



GETTLER-RYAN INC.

October 31, 2000
G-R Job #386456

Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

RE: Third Quarter Event of July 27, 2000
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-0338
5500 Telegraph Avenue
Oakland, California

Dear Mr. Bauhs:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

Deanna L. Harding

Deanna L. Harding
Project Coordinator

Barbara Sieminski

Barbara Sieminski
Senior Geologist, R.G. No. 6676

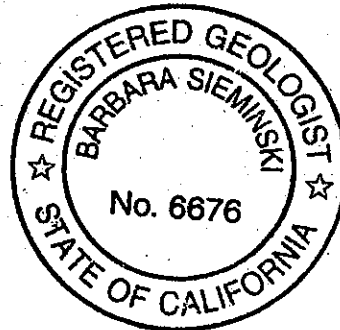
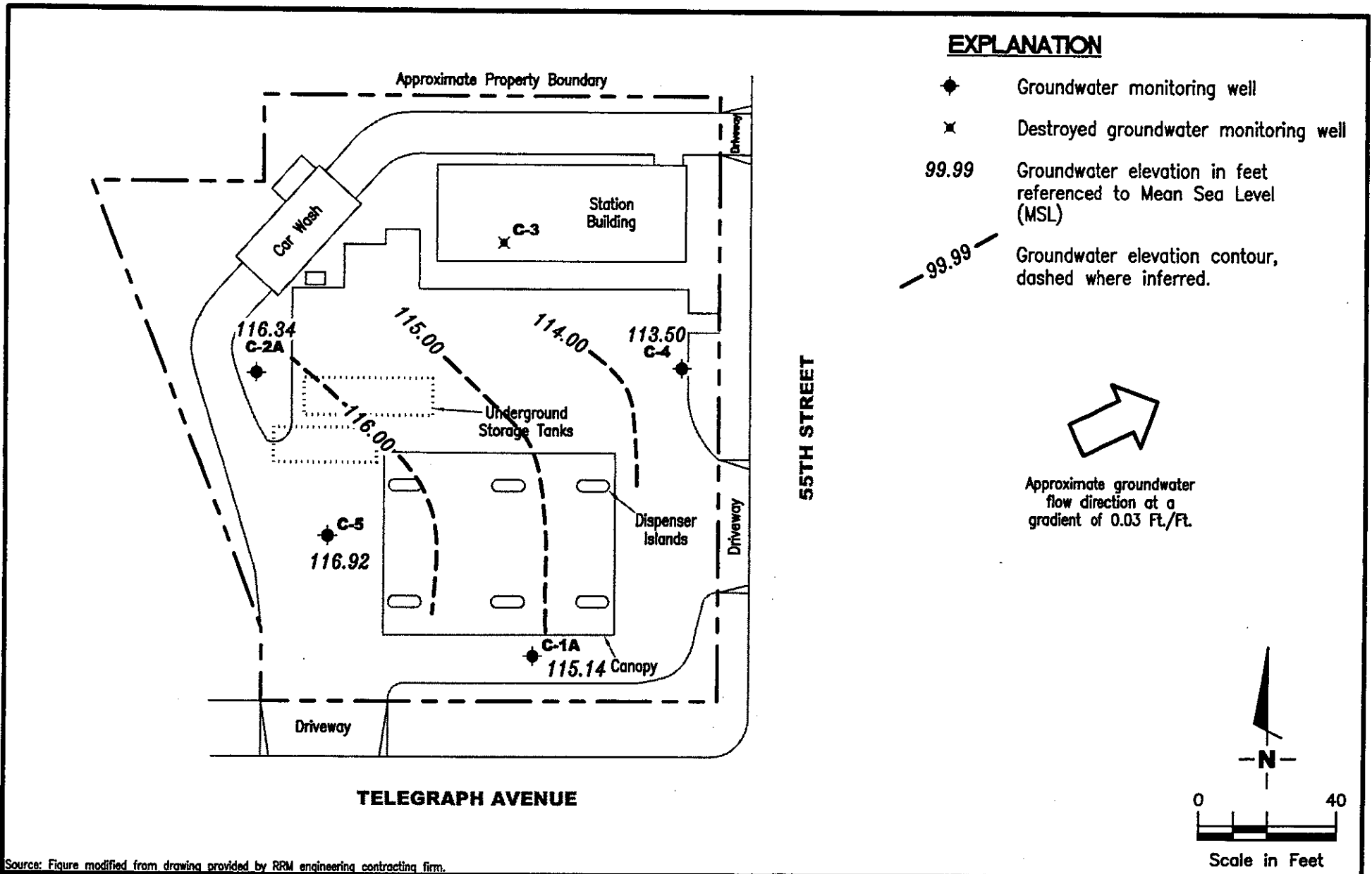


Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by RRM engineering contracting firm.



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Chevron Service Station #9-0338
5500 Telegraph Avenue
Oakland, California

FIGURE
1

PROJECT NUMBER
386456

REVIEWED BY

DATE
July 27, 2000

REVISED DATE

FILE NAME: P:\ENVIRO\CHEVRON\9-0338\Q00-9-0338.DWG | Layout Tab: Pot3

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0338
5500 Telegraph Avenue
Oakland, California

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb).

| DATE | Well Head Elev. | Ground Water Elev. | Depth To Water | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | MTBE |
|-------------|-----------------|--------------------|----------------|---------------------|---------|---------|---------------|---------|------------------------|
| C-1A | | | | | | | | | |
| 05/27/99 | 123.27 | 115.93 | 7.34 | 9100 | 40 | 25 | 560 | 1900 | 35 |
| 09/02/99 | 123.27 | 115.72 | 7.55 | 9700 | 24 | 18.4 | 626 | 754 | 66 |
| 10/27/99 | 123.27 | 115.84 | 7.43 | 4740 | <10 | <10 | 276 | 270 | <100/66.6 ² |
| 02/11/00 | 123.27 | 115.27 | 8.00 | 5100 | 17.5 | <10 | 182 | 333 | <50 |
| 05/10/00 | 123.27 | 116.65 | 6.62 | 11,000 ¹ | 110 | 170 | 480 | 980 | <500 |
| 07/27/00 | 123.27 | 115.14 | 8.13 | 6,200 ¹ | <50 | <50 | 540 | 150 | <250 |
| C-2A | | | | | | | | | |
| 05/27/99 | 125.89 | 119.53 | 6.36 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 44 |
| 09/02/99 | 125.89 | 117.04 | 8.85 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 10/27/99 | 125.89 | 116.65 | 9.24 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 8.75/7.77 ² |
| 02/11/00 | 125.89 | 117.64 | 8.25 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 17.8 |
| 05/10/00 | 125.89 | 117.46 | 8.43 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 3.2 |
| 07/27/00 | 125.89 | 116.34 | 9.55 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 20 |
| C-4 | | | | | | | | | |
| 05/27/99 | 125.40 | 115.34 | 10.06 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 44 |
| 09/02/99 | 125.40 | 114.89 | 10.51 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3.1 |
| 10/27/99 | 125.40 | 115.03 | 10.37 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0/<2.0 ² |
| 02/11/00 | 125.40 | 114.48 | 10.92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2.79 |
| 05/10/00 | 125.40 | 116.28 | 9.12 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |
| 07/27/00 | 125.40 | 113.50 | 11.90 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0338
5500 Telegraph Avenue
Oakland, California

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb).

| DATE | Well Head Elev. | Ground Water Elev. | Depth To Water | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | MTBE |
|-------------------|-----------------|--------------------|----------------|------------------|---------|---------|---------------|---------|--------------------------|
| C-5 | | | | | | | | | |
| 05/27/99 | 124.15 | 117.54 | 6.61 | 2800 | 350 | 73 | 32 | 280 | 2,200/2,500 ² |
| 09/02/99 | 124.15 | 116.27 | 7.88 | 570 | 9.0 | <2.5 | <2.5 | <2.5 | 890 |
| 10/27/99 | 124.15 | 116.90 | 7.25 | 543 | 4.22 | <0.5 | 3.28 | <0.5 | 845/1,080 ² |
| 02/11/00 | 124.15 | 117.41 | 6.74 | 488 | 0.56 | <0.5 | 1.45 | <0.5 | 565 |
| 05/10/00 | 124.15 | 118.36 | 5.79 | 140 ¹ | 3.6 | 1.2 | 0.53 | 2.0 | 380 |
| 07/27/00 | 124.15 | 116.92 | 7.23 | 260 ¹ | 1.4 | 1.2 | 0.93 | 2.8 | 460 |
| TRIP BLANK | | | | | | | | | |
| 05/27/99 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 09/02/99 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 10/27/99 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| 02/11/00 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 05/10/00 | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |
| 07/27/00 | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0338
5500 Telegraph Avenue
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 10, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl tertiary butyl ether

-- = Not Measured/Not Analyzed

¹ Laboratory report indicates gasoline C6-C12.

² Confirmation run.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used for all samples. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 9-0338 Job#: 386456
Address: 5500 Telegraph Ave. Date: 7-27-00
City: Oakland, CA. Sampler: FRANKT.

Well ID C-1A Well Condition: OK
Well Diameter 2" in. Hydrocarbon Amount Bailed
Thickness: 0 (feet) (product/water): 0 (Gallons)
Total Depth 19.11 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
Depth to Water 8.13 ft. Factor (VF) 6" = 1.50 12" = 5.80

10.98 x VF .17 = 1.86 x 3 (case volume) = Estimated Purge Volume: 5.59 (gal.)

Purge Equipment: (Disposable Bailer)
Bailer
Stack
Suction
Grundfos
Other: _____
Sampling Equipment: (Disposable Bailer)
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 11:58 Weather Conditions: SUNNY
Sampling Time: 12:18 Water Color: CLEAR Odor: YES
Purging Flow Rate: — gpm. Sediment Description: _____
Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

| Time | Volume (gal.) | pH | Conductivity $\mu\text{mhos/cm} \times 100$ | Temperature $^{\circ}\text{F}$ | D.O. (mg/L) | ORP (mV) | Alkalinity (ppm) |
|--------------|---------------|-------------|---|--------------------------------|-------------|----------|------------------|
| <u>12:01</u> | <u>2.0</u> | <u>7.17</u> | <u>356</u> | <u>68.4</u> | | | |
| <u>12:05</u> | <u>4.0</u> | <u>7.18</u> | <u>453</u> | <u>68.2</u> | | | |
| <u>12:09</u> | <u>6.0</u> | <u>7.25</u> | <u>482</u> | <u>68.0</u> | | | |
| | | | | | | | |
| | | | | | | | |

LABORATORY INFORMATION

| SAMPLE ID | (#) - CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-------------|-------------------|----------|---------------|----------------|-------------------------|
| <u>C-1A</u> | <u>3- VOAVIAL</u> | <u>Y</u> | <u>HCL</u> | <u>SEQUOIA</u> | <u>TPH(G)/btex/mtbe</u> |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility # 9-0338 Job#: 386456
 Address: 5500 Telegraph Ave. Date: 7-27-00
 City: Oakland, CA. Sampler: FLANKT.

Well ID C-4 Well Condition: OK
 Well Diameter 2" in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
 Total Depth 19.10 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 11.90 ft. 6" = 1.50 12" = 5.80

7.20 X VF .17 = 1.22 X 3 (case volume) = Estimated Purge Volume: 3.67 (gal.)

Purge Equipment: (Disposable Bailer) Bailer Stack Suction Grundfos Other: _____
 Sampling Equipment: (Disposable Bailer) Bailer Pressure Bailer Grab Sample Other: _____

Starting Time: 10:33 Weather Conditions: OVERCAST
 Sampling Time: 10:50 Water Color: CLEAR Odor: NO
 Purging Flow Rate: --- gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

| Time | Volume (gal.) | pH | Conductivity $\mu\text{mhos/cm} \times 100$ | Temperature $^{\circ}\text{F}$ | D.O. (mg/L) | ORP (mV) | Alkalinity (ppm) |
|--------------|---------------|-------------|---|--------------------------------|-------------|----------|------------------|
| <u>10:36</u> | <u>1.5</u> | <u>7.09</u> | <u>612</u> | <u>68.5</u> | | | |
| <u>10:39</u> | <u>3.0</u> | <u>7.04</u> | <u>573</u> | <u>67.1</u> | | | |
| <u>10:42</u> | <u>4.0</u> | <u>7.10</u> | <u>559</u> | <u>67.0</u> | | | |
| | | | | | | | |
| | | | | | | | |

LABORATORY INFORMATION

| SAMPLE ID | (#) - CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|------------|--------------------|----------|---------------|----------------|-------------------------|
| <u>C-4</u> | <u>3 - VOAVIAL</u> | <u>Y</u> | <u>HCL</u> | <u>SEQUOIA</u> | <u>TPH(G)/btex/mtbe</u> |
| | | | | | |
| | | | | | |

COMMENTS: _____



Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron #9-0338
Project Manager: Deanna L. Harding

Reported:
09-Aug-00 08:59

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|-----------------|-----------------|
| TB-LB | W007563-01 | Water | 27-Jul-00 00:00 | 27-Jul-00 16:35 |
| C-1A | W007563-02 | Water | 27-Jul-00 12:18 | 27-Jul-00 16:35 |
| C-2A | W007563-03 | Water | 27-Jul-00 11:18 | 27-Jul-00 16:35 |
| C-4 | W007563-04 | Water | 27-Jul-00 10:50 | 27-Jul-00 16:35 |
| C-5 | W007563-05 | Water | 27-Jul-00 11:50 | 27-Jul-00 16:35 |





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron #9-0338
Project Manager: Deanna L. Harding

Reported:
09-Aug-00 08:59

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Walnut Creek

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------------|--------|----------|---------|-----------|-----------|------------|-------|
| C-4 (W007563-04) Water Sampled: 27-Jul-00 10:50 Received: 27-Jul-00 16:35 | | | | | | | | | |
| Purgeable Hydrocarbons | ND | 50 | ug/l | 1 | 0H02003 | 02-Aug-00 | 02-Aug-00 | EPA | |
| | | | | | | | | 8015M/8020 | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | ND | 2.5 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 93.0 % | 70-130 | | " | " | " | " | |
| C-5 (W007563-05) Water Sampled: 27-Jul-00 11:50 Received: 27-Jul-00 16:35 | | | | | | | | | |
| Purgeable Hydrocarbons | 260 | 50 | ug/l | 1 | 0H02003 | 02-Aug-00 | 02-Aug-00 | EPA | P-01 |
| | | | | | | | | 8015M/8020 | |
| Benzene | 1.4 | 0.50 | " | " | " | " | " | " | |
| Toluene | 1.2 | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | 0.93 | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | 2.8 | 0.50 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | 460 | 2.5 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 87.3 % | 70-130 | | " | " | " | " | |





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron #9-0338
Project Manager: Deanna L. Harding

Reported:
09-Aug-00 08:59

Notes and Definitions

P-01 Chromatogram Pattern: Gasoline C6-C12
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

