



GETTLER-RYAN INC.

AUG 29 2001

TRANSMITTAL

July 26, 2001
G-R #386395

TO: Mr. James Brownell
Delta Environmental Consultants, Inc.
3164 Gold Camp Drive, Suite 200
Rancho Cordova, California 95670

CC: Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, California 94583

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Chevron Service Station
#9-9708
5910 MacArthur Boulevard
Oakland, California

Don Huang
Roth 124

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	July 19, 2001	Groundwater Monitoring and Sampling Report Second Quarter - Event of June 19, 2001

COMMENTS:

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **August 9, 2001**, at which time the final report will be distributed to the following:

cc: Mr. Thomas Peacock, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
Mr. Greg Gurs, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670
Mr. Nisson Saidion, 5910 MacArthur Boulevard, Oakland, CA 94605

Enclosures

trans/9-9708-TB



GETTLER-RYAN INC.

July 19, 2001
G-R Job #386395

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

RE: Second Quarter Event of June 19, 2001
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-9708
5910 MacArthur Boulevard
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.

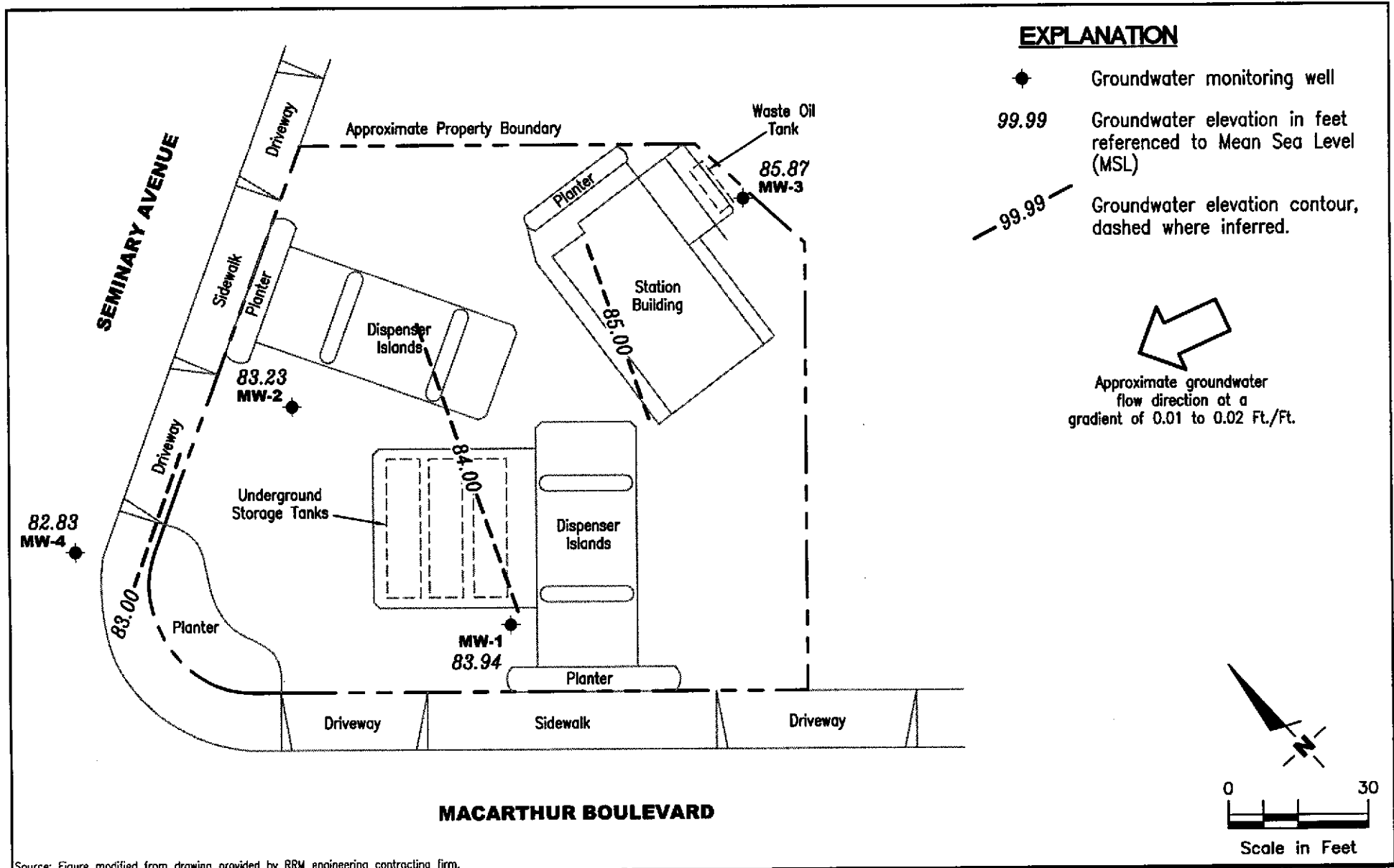
Sincerely,

Deanna L. Harding
Project Coordinator

Hagop Kevork
P.E. No. C55734


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

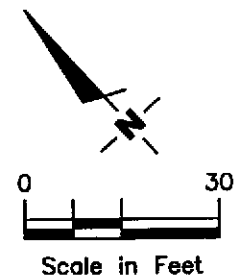




EXPLANATION

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


 Approximate groundwater flow direction at a gradient of 0.01 to 0.02 Ft./Ft.



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 #9-9708
 5910 MacArthur Boulevard
 Oakland, California

FIGURE 1

PROJECT NUMBER
386395

REVIEWED BY

DATE
June 19, 2001

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-9708
5910 MacArthur Boulevard
Oakland, California

WELL ID/ DATE	TOC (ft)	GWE (msl)	DTW (ft)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCB◆ (ppb)	1,2-DCA◆ (ppb)	HVOCs◆ (ppb)
MW-1													
05/29/97	96.61	84.41	12.20	--	--	--	--	--	--	--	--	--	--
06/04/97	96.61	84.40	12.21	--	380	58	1.2	5.4	40	85	--	--	--
09/16/97	96.61	83.84	12.77	--	420	120	<0.5	19	2.7	28	--	--	--
12/17/97	96.61	85.43	11.18	--	210 ¹	43	0.61	11	0.61	69	--	--	--
03/18/98	96.61	84.59	12.02	--	210 ¹	47	<0.5	8.2	<0.5	92	--	--	--
06/28/98	96.61	83.99	12.62	--	<50	<0.5	<0.5	<0.5	<0.5	66	--	--	--
09/07/98	96.61	82.32	14.29	--	<50	6.7	<0.5	<0.5	<0.5	92	--	--	--
12/29/98	96.61	83.18	13.43	--	<100	<1.0	<1.0	2.24	1.14	278	--	--	--
03/11/99	96.61	83.80	12.81	--	110	<1.0	<1.0	7.95	<1.0	418	--	--	--
05/04/99	96.61	83.85	12.76	--	--	--	--	--	--	--	--	--	--
06/29/99	96.61	84.06	12.55	--	352	34.6	<2.5	51	<2.5	780	--	--	--
09/29/99	96.61	83.21	13.40	--	647	167	<2.5	58.6	14.8	1570	--	--	--
12/08/99	96.61	85.70	10.91	--	481	121	1.16	17.9	11	3910	--	--	--
03/01/00	96.61	85.46	11.15	--	2580	481	6.84	86.6	41.9	5460	--	--	--
06/23/00	96.61	83.68	12.93	--	900 ⁴	120	<5.0	22	6.7	5,400	--	--	--
09/30/00	96.61	83.07	13.54	--	1,300 ⁴	450	5.5	170	11	2,000	--	--	--
12/08/00	96.61	83.63	12.98	--	<1,000	41.7	<10.0	11.5	<10.0	6,030	--	--	--
03/01/01	96.61	84.94	11.67	--	340 ⁷	36.6	<0.500	10.1	<0.500	3,360	--	--	--
06/19/01	96.61	83.94	12.67	--	610 ⁴	110	<5.0	9.2	<5.0	110	--	--	--
MW-2													
05/29/97	96.91	83.85	13.06	--	--	--	--	--	--	--	--	--	--
06/04/97	96.91	83.96	12.95	--	1600	120	5.9	32	15	2100	--	--	--
09/16/97	96.91	83.92	12.99	--	1100	23	3.2	7.0	2.5	1200	--	--	--
12/17/97	96.91	84.73	12.18	--	7,100 ¹	650	69	610	69	4,700/2,600 ²	--	--	--
03/18/98	96.91	84.21	12.70	--	5,900 ¹	250	<50	98	<50	12,000/7,100 ²	--	--	--
06/28/98	96.91	83.98	12.93	--	4300	400	<10	<10	<10	3,000/4,000 ²	--	--	--
09/07/98	96.91	83.94	12.97	--	3700	220	5.1	38	7.6	1,300/1,400 ²	--	--	--
12/29/98	96.91	83.99	12.92	--	6500	573	26.8	131	33.9	2660	--	--	--
03/11/99	96.91	84.04	12.87	--	4970	651	30.8	60.3	<5.0	2600	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-9708
5910 MacArthur Boulevard
Oakland, California

WELL ID/ DATE	TOC (ft)	GWE (msl)	DTW (ft)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCB◆ (ppb)	1,2-DCA◆ (ppb)	HVOCs◆ (ppb)
MW-2 (cont)													
05/04/99	96.91	84.05	12.86	--	--	--	--	--	--	--	--	--	--
06/29/99	96.91	83.98	12.93	--	2030	238	11.6	8.98	<5.0	540	--	--	--
09/29/99	96.91	84.02	12.89	--	2000	320	10.4	16.5	20.3	642	--	--	--
12/08/99	96.91	86.18	10.73	--	96.8	2.74	<0.5	<0.5	<0.5	<2.5	--	--	--
03/01/00	96.91	84.31	12.60	--	<50	6.92	<0.5	<0.5	<0.5	254	--	--	--
06/23/00	96.91	83.98	12.93	--	1,700 ⁴	490	7.5	<5.0	7.7	770	--	--	--
09/30/00	96.91	83.95	12.96	--	2,000 ⁴	420	14	<10	<10	380	--	--	--
12/08/00	96.91	83.98	12.93	--	984	54.9	<2.50	4.15	<2.50	306	--	--	--
03/01/01	96.91	84.15	12.76	--	<50.0	4.16	<0.500	<0.500	<0.500	245	--	--	--
06/19/01	96.91	83.23	13.68	--	1,700 ⁴	250	9.2	<5.0	6.9	410	--	--	--
MW-3													
05/29/97	97.86	86.41	11.45	--	--	--	--	--	--	--	--	--	--
06/04/97 ³	97.86	86.58	11.28	1200	<50	<0.5	<0.5	<0.5	<0.5	<5.0	ND	1.0	--
09/16/97	97.86	85.67	12.19	2,700 ¹	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
12/17/97	97.86	87.06	10.80	1,200 ¹	<50	0.9	0.53	<0.5	<0.5	<2.5	--	--	--
03/18/98	97.86	86.98	10.88	820 ¹	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
06/28/98	97.86	86.26	11.60	1,100 ¹	<50	<0.5	<0.5	<0.5	<0.5	<2.5	0.99	ND	<0.5-<5.0
09/07/98	97.86	85.64	12.22	1,100 ¹	<50	<0.5	<0.5	<0.5	<0.5	<2.5	0.79	0.54	--
12/29/98	97.86	86.06	11.80	1,760 ¹	185	<0.5	<0.5	<0.5	0.669	<2.0	1.04	0.578	<0.5-<5.0
03/11/99	97.86	86.83	11.03	1440	<50	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	<1.0	<1.0-<2.0
05/04/99	97.86	86.43	11.43	--	--	--	--	--	--	--	--	--	--
06/29/99	97.86	85.71	12.15	690 ¹	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.754	<0.5	<0.5-<5.0
09/29/99	97.86	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
12/08/99	97.86	88.43	9.43	1,000 ¹	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	0.66	<0.5-<5.0
03/01/00	97.86	87.16	10.70	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	0.821	0.984	<0.5-<5.0
06/23/00	97.86	85.96	11.90	2,600 ⁵	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<2.0	<2.0	<0.5-<2.0

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5910 MacArthur Boulevard
Oakland, California

WELL ID/ DATE	TOC (ft)	GWE (msl)	DTW (ft)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCB♦ (ppb)	1,2-DCA♦ (ppb)	HVOCs♦ (ppb)
MW-3 (cont)													
09/30/00	97.86	85.45	12.41	1,100 ⁵	<50	<0.50	0.61	<0.50	0.82	2.7	<2.0	<2.0	<0.50-<2.0
12/08/00	97.86	85.78	12.08	870 ⁵	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<2.0	<2.0	<0.50-<10
03/01/01	97.86	87.09	10.77	1,060 ⁶	60.9 ⁷	<0.500	<0.500	<0.500	<0.500	<2.50	0.545	0.528	<0.500-<5.00
06/19/01	97.86	85.87	11.99	120 ⁵	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.2	<1.6	<0.50-<2.0
MW-4													
05/04/99	96.25	83.66	12.59	--	140	<0.5	0.62	0.67	2.6	<2.5	--	--	--
06/29/99	96.25	83.64	12.61	--	183	<0.5	<0.5	1.1	<0.5	<5.0	--	--	--
09/29/99	96.25	83.70	12.55	--	64.3	<0.5	<0.5	<0.5	1.18	<2.5	--	--	--
12/08/99	96.25	83.81	12.44	--	91.2	0.589	<0.5	0.52	<0.5	86	--	--	--
03/01/00	96.25	84.55	11.70	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
06/23/00	96.25	84.12	12.13	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
09/30/00	96.25	84.30	11.95	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
12/08/00	96.25	83.85	12.40	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--	--
03/01/01	96.25	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--	--
06/19/01	96.25	82.83	13.42	--	210 ⁷	7.6	1.4	<0.50	<0.50	10	--	--	--
TRIP BLANK													
06/04/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
09/16/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
12/17/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
03/18/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
06/28/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
09/07/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
09/07/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
12/29/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--	--	--
03/11/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--	--	--
05/04/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
06/29/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-9708
5910 MacArthur Boulevard
Oakland, California

WELL ID/ DATE	TOC (ft)	GWE (msl)	DIW (ft)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCB♦ (ppb)	1,2-DCA♦ (ppb)	HVOCs♦ (ppb)
TRIP BLANK (cont)													
09/29/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
12/08/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
03/01/00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
06/23/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
09/30/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
12/08/00	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--	--
03/01/01	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--	--
06/19/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-9708
5910 MacArthur Boulevard
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to June 23, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing	B = Benzene	1,2-DCB = 1,2-Dichlorobenzene
(ft.) = Feet	T = Toluene	1,2-DCA = 1,2-Dichloroethane
GWE = Groundwater Elevation	E = Ethylbenzene	HVOCs = Halogenated Volatile Organic Compounds
(msl) = Mean sea level	X = Xylenes	ND = Not Detected
DTW = Depth to Water	MTBE = Methyl tertiary butyl ether	-- = Not Measured/Not Analyzed
TPH-D Total Petroleum Hydrocarbons as Diesel		
TPH-G = Total Petroleum Hydrocarbons as Gasoline		

◆ Analysis by EPA Method 8010.

- ¹ Chromatogram pattern indicates an unidentified hydrocarbon.
- ² Confirmation run.
- ³ Sample also analyzed for the following: Total Oil & Grease by EPA Method 5520F was ND; Semivolatile Organics by EPA Method 8270B were ND; Volatile Organics by EPA Method 8010B were ND.
- ⁴ Laboratory report indicates gasoline C6-C12.
- ⁵ Laboratory report indicates unidentified hydrocarbons >C16.
- ⁶ Laboratory report indicates unidentified hydrocarbons C9-C24.
- ⁷ Laboratory report indicates unidentified hydrocarbons C6-C12.

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 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 # Chevron #9-9708
 Address: 5910 MacArthur BLVD
 City: OAKLAND

Job#: 386395
 Date: 6-19-01
 Sampler: FB

Well ID MW-1

Well Condition: OK

Well Diameter 2 in.

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

Total Depth 19.97 ft.

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

Depth to Water 12.67 ft.

7.30 x VF 17 = 124 X 3 (case volume) = Estimated Purge Volume: 4 (gal.)

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

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

Starting Time: 15:05
 Sampling Time: 15:24
 Purging Flow Rate: _____ gpm.
 Did well de-water? No

Weather Conditions: SUNNY
 Water Color: CLEAR Odor: SLIGHT
 Sediment Description: _____
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>15:09</u>	<u>1.5</u>	<u>6.98</u>	<u>980</u>	<u>68.9</u>			
<u>15:13</u>	<u>3.0</u>	<u>6.89</u>	<u>976</u>	<u>69.0</u>			
<u>15:16</u>	<u>4.0</u>	<u>6.80</u>	<u>967</u>	<u>69.0</u>			

LABORATORY INFORMATION

SAMPLE ID	(#)-CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES		
					TPH	BTEX	MTOE
<u>MW-1</u>	<u>3x VDA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>			

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # Chevron #9-9708
Address: 5910 MacArthur Blvd
City: OAKLAND

Job#: 386395
Date: 6-19-01
Sampler: FB

Well ID: MW-2
Well Diameter: 2 in.
Total Depth: 19.87 ft.
Depth to Water: 13.68 ft.

Well Condition: OK
Hydrocarbon Thickness: ∅ in.
Amount Bailed (product/water): ∅ (gal.)
Volume Factor (VF):
2" = 0.17 3" = 0.38 4" = 0.66
6" = 1.50 12" = 5.80

6.19 x VF 1.7 = 1.05 x 3 (case volume) = Estimated Purge Volume: 3 (gal.)

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

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

Starting Time: 14:35
Sampling Time: 14:52
Purging Flow Rate: _____ gpm.
Did well de-water? NO

Weather Conditions: SUNNY
Water Color: CLEAR Odor: YES
Sediment Description: _____
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>14:38</u>	<u>1</u>	<u>7.02</u>	<u>950</u>	<u>69.6</u>			
<u>14:41</u>	<u>2</u>	<u>6.97</u>	<u>955</u>	<u>70.0</u>			
<u>14:44</u>	<u>3</u>	<u>6.97</u>	<u>946</u>	<u>70.2</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3 X VDA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPH6/BTEX/MTDE</u>

COMMENTS: Removed bailer from well.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # Chevron #9-9708 Job#: 386395
 Address: 5910 MacArthur Blvd Date: 6-18-01
 City: OAKLAND Sampler: FB

Well ID: MW-3 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø in. Amount Bailed (product/water): Ø (gal.)
 Total Depth: 19.80 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water: 11.99 ft. Volume Factor (VF) 6" = 1.50 12" = 5.80

7.81 X VF .17 = 1.32 X 3 (case volume) = Estimated Purge Volume: 4 (gal.)

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

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

Starting Time: 15:40 Weather Conditions: SUNNY
 Sampling Time: 15:56 Water Color: clear Odor: slight
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? NO 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>15:43</u>	<u>1.5</u>	<u>7.11</u>	<u>508</u>	<u>69.2</u>			
<u>15:46</u>	<u>3.0</u>	<u>7.00</u>	<u>480</u>	<u>70.0</u>			
<u>15:49</u>	<u>4.0</u>	<u>6.92</u>	<u>474</u>	<u>70.1</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 X VDA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPH, BTEX, MTDE</u>
<u>✓</u>	<u>2 X UDA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>"</u>	<u>8070</u>
<u>✓</u>	<u>1 Amber</u>	<u>Y</u>	<u>NONE</u>	<u>"</u>	<u>TPH-D</u>

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # Chevron #9-9708
 Address: 5910 MacArthur BLVD
 City: OAKLAND

Job#: 386395
 Date: 6-19-01
 Sampler: FB

Well ID: MW-4
 Well Diameter: 2 in.
 Total Depth: 19.17 ft.
 Depth to Water: 13.42 ft.

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

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

5.75 x VF 1.7 = 9.77 x 3 (case volume) = Estimated Purge Volume: 3 (gal.)

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

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

Starting Time: 14:00
 Sampling Time: 14:17
 Purging Flow Rate: _____ gpm.
 Did well de-water? NO

Weather Conditions: SUNNY
 Water Color: clear Odor: NS
 Sediment Description: _____
 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>14:03</u>	<u>1</u>	<u>5.72</u>	<u>5.24</u>	<u>77.7</u>	_____	_____	_____
<u>14:06</u>	<u>2</u>	<u>5.70</u>	<u>5.02</u>	<u>75.0</u>	_____	_____	_____
<u>14:09</u>	<u>3</u>	<u>5.61</u>	<u>4.89</u>	<u>74.8</u>	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3 x VDA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>Sep.</u>	<u>TPHG/BTEX/MTOE</u>

COMMENTS: _____

Chevron Products Co.
P.O. BOX 6004
San Ramon, CA 94583
FAX (925)842-8370

Chevron Facility Number #9-9708
Facility Address 5910 MAC ARTHUR BLVD., OAKLAND, CA.
Consultant Project Number 386395
Consultant Name GETTLER-RYAN INC.
Address 6747 SIERRA COURT, SUITE J, DUBLIN, CA 94568
Project Contact (Name) DEANNA L. HARDING
(Phone) 925-551-7555 (Fax Number) 925-551-7899

Chevron Contact (Name) MR. TOM BAUHS
(Phone) (925) 842-8898
Laboratory Name SEQUOIA
Laboratory Service Order W106395
Laboratory Service Code
Samples Collected by (Name) FRANK H BOHNET
Signature Frank H Bohnet

State Method: CA OR WA NW Series CO UT IDAHO

Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Sample Preservation	Date/Time	State Method: <input checked="" type="checkbox"/> CA <input type="checkbox"/> OR <input type="checkbox"/> WA <input type="checkbox"/> NW Series <input type="checkbox"/> CO <input type="checkbox"/> UT IDAHO														Remarks	
					BTEX/MTBE+TPH GAS (8020 + 8015)	BTEX + TPH GAS (8020 + 8015)	TPH Distal (8015)	Organics (8260)	Purgeable Hydrocarbons (8010)	Purgeable Organics (8260)	Extractable Organics (8270)	Oil and Grease (8520)	Metals (Cd, Cr, Pb, Zn, Ni) (ICAP or AA)	BTEX (8020)	BTEX/MTBE/Naph. (8020)	TPH - HCD	TPH-O Extended	VOCs BY SOID		Lab Sample No.
TB-LB	1	W	HCL	6-19-01	X															01A
MW-1	3			15:24	X															02A-C
MW-2				14:52	X															03A-C
MW-3				15:26	X	X													X	04A-E
MW-4				14:17	X															05A-C

Relinquished By (Signature) <i>Frank H Bohnet</i>	Organization G-R INC.	Date/Time 6/19/01 1555	Received By (Signature) <i>Mark Colli</i>	Organization Sequoia	Date/Time 6-20-01/1445	iced <input checked="" type="checkbox"/> Y/N	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) <i>Mark Colli</i>	Organization Sequoia	Date/Time 6-20-01/1610	Received By (Signature) <i>Mike Godwin</i>	Organization Sequoia	Date/Time 6/20/01	iced <input type="checkbox"/> Y/N	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	iced <input type="checkbox"/> Y/N	



Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

RECEIVED

6 July, 2001

JUL 09 2001

GETTLER-RYAN INC.
GENERAL CONTRACTORS

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

RE: Chevron
Sequoia Report: W106395

Enclosed are the results of analyses for samples received by the laboratory on 20-Jun-01 16:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater
Project Manager

CA ELAP Certificate #1271



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

Project: Chevron
Project Number: Chevron # 9-9708
Project Manager: Deanna L. Harding

Reported:
06-Jul-01 07:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W106395-01	Water	19-Jun-01 00:00	20-Jun-01 16:10
MW-1	W106395-02	Water	19-Jun-01 15:14	20-Jun-01 16:10
MW-2	W106395-03	Water	19-Jun-01 14:52	20-Jun-01 16:10
MW-3	W106395-04	Water	19-Jun-01 15:26	20-Jun-01 16:10
MW-4	W106395-05	Water	19-Jun-01 14:17	20-Jun-01 16:10





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

Project: Chevron
Project Number: Chevron # 9-9708
Project Manager: Deanna L. Harding

Reported:
06-Jul-01 07:38

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
TB-LB (W106395-01) Water Sampled: 19-Jun-01 00:00 Received: 20-Jun-01 16:10									
Purgeable Hydrocarbons	ND	50	ug/l	1	1F21002	21-Jun-01	21-Jun-01	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	CC-3
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	CC-3
<i>Surrogate: a,a,a-Trifluorotoluene</i>		104 %	70-130		"	"	"	"	
MW-1 (W106395-02) Water Sampled: 19-Jun-01 15:14 Received: 20-Jun-01 16:10									
Purgeable Hydrocarbons	610	500	ug/l	10	1F21002	21-Jun-01	21-Jun-01	EPA 8015M/8020	P-01
Benzene	110	5.0	"	"	"	"	"	"	CC-3
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	9.2	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %	70-130		"	"	"	"	
MW-1 (W106395-02RE1) Water Sampled: 19-Jun-01 15:14 Received: 20-Jun-01 16:10									
Methyl tert-butyl ether	110	25	ug/l	10	1F21002	21-Jun-01	21-Jul-01	EPA 8015M/8020	CC-3
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %	70-130		"	"	"	"	
MW-2 (W106395-03) Water Sampled: 19-Jun-01 14:52 Received: 20-Jun-01 16:10									
Purgeable Hydrocarbons	1700	500	ug/l	10	1F21002	21-Jun-01	21-Jun-01	EPA 8015M/8020	P-01
Benzene	250	5.0	"	"	"	"	"	"	CC-3
Toluene	9.2	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	6.9	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		113 %	70-130		"	"	"	"	



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

Project: Chevron
Project Number: Chevron # 9-9708
Project Manager: Deanna L. Harding

Reported:
06-Jul-01 07:38

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
MW-2 (W106395-03RE1) Water Sampled: 19-Jun-01 14:52 Received: 20-Jun-01 16:10									
Methyl tert-butyl ether	410	250	ug/l	100	1F21002	21-Jun-01	21-Jul-01	EPA 8015M/8020	CC-3
<i>Surrogate: a,a,a-Trifluorotoluene</i>		104 %	70-130		"	"	"	"	
MW-3 (W106395-04) Water Sampled: 19-Jun-01 15:26 Received: 20-Jun-01 16:10									
Purgeable Hydrocarbons	ND	50	ug/l	1	1F21002	22-Jun-01	22-Jun-01	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	"	"	"	"	"	"	CC-3
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %	70-130		"	"	"	"	
MW-4 (W106395-05) Water Sampled: 19-Jun-01 14:17 Received: 20-Jun-01 16:10									
Purgeable Hydrocarbons	210	50	ug/l	1	1F21002	21-Jun-01	21-Jun-01	EPA 8015M/8020	P-03
Benzene	7.6	0.50	"	"	"	"	"	"	CC-3
Toluene	1.4	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	10	2.5	"	"	"	"	"	"	CC-3
<i>Surrogate: a,a,a-Trifluorotoluene</i>		116 %	70-130		"	"	"	"	





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

Project: Chevron
Project Number: Chevron # 9-9708
Project Manager: Deanna L. Harding

Reported:
06-Jul-01 07:38

Diesel Hydrocarbons (C9-C24) by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W106395-04) Water Sampled: 19-Jun-01 15:26 Received: 20-Jun-01 16:10									
Diesel Range Hydrocarbons	120	50	ug/l	1	1F22005	22-Jun-01	26-Jun-01	EPA 8015M	D-12
<i>Surrogate: n-Pentacosane</i>		<i>127%</i>	<i>50-150</i>		"	"	"	"	



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

Project: Chevron
Project Number: Chevron # 9-9708
Project Manager: Deanna L. Harding

Reported:
06-Jul-01 07:38

Volatile Organic Compounds by EPA Method 8010B Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W106395-04) Water Sampled: 19-Jun-01 15:26 Received: 20-Jun-01 16:10									
Chloromethane	ND	2.0	ug/l	1	1F21008	26-Jun-01	26-Jun-01	EPA 8010B	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.2	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.60	"	"	"	"	"	"	
Freon 113	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.6	"	"	"	"	"	"	
Trichloroethene	ND	1.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.60	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.60	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.60	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
Surrogate: Dibromodifluoromethane		115 %		50-150	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		127 %		50-150	"	"	"	"	



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

Project: Chevron
Project Number: Chevron # 9-9708
Project Manager: Deanna L. Harding

Reported:
06-Jul-01 07:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD RPD	Notes
---------	--------	-----------------	-------	-------------	---------------	-----------	---------	---------	-------

Batch 1F21002 - EPA 5030B P/T

Blank (1F21002-BLK1)

Prepared & Analyzed: 21-Jun-01

Purgeable Hydrocarbons	ND	50	ug/l						
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: <i>a,a,a</i> -Trifluorotoluene	28.5		"	30.0		95.0		70-130	

Blank (1F21002-BLK2)

Prepared: 22-Jun-01 Analyzed: 22-Jul-01

Purgeable Hydrocarbons	ND	50	ug/l						
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: <i>a,a,a</i> -Trifluorotoluene	28.8		"	30.0		96.0		70-130	

Blank (1F21002-BLK3)

Prepared: 25-Jun-01 Analyzed: 25-Jul-01

Purgeable Hydrocarbons	ND	50	ug/l						
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: <i>a,a,a</i> -Trifluorotoluene	30.1		"	30.0		100		70-130	

LCS (1F21002-BS1)

Prepared & Analyzed: 21-Jun-01

Benzene	16.9	0.50	ug/l	20.0		84.5		70-130	
Toluene	17.8	0.50	"	20.0		89.0		70-130	
Ethylbenzene	18.6	0.50	"	20.0		93.0		70-130	
Xylenes (total)	55.8	0.50	"	60.0		93.0		70-130	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	29.5		"	30.0		98.3		70-130	



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

Project: Chevron
Project Number: Chevron # 9-9708
Project Manager: Deanna L. Harding

Reported:
06-Jul-01 07:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1F21002 - EPA 5030B P/T										
LCS (1F21002-BS2)				Prepared: 22-Jun-01 Analyzed: 22-Jul-01						
Benzene	20.0	0.50	ug/l	20.0		100	70-130			
Toluene	20.7	0.50	"	20.0		104	70-130			
Ethylbenzene	22.1	0.50	"	20.0		110	70-130			
Xylenes (total)	65.9	0.50	"	60.0		110	70-130			
Surrogate: a,a,a-Trifluorotoluene	31.0		"	30.0		103	70-130			
LCS (1F21002-BS3)				Prepared: 25-Jun-01 Analyzed: 25-Jul-01						
Benzene	20.3	0.50	ug/l	20.0		102	70-130			
Toluene	21.2	0.50	"	20.0		106	70-130			
Ethylbenzene	22.0	0.50	"	20.0		110	70-130			
Xylenes (total)	66.0	0.50	"	60.0		110	70-130			
Surrogate: a,a,a-Trifluorotoluene	30.3		"	30.0		101	70-130			
Matrix Spike (1F21002-MS1)				Source: W106396-06		Prepared: 21-Jun-01 Analyzed: 22-Jun-01				
Benzene	20.2	0.50	ug/l	20.0	ND	101	70-130			
Toluene	20.9	0.50	"	20.0	ND	104	70-130			
Ethylbenzene	21.9	0.50	"	20.0	ND	110	70-130			
Xylenes (total)	65.9	0.50	"	60.0	ND	110	70-130			
Surrogate: a,a,a-Trifluorotoluene	30.6		"	30.0		102	70-130			
Matrix Spike Dup (1F21002-MSD1)				Source: W106396-06		Prepared: 21-Jun-01 Analyzed: 22-Jun-01				
Benzene	19.4	0.50	ug/l	20.0	ND	97.0	70-130	4.04	20	
Toluene	20.3	0.50	"	20.0	ND	102	70-130	2.91	20	
Ethylbenzene	21.5	0.50	"	20.0	ND	108	70-130	1.84	20	
Xylenes (total)	64.2	0.50	"	60.0	ND	107	70-130	2.61	20	
Surrogate: a,a,a-Trifluorotoluene	29.5		"	30.0		98.3	70-130			



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

Project: Chevron
Project Number: Chevron # 9-9708
Project Manager: Deanna L. Harding

Reported:
06-Jul-01 07:38

**Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
Batch 1F22005 - EPA 3510B										
Blank (1F22005-BLK1)					Prepared: 22-Jun-01 Analyzed: 25-Jun-01					
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	25.3		"	33.3		76.0	50-150			
LCS (1F22005-BS1)					Prepared: 22-Jun-01 Analyzed: 25-Jun-01					
Diesel Range Hydrocarbons	426	50	ug/l	500		85.2	60-140			
Surrogate: n-Pentacosane	26.7		"	33.3		80.2	50-150			
LCS Dup (1F22005-BSD1)					Prepared: 22-Jun-01 Analyzed: 25-Jun-01					
Diesel Range Hydrocarbons	433	50	ug/l	500		86.6	60-140	1.63	50	
Surrogate: n-Pentacosane	25.3		"	33.3		76.0	50-150			



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

Project: Chevron
Project Number: Chevron # 9-9708
Project Manager: Deanna L. Harding

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**Volatile Organic Compounds by EPA Method 8010B - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1F21008 - EPA 5030B [P/T]										
Blank (1F21008-BLK3)										
Prepared & Analyzed: 26-Jun-01										
Chloromethane	ND	2.0	ug/l							
Vinyl chloride	ND	1.0	"							
Bromomethane	ND	1.2	"							
Chloroethane	ND	1.0	"							
Trichlorofluoromethane	ND	0.60	"							
Freon 113	ND	1.0	"							
1,1-Dichloroethene	ND	1.0	"							
Methylene chloride	ND	10	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
Chloroform	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Carbon tetrachloride	ND	1.0	"							
1,2-Dichloroethane	ND	1.6	"							
Trichloroethene	ND	1.1	"							
1,2-Dichloropropane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	0.60	"							
1,1,2-Trichloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.60	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dibromoethane	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Bromoform	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.60	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	1.2	"							
1,2-Dichlorobenzene	ND	1.2	"							
Surrogate: Dibromodifluoromethane	10.9		"	10.0		109	50-150			
Surrogate: 4-Bromofluorobenzene	12.1		"	10.0		121	50-150			



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**Volatile Organic Compounds by EPA Method 8010B - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1F21008 - EPA 5030B [P/T]

LCS (1F21008-BS3)

Prepared & Analyzed: 26-Jun-01

1,1-Dichloroethene	19.9	1.0	ug/l	20.0		99.5	65-135			
Trichloroethene	20.4	1.1	"	20.0		102	70-130			
Chlorobenzene	19.5	1.0	"	20.0		97.5	70-130			
Surrogate: Dibromodifluoromethane	11.3		"	10.0		113	50-150			
Surrogate: 4-Bromofluorobenzene	13.4		"	10.0		134	50-150			

Matrix Spike (1F21008-MS1)

Source: W106354-01

Prepared: 21-Jun-01 Analyzed: 26-Jun-01

1,1-Dichloroethene	16.3	1.0	ug/l	20.0	ND	81.5	60-140			
Trichloroethene	17.7	1.1	"	20.0	ND	88.5	60-140			
Chlorobenzene	16.7	1.0	"	20.0	ND	83.5	60-140			
Surrogate: Dibromodifluoromethane	10.6		"	10.0		106	50-150			
Surrogate: 4-Bromofluorobenzene	12.3		"	10.0		123	50-150			

Matrix Spike Dup (1F21008-MSD1)

Source: W106354-01

Prepared: 21-Jun-01 Analyzed: 26-Jun-01

1,1-Dichloroethene	19.1	1.0	ug/l	20.0	ND	95.5	60-140	15.8	25	
Trichloroethene	19.0	1.1	"	20.0	ND	95.0	60-140	7.08	25	
Chlorobenzene	18.5	1.0	"	20.0	ND	92.5	60-140	10.2	25	
Surrogate: Dibromodifluoromethane	11.8		"	10.0		118	50-150			
Surrogate: 4-Bromofluorobenzene	13.4		"	10.0		134	50-150			



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Notes and Definitions

- CC-3 Continuing Calibration indicates that the quantitative result for this analyte includes a greater than 15% degree of uncertainty. The value as reported is within method acceptance.
- D-12 Chromatogram Pattern: Unidentified Hydrocarbons > C16
- P-01 Chromatogram Pattern: Gasoline C6-C12
- P-03 Chromatogram Pattern: Unidentified Hydrocarbons 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