

JUNE, 1993 QUARTERLY GROUND  
WATER SAMPLING REPORT  
FOR  
"ABC MUSTANG" SITE  
STID #4394  
15960 EAST 14TH STREET  
SAN LEANDRO, CALIFORNIA

Geology / Engineering Geology / Environmental Studies

**HOEXTER CONSULTING, INC.**

734 Torrey Court  
Palo Alto, California 94303

(415) 494-2505

July 15, 1993  
E-19-2-064

Mr. James Stokley  
Stokley Construction  
P.O. Box 1008  
Tracy, California 95378-1008

Lorraine M. Berg  
Barbara J. Paxton  
5079 Seaview Drive  
Castro Valley, California 94546

RE: JUNE, 1993 QUARTERLY  
GROUND WATER SAMPLING REPORT  
"ABC MUSTANG" SITE  
STID #4394  
15960 EAST 14TH STREET  
SAN LEANDRO, CALIFORNIA

Ladies and Gentlemen:

Enclosed is our June, 1993 quarterly ground water sampling report for the property located at 15960 East 14th Street, San Leandro, California. This sampling round is the initial quarterly sampling performed by Hoexter Consulting at the site. The results of a previous sampling round by Hoexter Consulting, documented in our April 27, 1993 report following well installation, are included in the analytical results summary table.

The results of this investigation indicate that the water sample from the on-site well contains 86 parts per billion (ppb) total petroleum hydrocarbons as gasoline (TPH-G). The aromatic compounds benzene, toluene, xylenes, and ethylbenzene (BTXE) were not detected. The test results for TPH-G and for BTXE are approximately the same as the March, 1993 sampling results, following installation of the well.

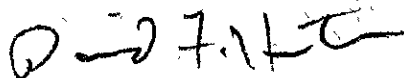
Mr. Tex Stokley; July 15, 1993

We recommend that copies of this report be submitted to the California Regional Water Quality Control Board and the Alameda County Department of Environmental Health. The next round of sampling is scheduled for the week of September 27, 1993.

We appreciate the opportunity to provide services to you on this project and trust this report meets your needs at this time. If you have any questions, or require additional information, please do not hesitate to call.

Very truly yours,

HOEXTER CONSULTING, INC.



David F. Hoexter, RG/CEG/REA  
Principal

Copies: Addressee (4)

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JUNE, 1993 QUARTERLY  
GROUND WATER SAMPLING REPORT

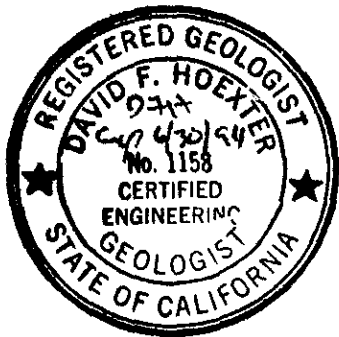
"ABC Mustang" Site  
STID #4394  
15960 East 14th Street  
San Leandro, California

To

Mr. James Stokley  
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July 15, 1993



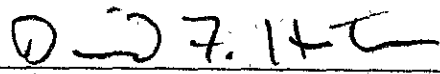
  
David F. Hoexter, RG/CEG/REA  
Principal

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JUNE, 1993 QUARTERLY GROUND WATER  
SAMPLING REPORT  
FOR  
"ABC MUSTANG" SITE  
STID #4394  
15960 EAST 14TH STREET  
SAN LEANDRO, CALIFORNIA

## I. INTRODUCTION

This report presents the results of the June, 1993 quarterly ground water sampling at 15960 East 14th Street, San Leandro, California. The project location is shown on the Location Map, Figure 1. The scope of services provided during this investigation consisted of collecting and analyzing ground water samples from one on-site monitoring well. Ground water samples were analyzed for total petroleum hydrocarbons as gasoline and for purgeable aromatic compounds. The well location is shown on the Site Plan, Figure 2.

The results of a previous sampling round by Hoexter Consulting are documented in our April 27, 1993 report of well installation and sampling.

## II. FIELD INVESTIGATION

The ground water monitoring well was sampled by a representative of Hoexter Consulting June 28, 1993. The entire well purging and sampling procedure was conducted by David F. Hoexter, CEG/REA. Following an initial ground water level measurement (Table 1), 12.5 well-casing volumes of water were purged from the well using a teflon bailer. This relatively large volume of purge water was required due to the relatively slow achievement of index parameter stabilization, particularly the continued decline of conductivity and temperature while purging. Recovery of the well during purging was rapid. The initial depth to ground water was 0.68 feet greater than the previous sampling, indicating a relatively slight decline in ground water table elevation.

Following purging, samples were collected using a disposable teflon bailer, placed in appropriate sample containers supplied by the analytical laboratory, labeled, and placed in refrigerated storage for transport to the laboratory under chain-of-custody control. All sampling equipment was thoroughly cleaned with trisodium phosphate detergent and rinsed with distilled water prior to sampling the well. Monitoring well sampling logs and the chain of custody are attached to this report as a part of Appendix I. The laboratory is California Department of Health Services approved for the requested analyses.

## III. ANALYTICAL RESULTS

### A. Laboratory Procedures

The ground water sample was analyzed by Sequoia Analytical of Redwood City, California. The sample was analyzed for total petroleum hydrocarbons as gasoline (TPH-G) using EPA Method 5030/8015, and for the purgeable aromatic compounds benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8020.

B. Analytical Results

The results of the chemical analyses are presented on Table 2 and are attached to this report as a part of Appendix I. Analytical results of the previous testing, including the March, 1993 sampling following well installation, are also included. The current analytical results indicate that hydrocarbons as gasoline were detected in the monitoring well at a concentration of 86 ug/l, or parts per billion (ppb). Purgeable aromatic compounds were not detected.

The test results indicate a very slight increase in detected concentrations of TPH-G, from 81 ppb in March, 1993 to the present level of 86 ppb. Purgeable aromatic compounds were not detected in March, 1993.

IV. LIMITATIONS

This report has been prepared according to generally accepted geologic and environmental practices. No other warranty, either expressed or implied as to the methods, results, conclusions or professional advice provided is made. The analysis, conclusions and recommendations contained in this report are based on site conditions as they existed at the time of our investigation; review of previous reports relevant to the site conditions; and laboratory results from an outside analytical laboratory.

Changes in the information or data gained from any of these sources could result in changes in our conclusions or recommendations. If such changes do occur, we should be advised so that we can review our report in light of those changes.

\*\*\*\*\*

TABLE 1

GROUND WATER ELEVATION DATA  
(All Measurements in Feet)

<u>Well Number and</u> <u>Date</u>	<u>Well Top Elevation</u>	<u>Depth to Water</u>	<u>Relative Ground</u> <u>Water Elevation</u>
MW-1 3/19/93	N/A	7.2	N/A
6/28/93	N/A	7.88	N/A

Notes:

(1) N/A = Not Applicable



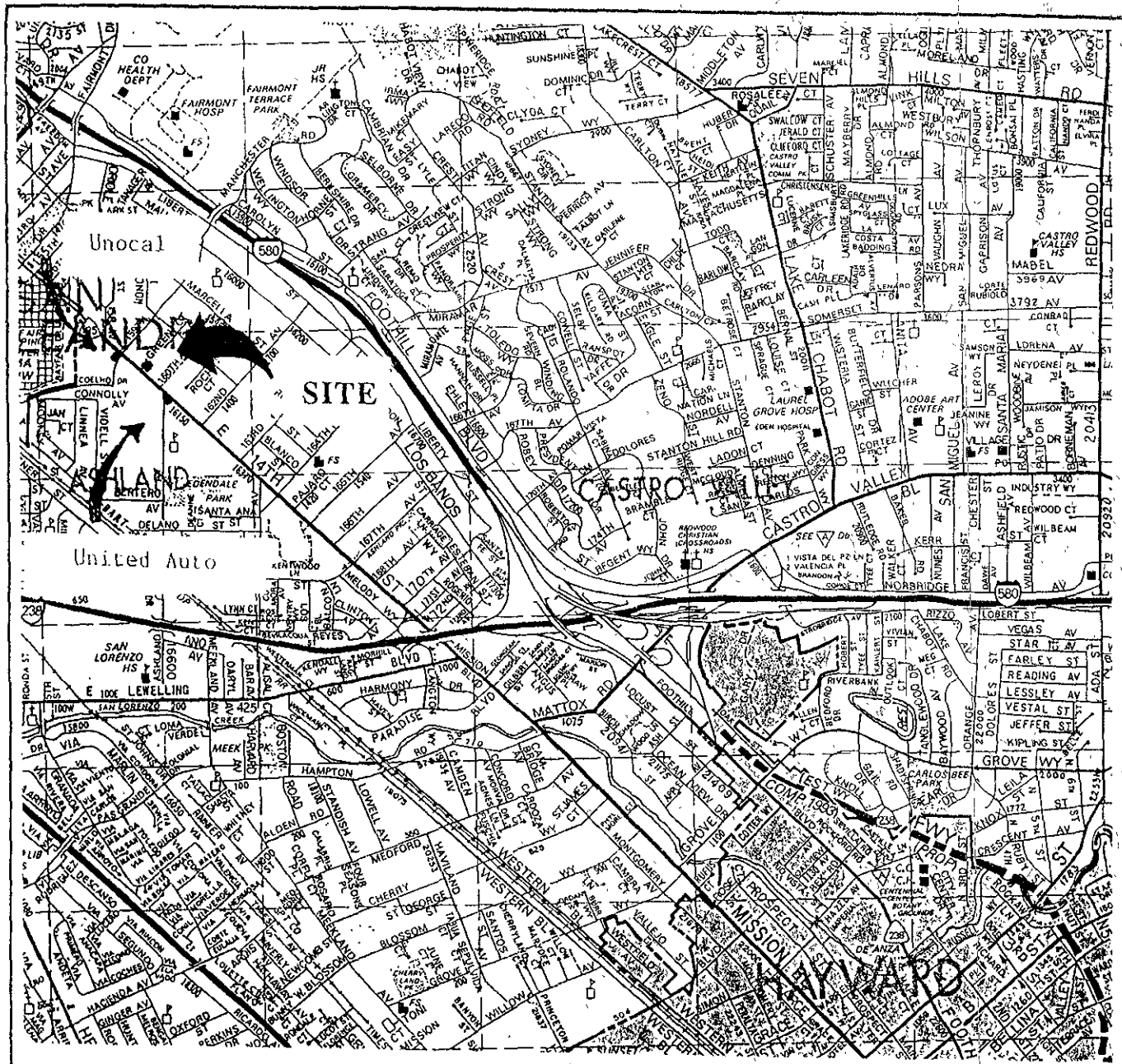
TABLE 2

SUMMARY OF GROUND WATER ANALYSES  
(Results reported in parts per billion, ug/l) (1)

<u>Well/Date</u>	<u>TPH Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethyl- benzene</u>
MW-1 3/19/93 (2)	81	ND	ND	ND	ND
6/28/93	86	ND	ND	ND	ND

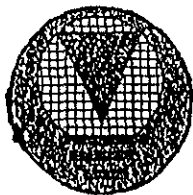
Notes:

- (1) ND - non-detect; N/A - not applicable
- (2) April 27, 1993 Hoexter Consulting report



# ALAMEDA COUNTY

1991 Thomas Guide.

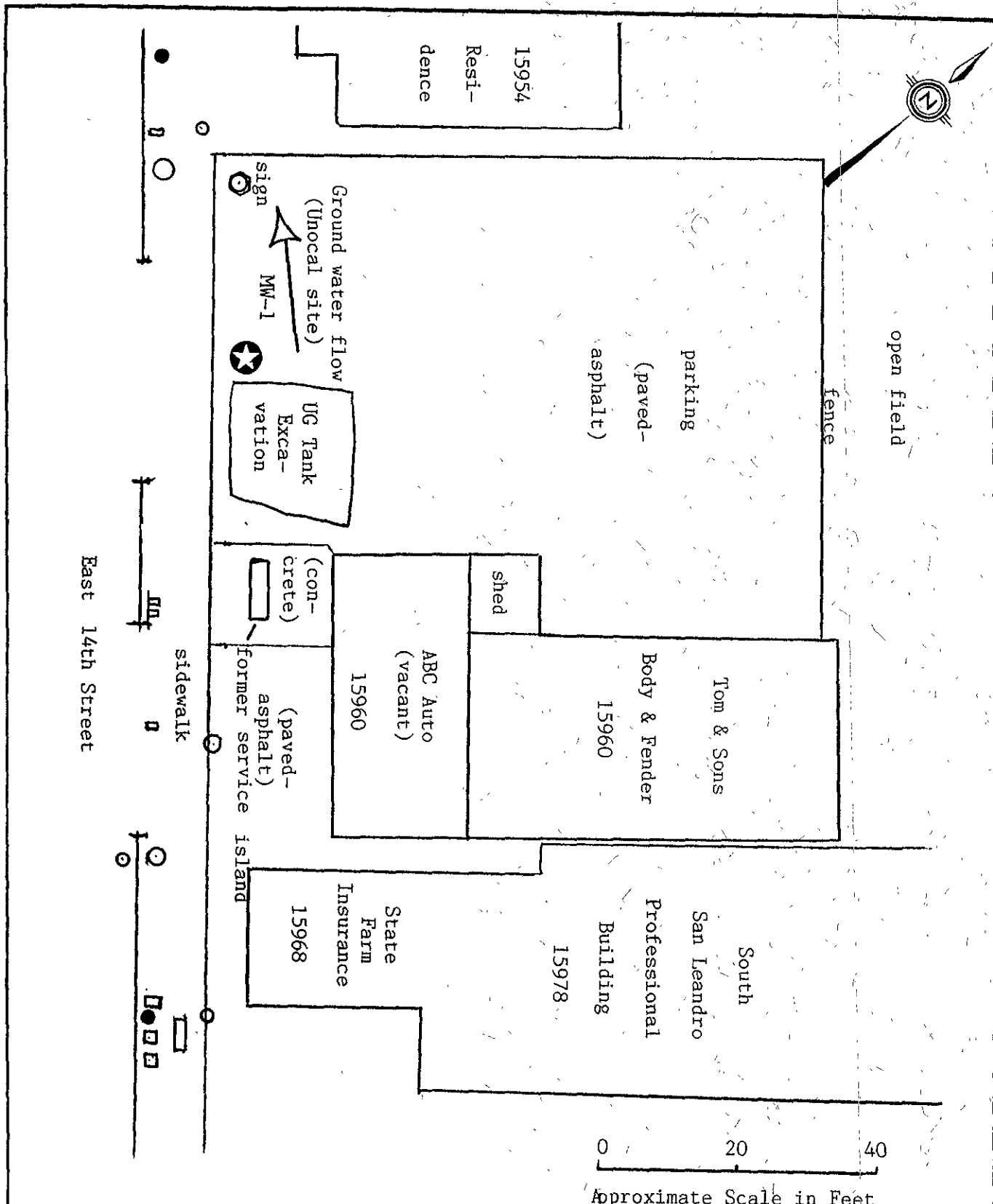


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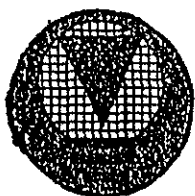
LOCATION MAP

15960 EAST 14 TH STREET  
 SAN LEANDRO, CALIFORNIA

PROJECT NO.	DATE	Figure 1
E-19-2-064	July, 1993	



Base: Tape survey, D.F. Hoexter, 9/9/93



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**SITE PLAN**

15960 EAST 14 TH STREET  
 SAN LEANDRO, CALIFORNIA

PROJECT NO.	DATE	Figure
E-19-2-064	July, 1993	2

**APPENDIX I**  
**WATER SAMPLE LOG**  
**CHAIN OF CUSTODY**  
**ANALYTICAL TEST RESULTS**

# HOEXTER CONSULTING

## Groundwater Sampling Field Log

Project Name/No: ABC Mustang - E-19-2-064  
 Client: Stokley Construction  
 Project Manager: D.F. Hoexter  
 Sampler: D. Hoexter / D. Glick  
 Casing Diameter: 2 inch  3 inch \_\_\_\_\_ 4 inch \_\_\_\_\_ 6 inch \_\_\_\_\_ Other: \_\_\_\_\_

Lab I.D.: \_\_\_\_\_  
 Date: 6/28/93  
 Sample Location/I.D.: M.W-1  
 Start Time: \_\_\_\_\_

Depth of Well (feet): 25.0  
 Depth to Water (feet): 7.88  
 Sample Depth (feet): \_\_\_\_\_

Calculated Purged Volume: 2.8 gal/wal  
 Actual Purged Volume: 35 gal

17.12' water

### Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. x/100 (umhos/cm)	Temperature Degrees C/F	Color (visual)	Other
		0	6.5	10.86	70.5		
		3	6.5	9.75	68.2		
		6	7.0	8.97	67.3		
		10	7.0	8.30	66.5		
		15	6.5	8.18	66.3		
		25	7.0	7.74	66.2		
		30	7.0	7.60	66.1		
		35	6.5	7.34	66.2	clear	

### Purge Method

\_\_\_\_\_ 2" Bladder Pump  Bailer (Teflon) \_\_\_\_\_ Well Wizard \_\_\_\_\_ Dedicated  
 \_\_\_\_\_ Submersible Pump \_\_\_\_\_ Centrifugal Pump \_\_\_\_\_ Dipper \_\_\_\_\_ Other  
 \_\_\_\_\_ Pneumatic Displacement Pump \_\_\_\_\_

### Sample Method

\_\_\_\_\_ 2" Bladder Pump  Bailer (Teflon)\* \_\_\_\_\_ Well Wizard \_\_\_\_\_ Dedicated  
 \_\_\_\_\_ Surface Sampler \_\_\_\_\_ Dipper \_\_\_\_\_ Fultz Pump \_\_\_\_\_ Other

Well Integrity: OK

Remarks: \* disposable / No sheen, product, or odor suspended  
bailer in well for future sampling use (not submerged)

Signature: D.F. Hoexter

#### Volumes Per Unit Length Selected Well Casing Diameters

Well Casing I.D. (inches)	Volume Per Unit Length			
	Gal/ft	Cubic Ft/ft	L/M	L/Ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

#### Conversion Factors

To Convert	Into	Multiply
Ft. of Water	Lbs/sq.in.	0.4335
Lbs/Sq. inch	Ft. of Water	2.3070
Cubic feet	Gallons	7.4800
Gallons	Liters	3.7850
Feet	Meters	0.30048
Inches	Centimeters	2.5400





# SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063  
(415) 364-9600 • FAX (415) 364-9233

Hoexter Consulting Eng'g Geo 734 Torrey Court Palo Alto, CA 94303 Attention: David F. Hoexter	Client Project ID: E-19-2-064 ABC Mustang Sample Matrix: Water Analysis Method: EPA 5030/8015/8020 First Sample #: 3FD6101	Sampled: Jun 28, 1993 Received: Jun 29, 1993 Reported: Jul 14, 1993
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## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 3FD6101 MW-1,2,3
Purgeable Hydrocarbons	50	86
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Total Xylenes	0.50	N.D.

Chromatogram Pattern: Discrete Peak

### Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	7/8/93
Instrument Identification:	GCHP-3
Surrogate Recovery, %: (QC Limits = 70-130%)	97

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.  
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

Maria Lee  
Project Manager



# SEQUOIA ANALYTICAL

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Hoexter Consulting Eng'g Geo 734 Torrey Court Palo Alto, CA 94303 Attention: David F. Hoexter	Client Project ID: E-19-2-064 ABC Mustang Matrix: Water QC Sample Group: 3FD6101	Reported: Jul 14, 1993
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## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
<b>Method:</b>	EPA 8020	EPA 8020	EPA 8020	EPA 8020
<b>Analyst:</b>	M. Nipp	M. Nipp	M. Nipp	M. Nipp
<b>Conc. Spiked:</b>	10	10	10	30
<b>Units:</b>	µg/L	µg/L	µg/L	µg/L
<b>LCS Batch#:</b>	GBLK070893	GBLK070893	GBLK070893	GBLK070893
<b>Date Prepared:</b>	N/A	N/A	N/A	N/A
<b>Date Analyzed:</b>	7/8/93	7/8/93	7/8/93	7/8/93
<b>Instrument I.D.#:</b>	GCHP-3	GCHP-3	GCHP-3	GCHP-3
<b>LCS % Recovery:</b>	90	90	91	90
<b>Control Limits:</b>	80-120	80-120	80-120	80-120

MS/MSD Batch #:	G3FD3404	G3FD3404	G3FD3404	G3FD3404
<b>Date Prepared:</b>	N/A	N/A	N/A	N/A
<b>Date Analyzed:</b>	7/8/93	7/8/93	7/8/93	7/8/93
<b>Instrument I.D.#:</b>	GCHP-3	GCHP-3	GCHP-3	GCHP-3
<b>Matrix Spike % Recovery:</b>	92	92	93	93
<b>Matrix Spike Duplicate % Recovery:</b>	93	91	93	93
<b>Relative % Difference:</b>	1.1	1.1	0.0	0.0

SEQUOIA ANALYTICAL

Maria Lee  
Project Manager

**Please Note:**

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation and analytical methods employed for the samples. The LCS % recovery data is used for validation of sample batch results. Due to matrix effects, the QC limits for MS/MSD's are advisory only and are not used to accept or reject batch results.