

ALCO
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Chevron

February 9, 1994

Chevron U.S.A. Products Company

2410 Camino Ramon
San Ramon, CA 94583
P.O. Box 5004
San Ramon, CA 94583-0804

Marketing Department

Phone 510 842 9500

Ms. Susan Hugo
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

**Re: Chevron Service Station #9-0338
5500 Telegraph Avenue, Oakland, CA**

Dear Ms. Hugo:

Enclosed is the quarterly Groundwater Monitoring and Sampling Activities report dated December 13, 1993, prepared by our consultant Groundwater Technology, Inc. for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. Concentrations of these constituents were below method detection limits for all samples analyzed.

Our consultant is preparing a closure report for this site as petroleum hydrocarbon concentrations have been below MCL's for all sampling rounds since 1989. We have suspended the quarterly monitoring pending case closure.

If you have any questions or comments, please do not hesitate to call me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY

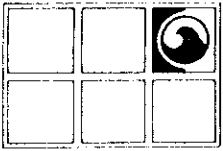
A handwritten signature in cursive script, appearing to read "Mark A. Miller".

Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Eddy So, RWQCB - Bay Area
Mr. S.A. Willer

DEC 20 1993 K.L.N.



GROUNDWATER TECHNOLOGY, INC.

4057 Port Chicago Highway, Concord, CA 94520 (415) 671-2387

FAX: (415) 685-9148

December 13, 1993

Project No. 020204109

Mr. Mark Miller
Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583-0804

SUBJECT: *Groundwater Monitoring and Sampling Activities*
Former Chevron Service Station No. 9-0338
5500 Telegraph Avenue, Oakland, California

Dear Mr. Miller:

Groundwater Technology, Inc. presents the attached quarterly groundwater monitoring and sampling data collected on November 15, 1993. Three groundwater monitoring wells at this site were gauged to measure depth to groundwater (DTW) and to check for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not detected in the monitoring wells. A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 1) are presented in Attachments 1 and 2, respectively. After the DTW was measured, each monitoring well was purged and sampled. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, and xylenes and for total petroleum hydrocarbons-as-gasoline. Results of the chemical analyses are summarized in Table 1. The laboratory report and chain-of-custody record are included in Attachment 3. Monitoring-well purge water was transported by Groundwater Technology to the Chevron Terminal in Richmond, California, for recycling.

Groundwater Technology is pleased to assist Chevron on this project. If you have any questions or comments, please contact our Concord office at (510) 671-2387.

Sincerely,
Groundwater Technology, Inc.
Written/Submitted by

Tim Watchers

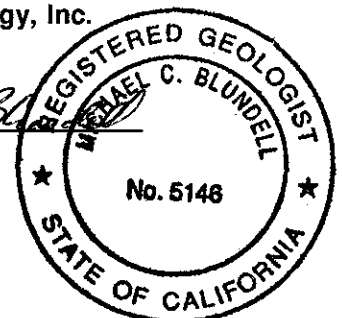
Tim Watchers
Project Geologist

PR *Jm*

Attachment 1 Figure
Attachment 2 Table
Attachment 3 Laboratory Report

Groundwater Technology, Inc.
Reviewed/Approved by

Michael C. Blundell
Michael C. Blundell
Registered Geologist
No. 5146

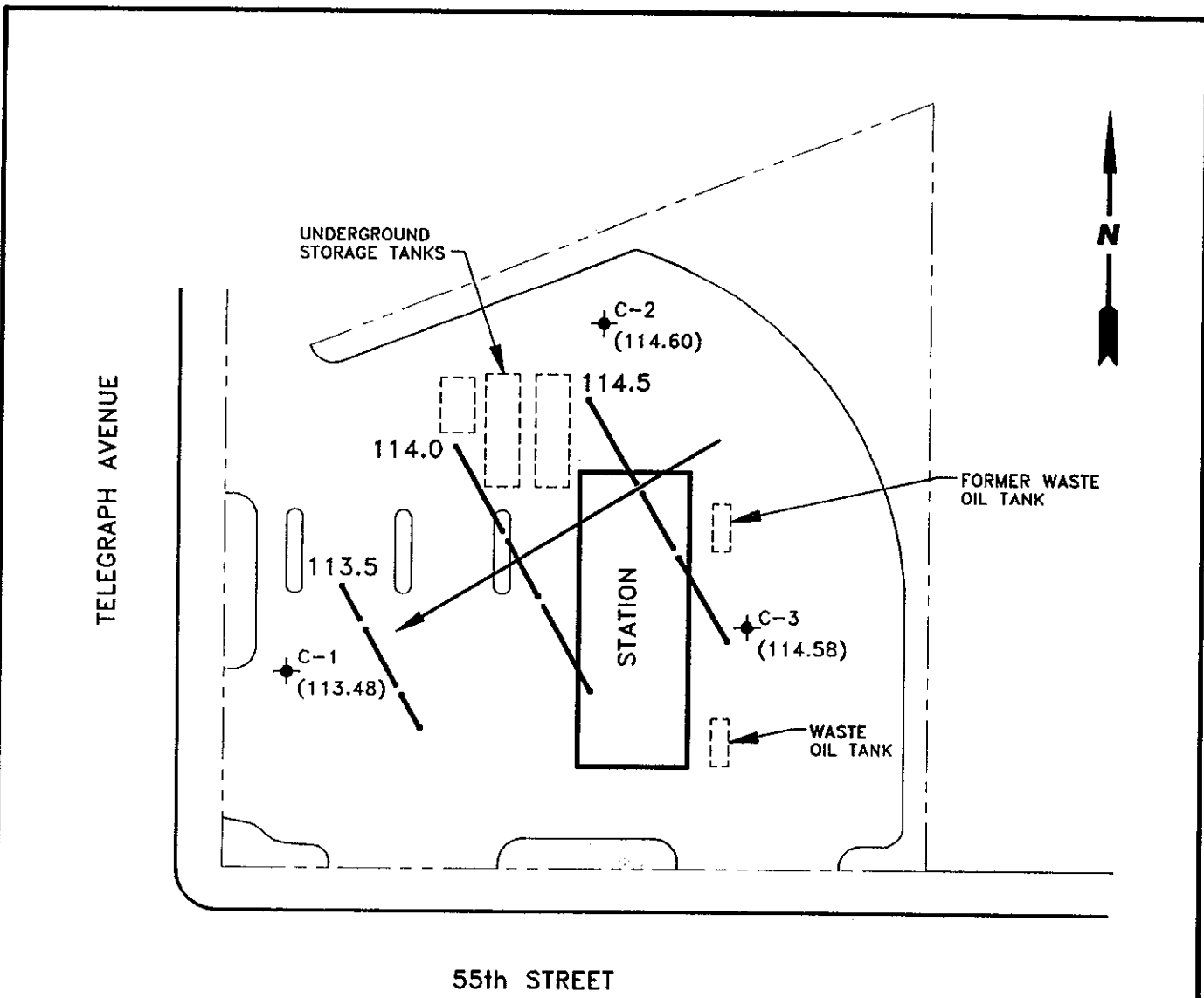


For:
Wendell W. Lattz
Vice President, General Manager
West Region

4109R033.020

ATTACHMENT 1

Figure



LEGEND

- ◆ MONITORING WELL
- () POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- POTENTIOMETRIC SURFACE CONTOUR
- ← GROUNDWATER FLOW DIRECTION



| | | | | | | | |
|---|--------------------|--|---|---|---------------------------|------------------|--|
| | | GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY. CONCORD, CA 94520 (510) 671-2387 | | POTENTIOMETRIC SURFACE MAP (11/5/93) | | | |
| CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-0338 | | | LOCATION: 5500 TELEGRAPH AVENUE OAKLAND, CALIFORNIA | | REV. NO.: 0 | DATE: 12/9/93 | |
| PM <i>JAW</i> | PE/RG <i>MB</i> | DESIGNED TW | DETAILED CY | ACAD FILE: PSMD93 | PROJECT NO.: 020204116 | FIGURE: 1 | |

ATTACHMENT 2

Table

TABLE 1
GROUNDWATER MONITORING DATA
Chevron Service Station No. 9-0338
5500 Telegraph Avenue, Oakland, California

| Well ID/ Elevation | Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | TPH-D | TOG | TTL | HVOC | DTW (ft) | SPT (ft) | WTE (ft) |
|-----------------------|-----------|-------|---------|---------|-------------------|---------|-------|-----|------|-------|-------------|-------------|-------------|
| C-1 123.88 | 11/21/89 | <500 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | 10.75 | 0.00 | 113.13 |
| | 03/20/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | 9.93 | 0.00 | 113.95 |
| | 06/27/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | <0.5 | -- | 9.64 | 0.00 | 114.24 |
| | D06/27/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | <0.5 | -- | 9.64 | 0.00 | 114.24 |
| | *10/12/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10.91 | 0.00 | 112.97 |
| | D10/12/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | 10.91 | 0.00 | 112.97 |
| | 12/20/90 | 75 | <0.5 | 0.9 | 0.8 | 3 | -- | -- | -- | -- | 9.76 | 0.00 | 114.12 |
| | D12/20/90 | 73 | <0.5 | 0.6 | 0.7 | 2 | -- | -- | -- | -- | 9.76 | 0.00 | 114.12 |
| | 04/10/91 | <50 | 0.7 | 1.2 | <0.5 | 1.0 | -- | -- | -- | -- | 8.76 | 0.00 | 115.12 |
| | D04/10/91 | <50 | 0.9 | 1.5 | <0.5 | 1.5 | -- | -- | -- | -- | 8.76 | 0.00 | 115.12 |
| | 02/26/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | 8.08 | 0.00 | 115.80 |
| | 02/04/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | 8.26 | 0.00 | 115.62 |
| | 07/27/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | 10.04 | 0.00 | 113.84 |
| | 09/22/93 | 79 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | 10.32 | 0.00 | 113.56 |
| 11/15/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 10.40 | 0.00 | 113.48 | |
| C-2 124.92 | 11/21/89 | <500 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | 10.75 | 0.00 | 114.17 |
| | 03/20/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | 9.44 | 0.00 | 115.48 |
| | 06/27/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | <0.5 | -- | 9.55 | 0.00 | 115.37 |
| | 10/12/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | 10.89 | 0.00 | 114.03 |
| | 12/20/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | 9.65 | 0.00 | 115.27 |
| | 04/10/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | 8.04 | 0.00 | 116.88 |
| | 02/26/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | 7.03 | 0.00 | 117.89 |
| | 02/04/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | 7.06 | 0.00 | 117.86 |
| | 07/27/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | 9.78 | 0.00 | 115.14 |
| | 09/22/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | 9.97 | 0.00 | 114.95 |
| | 11/15/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 10.32 | 0.00 | 114.60 |

TABLE 1
GROUNDWATER MONITORING DATA
Chevron Service Station No. 9-0338
5500 Telegraph Avenue, Oakland, California

| Well ID/ Elevation | Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | TPH-D | TOG | TTL | HVOC | DTW (ft) | SPT (ft) | WTE (ft) |
|-----------------------|-----------|-------|---------|---------|-------------------|---------|-------|-------|------|--------|-------------|-------------|-------------|
| C-3 125.64 | 11/21/89 | <500 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | --- | 11.28 | 0.00 | 114.36 |
| | 01/12/90 | --- | --- | --- | --- | --- | <1000 | <5000 | --- | --- | --- | 0.00 | --- |
| | 03/20/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5000 | --- | --- | 10.39 | 0.00 | 115.25 |
| | 06/27/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | <0.5 | --- | 10.32 | 0.00 | 115.32 |
| | 10/12/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | --- | 11.28 | 0.00 | 114.36 |
| | 12/20/90 | 54 | <0.5 | <0.5 | <0.5 | 0.7 | --- | --- | --- | --- | 10.25 | 0.00 | 115.39 |
| | 04/10/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | --- | 8.79 | 0.00 | 116.85 |
| | 02/26/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | --- | 7.83 | 0.00 | 117.81 |
| | 02/04/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | --- | 7.94 | 0.00 | 117.70 |
| | 07/27/93 | **280 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | --- | --- | --- | 10.59 | 0.00 | 115.05 |
| | 09/22/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | --- | --- | ***1.0 | 10.78 | 0.00 | 114.86 |
| | 11/15/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 11.06 | 0.00 | 114.58 |
| TRIP BLANK | 03/20/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | --- | --- | --- | --- | --- | --- |
| | 06/27/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | --- | --- | --- | --- |
| | *10/12/90 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | 12/20/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | --- | --- | --- | --- |
| | 04/10/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | --- | --- | --- | --- |
| | 02/26/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | --- | --- | --- | --- |
| | 07/27/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | --- | --- | --- | --- | --- | --- | --- |
| | 09/22/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | --- | --- | --- | --- | --- | --- | --- |
| | 11/15/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | --- | --- | --- | --- |

TABLE 1
GROUNDWATER MONITORING DATA
Chevron Service Station No. 9-0338
5500 Telegraph Avenue, Oakland, California

| Well ID/ Elevation | Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | TPH-D | TOG | TTL | HVOC | DTW (ft) | SPT (ft) | WTE (ft) |
|-----------------------|-----------|-------|---------|---------|-------------------|---------|-------|-----|-----|------|-------------|-------------|-------------|
| RINSATE | 06/27/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- |
| | *10/12/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/20/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- |
| | 04/10/91 | <50 | <0.5 | 0.6 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- |
| | 02/26/92 | <50 | <0.5 | <0.5 | <0.5 | 3.3 | -- | -- | -- | -- | -- | -- | -- |
| | 11/15/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- |

- TPH-G = Total petroleum hydrocarbons-as-gasoline
 TPH-D = Total petroleum hydrocarbons-as-diesel fuel
 TOG = Total oil and grease
 TTL = Lead
 HVOC = Hydrocarbon volatile organics
 DTW = Depth to water
 SPT = Separate-phase hydrocarbon thickness
 WTE = Water table elevations measured to mean sea level
 -- = Not applicable/not measured/not sampled
 D = Duplicate
 * = Samples broken by laboratory.
 ** = Gasoline range concentrations reported. The pattern of peaks observed in the chromatogram shows only single peak in the gasoline range.
 *** = Dichloromethane

ATTACHMENT 3

Laboratory Report



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 ▪ Martinez, California 94553 ▪ (510) 229-1512 / fax (510) 229-1526

GROUNDWATER TECHNOLOGY, INC.
Attn: TIM WATCHERS

4-0338
Project 9-6338
Reported 11/23/93
Typo from
COC.
Jm
12/11/93

TOTAL PETROLEUM HYDROCARBONS

| Lab # | Sample Identification | Sampled | Analyzed Matrix |
|----------|-----------------------|----------|-----------------|
| 30063- 1 | TB-LB | 11/15/93 | 11/19/93 Water |
| 30063- 2 | C-3 | 11/15/93 | 11/19/93 Water |
| 30063- 4 | RBC-3 | 11/15/93 | 11/19/93 Water |
| 30063- 6 | C-2 | 11/15/93 | 11/19/93 Water |
| 30063- 8 | C-1 | 11/15/93 | 11/19/93 Water |

RESULTS OF ANALYSIS

Laboratory Number: 30063- 1 30063- 2 30063- 4 30063- 6 30063- 8

| | | | | | |
|----------------|--------|--------|--------|--------|--------|
| Gasoline: | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 |
| Benzene: | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| Toluene: | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| Ethyl Benzene: | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| Total Xylenes: | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| Concentration: | ug/L | ug/L | ug/L | ug/L | ug/L |



C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2
QA/QC INFORMATION
SET: 30063

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
ug/L = parts per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Water: 5000ug/L

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Water: 50ug/L

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/L

| ANALYTE | MS/MSD RECOVERY | RPD | CONTROL LIMIT |
|----------------|-----------------|-----|---------------|
| Gasoline: | 103/107 | 3 | 70-130 |
| Benzene: | 102/101 | 1 | 70-130 |
| Toluene: | 104/103 | 4 | 70-130 |
| Ethyl Benzene: | 91/90 | 1 | 70-130 |
| Total Xylenes: | 99/99 | 0 | 70-130 |

Asanah. Sab...
Senior Chemist

Fax copy of Lab Report and COC to Chevron Contact:

Yes
 No

30063
Chain-of-Custody-Record

| | | |
|--|--|---|
| Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591 | Chevron Facility Number <u>9-6338</u> | Chevron Contact (Name) <u>Mark Miller</u> |
| | Facility Address <u>5500 Telegraph Ave</u> | (Phone) <u>842-8134</u> |
| | Consultant Project Number <u>20204109</u> | Laboratory Name <u>Superior</u> |
| | Consultant Name <u>GTI</u> | Laboratory Release Number <u># 2104-10690</u> |
| Address <u>4057 Port Chicago Hwy</u> | | Sample Collected by (Name) <u>Mark Garcia</u> |
| Project Contact (Name) <u>Tim Watchers</u> | | Collection Date <u>11-15-93</u> |
| (Phone) <u>415-2387</u> (Fax Number) <u> </u> | | Signature <u>Mark Garcia</u> |

| Sample Number | Lab Sample Number | Number of Containers | Matrix S = Soil W = Water A = Air C = Charcoal | Type G = Grab C = Composites D = Discrete | Time | Sample Preservation | Iced (Yes or No) | Analyses To Be Performed | | | | | | | | | | NOTE: Do NOT BILL TB-LB SAMPLES | |
|---------------|-------------------|----------------------|--|--|-------|---------------------|------------------|------------------------------|-------------------|-----------------------|------------------------------|----------------------------|---------------------------|-----------------------------|--|---------|--|---------------------------------------|--|
| | | | | | | | | BTEX + TPH GAS (8020 + 8015) | TPH Diesel (8015) | Oil and Grease (5520) | Purgeable Halocarbons (8010) | Purgeable Aromatics (8020) | Purgeable Organics (8240) | Extractable Organics (8270) | Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA) | Remarks | | | |
| TB-LB | | 2 | W | | 10:45 | HCl | Y | X | | | | | | | | | | | |
| C-3 | | 3 | | | 10:50 | HCl | | X | | | | | | | | | | | |
| C-3 | | 3 | | | 10:50 | NONE | | | | | | | | | | | | | |
| RBC-3 | | 1 | | | 10:50 | HCl | | X | | | | | | | | | | | |
| RBC-2 | | 1 | | | 11:00 | HCl | | X | | | | | | | | | | | |
| C-2 | | 3 | | | 11:00 | HCl | | X | | | | | | | | | | | |
| RBC-1 | | 1 | V | | 11:15 | HCl | | X | | | | | | | | | | | |
| C-1 | | 3 | | | 11:15 | HCl | | X | | | | | | | | | | | |

Well # C-3 U a single peak shows up after cleaning the BTEX-TPH-G, run the EPA 401 to identify, only after contacting Tim Watchers

| | | | | | | |
|--|-----------------------------|------------------------------------|--|-----------------------------|------------------------------------|---|
| Relinquished By (Signature) <u>Mark Garcia</u> | Organization <u>GTI</u> | Date/Time <u>11/15/93</u> | Received By (Signature) <u>Tim Watchers</u> | Organization <u>GTI</u> | Date/Time <u>11/15/93</u> | Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u> |
| Relinquished By (Signature) <u>Tim Watchers</u> | Organization <u>GTI</u> | Date/Time <u>11/16/93 10:00</u> | Received By (Signature) <u>Ronald Chaff</u> | Organization <u>Aeco</u> | Date/Time <u>11/16/93 10:20</u> | |
| Relinquished By (Signature) <u>Ronald Chaff</u> | Organization <u>Aeco</u> | Date/Time <u>11/16/93 10:20</u> | Received For Laboratory By (Signature) <u>Rayford</u> | Organization <u>Aeco</u> | Date/Time <u>11/16/93</u> | |



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

MOCK INVOICE

Chevron USA
P.O. Box 5004
San Ramon, CA 94583

Date: 11/23/93
Date Rcvd: 11/16/93
Date Rptd: 11/23/93
Our Job #: 30063
Invoice #: 30063

GROUNDWATER TECHNOLOGY, INC. Job # 9-6338
Chevron USA Release # 264-6690 Facility #: 9-6338

| QTY/MATRIX | ANALYSIS | EXT. PRICE |
|---------------|-------------------------------|----------------------|
| 4 | Water sample(s) for VPHBTXE @ | \$0.00 (NORMAL) 0.00 |
| 3 | Water sample(s) for HOLD @ | \$0.00 (NORMAL) 0.00 |
| TOTAL INVOICE | | 0.00 |

Please Send Payment To:
Superior Precision Analytical
P.O. Box 1545
Martinez, CA 94553

TERMS: NET 30

A charge of 1.5% per month may be applied to unpaid balances.