

# HAGEMAN-AGUIAR, INC.

*Underground Contamination Investigations  
Groundwater Consultants, Environmental Engineering*

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92102-7 11:19:14

March 2, 1992

## **QUARTERLY GROUNDWATER SAMPLING REPORT**

**FORMER CHEVRON STATION  
11727 Main Street  
Sunol, CA**

On February 12, 1992, 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 12, 1992, 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,

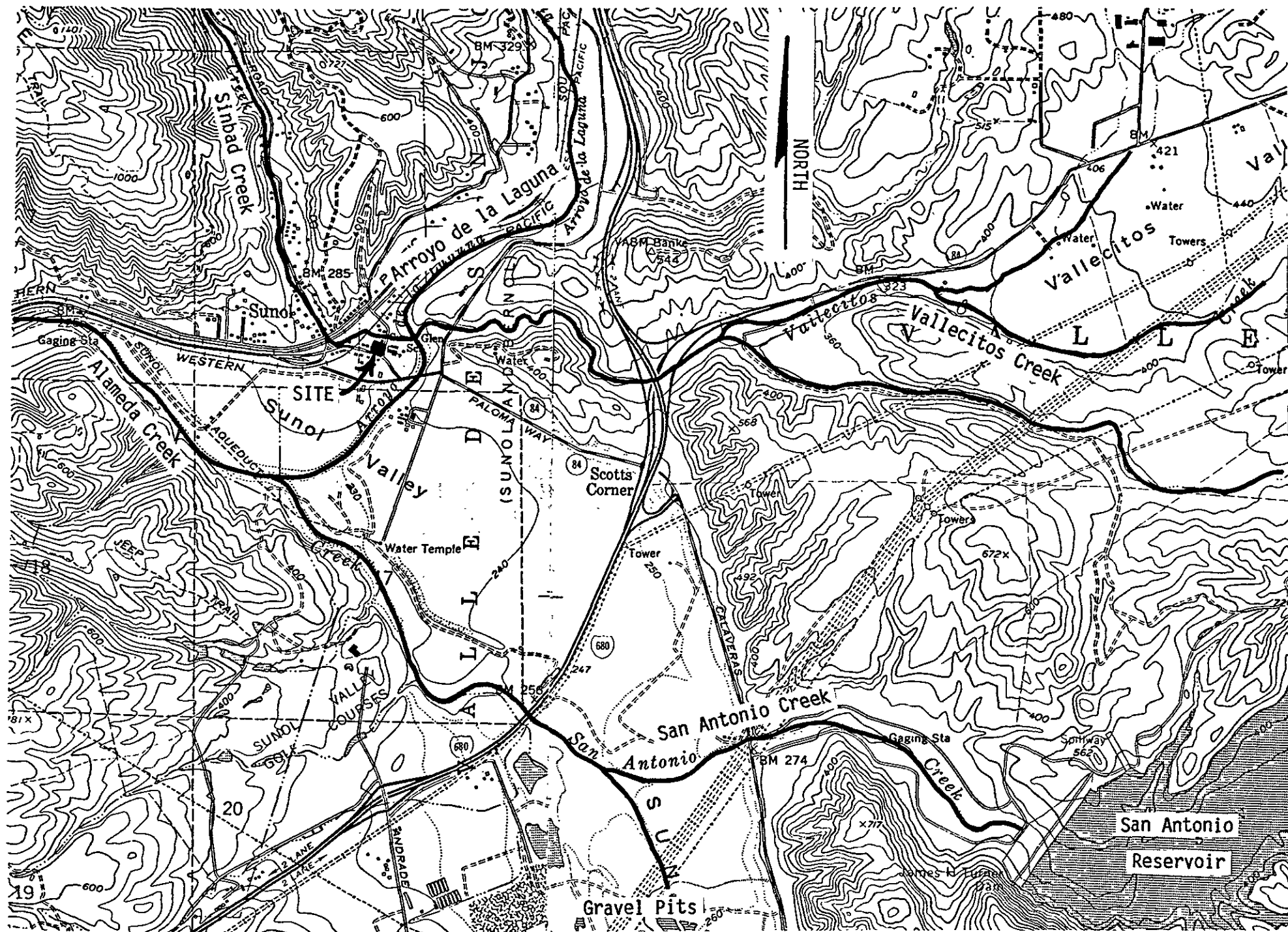


FIGURE 1. Site Vicinity Map

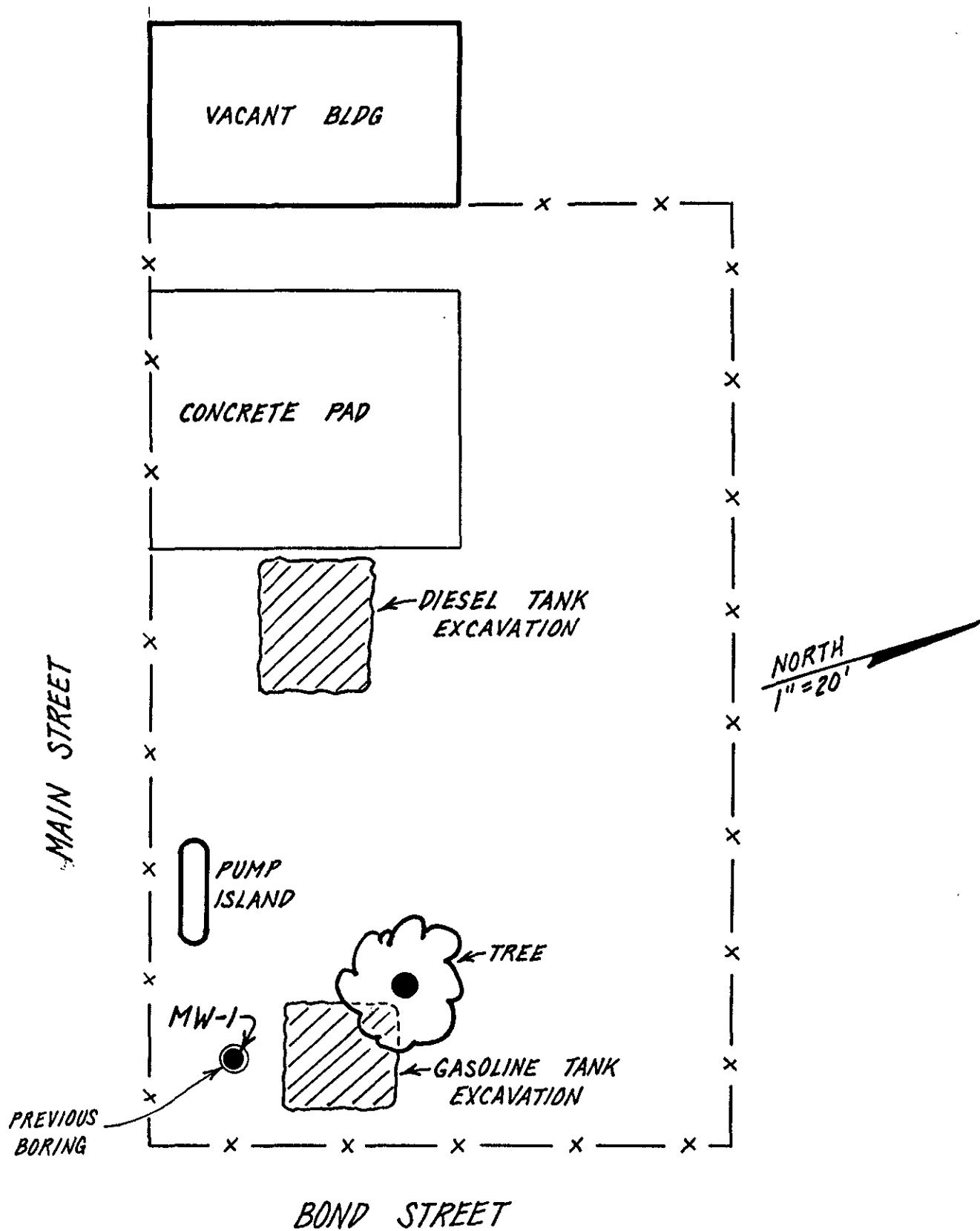


FIGURE 2.  
Location of Shallow Groundwater  
Monitoring Well MW-1.

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 32.95 feet below ground surface on February 12, 1992.

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 440  $\mu\text{g/L}$  (ppb) of dissolved Gasoline. In addition, total petroleum hydrocarbons at the Kerosene boiling point were found at a concentration of 2,200  $\mu\text{g/L}$  (ppb).

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

**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
	02-12-92	ND *	440	0.6	0.6	0.6	2.9
<b>Detection Limit</b>		50	0.5	0.5	0.5	0.5	0.5

\* Kerosene found in sample, concentration = 2,200 ug/L.

QUARTERLY GROUNDWATER SAMPLING REPORT  
FORMER CHEVRON STATION  
11727 Main Street, Sunol, CA

March 2, 1992



Gary Aguiar

RCE 34262

EXP 9-30-95

  
Bruce Hageman

**ATTACHMENT A**

**WELL SAMPLING LOGS**



WELL SAMPLING LOG

Project/No. O'LAUGHLIN Page 1 of 1  
Site Location SUNOL, CA Date 2-12-92  
Well No. MW-1  
Weather SL. CLOUDY, 55°F Time Sampling Began 10:35  
Completed 12:30

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX (AT GRADE)  
Total Sounded Depth of Well Below MP 64.00  
Depth to Water Below MP 32.95 Diameter of Casing 2"  
Water Column in Well 31.05  
Gallons in Well 5.1 Gallons Pumped/Bailed  
Prior to Sampling 22  
Evacuation Method TEFLON BAILER

SAMPLING DATA / FIELD PARAMETERS

Color CLEAR Odor SEPTIC  
Appearance NO SHEEN Temperature 17.5 °F (6) °C  
Specific Conductance (umhos/cm) 900 pH 7.7  
Sampling Method and Material TEFLON BAILER

FIELD ANALYSES:	Start	Mid	End
Time	<u>11:09</u>	<u>11:35</u>	<u>12:09</u>
Temperature	<u>17.0</u>	<u>17.5</u>	<u>17.5</u>
Conductivity	<u>900</u>	<u>900</u>	<u>900</u>
pH	<u>7.7</u>	<u>7.7</u>	<u>7.7</u>

Sampling Personnel Keith Jay

**ATTACHMENT B**

**ANALYTICAL RESULTS: GROUNDWATER**

# CHROMALAB, INC.

5 DAYS TURNAROUND

Analytical Laboratory (E694)

February 20, 1992

ChromaLab File No.: 0292107

HAGEMAN-AGUIAR, INC.

Attn: Gary Aguiar

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

Project Name: O'LAUGHLIN

Site Location: Sunol Blvd., Sunol, CA

Date Sampled: Feb. 12, 1992

Date Submitted: Feb. 12, 1992

Date Extracted: Feb. 18, 1992

Date Analyzed: Feb. 18, 1992


## 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	440	N.D.*	0.6	0.6	0.6	2.9


BLANK	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE REC.	97%	96%	99%	93%	86%	84%
DET. LIMIT	50	50	0.5	0.5	0.5	0.5
METHOD OF ANALYSIS	5030/ 8015	3510/ 8015	602	602	602	602

\* Kerosene found in sample. Concentration is 2200 ug/l.

ChromaLab, Inc.



Ron Halsne  
Analytical Chemist



Eric Tam  
Laboratory Director

CHROMALAB FILE # 292107  
 ORDER # 5458

## CHAIN OF CUSTODY RECORD

PROJ. NO.		SAMPLERS: (Signature) <i>[Signature]</i>				ANALYSIS REQUESTED <div style="display: flex; justify-content: space-around; font-size: small;"> <div style="border: 1px solid black; padding: 2px;">TOTAL PETROLEUM HYDROCARBONS (GAL)</div> <div style="border: 1px solid black; padding: 2px;">BTX</div> <div style="border: 1px solid black; padding: 2px;">VOC-EPA 8240</div> <div style="border: 1px solid black; padding: 2px;">TOTAL OIL &amp; GREASE</div> <div style="border: 1px solid black; padding: 2px;">TETRAETHYL LEAD</div> </div>				
PROJECT NAME AND ADDRESS: <i>Orion</i> <i>Sund Blvd.</i> <i>Sund, CA</i>										
ATTN: <i>CARY AQUILA</i>										
CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION					REMARKS
MW-1	2/12	1230		X	monitor well #1 (1/4 LY)	X	X			normal fat
RELINQUISHED BY: (Signature) <i>[Signature]</i>		DATE <i>2-12-92</i>		RECEIVED BY: (Signature) <i>Refaat A. Markarian</i>				DATE _____		
RELINQUISHED BY: (Signature) <i>[Signature]</i>		TIME <i>14:05</i>		RECEIVED BY: (Signature) <i>Refaat A. Markarian</i>				TIME _____		
RELINQUISHED BY: (Signature)		DATE _____		RECEIVED BY: (Signature)				DATE <i>2/12/92</i>		
RELINQUISHED BY: (Signature)		TIME _____		RECEIVED BY: (Signature)				TIME <i>2:06</i>		
RELINQUISHED BY: (Signature)		DATE _____		RECEIVED BY: (Signature)				DATE _____		
RELINQUISHED BY: (Signature)		TIME _____		RECEIVED FOR LABORATORY BY: (Signature)				TIME _____		