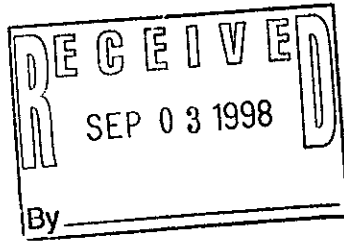




Chevron



August 31, 1998

Chevron Products Company
6001 Bollinger Canyon Road
Building L, Room 1110
PO Box 6004
San Ramon, CA 94583-0904

Ms. Susan Hugo
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Philip R. Briggs
Project Manager
Site Assessment & Remediation
Phone 925 842-9136
Fax 925 842-8370

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

Dear Ms. Hugo:

Enclosed is a Groundwater Monitoring & Sampling Report, dated August 12, 1998, that was prepared by our consultant Gettler-Ryan Inc. for the above noted site. Ground water samples were collected from the three wells on the site and analyzed for the TPH-g, BTEX and MtBE constituents.

In monitoring wells C-1, C-2 and C-3 the concentrations were below method detection limits for all constituents. Depth to ground water varied from 7.85 feet to 8.74 feet below grade with direction of flow southwesterly.

Due to the proposed reconstruction of the service station facilities including the removal and replacement of tanks and lines that was scheduled for July, the monitoring wells were resampled. The last groundwater-sampling event occurred in November 1993.

For your information a Remedial Action Completion Certification was received from your office on April 5, 1995(copy enclosed), however, the monitoring wells were not abandoned.

Due to the location of the new service station building on the site, monitoring well C-3 was abandoned, however wells C-1 and C-2 still remain.

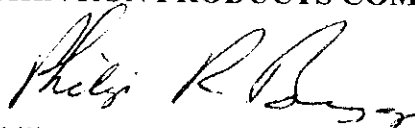
The tanks were removed July 22 and the product lines July 27, with Mr. Griffin and Mr. Gomez, from the Office of Emergency Services, City of Oakland, respectively present. A copy of the tank and product line removal report will be sent to your office when it is

August 31, 1998
Ms. Susan Hugo
Chevron Service Station #9-0338
Page 2

received. However, based on the minimal petroleum hydrocarbon concentrations detected at the site and the below method detection limits in the groundwater, it appears that the site would continue to be considered for no further action.

If you have any questions or comments, call me at (925) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

A handwritten signature in cursive script, appearing to read "Philip R. Briggs".

Philip R. Briggs
Site Assessment and Remediation Project Manger

Enclosure

Cc. Mr. Bill Scudder, Chevron



GETTLER-RYAN INC.

August 12, 1998

Job #6456.80

Mr. Phil Briggs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

Re: Groundwater Monitoring & Sampling Report
Chevron Service Station #9-0338
5500 Telegraph Avenue
Oakland, California

Dear Mr. Briggs:

This report documents a groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On June 28, 1998, field personnel were on-site to monitor and sample three wells (C-1, C-2 and C-3) at the above referenced site.

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the wells. Static water level data and groundwater elevations are presented in Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets for each event are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are presented in Table 1. The chain of custody documents and laboratory analytical reports are attached.

Thank you for allowing Gettler-Ryan Inc. to provide environmental services to Chevron. Please call if you have any questions or comments regarding this report.

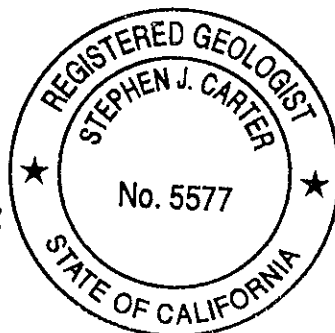
Sincerely,

Deanna L. Harding FOR

Deanna L. Harding
Project Coordinator

Stephen J. Carter FOR

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




DLH/BS/dlh
6456.QML

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

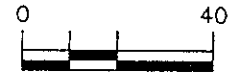
EXPLANATION

- ◆ Groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- - 99.99 - - Groundwater elevation contour, dashed where inferred.

Old layout 

abandoned

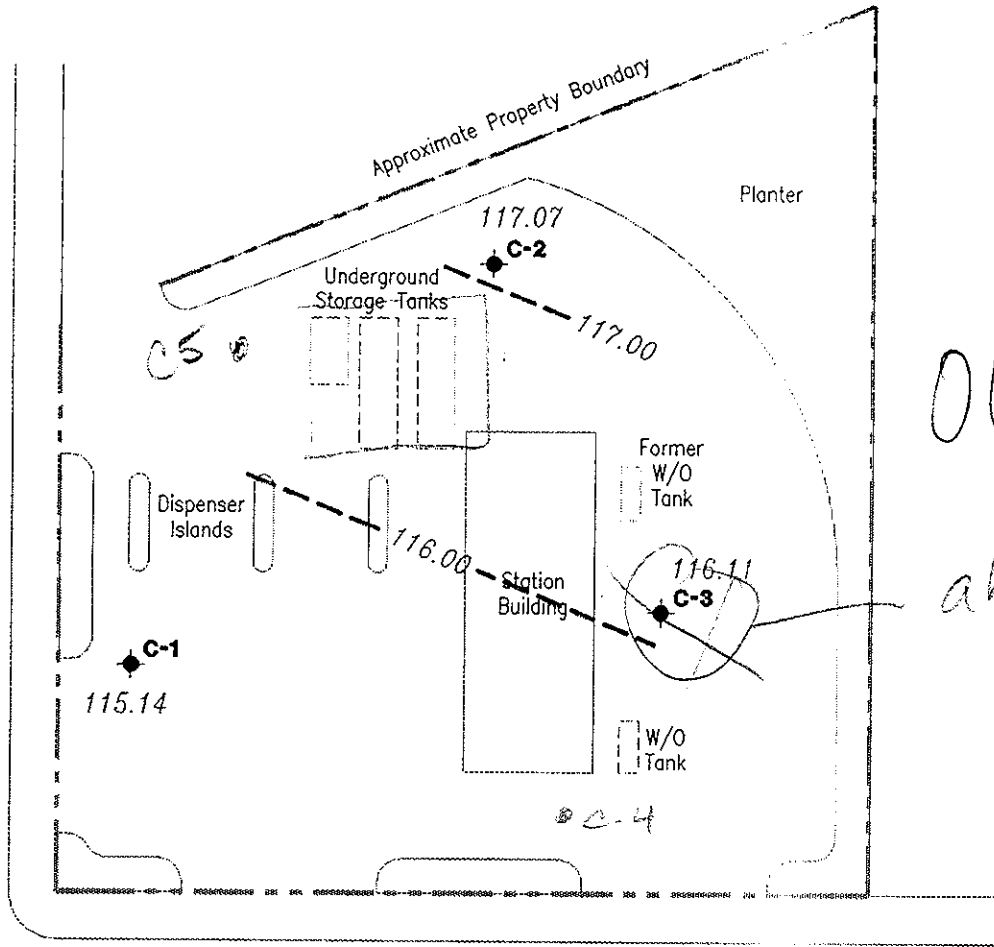
Approximate groundwater flow direction at a gradient of 0.02 Ft./Ft.



Scale in Feet

FIGURE

1



TELEGRAPH AVENUE

55TH STREET



Gettler - Ryan Inc.

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

POTENTIOMETRIC MAP
Chevron Service Station No. 9-0338
5500 Telegraph Avenue
Oakland, California

JOB NUMBER
6456

REVIEWED BY

DATE
June 28, 1998

REVISED DATE

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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness (ft)	TPH-	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE
					Gasoline					
					<-----ppb----->					
C-1										
123.88	11/21/89	10.75	113.13	0	<500	<0.5	<0.5	<0.5	<0.5	---
	03/20/90	9.93	113.95	0	<50	<0.5	<0.5	<0.5	<0.5	---
	06/27/90 ¹	9.64	114.24	0	<50	<0.5	<0.5	<0.5	<0.5	---
(d)	06/27/90 ¹	9.64	114.24	0	<50	<0.5	<0.5	<0.5	<0.5	---
	10/12/90 ²	10.91	112.97	0	---	---	---	---	---	---
(d)	10/12/90	10.91	112.97	0	<50	<0.5	<0.5	<0.5	<0.5	---
	12/20/90	9.76	114.12	0	75	<0.5	0.9	0.8	3	---
(d)	12/20/90	9.76	114.12	0	73	<0.5	0.6	0.7	2	---
	04/10/91	8.76	115.12	0	<50	0.7	1.2	<0.5	1.0	---
(d)	04/10/91	8.76	115.12	0	<50	0.9	1.5	<0.5	2	---
	02/26/92	8.08	115.80	0	<50	<0.5	<0.5	<0.5	<0.5	---
	02/04/93	8.26	115.62	0	<50	<0.5	<0.5	<0.5	<0.5	---
	07/27/93	10.04	113.84	0	<50	<0.5	<0.5	<0.5	<1.5	---
	09/22/93	10.32	113.56	0	79	<0.5	<0.5	<0.5	<1.5	---
	11/15/93	10.40	113.48	0	<50	<0.5	<0.5	<0.5	<0.5	---
	06/28/98	8.74	115.14	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
C-2										
124.92	11/21/89	10.75	114.17	0	<500	<0.5	<0.5	<0.5	<0.5	---
	03/20/90	9.44	115.48	0	<50	<0.5	<0.5	<0.5	<0.5	---
	06/27/90 ¹	9.55	115.37	0	<50	<0.5	<0.5	<0.5	<0.5	---
	10/12/90	10.89	114.03	0	<50	<0.5	<0.5	<0.5	<0.5	---
	12/20/90	9.65	115.27	0	<50	<0.5	<0.5	<0.5	<0.5	---
	04/10/91	8.04	116.88	0	<50	<0.5	<0.5	<0.5	<0.5	---
	02/26/92	7.03	117.89	0	<50	<0.5	<0.5	<0.5	<0.5	---
	02/04/93	7.06	117.86	0	<50	<0.5	<0.5	<0.5	<0.5	---
	07/27/93	9.78	115.14	0	<50	<0.5	<0.5	<0.5	<1.5	---
	09/22/93	9.97	114.95	0	<50	<0.5	<0.5	<0.5	<1.5	---
	11/15/93	10.32	114.60	0	<50	<0.5	<0.5	<0.5	<0.5	---
	06/28/98	7.85	117.07	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
C-3										
125.64	11/21/89	11.28	114.36	0	<500	<0.5	<0.5	<0.5	<0.5	---
	01/12/90 ³	---	---	0	---	---	---	---	---	---
	03/20/90 ⁴	10.39	115.25	0	<50	<0.5	<0.5	<0.5	<0.5	---
	06/27/90 ¹	10.32	115.32	0	<50	<0.5	<0.5	<0.5	<0.5	---
	10/12/90	11.28	114.36	0	<50	<0.5	<0.5	<0.5	<0.5	---
	12/20/90	10.25	115.39	0	<50	<0.5	<0.5	<0.5	<0.5	---
	04/10/91	8.79	116.85	0	<50	<0.5	<0.5	<0.5	<0.5	---
	02/26/92	7.83	117.81	0	<50	<0.5	<0.5	<0.5	<0.5	---
	02/04/93	7.94	117.70	0	<50	<0.5	<0.5	<0.5	<0.5	---

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0338, 5500 Telegraph Avenue, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness (ft)	TPH-	Benzene	Toluene	Ethyl-	Xylenes	MTBE
					Gasoline	<-----ppb----->				
C-3 (cont)	07/27/93	10.59	115.05	0	280 ^f	<0.5	<0.5	<0.5	<0.5	---
	09/22/93	10.78	114.86	0	<50	<0.5	<0.5	<0.5	<0.5	---
	11/15/93 ⁶	11.06	114.86	0	<50	<0.5	<0.5	<0.5	<0.5	---
	06/28/98	9.53	116.11	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
Rinsate	06/27/90	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	10/12/90 ²	---	---	---	---	---	---	---	---	---
	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	3.3	---
	11/15/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
Trip Blank	03/20/90 ⁷	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	06/27/90	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	10/12/90 ²	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	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	<0.5	---
	09/22/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	11/15/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	TB-LB	06/28/98	---	---	---	<50	<0.50	<0.50	<0.50	<0.50

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0338, 5500 Telegraph Avenue, Oakland, California (continued)

EXPLANATION:

TOC = Top of casing elevation
(ft) = Feet
DTW = Depth to water
GWE = Groundwater elevation
msl = Measurements referenced relative to mean sea level
TPH-Gasoline = Total Purgeable Petroleum Hydrocarbons as gasoline
MTBE = Methyl tertiary-butyl ether
TPH-Diesel = Total Purgeable Petroleum Hydrocarbons as diesel
ppb = Parts per billion
--- = Not analyzed/Not applicable
(d) = Duplicate

NOTES:

- ¹ Sample was tested for lead; results were <0.5 ppb.
- ² Sample was broken by laboratory.
- ³ Sample was tested for TPH-Diesel and Total Oil and Grease; results were <1,000 ppb and <5,000 ppb, respectively.
- ⁴ Sample was tested for TPH-Diesel and Total Oil and Grease; results were <50 ppb and <5,000 ppb, respectively.
- ⁵ Gasoline range concentrations reported. The pattern of peaks observed in the chromatogram shows only single peak in the gasoline range.
- ⁶ Dichloromethane reported at 1.0 ppb.
- ⁷ Sample was tested for TPH-Diesel; results were <50 ppb.

6456.tqm



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 a MMC flexi-dip 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 when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. 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 # Chuvron #9-6338
 Address: ESOC Telegraph
 City: Oakland CA

Job#: 0456
 Date: 6-28-98
 Sampler: P. Cline

Well ID: C-1
 Well Diameter: 2" in.
 Total Depth: 30' ft.
 Depth to Water: 8.74' ft.

Well Condition: okay
 Hydrocarbon Thickness: 0 in. Amount Bailed: 0 (gal.)
 (product/water):

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

21.26 x VF 0.17 = 3.6 X 3 (case volume) = Estimated Purge Volume: 10.8 (gal.)

Purge Equipment: Disposable Bailer
~~Stack~~
~~Suction~~
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 13:18
 Sampling Time: 13:26
 Purging Flow Rate: 20 gpm.
 Did well de-water? No

Weather Conditions: clear warm
 Water Color: clear Odor: None
 Sediment Description: None
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>13:25</u>	<u>9.0</u>	<u>6.89</u>	<u>575</u>	<u>20.9</u>	_____	_____	_____
<u>13:26</u>	<u>8.0</u>	<u>6.98</u>	<u>693</u>	<u>21.1</u>	_____	_____	_____
<u>13:27</u>	<u>12.0</u>	<u>6.98</u>	<u>685</u>	<u>20.9</u>	_____	_____	_____
<u>13:28</u>	<u>13.0</u>	<u>6.96</u>	<u>690</u>	<u>20.9</u>	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3 X 40ml VOA</u>	<u>Y</u>	<u>ITC</u>	<u>SEGA</u>	<u>COND BIXE 10702</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility # Chvron #9-0338
 Address: 5500 Telegraph
 City: Oakland CA

Job#: 045685
 Date: 0-28-98
 Sampler: Filtine

Well ID C-2
 Well Diameter 2' in.
 Total Depth 28.5 ft.
 Depth to Water 7.85 ft.

Well Condition: okay

Hydrocarbon Thickness: 0 in. Amount Bailed 0 (gal.)
 Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 6" = 1.50 12" = 5.80

20.65 x VF 0.17 = 3.5 X 3 (case volume) = Estimated Purge Volume: 10.5 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
~~Stack~~
~~Suction~~
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 13:33
 Sampling Time: 13:41
 Purging Flow Rate: 2 gpm.
 Did well de-water? _____

Weather Conditions: clear w/g m
 Water Color: clear Odor: None
 Sediment Description: None
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1335</u>	<u>4</u>	<u>8.85</u>	<u>720</u>	<u>20.2</u>			
<u>1337</u>	<u>8</u>	<u>8.80</u>	<u>726</u>	<u>19.7</u>			
<u>1339</u>	<u>12</u>	<u>8.84</u>	<u>720</u>	<u>19.6</u>			
<u>1341</u>	<u>13</u>	<u>8.83</u>	<u>722</u>	<u>19.7</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>W-2</u>	<u>3 x 40ml VOA</u>	<u>Y</u>	<u>Ice</u>	<u>SLC</u>	<u>Gas BTEX MTHB</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # Churron # 9-C338
Address: 5500 Telegraph Ave
City: Oakland CA

Job#: 045Lo.85
Date: 6-28-98
Sampler: ~~SK~~ FPL

Well ID: C-3
Well Diameter: 2" in.
Total Depth: 28.5 ft.
Depth to Water: 9.53 ft.

Well Condition: okay

Hydrocarbon Thickness: 0 in. Amount Bailed: 0 (product/water): (gal.)

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

18.97 x VF 0.17 = 3.2 x 3 (case volume) = Estimated Purge Volume: 9.7 (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 1301
Sampling Time: 1304
Purging Flow Rate: 2.9 l/min
Did well de-water? _____

Weather Conditions: clear warm
Water Color: clear Odor: None
Sediment Description: None
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1303</u>	<u>3.4</u>	<u>7.90</u>	<u>582</u>	<u>21.2</u>			
<u>1305</u>	<u>3.68</u>	<u>6.88</u>	<u>533</u>	<u>19.2</u>			
<u>1307</u>	<u>5.1</u>	<u>6.85</u>	<u>515</u>	<u>19.1</u>			
<u>1309</u>	<u>1.16</u>	<u>6.85</u>	<u>520</u>	<u>19.2</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 x 4cm VOA</u>	<u>Y</u>	<u>None</u>	<u>SBB</u>	<u>COBIDE MATBE</u>

COMMENTS: _____

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number #9-0338
Facility Address 5500 Telegraph Ave, OAKLAND, CA
Consultant Project Number 6456.80
Consultant Name Gettler-Ryan
Address 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name) Deanna Harding
(Phone) 551-7555 (Fax Number) 551-7888

Chevron Contact (Name) MR. PHIL BRIGGS
(Phone) (925) 842-9136
Laboratory Name SEQUOIA Service Code: ZZ02790
Laboratory Service Order #
Samples Collected by (Name) F. Chino
Collection Date 6-28-98
Signature _____

Analysis To Be Performed

9806186

DO NOT BILL
TB-LB ANALYSIS!

Sh

Sample Number
62
NF

Lab Sample Number

Number of Containers

Matrix
S = Soil A = Air
W = Water C = Charcoal

Type
G = Grab
C = Composite
D = Discrete

Time

Sample Preservation

Iced (Yes or No)

TPH Gas + BTEX w/MTBE
(8016)

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

J1
12 III
B III
A III

Trip Blank
~~AAW-3C-3~~
~~AAW-1C-1~~
~~AAW-2C-2~~

2w
7-24

1
3
3
3

W
↓
↓

TB
G
↓
↓

-
1309
1326
1344

HCC
↓
↓

Y
↓
↓
↓

X
X
X
X

3.DWG/03 91/MCH

Relinquished By (Signature) _____

Organization
G-R Inc.

Date/Time
6/29/98

Received By (Signature) D. Harding

Organization
G-R Inc.

Date/Time
6/29/98

Turn Around Time (Circle Choice)

24 Hrs.

48 Hrs.

5 Days

10 Days

As Contracted

Relinquished By (Signature) D. Harding

Organization
G-R Inc.

Date/Time
6/29/98

Received By (Signature) _____

Organization
Sequoia

Date/Time
6/29/98 2:50

Relinquished By (Signature) _____

Organization
Sequoia

Date/Time
6/29/98

Received For Laboratory By (Signature) Juni Downs

Date/Time
6/29 1545



**Sequoia
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JUL 29 1998

GETTLER-RYAN INC

Gettler Ryan/Geostrategies 6747 Sierra Court Suite J Dublin, CA 94568	Client Proj. ID: Chevron 9-0338, Oakland Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806186-01	Sampled: 06/28/98 Received: 06/29/98 Analyzed: 07/06/98 Reported: 07/13/98
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QC Batch Number: GC070698BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		N.D.

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	116

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Gettler Ryan/Geostrategies
6747 Sierra Court Suite J
Dublin, CA 94568

Client Proj. ID: Chevron 9-0338, Oakland
Sample Descript: C-1
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806186-03

Sampled: 06/28/98
Received: 06/29/98
Analyzed: 07/06/98
Reported: 07/13/98

Attention: Deanna Harding

QC Batch Number: GC070698BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		N.D.

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Gettier Ryan/Geostrategies
6747 Sierra Court Suite J
Dublin, CA 94568

Client Proj. ID: Chevron 9-0338, Oakland
Sample Descript: C-2
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806186-04

Sampled: 06/28/98
Received: 06/29/98
Analyzed: 07/06/98
Reported: 07/13/98

Attention: Deanna Harding

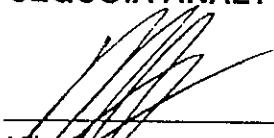
QC Batch Number: GC070698BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





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Dublin, CA 94568

Client Proj. ID: Chevron 9-0338, Oakland
Sample Descript: C-3
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806186-02

Sampled: 06/28/98
Received: 06/29/98
Analyzed: 07/06/98
Reported: 07/13/98

Attention: Deanna Harding

QC Batch Number: GC070698BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	92

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





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Gettler Ryan/Geostrategies
6747 Sierra Court Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Proj. ID: Chevron 9-0338, Oakland

Lab Proj. ID: 9806186

Received: 06/29/98

Reported: 07/13/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 7 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL


Mike Gregory
Project Manager



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Gettler Ryan/Geostrategies
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Chevron 9-0338, Oakland

QC Sample Group: 9806186-01-04

Reported: Jul 13, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8020
Analyst: G. PESHINA

ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
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QC Batch #: GC070698BTEX06A

Sample No.: GW9806G23-1

Date Prepared:	7/6/98	7/6/98	7/6/98	7/6/98
Date Analyzed:	7/6/98	7/6/98	7/6/98	7/6/98
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	10	10	11	32
% Recovery:	100	100	110	107
Matrix Spike Duplicate, ug/L:	11	11	11	32
% Recovery:	110	110	110	107
Relative % Difference:	9.5	9.5	0.0	0.0
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#: GWBLK070698A

Date Prepared:	7/6/98	7/6/98	7/6/98	7/6/98
Date Analyzed:	7/6/98	7/6/98	7/6/98	7/6/98
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	10	10	10	32
LCS % Recovery:	100	100	100	107

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

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 matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager