

HAGEMAN-AGUIAR, INC.

*Underground Contamination Investigations
Groundwater Consultants, Environmental Engineering*

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92 JUN 18 11:52

June 12, 1992

QUARTERLY GROUNDWATER SAMPLING REPORT

FORMER CHEVRON STATION
11727 Main Street
Sunol, CA

On May 13, 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 May 13, 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,

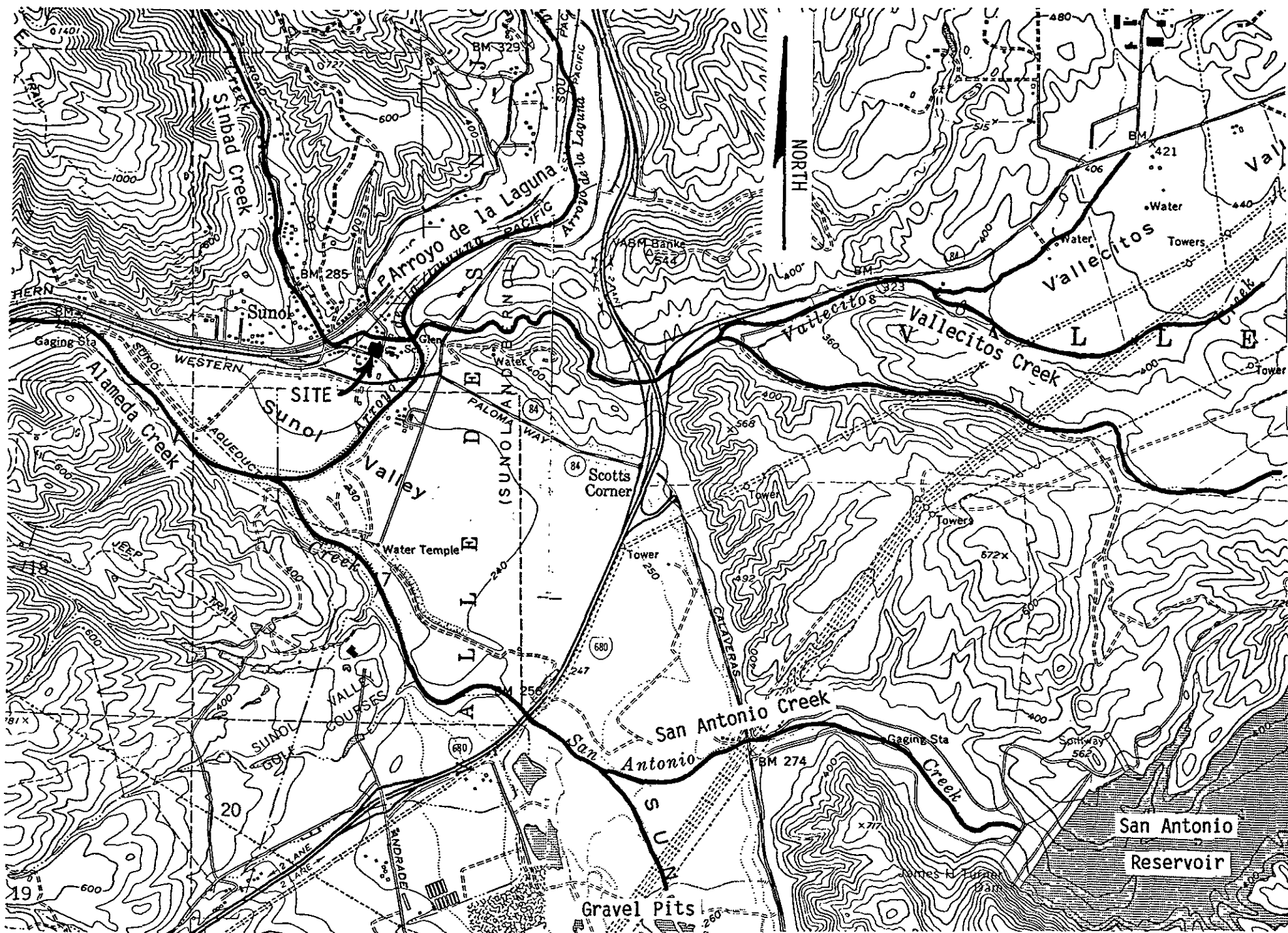


FIGURE 1. Site Vicinity Map

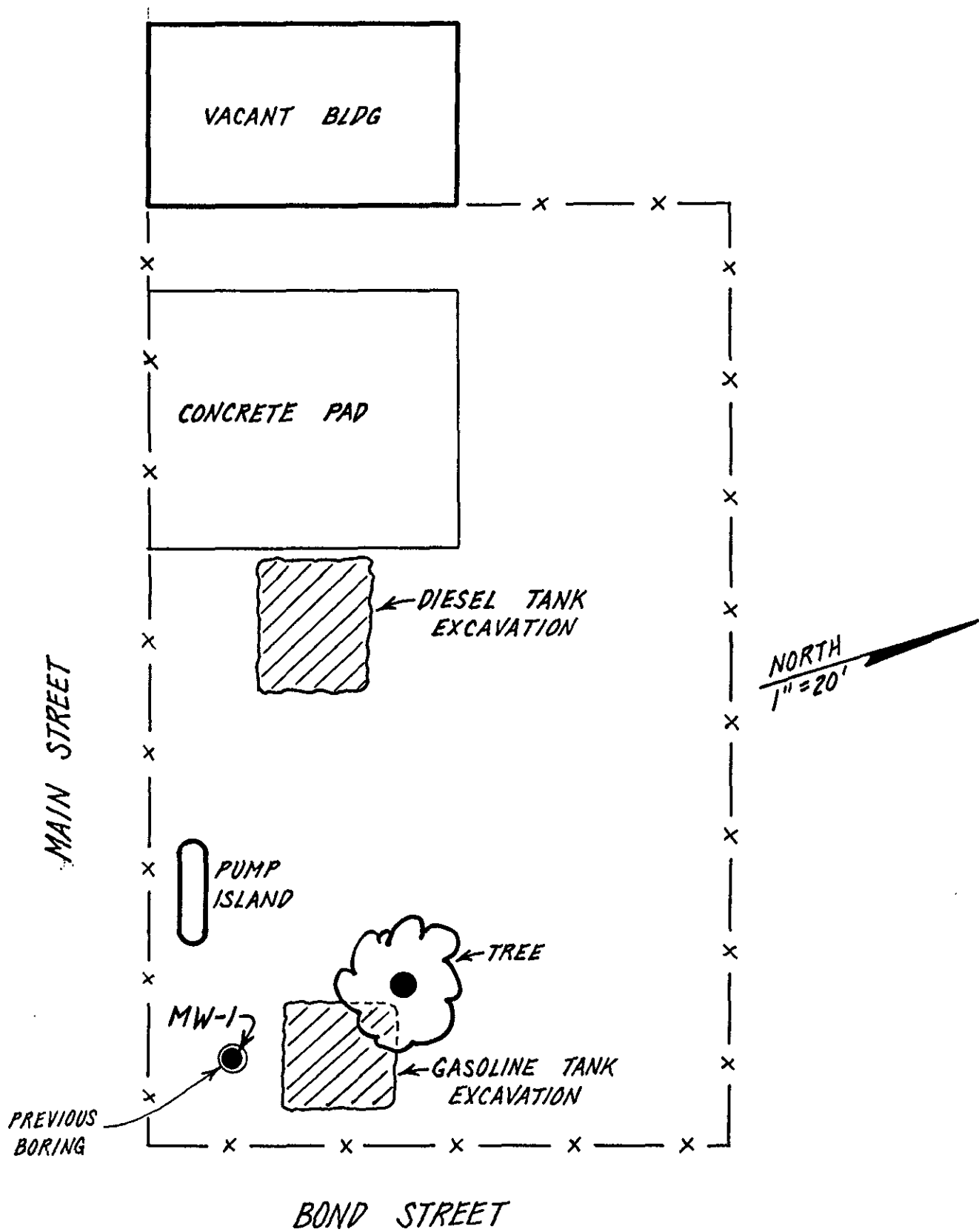


FIGURE 2.
 Location of Shallow Groundwater
 Monitoring Well MW-1.

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 cold storage unit at the Hageman-Aguilar offices. The samples were subsequently picked up by laboratory personnel and transported under chain-of-custody to the laboratory.

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 29.90 feet below ground surface on May 13, 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, no detectable concentrations of either Gasoline or Benzene were found in the shallow groundwater sample.

For this round of shallow groundwater sampling, total petroleum hydrocarbons at the Kerosene boiling point were found at a concentration of 280 $\mu\text{g/L}$ (ppb).

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

TABLE 1.

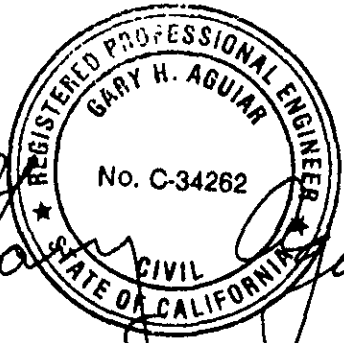
Shallow Groundwater Sampling Results

Well	Date	TPH as Gasoline (ug/L)	TPH as Kerosene (ug/L)	TPH as Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Motor Oil (mg/L)
MW-1	11-13-91	ND	---	840	ND	ND	ND	ND	---
	02-26-91	ND	---	ND	ND	ND	ND	ND	---
	05-16-91	ND	---	ND	ND	ND	ND	ND	---
	08-19-91	260	---	220	0.6	ND	0.7	3.1	---
	12-20-91	500	---	480	ND	ND	ND	1.7	---
	02-12-92	440	2,200	ND	0.6	0.6	0.6	2.9	---
	05-13-92	ND	280	ND	ND	ND	0.6	3.6	ND
Detection Limit		50	50	50	0.5	0.5	0.5	0.5	0.5

ND = Not Detected

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June 12, 1992



Gary Aguilar

Gary Aguilar

EXP. 9-30-95
RCE 34262

Bruce Hageman

Bruce Hageman

ATTACHMENT A

WELL SAMPLING LOGS

WELL SAMPLING LOG

Project/No. O'LAUGHLIN Page 1 of 1
 Site Location SUNOL Date 5/13/92
 Well No. MW 1 Time Began 1017
 Weather CLEAR / 80°F Completed 1105

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX AT GRADE
 Total Sounded Depth of Well Below MP 64.30
 - Depth to Water Below MP 29.90 Diameter of Casing 2"
 = Water Column in Well 34.4
 Gallons in Casing 5.5 + Annular Space x 4 = Total Gallons 22.0
(30% porosity)
 Gallons Pumped Prior to Sampling 22
 Evacuation Method HAND BAILED w/ ACRYLIC BAILER

SAMPLING DATA / FIELD PARAMETERS

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

	<u>1017</u>	<u>1024</u>	<u>1040</u>	<u>1052</u>
Time	<u>1017</u>	<u>1024</u>	<u>1040</u>	<u>1052</u>
Gals Removed	<u>0</u>	<u>8</u>	<u>16</u>	<u>22</u>
Temperature	<u>18.6</u>	<u>18.1</u>	<u>17.4</u>	<u>16.9</u>
Conductivity	<u>900</u>	<u>900</u>	<u>850</u>	<u>900</u>
pH	<u>6.8</u>	<u>7.0</u>	<u>7.1</u>	<u>7.2</u>
Color / Odor	<u>CLR/^{ORG.}</u>	<u>CLR/ORG.</u>	<u>GRY/NO</u>	<u>GRY/NO</u>
Turbidity	<u>LOW</u>	<u>LOW</u>	<u>MED</u>	<u>MED</u>

Comments: WATER IN WELL BOX 1/2" BELOW WELL CAP.

ATTACHMENT B

ANALYTICAL RESULTS: GROUNDWATER



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

May 21, 1992

PEL # 0592016

HAGEMAN - AGUIAR

Attn: Jeffrey Roth

Re: One water sample for Gasoline/BTEX and TEPH analyses.

Project name: O'Laughlin

Project location: Sunol

Date sampled: May 19, 1992


Date submitted: May 19, 1992

Date extracted: May 19-21, 1992

Date analyzed: May 19-21, 1992

RESULTS:




SAMPLE I.D.	Kerosene (ug/L)	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)	Motor Oil (mg/L)
MW 1	280	N.D.	N.D.	N.D.	N.D.	0.6	3.6	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	90.6%	101.4%	95.3%	89.4%	84.8%	86.8%	88.0%	---
Detection limit	50	50	50	0.5	0.5	0.5	0.5	0.5
Method of Analysis	3510 / 8015	5030 / 8015	3510 / 8015	602	602	602	602	3510 / 8015


David Duong
Laboratory Director

PEL # 0592016

INV # 201087

CHAIN OF CUSTODY RECORD

PROJECT NAME AND ADDRESS: <u>O'LAUGHAN</u> <u>SUNOL</u>					SAMPLER: (Signature) 		ANALYSIS REQUESTED <i>PRES. V. →</i> TPH GAS (HCL) BTEX (HCL) TEPH (NONE)					
					HAGEMAN - AGUIAR, INC. 3732 Mt. Diablo Blvd., Suite 372 Lafayette, CA 94549 (415)284-1661 (415)284-1664 (FAX)							
CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION						REMARKS	
<u>MW 1</u>	<u>5/13/92</u>	<u>1200</u>		<u>X</u>	<u>SUNOL</u>	<u>X</u>	<u>X</u>	<u>X</u>				<u>NORM TAT</u>
RELINQUISHED BY: (Signature) 					DATE <u>5-19-92</u> TIME <u>1435</u>		RECEIVED BY: (Signature)					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) 					DATE <u>5/19/92</u> TIME <u>14:35</u>