review 7-17-91 SDS

HAGEMAN-AGUIAR, INC.

Underground Contamination Investigations
Groundwater Consultants, Environmental Engineering

3732 Mt. Diablo Blvd. Suite 372
Lafayette, California 94549
(415) 284-1661
FAX (415) 284-1664

91 MAR 20 AM 11:18

March 14, 1991

QUARTERLY
GROUNDWATER SAMPLING REPORT

FORMER CHEVRON STATION
11727 Main Street
Sunol, CA

On February 26, 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 February 26, 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 3 to 5 casing volumes of water. Field conductivity,

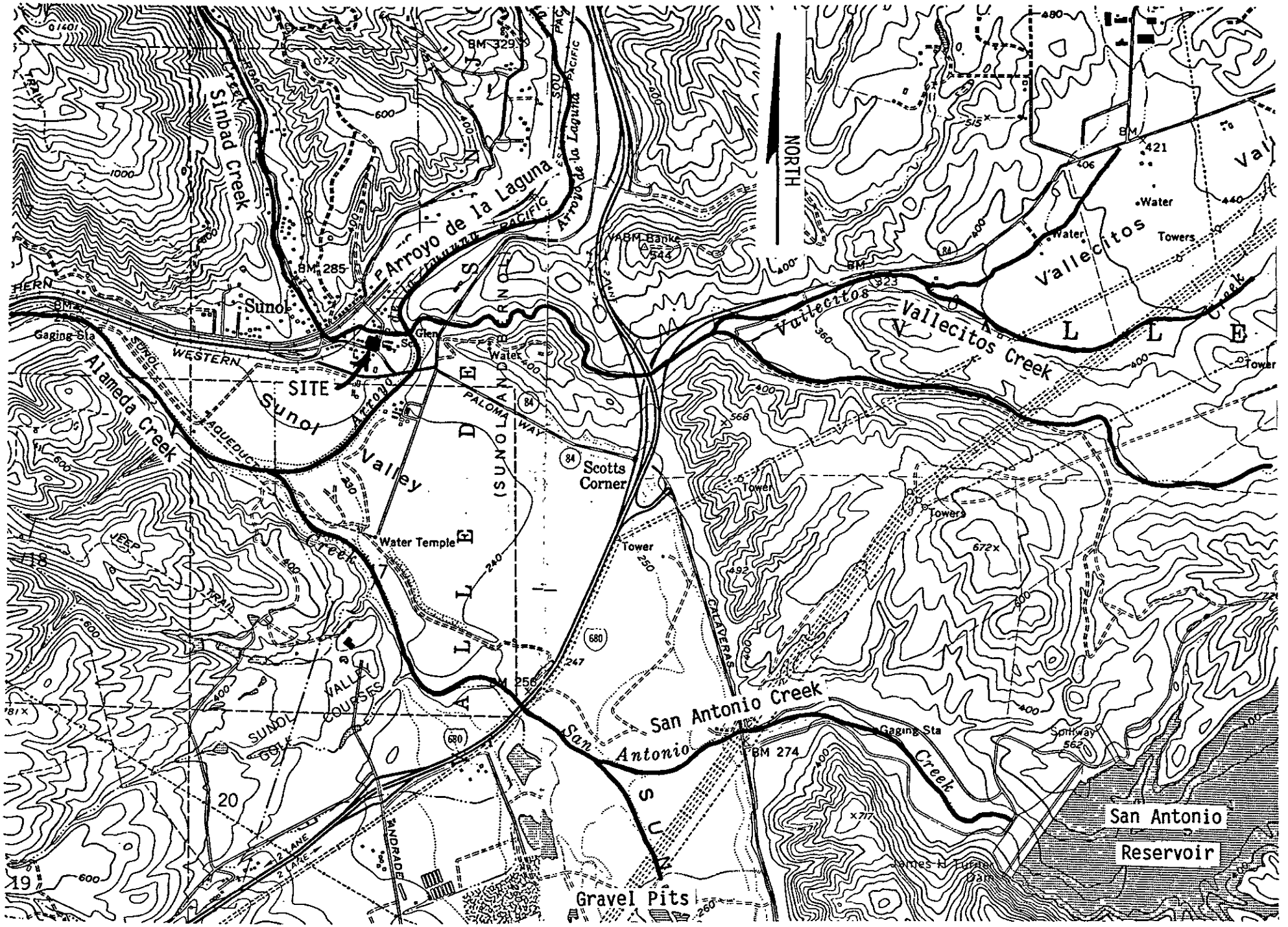

FIGURE 1. Site Vicinity Map

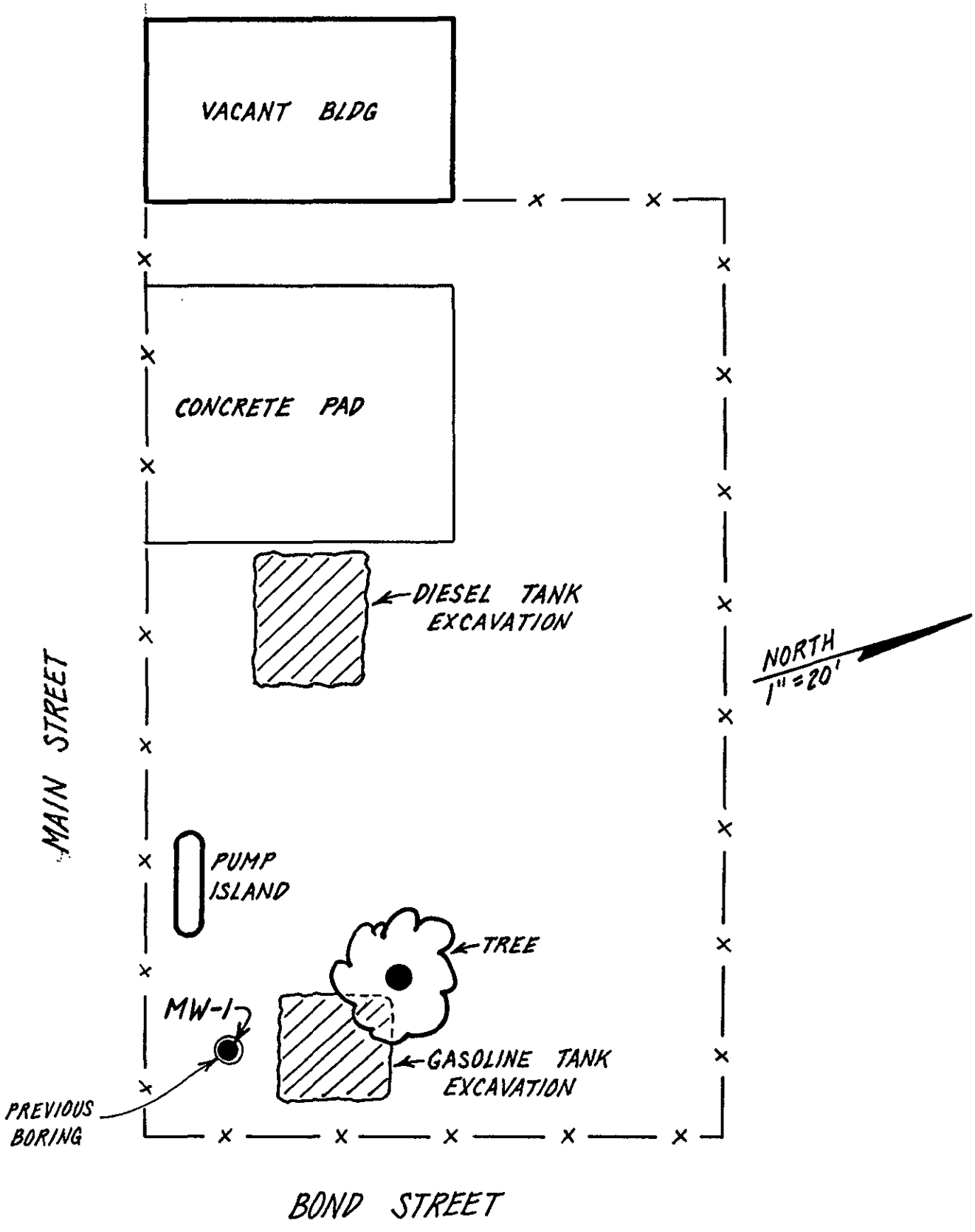

FIGURE 2.
Location of Shallow Groundwater Monitoring Well MW-1.

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 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 BTXE.

All water removed from the well during development and purging was drummed and stored on-site until the results of laboratory anaylses were obtained. Depending upon these results, the water will be sewered as a non-hazardous liquid waste in accordance with local sewering 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.

Laboratory Results.

Table 1 presents the results of the laboratory analysis for TPH and BTX of the groundwater sample collected from monitoring well MW-1. As shown in this table, the shallow groundwater sample showed no detectable concentration of dissolved Diesel. In addition, concentrations of Gasoline, Benzene, Toluene, Ethylbenzene, or Xylenes have never been detected in groundwater samples collected from monitoring well MW-1.

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

Gary Aguiar **RCE 34262**

Bruce Hageman

TABLE 1.

Shallow Groundwater Sampling Results

Well	Date	Diesel (ug/L)	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)
MW-1	11-13-91	840	ND	ND	ND	ND	ND
	02-26-91	ND	ND	ND	ND	ND	ND
Detection Limit		50	0.5	0.5	0.5	0.5	0.5

ATTACHMENT A

Well Sampling Logs

WELL SAMPLING LOG

Project/No. O'LAUGHLIN Page 1 of 1

Site Location SUNOL

Date 2-26-91

Well No. MW-1

Weather SUNNY, 65°F Time Sampling Began 13:00
Completed 14:40

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX (AT GRADE)

Total Sounded Depth of Well Below MP 65.04

Depth to Water Below MP 33.14 Diameter of Casing 2"

Water Column in Well 31.90

Gallons in Well 5.3 Gallons Pumped/Bailed Prior to Sampling 20

Evacuation Method TEFLON BAILER

SAMPLING DATA / FIELD PARAMETERS

Color CLEAR Odor NONE

Appearance ~~SLIGHT~~ OILY SPOTS Temperature 17.5 °F (°C)

Specific Conductance (umhos/cm) 800 pH 7.38

Sampling Method and Material TEFLON BAILER

FIELD ANALYSES:	Start	Mid	End
Time	13:20	13:45	14:25
Temperature	18.0	17.5	17.5
Conductivity	800	800	800
pH	7.27	7.48	7.38

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

March 11, 1991 ChromaLab File No.: 0291127

HAGEMAN-AGUIAR, INC.

Attn: Keith Jay

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

Project Name: O'LAUGHLIN
Date Sampled: Feb. 26, 1991 Date Submitted: Feb. 26, 1991
Date Extracted: March 6, 1991 Date Analyzed: March 6, 1991
RESULTS:

Sample No.	Gasoline (µg/L)	Diesel (µg/L)	Benzene (µg/L)	Toulene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	94.1%	89.1%	88.1%	84.2%	83.9%	80.9%
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.

David Duong
Chief Chemist

Eric Tam (by DD)
Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
415/831-1788 • Facsimile 415/831-8798
Federal ID #68-0140157

CHROMALAB FILE # 291127

Order # 1693

CHAIN OF CUSTODY RECORD

PROJ. NO.	SAMPLERS: (Signature)
PROJECT NAME AND ADDRESS: O'REILLY SUNOL, CA	

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	ANALYSIS REQUESTED: TOTAL PETROLEUM HYDROCARBONS (DIESEL + CAS)	BTX+E	VOC-EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD		REMARKS
MW-1	2-26-91	14:40		X	MONITOR WELL #1	X	X					10 DAY TAT

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Keith Jay	2-26-91 / 15:10		
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)	DATE 02/25/91 / TIME 3:15 PM