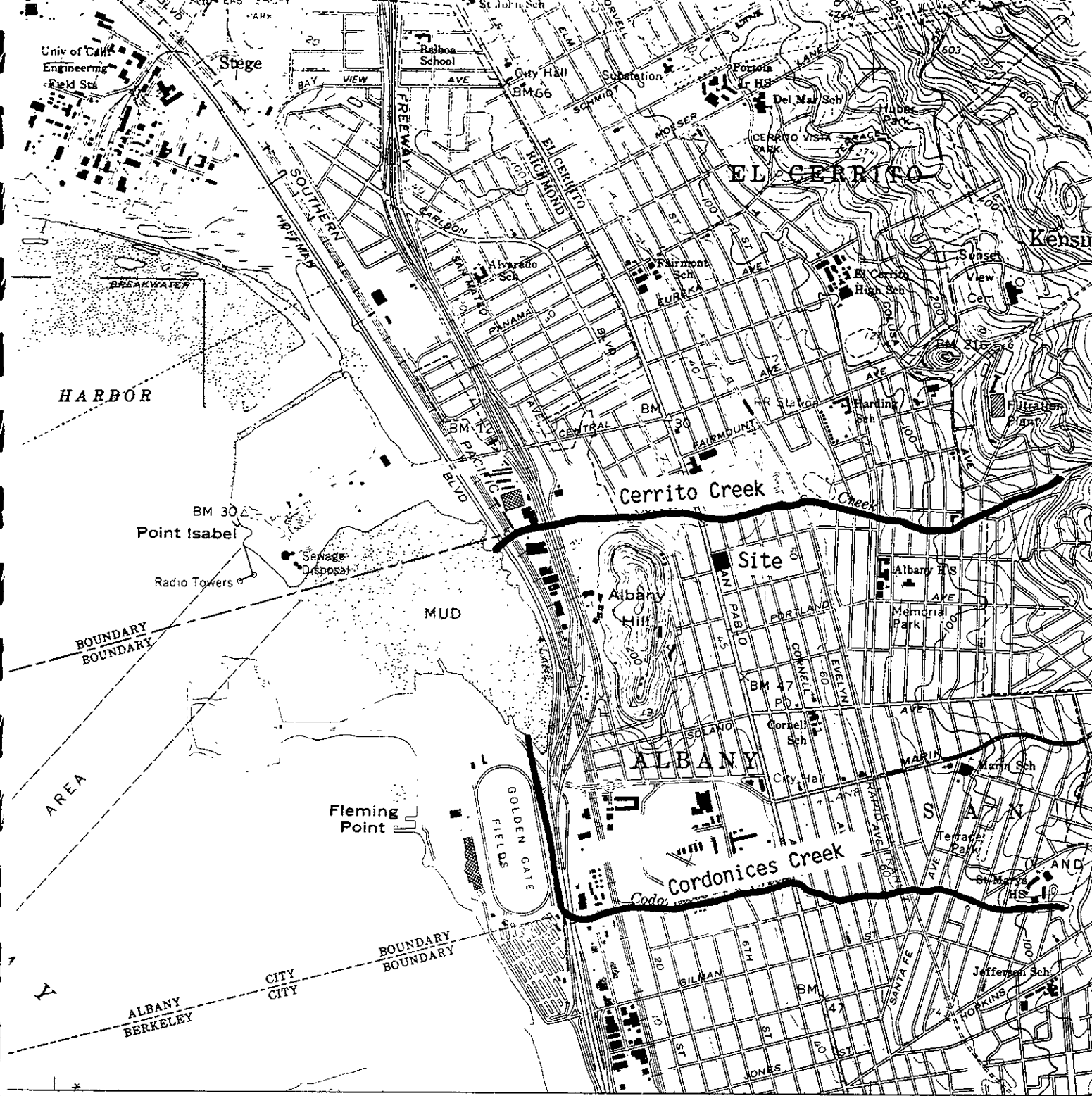
**REPORT OF
QUARTERLY GROUNDWATER SAMPLING**

**GRANHOLT SHEET METAL
501 San Pablo Avenue
Albany, CA**

On December 5, 1994, the one on-site monitoring well was sampled for the laboratory analysis for dissolved petroleum constituents. The location of the site is shown in Figure 1 (site location map).

Monitoring Well Sampling and Laboratory Analysis

On December 5, 1994, the one on-site well was purged, and groundwater samples were subsequently collected. The location of the monitoring well is shown in Figure 2 (site map). Prior to groundwater sampling, the well was purged by bailing several casing volumes of water. Field conductivity, temperature, and pH parameters were recorded during the purging process. As the well purging proceeded, the three parameters were monitored. Purging continued until readings appeared to have reasonably stabilized. After the water level in the well had attained 80% or more of the original static water level, a groundwater sample was collected using a clean teflon bailer. The water sample was placed inside



SCALE 1:24 000

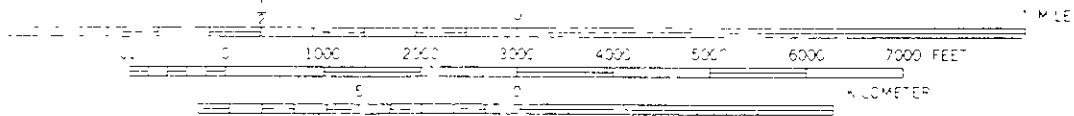


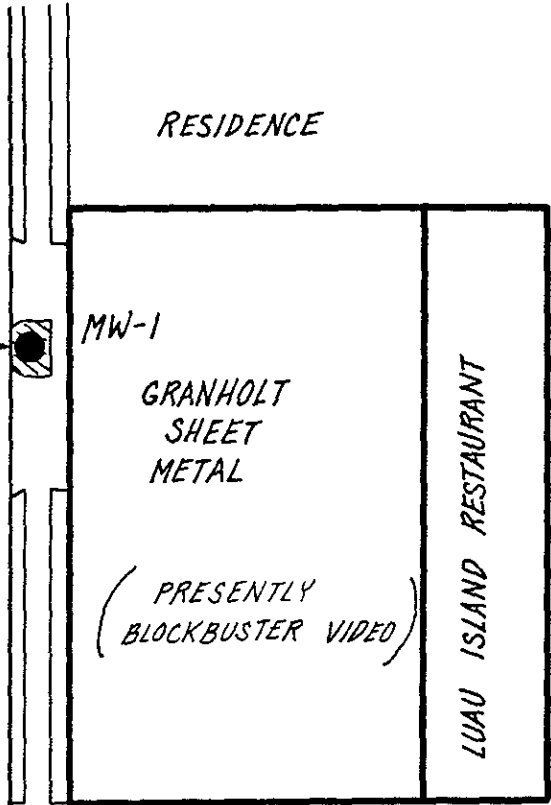
Figure 1.
Site Location Map.

TIRE CENTER



FORMER
TANK
LOCATION

BRIGHTON AVENUE



SAN PABLO AVENUE



FIGURE 2.
Site Map.

appropriate 40-mL VOA vials free of any headspace. The samples were immediately placed on ice, then transported under chain-of-custody to the laboratory at the end of the work day.

At the time the monitoring well was sampled, the following information was recorded in the field: 1) depth-to-water prior to purging, using an electrical well sounding tape, 2) identification of any floating product, sheen, or odor prior to purging, using a clear teflon bailer, 3) sample pH, 4) sample temperature, and 5) specific conductance of the sample. A copy of the well sampling log is included as Attachment A.

All analyses were conducted by a California State DOHS certified laboratory in accordance with EPA recommended procedures. All groundwater samples were analyzed for Total Petroleum Hydrocarbons as Gasoline, and Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

Water Level Measurement

The shallow groundwater elevation in MW-1 was measured as 4.48 feet below ground surface on December 5, 1994.

Laboratory Results

Table 1 presents the results of the laboratory analysis for TPH and BTXE of the groundwater samples collected from monitoring well MW-1.

For this round of sampling, no detectable concentration of

Table 1.

Groundwater Sampling Results

Well	Date	TPH as Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
MW-1	06-12-90	770	3.0	ND	3.0	4.0
	02-01-91	740	92	7.0	2.7	3.2
	06-03-91	ND	ND	ND	ND	ND
	12-17-91	560	8.3	11	8.1	61
	03-06-92	700	6.0	9.9	22	40
	05-28-92	1,000	4.2	5.1	15	30
	08-31-92	1,600	13	12	27	57
	12-07-92	4,900	12	16	35	130
	03-22-93	3,900	8.2	8.5	17	42
	06-04-93	1,600	0.9	1.6	1.8	4.2
	09-24-93	1,400	3.3	3.7	7.3	17
	12-15-93	1,400	1.8	2.0	4.8	17
	03-11-94	670	5.0	4.9	2.7	30
	06-20-94	ND	ND	ND	ND	ND
	09-13-94	ND	ND	ND	ND	ND
	12-05-94	ND	ND	ND	ND	ND
	Detection Limit		50	0.5	0.5	0.5

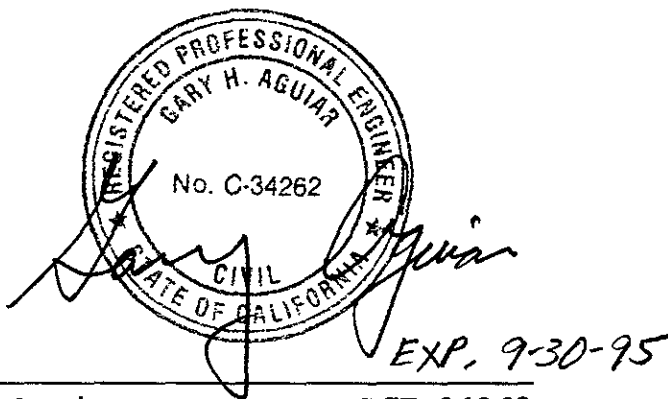
ND = not detected

dissolved Gasoline was detected in the shallow groundwater sample. In addition, no detectable concentrations of dissolved Benzene, Toluene, Ethylbenzene, or Total Xylenes were detected in the shallow groundwater sample.

A copy of the laboratory certificate for the water sample analyses is included as Attachment B.

REPORT OF QUARTERLY GROUNDWATER SAMPLING
GRANHOLT SHEET METAL
501 San Pablo Avenue, Albany, CA

December 7, 1994



Gary Aguiar

RCE 34262

Gerard F. Aarons 12-7-94
Gerard F. Aarons Geologist

ATTACHMENT A

WELL SAMPLING LOG

WELL SAMPLING LOG

Project/No. GRANHOLT SHEET METAL Page 1 of 1

Site Location ALBANY, CA

Date 12-5-94

Well No. MW 1

Time Began 1425
Completed 1505

Weather OVERCAST / 50°F

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX AT GRADE

Total Sounded Depth of Well Below MP 14.80

- Depth to Water Below MP 4.48

Diameter of Casing 2"

= Water Column in Well 10.32

Gallons in Casing 1.7 + Annular Space (x10) = Total Gallons 17
(30% porosity)

Gallons Pumped Prior to Sampling 17

Evacuation Method PVC BAILER

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: NONE DETECTED
(thickness to 0.1 inch, if any)

Time	<u>1425</u>	<u>1432</u>	<u>1445</u>	<u>1452</u>
Gals Removed	<u>0</u>	<u>6</u>	<u>12</u>	<u>17</u>
Temperature	<u>17.4</u>	<u>16.8</u>	<u>18.2</u>	<u>17.7</u>
Conductivity	<u>495</u>	<u>500</u>	<u>500</u>	<u>500</u>
pH	<u>7.5</u>	<u>7.4</u>	<u>7.3</u>	<u>7.2</u>
Color / Odor	<u>CLR/ORG</u>	<u>BRN/ORG</u>	<u>BRN/ORG</u>	<u>BRN/ORG</u>
Turbidity	<u>LOW</u>	<u>MED</u>	<u>HIGH</u>	<u>HIGH</u>

Comments: NONE

ATTACHMENT B

ANALYTICAL RESULTS: GROUNDWATER



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

December 07, 1994

PEL # 9412013

HAGEMAN - AGUIAR, INC.

Attn: Jeffrey Roth
Re: One water sample for Gasoline/BTEX analysis.

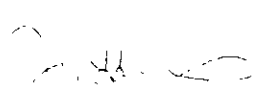
Project name: Granholt Sheet Metal
Project location: San Pablo Ave., - Albany, CA.

Date sampled: Dec 05, 1994
Date extracted: Dec 06, 1994

Date submitted: Dec 06, 1994
Date analyzed: Dec 06, 1994

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
MW 1	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	88.5%	88.3%	90.2%	91.0%	100.5%
Detection limit	50	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	602	602	602	602


David Duong
Laboratory Director

