



3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670-6021
U.S.A.
916/638-2085
FAX: 916/638-8385

May 18, 2001

Don Hwang
Ref # 124

~~Mr. Thomas Peacock~~
Alameda County Health Care Service
Department of Environmental Health
1153 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

MAY 23 2001

Subject: *First Quarter Event of March 1, 2001*
Groundwater Monitoring and Sampling Report
Chevron Service Station No. 9-9708
5910 MacArthur Boulevard
Oakland, California
Delta Project No. DG99-708

Dear Mr. Peacock:

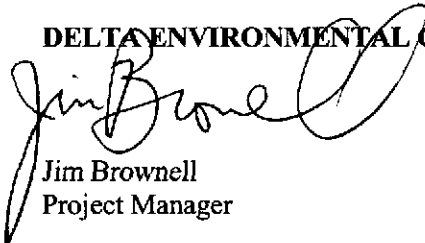
Attached for your review and comment is a letter report entitled *First Quarter Event of March 1, 2001, Groundwater Monitoring and Sampling Report* for the above referenced site. This report was prepared by Delta Environmental Consultants, Inc. / Gettler-Ryan, Inc and details the results of the March 2001 ground water monitoring and sampling event.

To further characterize groundwater west of the site, Delta has proposed to install two groundwater monitoring wells off-site. Additionally, Delta will perform a sensitive receptor survey to identify potential receptors in the vicinity of the site.

If you have questions or comments regarding this report, please contact me at (916) 638-2732.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.



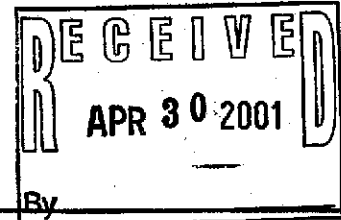
Jim Brownell
Project Manager

JRB (1st Qrt 2001 QM-9-9708.doc)
Enclosures

cc: Tom Bauhs – Chevron Product Company



GETTLER-RYAN Inc.



TRANSMITTAL

April 23, 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**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
2	April 18, 2001	Groundwater Monitoring and Sampling Report First Quarter - Event of March 1, 2001

COMMENTS:

Enclosed are copies of the above referenced report for your review and distribution to the following:

Mr. Thomas Peacock, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **May 4, 2001**, at which time the final report will be distributed to the following:

Mr. Greg Gurss, 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.

April 18, 2001
G-R Job #386395

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

RE: First Quarter Event of March 1, 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

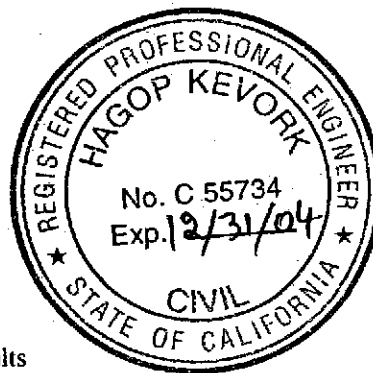
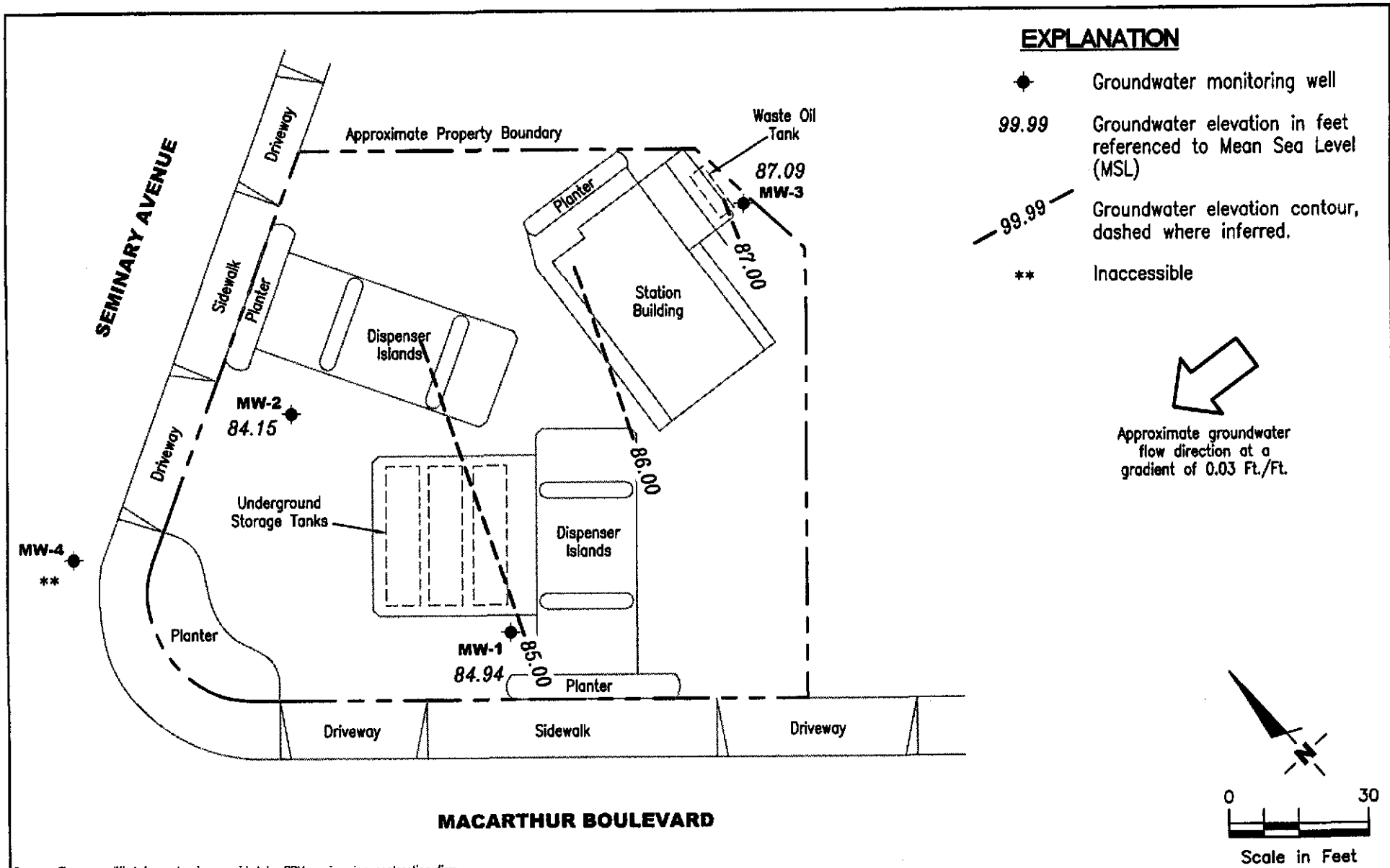


Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



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
March 1, 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	--	--	--
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	--	--	--
05/04/99	96.91	84.05	12.86	--	--	--	--	--	--	--	--	--	--

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)													
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 ^d	490	7.5	<5.0	7.7	770	--	--	--
09/30/00	96.91	83.95	12.96	--	2,000 ^d	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	--	--	--
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
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	1,060⁶	60.9⁷	<0.500	<0.500	<0.500	<0.500	<2.50	0.545	0.528	<0.500-<5.00

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Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-9708
5910 MacArthur Boulevard
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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-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	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--
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	--	--	--

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)
TRIP BLANK (cont)													
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	--	--	--

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

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

DTW = Depth to Water

TPH-D Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

1,2-DCB = 1,2-Dichlorobenzene

1,2-DCA = 1,2-Dichloroethane

HVOCs = Halogenated Volatile Organic Compounds

ND = Not Detected

-- = Not Measured/Not Analyzed

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 SS# 9-9708
Address: 5910 MacArthur Blvd.
City: Oakland

Job#: 386395
Date: 3/1/01
Sampler: T.C.

Well ID: MW-1
Well Diameter: 2 in.
Total Depth: 20.07 ft.
Depth to Water: 11.67 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

8.40 x VF 1.7 = 1.4 x 3 (case volume) = Estimated Purge Volume: 4.0 (gal.)

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

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

Starting Time: _____
Sampling Time: 1315
Purging Flow Rate: _____ gpm.
Did well de-water? _____

Weather Conditions: Cloudy
Water Color: Clear Odor: y
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1300</u>	<u>1.5</u>	<u>7.01</u>	<u>989</u>	<u>68.6</u>	_____	_____	_____
<u>1305</u>	<u>3.0</u>	<u>6.98</u>	<u>986</u>	<u>68.8</u>	_____	_____	_____
<u>1310</u>	<u>4.0</u>	<u>6.93</u>	<u>953</u>	<u>68.7</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # Chevron SS# 9-9708 Job#: 386395
 Address: 5910 MacArthur Blvd. Date: 3/1/01
 City: Oakland Sampler: T.C.

Well ID: MW-2 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Thickness: ∅ in. Amount Bailed (product/water): ∅ (gal.)
 Total Depth: 19.98 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water: 12.76 ft. 6" = 1.50 12" = 5.80

7.22 x VF 1.7 = 1.22 x 3 (case volume) = Estimated Purge Volume: 3.5 (gal.)

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

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

Starting Time: 1335
 Sampling Time: 1345
 Purging Flow Rate: _____ gpm
 Did well de-water? N

Weather Conditions: Cloudy
 Water Color: Clear Odor: y
 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>1338</u>	<u>1.0</u>	<u>7.10</u>	<u>958</u>	<u>69.0</u>	_____	_____	_____
<u>1340</u>	<u>2.0</u>	<u>7.08</u>	<u>943</u>	<u>68.8</u>	_____	_____	_____
<u>1342</u>	<u>3.5</u>	<u>6.98</u>	<u>936</u>	<u>68.8</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3 x VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>Saguna</u>	<u>TPH6/BTEX/MTOE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # Chevron SS# 9-9708 Job#: 386395
 Address: 5910 MacArthur Blvd. Date: 3/1/01
 City: Oakland Sampler: T.C.

Well ID: MW-3 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth: 19.95 ft. Volume Factor (VF):
 Depth to Water: 10.77 ft. 2" = 0.17 3" = 0.38 4" = 0.66
 6" = 1.50 12" = 5.80

9.18 x VF 1.7 = 1.5 X 3 (case volume) = Estimated Purge Volume: 4.5 (gal.)

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

Starting Time: 1400 Weather Conditions: Cloudy
 Sampling Time: 1415 Water Color: Clear Odor: y
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? N If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1403</u>	<u>1.5</u>	<u>7.16</u>	<u>498</u>	<u>68.1</u>	_____	_____	_____
<u>1407</u>	<u>3.0</u>	<u>7.08</u>	<u>463</u>	<u>67.9</u>	_____	_____	_____
<u>1411</u>	<u>4.5</u>	<u>7.02</u>	<u>455</u>	<u>67.9</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(1) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 x VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>Squibb</u>	<u>TPH/G/BTEX/MTBE</u>
	<u>2 x VOA VIAL</u>	<u>Y</u>	<u>"</u>	<u>"</u>	<u>SO10</u>
	<u>12 Amber</u>	<u>Y</u>	<u>—</u>	<u>"</u>	<u>TPH+D</u>

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # Chevron SS# 9-9708
Address: 5910 MacArthur Blvd.
City: Oakland

Job#: 386395
Date: 3/1/01
Sampler: T.C.

Well ID: MW-4

Well Condition: Inaccessible

Well Diameter: 2 in.
Total Depth: _____ ft.
Depth to Water: _____ ft.

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	

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

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

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

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

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

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	X VOA VIAL	Y	HCL		TPHG/BTEX/MTOE

COMMENTS: INACCESSIBLE Due to Road Construction and traffic.



Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

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GETTLER-RYAN INC.
GENERAL CONTACTORS

19 March, 2001

Deanna L. Harding
Gettler Ryan / Geostrategies - Dublin (Chevron)
6747 Sierra Court, Suite J
Dublin, CA 94568

RE: 5910 Mac Arthur Blvd., Oakland
Sequoia Report: MKC0061

Enclosed are the results of analyses for samples received by the laboratory on 03/02/01 18:16. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Smyly
Project Manager

CA ELAP Certificate #1210





Gettler Ryan / Geostrategies - Dublin (Chevron)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: 5910 Mac Arthur Blvd., Oakland
Project Number: 9-9708 Oakland
Project Manager: Deanna L. Harding

Reported:
03/19/01 09:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	MKC0061-01	Water	03/01/01 00:00	03/02/01 18:16
MW-1	MKC0061-02	Water	03/01/01 13:15	03/02/01 18:16
MW-2	MKC0061-03	Water	03/01/01 13:45	03/02/01 18:16
MW-3	MKC0061-04	Water	03/01/01 14:15	03/02/01 18:16

Sequoia Analytical - Morgan Hill

Jeff Smyly, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Gettler Ryan / Geostrategies - Dublin (Chevron)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: 5910 Mac Arthur Blvd., Oakland
Project Number: 9-9708 Oakland
Project Manager: Deanna L. Harding

Reported:
03/19/01 09:33

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (MKC0061-01) Water Sampled: 03/01/01 00:00 Received: 03/02/01 18:16									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1C05006	03/05/01	03/05/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		100 %	70-130		"	"	"	"	
MW-1 (MKC0061-02) Water Sampled: 03/01/01 13:15 Received: 03/02/01 18:16									
Purgeable Hydrocarbons	340	50.0	ug/l	1	1C05006	03/05/01	03/05/01	DHS LUFT	P-03
Benzene	36.6	10.0	"	20	"	"	03/05/01	"	
Toluene	ND	0.500	"	1	"	"	03/05/01	"	
Ethylbenzene	10.1	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	3360	50.0	"	20	"	"	03/05/01	"	M-03
Surrogate: a,a,a-Trifluorotoluene		104 %	70-130		"	"	03/05/01	"	
MW-2 (MKC0061-03) Water Sampled: 03/01/01 13:45 Received: 03/02/01 18:16									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1C05006	03/05/01	03/05/01	DHS LUFT	
Benzene	4.16	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	245	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.5 %	70-130		"	"	"	"	





Gettler Ryan / Geostrategies - Dublin (Chevron)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: 5910 Mac Arthur Blvd., Oakland
Project Number: 9-9708 Oakland
Project Manager: Deanna L. Harding

Reported:
03/19/01 09:33

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MKC0061-04) Water Sampled: 03/01/01 14:15 Received: 03/02/01 18:16									
Purgeable Hydrocarbons	60.9	50.0	ug/l	1	1C05006	03/05/01	03/05/01	DHS LUFT	P-03
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		98.0 %		70-130	"	"	"	"	





Gettler Ryan / Geostrategies - Dublin (Chevron)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: 5910 Mac Arthur Blvd., Oakland
Project Number: 9-9708 Oakland
Project Manager: Deanna L. Harding

Reported:
03/19/01 09:33

Diesel Hydrocarbons (C9-C24) by DHS LUFT

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MKC0061-04) Water Sampled: 03/01/01 14:15 Received: 03/02/01 18:16									
Diesel Range Hydrocarbons	1060	50.0	ug/l	1	1C12021	03/12/01	03/15/01	DHS LUFT	D-15
<i>Surrogate: n-Pentacosane</i>		<i>115 %</i>	<i>50-150</i>		"	"	"	"	





Gettler Ryan / Geostrategies - Dublin (Chevron)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: 5910 Mac Arthur Blvd., Oakland
Project Number: 9-9708 Oakland
Project Manager: Deanna L. Harding

Reported:
03/19/01 09:33

Volatile Organic Compounds by EPA Method 8021B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MKC0061-04) Water Sampled: 03/01/01 14:15 Received: 03/02/01 18:16									
Bromodichloromethane	ND	0.500	ug/l	1	1C05008	03/05/01	03/08/01	EPA 8021B	
Bromoform	ND	0.500	"	"	"	"	"	"	
Bromomethane	ND	1.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	0.545	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	0.528	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.00	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.1 %		70-130	"	"	"	"	





Gettler Ryan / Geostrategies - Dublin (Chevron)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: 5910 Mac Arthur Blvd., Oakland
Project Number: 9-9708 Oakland
Project Manager: Deanna L. Harding

Reported:
03/19/01 09:33

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1C05006 - EPA 5030B [P/T]										
Blank (1C05006-BLK1) Prepared & Analyzed: 03/05/01										
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.96		"	10.0		99.6	70-130			
LCS (1C05006-BS1) Prepared & Analyzed: 03/05/01										
Purgeable Hydrocarbons	242	50.0	ug/l	250		96.8	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.97		"	10.0		99.7	70-130			
Matrix Spike (1C05006-MS1) Source: MKC0049-01 Prepared: 03/05/01 Analyzed: 03/06/01										
Purgeable Hydrocarbons	246	50.0	ug/l	250	ND	98.4	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.4		"	10.0		104	70-130			
Matrix Spike Dup (1C05006-MSD1) Source: MKC0049-01 Prepared & Analyzed: 03/05/01										
Purgeable Hydrocarbons	235	50.0	ug/l	250	ND	94.0	60-140	4.57	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.2		"	10.0		102	70-130			





Gettler Ryan / Geostrategies - Dublin (Chevron)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: 5910 Mac Arthur Blvd., Oakland
Project Number: 9-9708 Oakland
Project Manager: Deanna L. Harding

Reported:
03/19/01 09:33

Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1C12021 - EPA 3510B										
Blank (1C12021-BLK1)					Prepared: 03/12/01 Analyzed: 03/15/01					
Diesel Range Hydrocarbons	ND	50.0	ug/l							
Surrogate: n-Pentacosane	68.5		"	100		68.5	50-150			
LCS (1C12021-BS1)					Prepared: 03/12/01 Analyzed: 03/15/01					
Diesel Range Hydrocarbons	773	50.0	ug/l	1000		77.3	60-140			
Surrogate: n-Pentacosane	73.2		"	100		73.2	50-150			
Matrix Spike (1C12021-MS1)					Source: MKC0066-02 Prepared: 03/12/01 Analyzed: 03/15/01					
Diesel Range Hydrocarbons	ND	50.0	ug/l	1000	ND		50-150			
Surrogate: n-Pentacosane	0		"	100			50-150			
Matrix Spike Dup (1C12021-MSD1)					Source: MKC0066-02 Prepared: 03/12/01 Analyzed: 03/15/01					
Diesel Range Hydrocarbons	ND	50.0	ug/l	1000	ND		50-150		50	
Surrogate: n-Pentacosane	0		"	100			50-150			





Gettler Ryan / Geostrategies - Dublin (Chevron)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: 5910 Mac Arthur Blvd., Oakland
Project Number: 9-9708 Oakland
Project Manager: Deanna L. Harding

Reported:
03/19/01 09:33

**Volatile Organic Compounds by EPA Method 8021B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1C05008 - EPA 5030B [P/T]										
Blank (1C05008-BLK1)										
Prepared & Analyzed: 03/05/01										
Bromodichloromethane	ND	0.100	ug/l							
Bromoform	ND	0.100	"							
Bromomethane	ND	0.200	"							
Carbon tetrachloride	ND	0.100	"							
Chlorobenzene	ND	0.100	"							
Chloroethane	ND	0.200	"							
Chloroform	ND	0.100	"							
Chloromethane	ND	0.200	"							
Dibromochloromethane	ND	0.100	"							
1,3-Dichlorobenzene	ND	0.100	"							
1,4-Dichlorobenzene	ND	0.100	"							
1,2-Dichlorobenzene	ND	0.100	"							
1,1-Dichloroethane	ND	0.100	"							
1,2-Dichloroethane	ND	0.100	"							
1,1-Dichloroethene	ND	0.100	"							
cis-1,2-Dichloroethene	ND	0.100	"							
trans-1,2-Dichloroethene	ND	0.100	"							
1,2-Dichloropropane	ND	0.100	"							
cis-1,3-Dichloropropene	ND	0.100	"							
trans-1,3-Dichloropropene	ND	0.100	"							
Methylene chloride	ND	1.00	"							
1,1,2,2-Tetrachloroethane	ND	0.100	"							
Tetrachloroethene	ND	0.100	"							
1,1,1-Trichloroethane	ND	0.100	"							
1,1,2-Trichloroethane	ND	0.100	"							
1,1,2-Trichlorotrifluoroethane	ND	0.200	"							
Trichloroethene	ND	0.100	"							
Trichlorofluoromethane	ND	0.100	"							
Vinyl chloride	ND	0.200	"							
1,2-Dibromoethane	ND	0.200	"							
Surrogate: 4-Bromofluorobenzene	10.2		"	10.0		102	70-130			





Gettler Ryan / Geostrategies - Dublin (Chevron)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: 5910 Mac Arthur Blvd., Oakland
Project Number: 9-9708 Oakland
Project Manager: Deanna L. Harding

Reported:
03/19/01 09:33

Volatile Organic Compounds by EPA Method 8021B - Quality Control
Sequoia Analytical - Morgan Hill

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

Batch 1C05008 - EPA 5030B [P/T]

Blank (1C05008-BLK2)

Prepared: 03/05/01 Analyzed: 03/07/01

Bromodichloromethane	ND	0.500	ug/l							
Bromoform	ND	0.500	"							
Bromomethane	ND	1.00	"							
Carbon tetrachloride	ND	0.500	"							
Chlorobenzene	ND	0.500	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	0.500	"							
Chloromethane	ND	1.00	"							
Dibromochloromethane	ND	0.500	"							
1,3-Dichlorobenzene	ND	0.500	"							
1,4-Dichlorobenzene	ND	0.500	"							
1,2-Dichlorobenzene	ND	0.500	"							
1,1-Dichloroethane	ND	0.500	"							
1,2-Dichloroethane	ND	0.500	"							
1,1-Dichloroethene	ND	0.500	"							
cis-1,2-Dichloroethene	ND	0.500	"							
trans-1,2-Dichloroethene	ND	0.500	"							
1,2-Dichloropropane	ND	0.500	"							
cis-1,3-Dichloropropene	ND	0.500	"							
trans-1,3-Dichloropropene	ND	0.500	"							
Methylene chloride	ND	5.00	"							
1,1,2,2-Tetrachloroethane	ND	0.500	"							
Tetrachloroethene	ND	0.500	"							
1,1,1-Trichloroethane	ND	0.500	"							
1,1,2-Trichloroethane	ND	0.500	"							
1,1,2-Trichlorotrifluoroethane	ND	1.00	"							
Trichloroethene	ND	0.500	"							
Trichlorofluoromethane	ND	0.500	"							
Vinyl chloride	ND	1.00	"							
1,2-Dibromoethane	ND	1.00	"							
Surrogate: 4-Bromofluorobenzene	12.3		"	10.0		123	70-130			





Gettler Ryan / Geostrategies - Dublin (Chevron)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: 5910 Mac Arthur Blvd., Oakland
Project Number: 9-9708 Oakland
Project Manager: Deanna L. Harding

Reported:
03/19/01 09:33

**Volatile Organic Compounds by EPA Method 8021B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1C05008 - EPA 5030B [P/T]

LCS (1C05008-BS1)

Prepared & Analyzed: 03/05/01

Chlorobenzene	14.3	0.500	ug/l	12.5		114	70-130			
1,1-Dichloroethene	13.5	0.500	"	12.5		108	65-135			
Trichloroethene	14.3	0.500	"	12.5		114	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.5</i>		<i>"</i>	<i>10.0</i>		<i>115</i>	<i>70-130</i>			

LCS (1C05008-BS2)

Prepared: 03/05/01 Analyzed: 03/07/01

Chlorobenzene	30.0	0.500	ug/l	25.0		120	70-130			
1,1-Dichloroethene	27.9	0.500	"	25.0		112	65-135			
Trichloroethene	29.2	0.500	"	25.0		117	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.9</i>		<i>"</i>	<i>10.0</i>		<i>119</i>	<i>70-130</i>			





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Notes and Definitions

D-15 Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
M-03 Sample was analyzed at a second dilution.
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

