

# HAGEMAN-AGUIAR, INC.

*Underground Contamination Investigations  
Groundwater Consultants, Environmental Engineering*

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January 8, 1992

## QUARTERLY GROUNDWATER SAMPLING REPORT

FORMER CHEVRON STATION  
11727 Main Street  
Sunol, CA

92 JAN 15 2:11:12

On December 20, 1991, the on-site monitoring well was sampled for the subsequent laboratory analysis for dissolved petroleum constituents. The sampling is part of the regular quarterly shallow groundwater monitoring program, as required by the Alameda County Environmental Health Department and the California State Regional Water Quality Control Board. The location of the site is shown in Figure 1.

### Monitoring Well Sampling and Laboratory Analysis

On December 20, 1991, the on-site well was purged, and a groundwater sample was 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 approximately 4 casing volumes of water. Field conductivity,

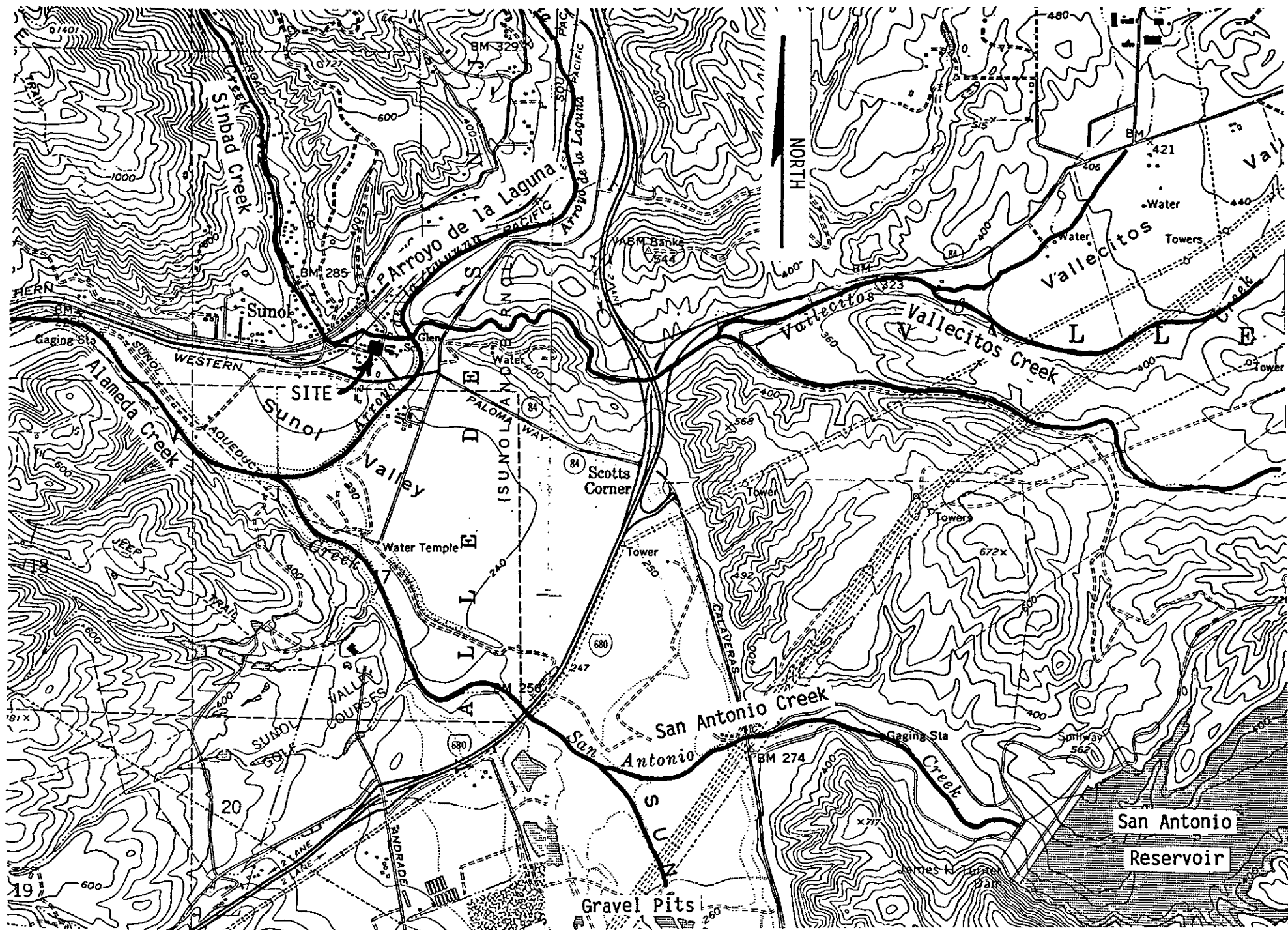


FIGURE 1. Site Vicinity Map

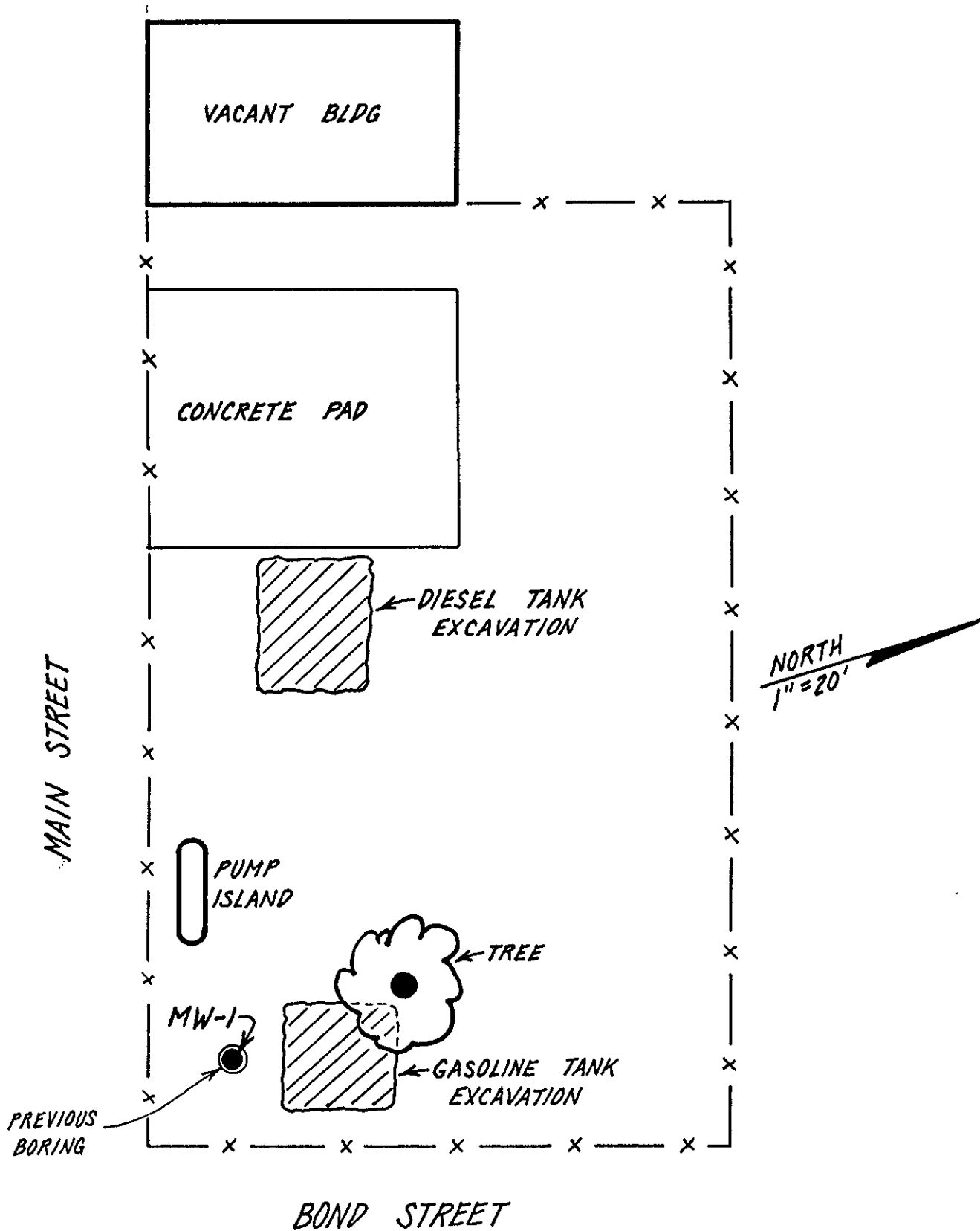


FIGURE 2.  
Location of Shallow Groundwater  
Monitoring Well MW-1.

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 static water level, a groundwater sample was collected using a clean teflon bailer. The water sample was placed inside appropriate 40 mL VOA vials and 1-liter amber bottles 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 Diesel, Total Petroleum Hydrocarbons as Gasoline, and Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

All water removed from the well during development and purging was drummed and stored on-site until the results of laboratory analyses were obtained. Depending upon these results, the water will be sewered as a non-hazardous liquid waste in accordance with local sewerage agency permit requirements, or else it will be transported as a hazardous liquid waste under proper manifest to an appropriate TSD facility for treatment and disposal.


Water Level Measurement.

The shallow groundwater elevation in MW-1 was measured as 33.12 feet below ground surface on December 20, 1991.

Laboratory Results.

Table 1 presents the results of the laboratory analysis for TPH and BTEX of the groundwater sample collected from monitoring well MW-1. As shown in this table, laboratory analysis of the shallow groundwater sample indicated 500 ug/L (ppb) of dissolved Gasoline. In addition, Xylenes were detected at a total concentration of 1.7 ug/L (ppb).

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



*Gary H. Aguiar*

Gary Aguiar

RCE 34262

Bruce Hageman

**TABLE 1.**

**Shallow Groundwater Sampling Results**

<b>Well</b>	<b>Date</b>	<b>TPH as Diesel (ug/L)</b>	<b>TPH as Gasoline (ug/L)</b>	<b>Benzene (ug/L)</b>	<b>Toluene (ug/L)</b>	<b>Ethyl-benzene (ug/L)</b>	<b>Total Xylenes (ug/L)</b>
<b>MW-1</b>	11-13-91	840	ND	ND	ND	ND	ND
	02-26-91	ND	ND	ND	ND	ND	ND
	05-16-91	220	ND	ND	ND	ND	ND
	08-19-91	480	260	0.6	ND	0.7	3.1
	12-20-91	ND	500	ND	ND	ND	1.7
<b>Detection Limit</b>		50	0.5	0.5	0.5	0.5	0.5

**ATTACHMENT A**

**WELL SAMPLING LOGS**

WELL SAMPLING LOG

Project/No. 0' LAUGHLIN Page 1 of 1  
Site Location SUNOL, CA Date 12-20-91  
Well No. MW-1 Time Sampling Began 14:45  
Weather SUNNY, 65°F Completed 16:00

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX (AT GRADE)  
Total Sounded Depth of Well Below MP 64.10  
Depth to Water Below MP 33.12 Diameter of Casing 2"  
Water Column in Well 30.98  
Gallons in Well 5.1 Gallons Pumped/Bailed Prior to Sampling 20  
Evacuation Method TEFLON BAILER

SAMPLING DATA / FIELD PARAMETERS

Color CLEAR Odor NONE  
Appearance NO SHEEN Temperature 15 °F (°C)  
Specific Conductance (umhos/cm) 800 pH 7.9  
Sampling Method and Material TEFLON BAILER

FIELD ANALYSES:	Start	Mid	End
Time	<u>15:10</u>	<u>15:35</u>	<u>15:50</u>
Temperature	<u>15</u>	<u>15</u>	<u>15</u>
Conductivity	<u>800</u>	<u>800</u>	<u>800</u>
pH	<u>7.9</u>	<u>7.9</u>	<u>7.9</u>

Sampling Personnel Keith Jay



**ATTACHMENT B**

**ANALYTICAL RESULTS: GROUNDWATER**

# CHROMALAB, INC.

5 DAYS TURNAROUND

Analytical Laboratory (E694)

December 31, 1991

ChromaLab File No.: 1291184

HAGEMAN-AGUIAR, INC.

Attn: Keith Jay

RE: One water sample for Gasoline/BTEX and Diesel analysis

Project Name: O'LAUGHLIN

Project Location: Sunol Blvd., Sunol, CA

Date Sampled: Dec. 20, 1991

Date Submitted: Dec. 20, 1991

Date Extracted: Dec. 27, 1991

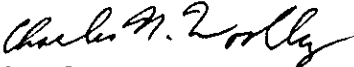
Date Analyzed: Dec. 27, 1991


## RESULTS:

Sample I.D.	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
MW 1	500	N.D.	N.D.	N.D.	N.D.	1.7

BLANK	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	92%	89%	93%	89%	95%	91%
DUP. SPIKE REC.	93%	91%	97%	93%	96%	94%
DETECTION LIMIT	50	50	0.5	0.5	0.5	0.5
METHOD OF ANALYSIS	5030/ 8015	3510/ 8015	602	602	602	602

ChromaLab, Inc.

  
Charles Woolley  
Analytical Chemist

  
Eric Tam  
Laboratory Director

4580

# CHAIN OF CUSTODY RECORD

PROJECT NAME AND ADDRESS: <u>O'LAUGHLIN</u> <u>SUNOL BLVD.</u> <u>SUNOL, CA</u>				SAMPLER (Signature) <i>[Signature]</i> <b>HAGEMAN - AGUIAR, INC.</b> 3732 Mt. Diablo Blvd., Suite 372 Lafayette, CA 94549 (415)284-1661 (415)284-1664 (FAX)		ANALYSIS REQUESTED <i>[Diagonal lines]</i> TPII-GAD BTEX			
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CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	ANALYSIS REQUESTED				REMARKS	
MW-4	12-20-91	16:00		X	MONITOR WELL #1 (1/4 LY)	X	X				NORMAL TALK

RELINQUISHED BY: (Signature) <i>[Signature]</i>	DATE <u>12-20-91</u> TIME <u>16:55</u>	RECEIVED BY: (Signature) <i>[Signature]</i>	DATE _____ TIME _____
RELINQUISHED BY: (Signature)	DATE _____ TIME _____	RECEIVED BY: (Signature)	DATE _____ TIME _____
RELINQUISHED BY: (Signature)	DATE _____ TIME _____	RECEIVED BY: (Signature)	DATE _____ TIME _____
RELINQUISHED BY: (Signature)	DATE _____ TIME _____	RECEIVED FOR LABORATORY BY: (Signature) <i>[Signature]</i>	DATE <u>12-20-91</u> TIME <u>17:00</u>