

# HAGEMAN-AGUIAR, INC.

*Underground Contamination Investigations  
Groundwater Consultants, Environmental Engineering*

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February 20, 1991

## **REPORT OF QUARTERLY GROUNDWATER SAMPLING**

**GRANHOLT SHEET METAL  
501 SAN PABLO AVENUE  
ALBANY, CA**

On February 1, 1991, the one on-site monitoring well was sampled for the laboratory analysis for dissolved petroleum constituents. The location of the monitoring well is shown in Figure 1 (site map). This sampling represents the first "round" of quarterly sampling, following the soil and groundwater investigation previously conducted at the site. The report of that investigation was issued on June 21, 1990.

### **Monitoring Well Sampling and Laboratory Analysis**

On February 1, 1991, the one on-site well was purged, and groundwater samples were subsequently collected. Prior to groundwater sampling, the well was purged by bailing 3 to 5 casing volumes of water. Field conductivity, temperature, and pH meters were present on-site during the monitoring well sampling. As the purging process 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

TIRE CENTER



FORMER  
TANK  
LOCATION

BRIGHTON AVENUE

MW-1

GRANHOLT  
SHEET  
METAL

LUAU ISLAND RESTAURANT

RESIDENCE

SAN PABLO AVENUE



FIGURE 1.  
Site Map.

static water level, a groundwater sample was collected using a clean teflon bailer. The water sample was placed inside 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. The groundwater sample was analyzed for total petroleum hydrocarbons as Gasoline, and BTXE.

#### 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. As shown in this table, dissolved gasoline continues to be detected in the monitoring well at a concentration similar to, but slightly less than, that of the previous round of sampling (740 ug/L (ppb)). In addition, the concentration of Benzene appears to have increased somewhat (92 ug/L (ppb)).

Copies of the laboratory certificates for the water sample analyses are included as Attachment B.

**Table 1.**

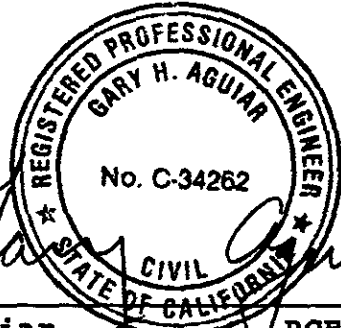
**Groundwater Sampling Results**

<b>Well</b>	<b>Date</b>	<b>Gasoline (ug/L)</b>	<b>Benzene (ug/L)</b>	<b>Toluene (ug/L)</b>	<b>Ethyl- benzene (ug/L)</b>	<b>Xylenes (ug/L)</b>
<b>MW-1</b>	12-Jun-90	770	3.0	ND	3.0	4.0
	01-Feb-91	740	92	7.0	2.7	3.2
<b>Detection Limit</b>		50	0.5	0.5	0.5	0.5

The results of both the previous investigation and this most recent monitoring well sampling clearly indicate that some residual gasoline contamination remains in the shallow groundwater in the immediate vicinity of the former underground storage tank.

In the June 21, 1990 report, it was recommended that quarterly monitoring of monitoring well MW-1 be carried out over the course of one year. If contamination levels were found to remain stable or decline during the first year, as would be expected due to the removal of the contamination source (underground tank), a request would be made to the appropriate regulatory agency for permission to either reduce the frequency of monitoring or else discontinue monitoring and properly abandon the existing monitoring well.

Based upon the results of this most recent monitoring well sampling, it will be necessary to compare this data with the results of several more future quarterly samplings before a conclusion of any trends in shallow groundwater chemical concentrations can be established.

  
*Gary H. Aguiar*  
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Gary Aguiar RCE 34262

*Bruce Hageman*  
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Bruce Hageman

**ATTACHMENT A**

**WELL SAMPLING LOG**

WELL SAMPLING LOG

Project/No. GRANHOLT Page 1 of 1  
Site Location SAN PABLO AVE.  
ALBANY Date 2-1-91  
Well No. MW-1 Time Sampling Began 9:30  
Weather SUNNY, 60°F Completed 10:00

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX (AT GRADE)  
Total Sounded Depth of Well Below MP 13.0'  
Depth to Water Below MP 3.3' Diameter of Casing 2"  
Water Column in Well 9.7'  
Gallons in Well 1.57 Gallons Pumped/Bailed  
Prior to Sampling 6  
Evacuation Method STAINLESS STEEL BAIKER

SAMPLING DATA / FIELD PARAMETERS

Color CLEAR Odor NONE  
Appearance NO SHEEN Temperature 13 °F (5) °C  
Specific Conductance (umhos/cm) 750 pH 7.60  
Sampling Method and Material TEFLON BAIKER

FIELD ANALYSES:	Start	Mid	End
Time	<u>9:37</u>	<u>9:47</u>	<u>9:55</u>
Temperature	<u>14.5</u>	<u>13.0</u>	<u>13.0</u>
Conductivity	<u>775</u>	<u>750</u>	<u>750</u>
pH	<u>7.50</u>	<u>7.61</u>	<u>7.60</u>

Sampling Personnel Keith Jay

**ATTACHMENT B**

**ANALYTICAL RESULTS: GROUNDWATER**



# CHROMALAB, INC.

Analytical Laboratory  
Specializing in GC-GC/MS

- Environmental Analysis
- Hazardous Waste (#E694)
- Drinking Water (#955)
- Waste Water
- Consultation

February 7, 1991

ChromaLab File No.: 0191133

HAGEMAN-AGUIAR, INC.

Attn: Keith Jay

RE: One water sample for Gasoline/BTEX analysis

Project Name: GRANHOLT

Date Sampled: Feb. 1, 1991

Date Submitted: Feb. 1, 1991

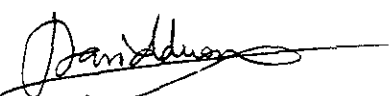
Date Extracted: Feb. 6, 1991

Date Analyzed: Feb. 6, 1991

## RESULTS:

Sample No.	Gasoline ( $\mu\text{g/L}$ )	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethyl Benzene ( $\mu\text{g/L}$ )	Total Xylenes ( $\mu\text{g/L}$ )
MW-1	740	92	7.0	2.7	3.2
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	95.2%	92.4%	93.3%	98.8%	97.9%
DETECTION LIMIT	50	0.5	0.5	0.5	0.52
METHOD OF ANALYSIS	5030/ 8015	602	602	602	602

ChromaLab, Inc.

  
David Duong  
Chief Chemist

*Eric Tam (by DO)*  
Eric Tam  
Laboratory Director

# CHROMALAB, INC.

2239 Omega Road, #1 • San Ramon, California 94583  
415/831-1788 • Facsimile 415/831-8798

## Chain of Custody

DATE 2-1-91 PAGE 1 OF 1

PROJ MGR _____ COMPANY <u>HAGEMAN - AGUIAR</u> ADDRESS _____ SAMPLERS (SIGNATURE) <u>[Signature]</u> (PHONE NO.) _____					ANALYSIS REPORT													NUMBER OF CONTAINERS
					CHROMALAB FILE # 191133 Order # 1522													
SAMPLE ID.	DATE	TIME	MATRIX	LAB ID.	TPH - Gasoline (EPA 5030)	TPH - Gasoline (EPA 5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510, 3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270)	TOTAL OIL & GREASE (EPA 5520 D&F)	PESTICIDES/PCB (EPA 608, 8080)	PHENOLS (EPA 604, 8040)	METALS	CAM ME w/Cr VI	PRIORITY METALS	
MW-1	2-1-91	10:00			X													
PROJECT INFORMATION					SAMPLE RECEIPT					RELINQUISHED BY 1			RELINQUISHED BY 2			RELINQUISHED BY 3		
PROJECT NAME <u>GRANDHOLT</u>		TOTAL NO. OF CONTAINERS <u>2</u>			CHAIN OF CUSTODY SEALS			RELINQUISHED BY (SIGNATURE) <u>[Signature]</u>			RELINQUISHED BY (SIGNATURE)			RELINQUISHED BY (SIGNATURE)				
PROJECT NUMBER		REC'D GOOD CONDITION/COLD			CONFORMS TO RECORD			RELINQUISHED BY (PRINTED NAME) <u>KETH JAY</u>			RELINQUISHED BY (PRINTED NAME)			RELINQUISHED BY (PRINTED NAME)				
SHIPPING ID NO		LAB NO.						RELINQUISHED BY (DATE) <u>2-1-91</u>			RELINQUISHED BY (DATE)			RELINQUISHED BY (DATE)				
VIA								RECEIVED BY (SIGNATURE)			RECEIVED BY (SIGNATURE)			RECEIVED BY (LABORATORY) (SIGNATURE) <u>[Signature]</u>				
SPECIAL INSTRUCTIONS/COMMENTS <u>NORMAL TACT</u>								RECEIVED BY (TIME)			RECEIVED BY (TIME)			RECEIVED BY (LABORATORY) (TIME) <u>10:50 am</u>				
								RECEIVED BY (DATE)			RECEIVED BY (DATE)			RECEIVED BY (LABORATORY) (DATE) <u>2/1/91</u>				
								RECEIVED BY (COMPANY)			RECEIVED BY (COMPANY)			RECEIVED BY (LABORATORY) (LAB) <u>Chromalab, Inc.</u>				