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*By dehloptoxic at 9:13 am, Aug 04, 2006*

**C A M B R I A**

August 3, 2006

Chester Nakahara  
Chief Building Inspector  
City of Piedmont  
120 Visa Avenue,  
Piedmont, California 94611

Re: **Water Seep Assessment**  
Former Chevron Service Station 9-0329  
340 Highland Avenue  
Piedmont, California

Dear Mr. Nakahara:



This report has been prepared by Cambria Environmental Technology, Inc. (Cambria) on behalf of Chevron Environmental Management Company (Chevron) to address your concerns in regards to water accumulating in the depression of cracked asphalt at the site listed above. The City of Piedmont was concerned that seepage through the asphalt on the service station property may present a risk to human health and requested that this issue be investigated. Our investigation procedures and results are presented below.

### **SITE BACKGROUND**

The site is a former Chevron service station located at the intersection of Highland Avenue and Highland Way in Piedmont, California (Figure 1). Chevron sold the property and station facilities to Hoffman Investment Company in 1990. Neither diesel nor oxygenated fuels with elevated methyl tertiary butyl ether (MTBE) content were sold on this site during Chevron's operation of the service station. The site is currently operated as a Valero station.

The site is on a south facing hillside and is approximately 345 feet above mean sea level (MSL) with a relatively steep topographic gradient to the southeast. Surrounding land use is commercial, residential and recreational. Piedmont Park is across Highland Avenue immediately down-gradient of the site. The nearest surface water is a small creek located within Piedmont Park.

The site sits on a hillside that is underlain at shallow depths by siltstone and sandstone bedrock. Native sediments encountered during drilling were silts and sands that appear to be derived from the bedrock. The bedrock/sediment interface essentially parallels surface topography and results in a thin veneer of weathered material overlying more competent bedrock. Competent bedrock has been encountered beneath the site at depths ranging from approximately 10 feet below grade (fbg) on the upper slope of the site to as shallow as 1 to 3 fbg on the lower areas of the property. The bedrock surface is overlain by weathered bedrock or by highly permeable fill material. On

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Environmental  
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5900 Hollis Street  
Suite A  
Emeryville, CA 94608  
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the downslope side of the site, bedrock is overlain by low to moderately permeable silty sand (Figure 2).

## GROUNDWATER MONITORING MAY 2006

To assess whether groundwater percolating through the asphalt onsite presents any potential risk to human health, Gettler-Ryan (GR) sampled nearby monitoring wells C-2 through C-6 (Figure 3 and Attachment A). Wells specifically pertinent to this investigation are C-2 and C-4 because they are closest to the groundwater seep in the asphalt. Well C-2 is located topographically downslope from the USTs and dispenser islands. It is also in the historically downgradient direction from the USTs. The nearest well downgradient of the dispenser islands is C-4.

The wells were sampled rather than sampling the actual accumulated water in the asphalt depression because the water may be an accumulation of surface runoff and groundwater seepage. Accumulated surface water could be impacted by hydrocarbons associated with normal service station operations, like overfills. Sampling the wells provides direct data on hydrocarbon concentrations in groundwater rather than possible surface runoff accumulations.

Groundwater samples were analyzed for total petroleum hydrocarbons as diesel (TPHd) and gasoline (TPHg) by modified EPA method 8015, and benzene, toluene, ethylbenzene, and total xylenes (BTEX) and MTBE by EPA method 8260B.

### Sampling Results

TPHg and BTEX were only detected in well C-2 at concentrations of 6,100 ug/L TPHg, 400 ug/L benzene, 9 ug/L toluene, 110 ug/L ethylbenzene and 27 ug/L xylenes. MTBE was detected in samples collected from wells C-4 at 3 ug/L and C-2 at 690 ug/L. TPHd was detected between 150 ug/L in well C-6 and 2,400 ug/L in well C-2.

### Evaluation of Sample Results

Laboratory results of TPHd analysis indicate that the samples from well C-4 and C-6 contain compounds that elute later than standard diesel fuel. This suggests that the TPHd detected is neither weathered gasoline nor actual diesel fuel, but may instead be a heavier oil. Chevron records confirm that diesel fuel was never dispensed during their service station operations. Additionally, no records exist which indicate that MTBE had been blended into fuels dispensed at the station during Chevron's operations either. Therefore, the concentration of MTBE detected during this investigation cannot be the result of activities from the former Chevron service station.

Onsite well C-2 contains petroleum hydrocarbons that may be related to a product release from the former Chevron station operations. However, the presence of MTBE detected in C-2 indicates that a more recent release from the post-Chevron station operations is at least partially responsible for hydrocarbon concentrations in monitoring well C-2.

The primary constituents of concern when evaluating risks associated with exposure to gasoline are BTEX. According to the National Institute for Occupational Safety and Health (NIOSH) pocket guide, exposure to BTEX occurs through inhalation, absorption and/or ingestion. Ingestion is not a concern in this circumstance because accumulated water in this puddle will not be consumed by humans. After observing the cracks in pavement and reviewing previous environmental reports on the site, there are two potential exposure pathways that are evaluated below.



**Inhalation of Vapors** – Vapors volatilizing from surface water into outdoor air can pose a concern to human health. Table 1 displays the California Regional Water Quality Control Board (CRWQCB), San Francisco Bay Region, Environmental Screening Levels (ESLs), revised in February 2005, for evaluation of potential vapor intrusion concerns. These ESLs are for volatilization to indoor air and are therefore overly conservative for this evaluation. ESLs were compared to detected constituents encountered during the groundwater monitoring event and used to evaluate whether vapors pose a risk to human health.

TABLE 1. GROUNDWATER SCREENING LEVELS FOR EVALUATION OF POTENTIAL VAPOR INTRUSION CONCERNS						
		Residential			Commercial/Industrial	
		Vadose-Zone Soil Type			Vadose-Zone Soil Type	
CHEMICAL PARAMETER	Physical State		High K	Low/Moderate K	High K	Low/Moderate K
			(ug/L)	(ug/L)	(ug/L)	(ug/L)
BENZENE	Vapor	Liquid	5.4E+02	1.9E+03	1.8E+03	6.4E+03
ETHYLBENZENE	Vapor	Liquid	1.7E+05	1.7E+05	1.7E+05	1.7E+05
TOLUENE	Vapor	Liquid	3.8E+05	5.3E+05	5.3E+05	5.3E+05
XYLENES	Vapor	Liquid	1.6E+05	1.6E+05	1.6E+05	1.6E+05

Concentrations of BTEX were below ESLs for indoor vapor intrusion concerns. Therefore, there is no defined risk associated with inhalation of vapors volatilized from this surface seep to outdoor air at the site.

**Dermal Absorption** – There are no ESLs or risk based screening levels (RBSL) published by the RWQCB for dermal absorption of BTEX. However, the Michigan Department of Environmental Quality (MDEQ) produced a General RBSL for groundwater contact.



<b>Michigan Department of Environmental Quality</b> <b>Table 2. Groundwater: Residential and Industrial-Commercial Part 201</b> <b>Generic Cleanup Criteria and Screening Levels;</b> <b>Part 213 Tier 1 Risk-Based Screening Levels<sup>1</sup></b>		
CHEMICAL PARAMETER		Groundwater Contact Criteria
		(ug/L)
BENZENE	Liquid	1.1E+04
ETHYLBENZENE	Liquid	1.7E+05
METHYL TERT BUTYL ETHER	Liquid	6.1E+05
TOLUENE	Liquid	5.3E+05
XYLENES	Liquid	1.9E+05

Concentrations of BTEX in groundwater are below the published MDEQ RBSLs for contact criteria. Therefore, potential absorption of BTEX through the skin from water from this seep does not present a human health risk.

**CONCLUSIONS AND RECOMMENDATIONS**

Based on laboratory analytic data and published criteria used in this evaluation, human health is not at risk from groundwater seepage through the pavement and onto the surface of the currently active service station.

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<sup>1</sup> Michigan Department of Environmental Quality, *Attachment 1, Table 1. Groundwater: Residential and Industrial-Commercial part 201 Generic Cleanup Criteria and Screening Levels; Part 213 Tier 1 Risk-Based Screening Levels (RBSLs)*, January 23, 2006, [http://www.deq.state.mi.us/documents/deq-rrd-OpMemo\\_1-Attachment1Table3SoilCommercial.pdf](http://www.deq.state.mi.us/documents/deq-rrd-OpMemo_1-Attachment1Table3SoilCommercial.pdf)

Additionally wells located downgradient of the site have not historically, and do not currently, contain hydrocarbons related to the former Chevron service station. It appears that low permeability soils downgradient of the site effectively block downgradient migration of groundwater and/or hydrocarbons (Figure 2). The low permeability soil is also the likely reason groundwater is seeping through the asphalt during the rainy season. As stated in previous reports, the hydrocarbon plume is confined to the area immediately downgradient of the USTs and dispenser islands and does not appear to be migrating offsite. Cambria reiterates the recommendation to Alameda County Environmental Health Services for case closure.

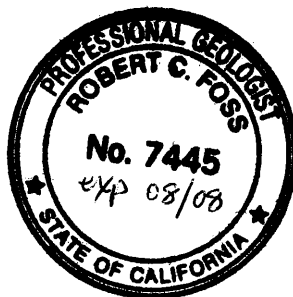
We appreciate this opportunity to work with you on this project. Please contact Laura Genin at 510-420-3367 or by e-mail at [lgenin@cambria-env.com](mailto:lgenin@cambria-env.com) if you should have any questions or comments.



Sincerely,  
**Cambria Environmental Technology, Inc.**

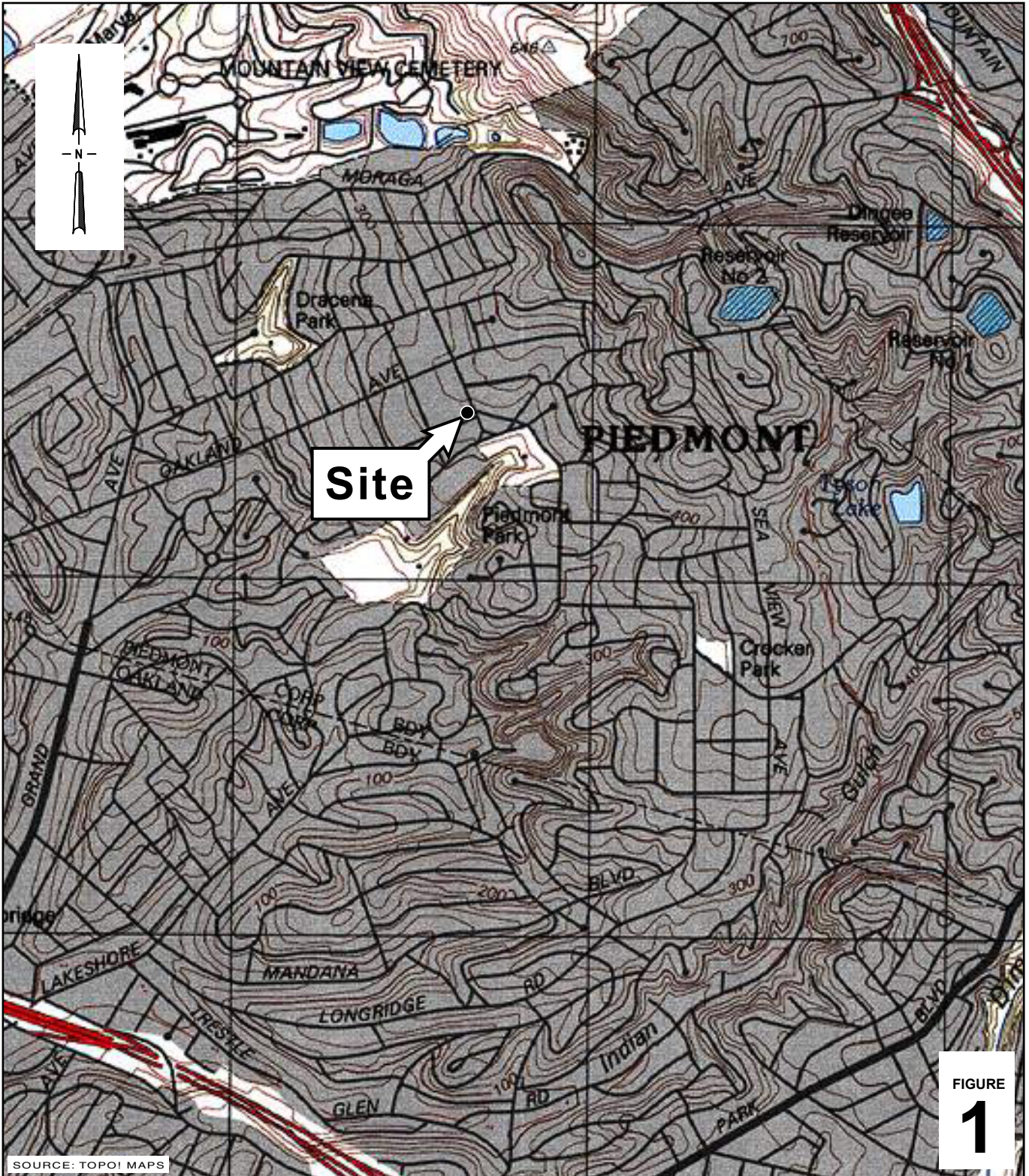
Laura Genin  
Project Geologist

Robert Foss, P.G. #7445  
Associate Geologist



Figures:        1 – Site Vicinity Map  
                     2 – Cross Section A-A'  
                     3 – Site Plan

Attachment A – Gettler-Ryan, *Groundwater Monitoring and Sampling Report*  
*Special Event of May 3, 2006, June 8 2006*



I:\9-0329\_PIEDMONT\FIGURES\9-0329\_VICINITY\_MAP.DWG

SOURCE: TOPO! MAPS

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

FIGURE

1

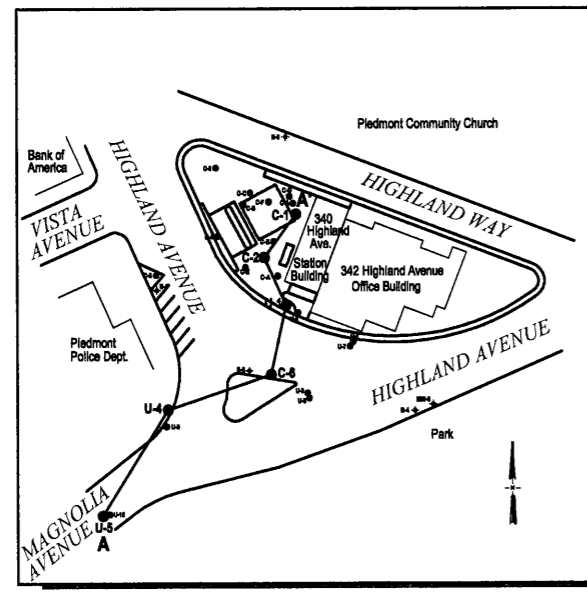
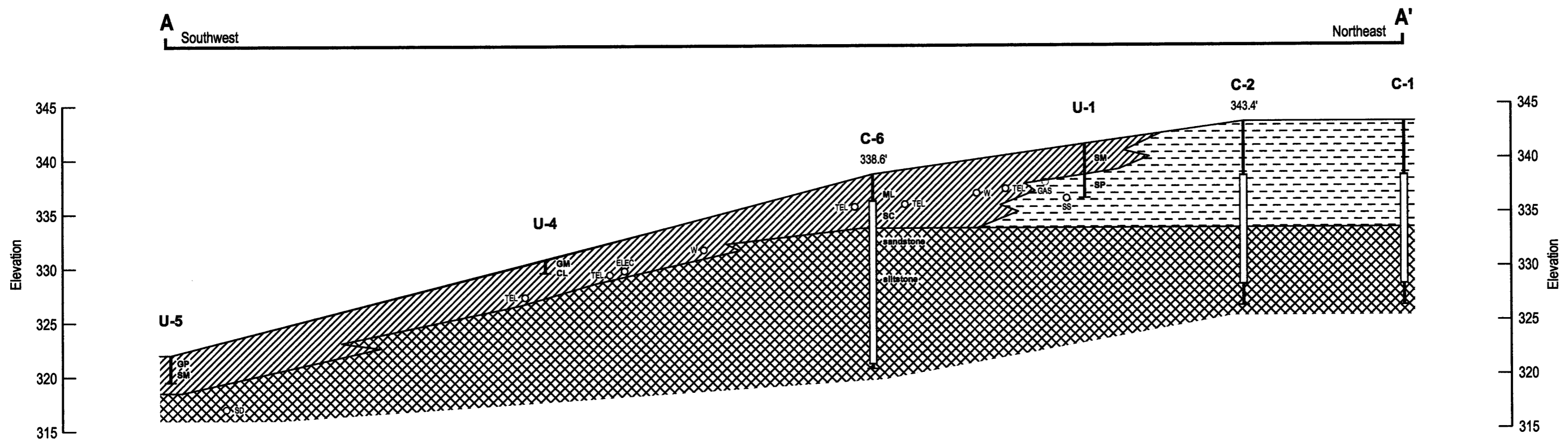
**Former Chevron Station 9-0329**

340 Highland Avenue  
Piedmont, California



C A M B R I A

**Vicinity Map**



**EXPLANATION**

<ul style="list-style-type: none"> <li> = High Permeability Soils SP SW GP</li> <li> = Low to Moderate Permeability Soils GM SM ML SW SC CL</li> <li> = Bedrock Sandstone Siltstone</li> </ul>	<p><b>Well ID</b> — Well Designation Elev. — Top of Casing Elevation</p> <ul style="list-style-type: none"> <li> — Groundwater Monitoring Well</li> <li> — Well Screen Interval</li> <li> — Bottom of boring</li> </ul>
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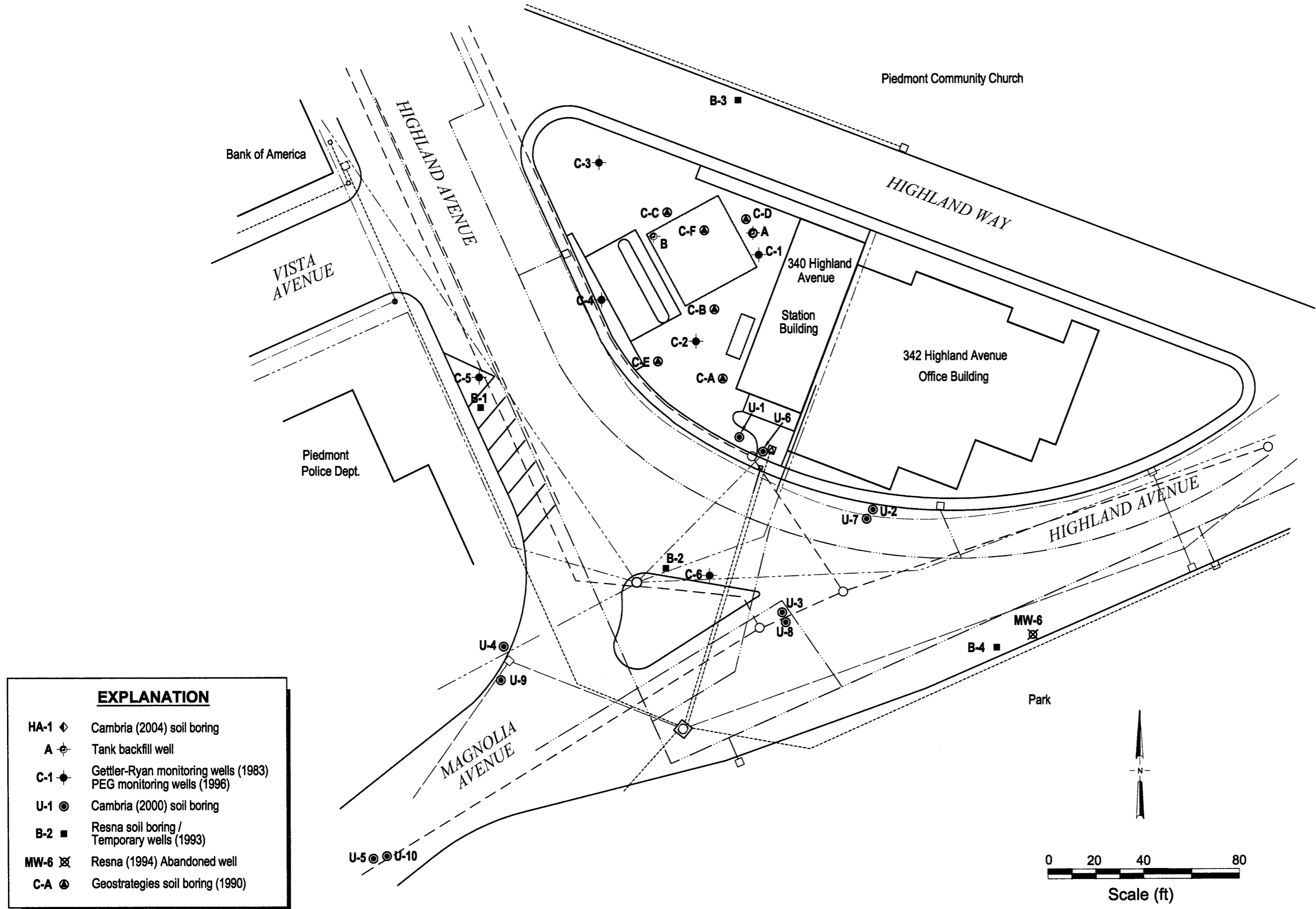


FIGURE  
**2**

Geologic Cross Section A-A'



Former Chevron Station 9-0329  
340 Highland Avenue  
Piedmont, California



EXPLANATION	
HA-1	◆ Cambria (2004) soil boring
A	⊕ Tank backfill well
C-1	◆ Gettler-Ryan monitoring wells (1983) PEG monitoring wells (1996)
U-1	⊙ Cambria (2000) soil boring
B-2	■ Resna soil boring / Temporary wells (1993)
MW-6	⊗ Resna (1994) Abandoned well
C-A	⊙ Geostrategies soil boring (1990)

Basemap modified from Pacific Environmental Group, Inc.

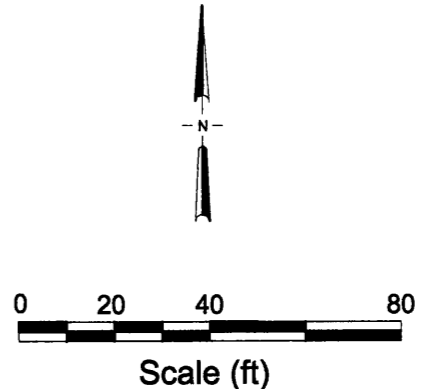


FIGURE  
**3**

19-0329\_PIEDMONT/FIGURE 0329\_SITEPLAN.DWG





# GETTLER-RYAN INC.

## TRANSMITTAL

June 8, 2006  
G-R #386493

TO: Ms. Laura Genin  
Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Emeryville, CA 94608

CC: Mr. Satya Sinha  
Chevron Environmental  
Management Company  
P.O. Box 6012, Room K2256  
San Ramon, California 94583

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

RE: **Former Chevron Service Station  
#9-0329  
340 Highland Avenue  
Piedmont, California  
RO 0000269**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	June 8, 2006	Groundwater Monitoring and Sampling Report Special - Event of May 3, 2006

### COMMENTS:

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **June 22, 2006**, at which time the final report will be distributed to the following:

cc: Mr. Chuck Headlee, RWQCB-S.F. Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612  
Mr. John Robinson, Hoffman Investment Co., 1035 Edwards Road, Burlingame, CA 94010  
Mr. Ravi Randawa, (Address Unavailable)  
Mr. Howard Perera, 340 Highland Avenue, Piedmont, CA 94611  
Mr. Jeff Orwig, 66 Ambleside Court, Danville, CA 94526  
Mr. Fred Manchouri, 1065 Shuey Drive, Moraga, CA 94556  
Mr. Mir Ghafari, 68 Bates Boulevard, Orinda, CA 94563  
Mr. Jon Robbins, Chevron Products Law, P.O. Box 6004, Building T, Room T-4284, San Ramon, CA 94583 (w/o attachments)  
Mr. Barney Chan, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577 (No Hard Copy-UPLOAD TO ALAMEDA CO.)

Enclosures

trans/9-0329-MI



**Satya P. Sinha**  
Project Manager  
Retail and Terminal  
Business Unit

**Chevron Environmental  
Management Company**  
6001 Bollinger Canyon Road,  
Room K2256  
San Ramon, CA 94583  
Tel (925) 842-9876  
Fax (925) 842-8370  
satyasinha@chevron.com

June 8, 2006

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Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

RE: Chevron Service Station # 9-0329

Address 340 Highland Ave., Piedmont, California

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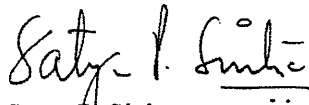
I have reviewed the attached routine groundwater monitoring report dated June 8, 2006.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Gettler-Ryan, Inc., upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b) (1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

  
Satya P. Sinha

Attachment: Report



# GETTLER-RYAN INC.



June 8, 2006  
G-R Job #386493

Mr. Satya Sinha  
Chevron Environmental Management Company  
P.O. Box 6012, Room K2256  
San Ramon, CA 94583

**RE: Special Event of May 3, 2006**  
Groundwater Monitoring & Sampling Report  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

Dear Mr. Sinha:

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

Robert A. Lauritzen  
Senior Geologist, P.G. No. 7504



Figure 1: Potentiometric Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Groundwater Analytical Results - Oxygenate Compounds  
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
- 99.99--- Groundwater elevation contour, dashed where inferred

Approximate groundwater flow direction at a gradient of 0.04 to 0.1 Ft./Ft.

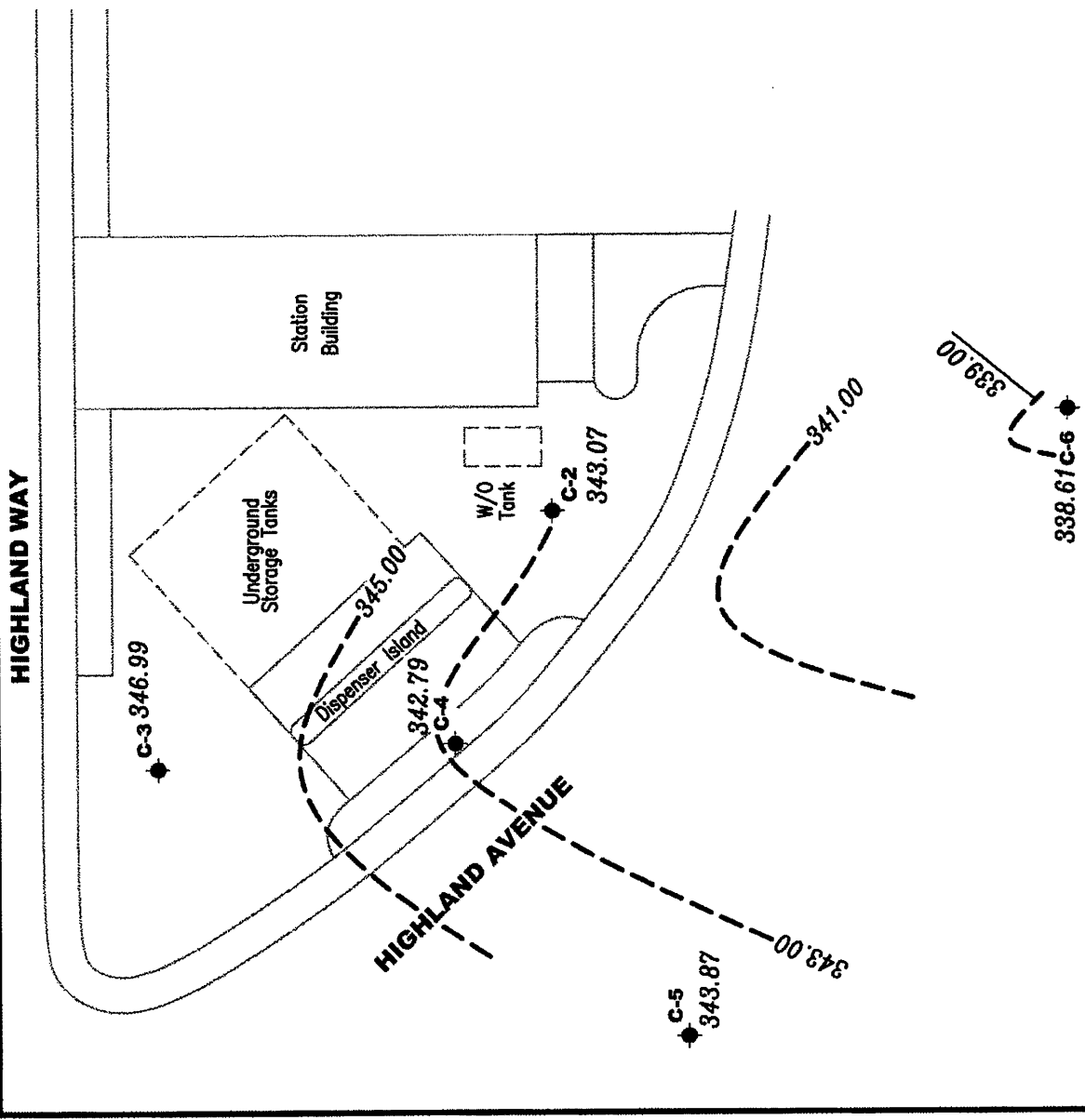
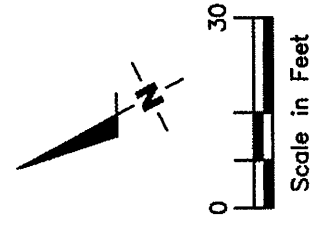


FIGURE 1

**POTENTIOMETRIC MAP**  
 Former Chevron Service Station #9-0329  
 340 Highland Avenue  
 Piedmont, California

DATE: May 3, 2006  
 REVISED DATE:

**Gottler - Ryan Inc.**  
 6747 Sierra Court  
 Dublin, CA 94568  
 (925) 551-7555

**JR**

JOB NUMBER  
**386493**

REVIEWED BY

FILE NAME: P:\Environ\Chevron\9-0329\005-9-0329.DWG | Layout Tab: Pot

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ DATE	TOC* (%)	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>C-2</b>										
08/07/89	94.19	2.88	91.31	--	34,000	580	60	170	270	--
11/15/89	94.19	2.80	91.39	--	8,100	500	36	420	180	--
02/01/91	94.19	3.75	90.44	--	6,800	490	21	310	86	--
04/16/91	94.19	2.55	91.64	--	9,600	810	43	550	270	--
10/16/91	94.19	3.52	90.67	--	7,100	320	23	200	60	--
01/08/92	94.19	4.15	90.04	--	2,400	190	9.0	83	22	--
04/10/92	94.19	2.96	91.23	--	6,600	550	33	340	170	--
07/14/92	94.19	2.83	91.36	--	9,000	680	330	580	690	--
10/05/92	94.19	4.38	89.81	--	5,500	250	17	130	82	--
01/06/93	94.19	3.94	90.25	--	5,500	190	32	41	54	--
03/29/93	94.19	2.09	92.10	--	19,000	670	40	180	370	--
07/02/93	94.19	2.09	92.10	--	8,000	1,100	41	420	500	--
10/11/93	94.19	2.76	91.43	--	42,000	940	34	140	87	--
01/10/94	94.19	4.82	89.37	--	12,000	770	20	220	74	--
04/06/94	94.19	2.49	91.70	--	40,000	820	33	190	110	--
07/06/94	94.19	2.47	91.72	--	8,800	870	28	140	95	--
11/11/94	94.19	2.87	91.32	--	8,600	460	81	180	120	--
01/06/95	94.19	2.55	91.64	--	15,000	880	48	270	140	--
04/13/95	94.19	2.06	92.13	--	56,000	2,500	130	730	360	--
07/25/95	94.19	2.14	92.05	--	11,000	1,000	34	540	160	--
10/05/95	94.19	2.51	91.68	--	13,000	1,000	<20	160	170	--
01/02/96	94.19	2.22	91.97	--	9,500	1,300	<50	380	87	64,000
04/11/96	94.19	1.92	92.27	--	<10,000	1,300	<100	<100	<100	74,000
07/08/96	94.19	2.05	92.14	--	<20,000	1,200	<200	<200	<200	110,000
10/03/96	94.19	2.29	91.90	--	<25,000	1,200	<250	<250	<250	140,000
01/23/97	343.39	1.90	341.49	--	20,000	1,100	<200	460	<200	110,000
02/14/97	343.39	1.97	341.42	--	--	--	--	--	--	150,000 <sup>1</sup>
04/08/97	343.39	2.27	341.12	--	<50,000	1,100	<500	<500	<500	160,000
07/09/97	343.39	1.98	341.41	--	<50,000	1,300	<500	<500	<500	210,000
10/08/97	343.39	2.30	341.09	--	18,000	1,400	<50	300	95	160,000
01/22/98	343.39	1.68	341.71	--	10,000	860	10	140	37	70,000
04/15/98	343.39	1.20	342.19	--	<10,000	1,400	<100	510	<100	46,000
07/09/98	343.39	1.47	341.92	--	33,000	1,700	<50	650	<50	120,000

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>C-2 (cont)</b>										
10/02/98	343.39	2.13	341.26	--	11,000	920	11	130	76	100,000
01/18/99	343.39	1.84	341.55	--	<25,000	1,770	<250	<250	<250	48,400/78,300 <sup>1</sup>
04/19/99	343.39	1.17	342.22	--	9,900	1,110	26.6	455	82	33,300
09/28/99	343.39	2.81	340.58	--	11,500	1,100	<50	93.9	53.1	26,200
10/27/99	343.39	2.98	340.41	--	9,440	711	<20	74.9	42.4	17,500
01/17/00	343.39	2.35	341.04	--	12,200	813	<50	133	<50	21,200
04/11/00	343.39	1.31	342.08	--	210 <sup>d</sup>	26	<0.50	3.7	1.1	580
07/12/00	343.39	1.79	341.60	--	18,100 <sup>5</sup>	1,350	480	800	1,240	19,200
10/07/00	343.39	1.70	341.69	--	8,860 <sup>5</sup>	1,070	<20.0	406	90.5	20,000
01/05/01	343.39	1.57	341.82	--	14,000 <sup>d</sup>	2,000	55	560	120	17,000
04/05/01	343.39	1.37	342.02	--	4,900 <sup>d</sup>	330	38	120	32	1,200
08/20/01	343.39	2.52	340.87	--	7,300	1,100	42	290	55	7,200
11/26/01	343.39	1.35	342.04	--	9,500	650	13	66	44	3,100
02/25/02	343.39	0.82	342.57	--	5,300	340	6.9	83	22	1,200/1,400 <sup>7</sup>
05/17/02	343.39	1.85	341.54	--	6,300	160	5.1	45	14	5,100
08/13/02	343.39	1.95	341.44	--	8,800	670	16	380	73	3,700
11/23/02	343.39	1.62	341.77	--	9,400	490	11	250	47	1,900
02/17/03	343.39	0.65	342.74	--	7,000	340	9.9	160	35	4,200/3,800 <sup>7</sup>
05/19/03 <sup>R</sup>	343.39	0.92	342.47	--	2,500	390	8	90	26	6,000
08/18/03 <sup>R</sup>	343.39	1.05	342.34	--	6,400	300	7	62	23	3,500
11/17/03 <sup>R</sup>	343.39	1.08	342.31	--	5,900	290	6	13	25	2,200
05/03/06 <sup>R</sup>	343.39	0.32	343.07	2,400	6,100	400	9	110	27	690
<b>C-3</b>										
08/07/89	97.65	4.29	93.36	--	<50	<0.5	<1.0	<1.0	<3.0	--
11/15/89	97.65	5.17	92.48	--	<500	<0.5	2.8	<0.5	1.1	--
02/01/91	97.65	6.38	91.27	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/16/91	97.65	3.72	93.93	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/16/91	97.65	8.20	89.45	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/08/92	97.65	6.68	90.97	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/10/92	97.65	4.50	93.15	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/14/92	97.65	6.21	91.44	--	<50	<0.5	<0.5	<0.5	<0.5	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>C-3 (cont)</b>										
10/05/92	97.65	9.31	88.34	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/06/93	97.65	3.41	94.24	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/29/93	97.65	0.50	97.15	--	<50	<0.5	<0.5	<0.5	0.8	--
07/02/93	97.65	2.59	95.06	--	<50	4.0	3.0	<0.5	3.0	--
10/11/93	97.65	4.90	92.75	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/10/94	97.65	4.39	93.26	--	<50	<0.5	1.0	<0.5	0.8	--
04/06/94	97.65	2.68	94.97	--	<50	<0.5	1.0	0.7	4.5	--
07/06/94	97.65	2.10	95.55	--	<50	2.2	4.1	<0.5	2.8	--
11/11/94	97.65	1.23	96.42	--	<50	<0.5	0.8	<0.5	<0.5	--
01/06/95	97.65	0.60	97.05	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/13/95	97.65	0.60	97.05	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/25/95	97.65	1.65	96.00	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/05/95	97.65	3.63	94.02	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/02/96	97.65	3.12	94.53	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/11/96	97.65	0.82	96.83	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/96	97.65	1.50	96.15	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/03/96	97.65	2.48	95.17	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/23/97	347.08	0.21	346.87	--	<50	<0.5	<0.5	<0.5	<0.5	3.2
04/08/97	347.08	0.75	346.33	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/97	347.08	1.47	345.61	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/08/97	347.08	2.04	345.04	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/22/98	347.08	FLOODED	--	--	<50	<0.5	<0.5	<0.5	<0.5	40
04/15/98	347.08	FLOODED	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/13/98 <sup>2</sup>	347.20	--	--	--	--	--	--	--	--	--
07/09/98	347.20	0.47	346.73	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/02/98	347.20	0.98	346.22	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
01/18/99	347.20	0.77	346.43	--	<50	<0.5	<0.5	<0.5	<1.5	<2.0
04/19/99	347.20	0.53	346.67	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
07/19/99	347.20	0.81	346.39	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
10/27/99	347.20	1.47	345.73	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/17/00	347.20	0.94	346.26	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/11/00	347.20	0.30	346.90	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/12/00	347.20	0.42	346.78	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>C-3 (cont)</b>										
10/07/00	347.20	1.01	346.19	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
01/05/01	347.20	1.38	345.82	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
04/05/01	347.20	0.35	346.85	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
08/20/01	347.20	0.80	346.40	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
11/26/01	347.20	0.36	346.84	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/25/02	347.20	0.36	346.84	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>7</sup>
05/17/02	347.20	0.45	346.75	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/13/02	347.20	1.11	346.09	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
11/23/02	347.20	1.49	345.71	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/17/03	347.20	0.51	346.69	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 <sup>7</sup>
05/19/03 <sup>R</sup>	347.20	0.30	346.90	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/18/03 <sup>R</sup>	347.20	0.35	346.85	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/17/03 <sup>R</sup>	347.20	0.28	346.92	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/03/06 <sup>R</sup>	347.20	0.21	346.99	240	<50	<0.5	<0.5	<0.5	<0.5	<0.5
<b>C-4</b>										
08/07/89	95.60	DRY	--	--	--	--	--	--	--	--
11/15/89	95.60	4.95	90.65	--	1300	2.9	310	0.5	2.9	--
02/01/91	95.60	4.78	90.82	--	72	<0.5	9.0	<0.5	<0.5	--
04/16/91	95.60	4.83	90.77	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/16/91	95.60	4.23	91.37	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/08/92	95.60	4.81	90.79	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/10/92	95.60	4.26	91.34	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/14/92	95.60	4.28	91.32	--	<50	<0.5	3.8	<0.5	<0.5	--
10/05/92	95.60	4.29	91.31	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/06/93	95.60	4.29	91.31	--	<50	0.7	<0.5	<0.5	<0.5	--
03/29/93	95.60	4.30	91.30	--	<50	0.5	1.0	<0.5	2.0	--
07/02/93	95.60	4.22	91.38	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/11/93	95.60	4.30	91.30	--	<50	0.6	<0.5	<0.5	<0.5	--
01/10/94	95.60	4.44	91.16	--	<50	0.7	3.0	<0.5	1.0	--
04/06/94	95.60	4.24	91.36	--	130	2.2	5.4	3.3	24	--
07/06/94	95.60	4.24	91.36	--	99	5.9	7.5	2.0	12	--



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Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>C-4 (cont)</b>										
11/11/94	95.60	4.21	91.39	--	<50	<0.5	9.5	<0.5	<0.5	--
01/06/95	95.60	4.42	91.18	--	<50	0.7	1.0	<0.5	1.1	--
04/13/95	95.60	4.24	91.36	--	67	0.54	7.2	<0.5	1.1	--
07/25/95	95.60	4.24	91.36	--	390	<2.0	150	<2.0	<2.0	--
10/05/95	95.60	4.38	91.22	--	130	<0.5	66	<0.5	<0.5	--
01/02/96	95.60	4.26	91.34	--	<50	<0.5	<0.5	<0.5	<0.5	34
04/11/96	95.60	4.39	91.21	--	<50	<0.5	0.93	<0.5	<0.5	56
07/08/96	95.60	4.28	91.32	--	<50	<0.5	<0.5	<0.5	<0.5	21
10/03/96	95.60	4.22	91.38	--	80	<0.5	31	<0.5	<0.5	9.9
01/23/97	344.94	4.39	340.55	--	<50	<0.5	<0.5	<0.5	<0.5	23
04/08/97	344.94	4.25	340.69	--	87	<0.5	3.6	<0.5	1.7	7.0
07/09/97	344.94	4.21	340.73	--	93	<0.5	32	<0.5	<0.5	26
10/08/97	344.94	4.34	340.60	--	<50	<0.5	0.63	<0.5	<0.5	12
01/22/98	344.94	4.26	340.68	--	<50	<0.5	4.3	<0.5	<0.5	10
04/15/98	344.94	1.01	343.93	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
07/09/98	344.94	4.25	340.69	--	<50	<0.5	<0.5	<0.5	<0.5	37
10/02/98	344.94	4.35	340.59	--	--	--	--	--	--	--
01/18/99	344.94	4.21	340.73	--	<50	<0.5	<0.5	<0.5	<0.5	25.4
04/19/99	344.94	2.31	342.63	--	--	--	--	--	--	--
07/19/99 <sup>2</sup>	344.94	1.53	343.41	--	10.000	1.160	23	178	50.4	45.600
09/28/99	344.94	4.70	340.24	--	<50	<0.5	0.919	<0.5	<0.5	<2.5
10/27/99	344.94	1.26	343.68	--	--	--	--	--	--	--
01/17/00	344.94	4.22	340.72	--	<50	<0.5	21.4	<0.5	<0.5	4.6
04/11/00	344.94	4.21	340.73	--	--	--	--	--	--	--
07/12/00	344.94	4.21	340.73	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
10/07/00	344.94	4.23	340.71	--	--	--	--	--	--	--
01/05/01	344.94	4.22	340.72	--	<50	<0.50	<0.50	<0.50	<0.50	27
04/05/01	344.94	4.23	340.71	--	--	--	--	--	--	--
08/20/01	344.94	4.27	340.67	--	<50	<0.50	<0.50	<0.50	<0.50	18
11/26/01	344.94	4.26	340.68	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
02/25/02	344.94	4.25	340.69	--	<50	<0.50	1.8	<0.50	<1.5	24/24 <sup>7</sup>
05/17/02	344.94	3.30	341.64	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
08/13/02	344.94	4.10	340.84	--	<50	<0.50	<0.50	<1.0	<1.5	7.3

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WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>C-4 (cont)</b>										
11/23/02	344.94	3.04	341.90	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
02/17/03	344.94	2.12	342.82	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 <sup>7</sup>
05/19/03	344.94	2.57	342.37	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
08/18/03 <sup>8</sup>	344.94	2.99	341.95	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/17/03	344.94	2.25	342.69	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/03/06 <sup>8</sup>	344.94	2.15	342.79	360	<50	<0.5	<0.5	<0.5	<0.5	3
<b>C-5</b>										
11/25/96	--	3.30	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/23/97	345.14	1.45	343.69	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/08/97	345.14	2.32	342.82	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/97	345.14	2.30	342.84	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/08/97	345.14	3.00	342.14	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/22/98	345.14	1.00	344.14	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/15/98	345.14	3.25	341.89	SAMPLED ANNUALLY		--	--	--	--	--
07/09/98	345.14	0.20	344.94	--	--	--	--	--	--	--
10/02/98	345.14	2.32	342.82	--	--	--	--	--	--	--
01/18/99	345.14	2.13	343.01	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
04/19/99	345.14	2.07	343.07	--	--	--	--	--	--	--
07/19/99	345.14	2.42	342.72	--	--	--	--	--	--	--
10/27/99	345.14	2.37	342.77	--	--	--	--	--	--	--
01/17/00	345.14	2.50	342.64	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/11/00	345.14	2.18	342.96	--	--	--	--	--	--	--
07/12/00	345.14	2.08	343.06	--	--	--	--	--	--	--
10/07/00	345.14	2.38	342.76	--	--	--	--	--	--	--
01/05/01	345.14	2.13	343.01	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
04/05/01	345.14	1.80	343.34	--	--	--	--	--	--	--
08/20/01	345.14	2.08	343.06	--	--	--	--	--	--	--
11/26/01	345.14	2.25	342.89	SAMPLED ANNUALLY		--	--	--	--	--
02/25/02	345.14	2.80	342.34	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>7</sup>
05/17/02	345.14	1.81	343.33	SAMPLED ANNUALLY		--	--	--	--	--
08/13/02	345.14	1.82	343.32	SAMPLED ANNUALLY		--	--	--	--	--

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340 Highland Avenue  
Piedmont, California

WELL ID/ DATE	TOC* (%)	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>C-5 (cont)</b>										
11/23/02	345.14	2.36	342.78	SAMPLED ANNUALLY		--	--	--	--	--
02/17/03	345.14	1.89	343.25	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 <sup>7</sup>
05/19/03	345.14	1.91	343.23	SAMPLED ANNUALLY		--	--	--	--	--
08/18/03	345.14	1.92	343.22	SAMPLED ANNUALLY		--	--	--	--	--
11/17/03	345.14	2.08	343.06	SAMPLED ANNUALLY		--	--	--	--	--
05/03/06 <sup>5</sup>	345.14	1.27	343.87	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5
<b>C-6</b>										
11/25/96	--	2.13	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/23/97	338.61	FLOODED	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/08/97	338.61	FLOODED	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/97	338.61	2.77	335.84	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/08/97	338.61	1.44	337.17	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/22/98	338.61	1.54	337.07	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/15/98	338.61	1.30	337.31	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/98	338.61	FLOODED	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/02/98	338.61	2.80	335.81	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
01/18/99	338.61	1.29	337.32	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
04/19/99	338.61	1.31	337.30	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
07/19/99	338.61	1.56	337.05	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
10/27/99	338.61	1.45	337.16	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/17/00	338.61	1.65	336.96	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/11/00	338.61	1.56	337.05	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/12/00	338.61	1.01	337.60	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
10/07/00	338.61	1.19	337.42	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
01/05/01	338.61	0.87	337.74	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
04/05/01	338.61	0.32	338.29	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
08/20/01	338.61	-- <sup>6</sup>	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
11/26/01	338.61	0.76	337.85	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/25/02	338.61	-- <sup>6</sup>	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>7</sup>
05/17/02	338.61	-- <sup>6</sup>	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/13/02	338.61	0.90	337.71	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5

**Table I**  
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340 Highland Avenue  
Piedmont, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>C-6 (cont)</b>										
11/23/02	338.61	1.03	337.58	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/17/03	338.61	0.85	337.76	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 <sup>7</sup>
05/19/03 <sup>R</sup>	338.61	-- <sup>6</sup>	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/18/03 <sup>R</sup>	338.61	0.00	338.61	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/17/03 <sup>R</sup>	338.61	0.00	338.61	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/03/06 <sup>R</sup>	338.61	0.00	338.61	150	<50	<0.5	<0.5	<0.5	<0.5	<0.5
<b>Backfill Well: A</b>										
08/07/89	--	2.10	--	--	1,000	50	6.0	5.0	22	--
11/15/89	--	2.04	--	--	3,700	98	2.1	4.3	55	--
02/01/91	--	3.05	--	--	36,000	1,100	750	130	6,100	--
04/16/91	--	2.01	--	--	8,000	370	6.0	86	750	--
10/16/91	--	4.15	--	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED										
<b>Backfill Well: B</b>										
08/07/89	--	4.12	--	--	--	--	--	--	--	--
11/15/89	--	--	--	--	--	--	--	--	--	--
02/01/91	--	5.03	--	--	--	--	--	--	--	--
04/16/91	--	4.00	--	--	--	--	--	--	--	--
10/16/91	--	6.24	--	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED										
<b>Trip Blank</b>										
TB-1.B										
01/06/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/29/93	--	--	--	--	<50	<0.5	<0.5	<0.5	1.0	--
07/02/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/11/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/10/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/06/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/06/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>Trip Blank (cont)</b>										
11/11/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/06/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/13/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/25/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/05/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/02/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/11/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/03/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/23/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/08/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/08/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/22/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/02/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/18/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
04/19/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
07/19/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
10/27/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/17/00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/11/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/12/00	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
10/07/00	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
01/05/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
04/05/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
08/20/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
<b>QA</b>										
11/26/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/25/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/17/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/13/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
11/23/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
QA (cont)										
02/17/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/19/03 <sup>8</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/18/03 <sup>8</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/17/03 <sup>8</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/03/06 <sup>9</sup>	--	--	--	--	<50	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

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**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to April 11, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

(msl) = Mean sea level

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

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

\* TOC elevations are relative to msl.

<sup>1</sup> MTBE confirmation run.

<sup>2</sup> TOC elevation adjusted due to broken top of casing.

<sup>3</sup> Anomalous results: Results for this sample are likely the result of a mislabeling of sample containers; results most closely resemble those of well C-2.

<sup>4</sup> Laboratory report indicates gasoline C6-C12.

<sup>5</sup> Laboratory report indicates weathered gasoline C6-C12.

<sup>6</sup> Unable to determine DTW, water overflowing TOC.

<sup>7</sup> MTBE by EPA Method 8260.

<sup>8</sup> BTEX and MTBE by EPA Method 8260.

<sup>9</sup> Due to QC issues at the Laboratory; BTEX and MTBE could not be reported.

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
C-2	02/25/02	<500	210	1,400	<2	2	97	<2	<2
	02/17/03	--	890	3,800	<1	6	110	<1	<1
	05/19/03	--	--	6,000	--	--	--	--	--
	08/18/03	<250	--	3,500	--	--	--	--	--
	11/17/03	<200	--	2,200	--	--	--	--	--
	05/03/06	--	--	690	--	--	--	--	--
C-3	02/25/02	<500	<100	<2	<2	<2	<2	<2	<2
	02/17/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/19/03	--	--	<0.5	--	--	--	--	--
	08/18/03	<50	--	<0.5	--	--	--	--	--
	11/17/03	<50	--	<0.5	--	--	--	--	--
	05/03/06	--	--	<0.5	--	--	--	--	--
C-4	02/25/02	<500	<100	24	<2	<2	<2	<2	<2
	02/17/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/19/03	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	--
	08/18/03	<50	--	<0.5	--	--	--	--	--
	05/03/06	--	--	3	--	--	--	--	--
C-5	02/25/02	<500	<100	<2	<2	<2	<2	<2	<2
	02/17/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/19/03	SAMPLED ANNUALLY		--	--	--	--	--	--
	05/03/06	--	--	<0.5	--	--	--	--	--
C-6	02/25/02	<500	<100	<2	<2	<2	<2	<2	<2
	02/17/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/19/03	--	--	<0.5	--	--	--	--	--
	08/18/03	<50	--	<0.5	--	--	--	--	--
	11/17/03	<50	--	<0.5	--	--	--	--	--
	05/03/06	--	--	<0.5	--	--	--	--	--



**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

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**EXPLANATIONS:**

TBA = Tertiary butyl alcohol  
MTBE = Methyl tertiary butyl ether  
DIPE = Di-isopropyl ether  
ETBE = Ethyl tertiary butyl ether  
TAME = Tertiary amyl methyl ether  
1,2-DCA = 1,2-Dichloroethane  
EDB = 1,2-Dibromoethane  
(ppb) = Parts per billion  
-- = Not Analyzed

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

## 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, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable 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 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 Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by IWM to Chemical Waste Management located in Kettleman Hill, California.



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #9-0329 Job Number: 386493  
 Site Address: 340 Highland Avenue Event Date: 5.3.06 (inclusive)  
 City: Piedmont, CA Sampler: ET

Well ID: C-2 Date Monitored: 5.3.06 Well Condition: SEE PHOTO  
 Well Diameter: 2 in.  
 Total Depth: 12.33 ft.  
 Depth to Water: .32 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

12.01 xVF .17 = 2.04 x3 case volume= Estimated Purge Volume: 6.0 gal.

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump  \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer  \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1411 Weather Conditions: CLOUDY  
 Sample Time/Date: 1440 / 5.3.06 Water Color: MILKY W. LT. GRAY Odor: YES  
 Purging Flow Rate: 2.0 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1412</u>	<u>2.0</u>	<u>6.67</u>	<u>583</u>	<u>20.0</u>	_____	_____
<u>1414</u>	<u>4.0</u>	<u>6.59</u>	<u>613</u>	<u>19.7</u>	_____	_____
<u>1417</u>	<u>6.0</u>	<u>6.55</u>	<u>621</u>	<u>19.0</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>C-2</u>	<u>6</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)</u>
	<u>2</u> x 500ml Amber	<u>YES</u>	<u>NF</u>	<u>LANCASTER</u>	<u>TPH-D(8015)</u>

COMMENTS: SLOW RECOVERY

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #9-0329 Job Number: 386493  
 Site Address: 340 Highland Avenue Event Date: 5.3.06 (inclusive)  
 City: Piedmont, CA Sampler: FT

Well ID: C-3 Date Monitored: 5.3.06 Well Condition: ok  
 Well Diameter: 2 in.  
 Total Depth: 13.13 ft.  
 Depth to Water: .21 ft.  
12.92 xVF .17 = 2.19 x3 case volume= Estimated Purge Volume: 6.5 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer ✓  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer ✓  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1212 Weather Conditions: CLOUDY  
 Sample Time/Date: 1230 / 5.3.06 Water Color: Cloudy Odor: NO  
 Purging Flow Rate: 2.0 gpm. Sediment Description: SILTY  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1213</u>	<u>2.0</u>	<u>6.48</u>	<u>491</u>	<u>21.9</u>	_____	_____
<u>1214</u>	<u>4.0</u>	<u>6.47</u>	<u>485</u>	<u>20.7</u>	_____	_____
<u>1217</u>	<u>6.5</u>	<u>6.52</u>	<u>469</u>	<u>19.8</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>C-3</u>	<u>6</u> x vva vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)</u>
	<u>2</u> x 500ml Amber	<u>YES</u>	<u>NF</u>	<u>LANCASTER</u>	<u>TPH-D(8015)</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: ✓ Size: 2"



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #9-0329  
 Site Address: 340 Highland Avenue  
 City: Piedmont, CA

Job Number: 386493  
 Event Date: 5.3.06 (inclusive)  
 Sampler: FT

Well ID: C-4 Date Monitored: 5.3.06 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 8.88 ft.  
 Depth to Water: 2.15 ft.  
6.73 xVF .17 = 1.14 x3 case volume= Estimated Purge Volume: 3.0 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump  \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1243 Weather Conditions: CLOUDY  
 Sample Time/Date: 1258 / 5.3.06 Water Color: Bwn. Odor: NO  
 Purging Flow Rate: 1.0 gpm. Sediment Description: SILTY  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1244</u>	<u>1.0</u>	<u>6.52</u>	<u>476</u>	<u>17.8</u>	_____	_____
<u>1246</u>	<u>2.0</u>	<u>6.53</u>	<u>399</u>	<u>17.3</u>	_____	_____
<u>1248</u>	<u>3.0</u>	<u>6.45</u>	<u>378</u>	<u>17.4</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>C-4</u>	<u>6</u> x vva vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)</u>
	<u>2</u> x 500ml Amber	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-D(8015)</u>

COMMENTS: SLOW RECOVERY

Add/Replaced Lock:  Add/Replaced Plug:  Size: 2"



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #9-0329 Job Number: 386493  
 Site Address: 340 Highland Avenue Event Date: 5.3.06 (inclusive)  
 City: Piedmont, CA Sampler: FT

Well ID: C-5 Date Monitored: 5.3.06 Well Condition: SEE PHOTO

Well Diameter: 2 in.

Total Depth: 17.18 ft.

Depth to Water: 1.27 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

15.91 xVF .17 = 2.70 x3 case volume= Estimated Purge Volume: 8.0 gal.

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer /  
 Stack Pump /  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer /  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1310 Weather Conditions: CLOUDY  
 Sample Time/Date: 1324 / 5.3.06 Water Color: BRN. Odor: ND  
 Purging Flow Rate: 2.5 gpm. Sediment Description: S SILTY  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1311</u>	<u>2.5</u>	<u>6.76</u>	<u>621</u>	<u>17.9</u>	_____	_____
<u>1312</u>	<u>5.0</u>	<u>6.86</u>	<u>615</u>	<u>17.2</u>	_____	_____
<u>1315</u>	<u>8.0</u>	<u>6.97</u>	<u>613</u>	<u>17.8</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>C-5</u>	<u>6</u> x vov vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)
	<u>2</u> x 500ml Amber	YES	NF	LANCASTER	TPH-D(8015)

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: / Size: 2"



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #9-0329 Job Number: 386493  
 Site Address: 340 Highland Avenue Event Date: 5.3.06 (inclusive)  
 City: Piedmont, CA Sampler: FT

Well ID: C-6 Date Monitored: 5.3.06 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 17.33 ft.  
 Depth to Water: 0 ft.  
17.33 x VF .17 = 2.94 x3 case volume = Estimated Purge Volume: 9.0 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump  \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer  \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1342 Weather Conditions: CLOUDY  
 Sample Time/Date: 1358 / 5.3.06 Water Color: BW. Odor: NO  
 Purging Flow Rate: 3.0 gpm. Sediment Description: SILTY  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>1343</u>	<u>3.0</u>	<u>7.02</u>	<u>526</u>	<u>19.4</u>	_____	_____
<u>1344</u>	<u>6.0</u>	<u>6.95</u>	<u>520</u>	<u>18.5</u>	_____	_____
<u>1346</u>	<u>9.0</u>	<u>6.92</u>	<u>517</u>	<u>18.6</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>C-6</u>	<u>6</u> x vva vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)</u>
	<u>2</u> x 500ml Amber	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-D(8015)</u>

### COMMENTS:

\_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug:  Size: 2"

# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only  
 Acc. #: 10904 Sample #: 476del14-19 SCR#: \_\_\_\_\_

050506-02

C# 988555

Facility #: <u>SS#9-0329-OML G-R#386493 Global ID#T0600101885</u>			Matrix: <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Air <input type="checkbox"/>		Analyses Requested: <input type="checkbox"/> BTEX + MTBE 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> TPH 80 15 MOD GRO <input type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> 8260 fullscan <input type="checkbox"/> Oxygenates <input type="checkbox"/> Lead 7420 <input type="checkbox"/> 7421										Preservation Codes: <input type="checkbox"/> H <input type="checkbox"/> N <input type="checkbox"/> S		Preservative Codes: H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other																																																																																																																																																																																					
Site Address: <u>340 HIGHLAND AVENUE, PIEDMONT, CA</u>			Total Number of Containers: <u>2</u>		Preservation Codes: <input type="checkbox"/> J value reporting needed <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy s on highest hit <input type="checkbox"/> Run _____ oxy s on all hits										Comments / Remarks: Due to QC issues, BTEX/MTBE by 8260 could not be reported on the QA sample. LF 5/24/06																																																																																																																																																																																							
Chevron PMMI: _____ Lead Consultant: <u>CAMBRIALG</u>			Grab Composite: <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Air <input type="checkbox"/>		Matrix: <input type="checkbox"/> Potable <input type="checkbox"/> NPOES										Service Order #: _____ <input type="checkbox"/> Non SAR: _____		Sampler: <u>FRANK TERKINONI</u>																																																																																																																																																																																					
Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568</u>			Consultant Prj. Mgr.: <u>Deanna L. Harding (deanna@grinc.com)</u>		Consultant Phone # <u>925-551-7555</u> Fax #: <u>925-551-7899</u>										Sample Identification:																																																																																																																																																																																							
Date Collected: <u>5.3.06</u>			Time Collected: _____		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Sample ID</th> <th style="width: 10%;">Date</th> <th style="width: 10%;">Time</th> <th style="width: 5%;">Grab</th> <th style="width: 5%;">Composite</th> <th style="width: 5%;">Soil</th> <th style="width: 5%;">Water</th> <th style="width: 5%;">Air</th> <th style="width: 5%;">Total</th> <th style="width: 5%;">BTEX</th> <th style="width: 5%;">MTBE</th> <th style="width: 5%;">8260</th> <th style="width: 5%;">TPH</th> <th style="width: 5%;">80</th> <th style="width: 5%;">15</th> <th style="width: 5%;">MOD</th> <th style="width: 5%;">GRO</th> <th style="width: 5%;">Silica</th> <th style="width: 5%;">Gel</th> <th style="width: 5%;">Cleanup</th> <th style="width: 5%;">8260</th> <th style="width: 5%;">fullscan</th> <th style="width: 5%;">Oxygenates</th> <th style="width: 5%;">Lead</th> <th style="width: 5%;">7420</th> <th style="width: 5%;">7421</th> </tr> </thead> <tbody> <tr> <td>QA</td> <td>5.3.06</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C-2</td> <td></td> <td>1440</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>8</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C-3</td> <td></td> <td>1230</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>8</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C-4</td> <td></td> <td>1258</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>8</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C-5</td> <td></td> <td>1326</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>8</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C-6</td> <td></td> <td>1358</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>8</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										Sample ID	Date	Time	Grab	Composite	Soil	Water	Air	Total	BTEX	MTBE	8260	TPH	80	15	MOD	GRO	Silica	Gel	Cleanup	8260	fullscan	Oxygenates	Lead	7420	7421	QA	5.3.06							2	X	X																C-2		1440	X					8	X	X																C-3		1230	X					8	X	X																C-4		1258	X					8	X	X																C-5		1326	X					8	X	X																C-6		1358	X					8	X	X																Turnaround Time Requested (TAT) (please circle): <input checked="" type="radio"/> STD. TAT      72 hour      48 hour <input type="radio"/> 24 hour      4 day      5 day	
Sample ID	Date	Time	Grab	Composite	Soil	Water	Air	Total	BTEX	MTBE	8260	TPH	80	15	MOD	GRO	Silica	Gel	Cleanup	8260	fullscan	Oxygenates	Lead	7420	7421																																																																																																																																																																													
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Data Package Options (please circle if required): QC Summary: Type I — Full <input type="checkbox"/> Coelt Deliverable not needed Type VI (Raw Data) <input type="checkbox"/> WIP (RWOCB) <input type="checkbox"/> Disk			Relinquished by: <u>Frank Terkinoni</u> Date: <u>5.3.06</u> Time: <u>1200</u>		Received by: <u>[Signature]</u> Date: <u>5/25/06</u> Time: <u>0620</u>										Relinquished by: <u>[Signature]</u> Date: <u>5/25/06</u> Time: <u>1145</u>		Received by: <u>[Signature]</u> Date: <u>5/25/06</u> Time: <u>1145</u>																																																																																																																																																																																					
Relinquished by: <u>[Signature]</u> Date: <u>5/5/06</u> Time: <u>1530</u>			Relinquished by Commercial Carrier: <u>UPS</u>		Received by: <u>[Signature]</u> Date: <u>5/5/06</u> Time: <u>1530</u>										Received by: <u>[Signature]</u> Date: <u>5/6/06</u> Time: <u>1000</u>																																																																																																																																																																																							
Temperature Upon Receipt: <u>60.0/55.0/50.0/45.0/40.0/35.0/30.0/25.0/20.0/15.0/10.0/5.0/0.0</u>			Custody Seal Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Relinquished by: <u>[Signature]</u> Date: <u>5/6/06</u> Time: <u>1000</u>										Relinquished by: <u>[Signature]</u> Date: <u>5/6/06</u> Time: <u>1000</u>																																																																																																																																																																																							



REVISED

## ANALYTICAL RESULTS

Prepared for:

Chevron  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425SAMPLE GROUP

The sample group for this submittal is 988555. Samples arrived at the laboratory on Saturday, May 06, 2006. The PO# for this group is 0015007168 and the release number is INGLIS.

<u>Client Description</u>		<u>Lancaster Labs Number</u>
QA-T-060503	NA Water	4766114
C-2-W-060503	Grab Water	4766115
C-3-W-060503	Grab Water	4766116
C-4-W-060503	Grab Water	4766117
C-5-W-060503	Grab Water	4766118
C-6-W-060503	Grab Water	4766119

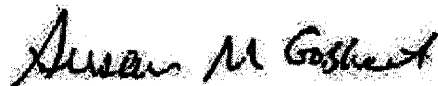
ELECTRONIC COPY TO Cambria c/o Gettler-Ryan

Attn: Cheryl Hansen

Questions? Contact your Client Services Representative  
Lynn M Frederiksen at (717) 656-2300

REVISED

Respectfully Submitted,



**Susan M. Goshert**  
**Group Leader**

Lancaster Laboratories Sample No. WW 4766114

 QA-T-060503 NA Water  
 Facility# 90329 Job# 386493 GRD  
 340 Highland Ave-Piedmont T0600101885 QA  
 Collected: 05/03/2006

Account Number: 10904

 Submitted: 05/06/2006 10:00  
 Reported: 07/17/2006 at 09:37  
 Discard: 08/17/2006

 Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

HAPQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01728	TPH-GRO - Waters	n.a.	N.D.		50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.							

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	05/08/2006 12:05	K. Robert Caulfeild-James	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/08/2006 12:05	K. Robert Caulfeild-James	1

Lancaster Laboratories Sample No. WW 4766115

 C-2-W-060503 Grab Water  
 Facility# 90329 Job# 386493 GRD  
 340 Highland Ave-Piedmont T0600101885 C-2  
 Collected: 05/03/2006 14:40 by FT

Account Number: 10904

 Submitted: 05/06/2006 10:00  
 Reported: 07/17/2006 at 09:37  
 Discard: 08/17/2006

 Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

HAP02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01728	TPH-GRO - Waters	n.a.	6,100.		250.	ug/l	5
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
06609	TPH-DRO CALUFT (Waters)	n.a.	2,400.		300.	ug/l	10
	The observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range earlier than #2 fuel.						
06054	BTEX+MTBE by 8260B						
02010	Methyl Tertiary Butyl Ether	1634-04-4	690.		0.5	ug/l	1
05401	Benzene	71-43-2	400.		5.	ug/l	10
05407	Toluene	108-88-3	9.		0.5	ug/l	1
05415	Ethylbenzene	100-41-4	110.		0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	27.		0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	05/08/2006	15:57	K. Robert Caulfeild-James	5
06609	TPH-DRO CALUFT (Waters)	CA LUFT DRO/SW-846 8015B mod	1	05/17/2006	08:03	Tracy A Cole	10
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	05/16/2006	20:16	Anita M Dale	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	05/16/2006	20:43	Anita M Dale	10
01146	GC VOA Water Prep	SW-846 5030B	1	05/08/2006	15:57	K. Robert Caulfeild-James	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/16/2006	20:16	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	05/16/2006	20:43	Anita M Dale	10
02135	Extraction - DRO Water Special	CA LUFT TPH	1	05/11/2006	06:30	Tracy L Schickel	1

Lancaster Laboratories Sample No. WW 4766116

 C-3-W-060503 Grab Water  
 Facility# 90329 Job# 386493 GRD  
 340 Highland Ave-Piedmont T0600101885 C-3  
 Collected: 05/03/2006 12:30 by FT

Account Number: 10904

 Submitted: 05/06/2006 10:00  
 Reported: 07/17/2006 at 09:37  
 Discard: 08/17/2006

 Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

HAP03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01728	TPH-GRO - Waters	n.a.	N.D.	Detection Limit 50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06609	TPH-DRO CALUFT (Waters)	n.a.	240.	50.	ug/l	1
	The observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel.					
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	05/09/2006 12:35	K. Robert Caulfeild-James	1
06609	TPH-DRO CALUFT (Waters)	CA LUFT DRO/SW-846 8015B mod	1	05/18/2006 00:12	Tracy A Cole	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	05/16/2006 21:10	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/09/2006 12:35	K. Robert Caulfeild-James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/16/2006 21:10	Anita M Dale	1
02135	Extraction - DRO Water Special	CA LUFT TPH	1	05/11/2006 06:30	Tracy L Schickel	1

Lancaster Laboratories Sample No. WW 4766117

 C-4-W-060503 Grab Water  
 Facility# 90329 Job# 386493 GRD  
 340 Highland Ave-Piedmont T0600101885 C-4  
 Collected: 05/03/2006 12:58 by FT

Account Number: 10904

 Submitted: 05/06/2006 10:00  
 Reported: 07/17/2006 at 09:37  
 Discard: 08/17/2006

 Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

HAP04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01728	TPH-GRO - Waters The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.	n.a.	N.D.	50.	n.a.	ug/l	1
06609	TPH-DRO CALUFT (Waters) The observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes later in the DRO range.	n.a.	360.	50.	n.a.	ug/l	1
06054	BTEX+MTBE by 8260B						
02010	Methyl Tertiary Butyl Ether	1634-04-4	3.	0.5	n.a.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	n.a.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	n.a.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	n.a.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	n.a.	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	05/09/2006 13:04	K. Robert Caulfeild-James	1
06609	TPH-DRO CALUFT (Waters)	CA LUFT DRO/SW-846 8015B mod	1	05/17/2006 08:27	Tracy A Cole	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	05/16/2006 21:37	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/09/2006 13:04	K. Robert Caulfeild-James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/16/2006 21:37	Anita M Dale	1
02135	Extraction - DRO Water Special	CA LUFT TPH	1	05/11/2006 06:30	Tracy L Schickel	1

Lancaster Laboratories Sample No. WW 4766118

 C-5-W-060503 Grab Water  
 Facility# 90329 Job# 386493 GRD  
 340 Highland Ave-Piedmont T0600101885 C-5  
 Collected: 05/03/2006 13:26 by FT

Account Number: 10904

 Submitted: 05/06/2006 10:00  
 Reported: 07/17/2006 at 09:37  
 Discard: 08/17/2006

 Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

HAP05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01728	TPH-GRO - Waters	n.a.	N.D.	Detection Limit 50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
06609	TPH-DRO CALUFT (Waters)	n.a.	N.D.	50.	ug/l	1
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	05/09/2006	13:33	K. Robert Caulfeild-James	1
06609	TPH-DRO CALUFT (Waters)	CA LUFT DRO/SW-846 8015B mod	1	05/17/2006	04:49	Tracy A Cole	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	05/16/2006	22:04	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/09/2006	13:33	K. Robert Caulfeild-James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/16/2006	22:04	Anita M Dale	1
02135	Extraction - DRO Water Special	CA LUFT TPH	1	05/11/2006	06:30	Tracy L Schickel	1

Lancaster Laboratories Sample No. WW 4766119

 C-6-W-060503 Grab Water  
 Facility# 90329 Job# 386493 GRD  
 340 Highland Ave-Piedmont T0600101885 C-6  
 Collected: 05/03/2006 13:58 by FT

Account Number: 10904

 Submitted: 05/06/2006 10:00  
 Reported: 07/17/2006 at 09:37  
 Discard: 08/17/2006

 Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

HAP06

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method		
01728	TPH-GRO - Waters	n.a.	N.D.	Detection Limit 50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06609	TPH-DRO CALUFT (Waters)	n.a.	150.	73.	ug/l	1
	Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly. The observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel.					
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	05/09/2006 14:02	K. Robert Caulfeild-James	1
06609	TPH-DRO CALUFT (Waters)	CA LUFT DRO/SW-846 8015B mod	1	05/17/2006 05:13	Tracy A Cole	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	05/16/2006 22:31	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/09/2006 14:02	K. Robert Caulfeild-James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/16/2006 22:31	Anita M Dale	1
02135	Extraction - DRO Water Special	CA LUFT TPH	1	05/11/2006 06:30	Tracy L Schickel	1



## Quality Control Summary

 Client Name: Chevron  
 Reported: 07/17/06 at 09:37 AM

Group Number: 988555

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 06128A16A TPH-GRO - Waters	Sample number(s): 4766114-4766115 N.D.	50.	ug/l	123	119	70-130	3	30
Batch number: 06129A16A TPH-GRO - Waters	Sample number(s): 4766116-4766119 N.D.	50.	ug/l	107	109	70-130	2	30
Batch number: 061300010A TPH-DRO CALUFT(Waters)	Sample number(s): 4766115-4766119 N.D.	29.	ug/l	90	86	62-127	4	20
Batch number: P061362AA Methyl Tertiary Butyl Ether	Sample number(s): 4766115-4766119 N.D.	0.5	ug/l	99		73-119		
Benzene	N.D.	0.5	ug/l	101		85-117		
Toluene	N.D.	0.5	ug/l	99		85-115		
Ethylbenzene	N.D.	0.5	ug/l	99		82-119		
Xylene (Total)	N.D.	0.5	ug/l	99		83-113		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 06128A16A TPH-GRO - Waters	Sample number(s): 4766114-4766115 127	125	63-154	2	30	UNSPK: P766096			
Batch number: 06129A16A TPH-GRO - Waters	Sample number(s): 4766116-4766119 95		63-154			UNSPK: P766112			
Batch number: P061362AA Methyl Tertiary Butyl Ether	Sample number(s): 4766115-4766119 99	100	69-127	2	30	UNSPK: P766137			
Benzene	102	103	83-128	1	30				
Toluene	100	101	83-127	2	30				
Ethylbenzene	99	101	82-129	2	30				
Xylene (Total)	97	100	82-130	3	30				

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO - Waters

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

## Quality Control Summary

 Client Name: Chevron  
 Reported: 07/17/06 at 09:37 AM

Group Number: 988555

### Surrogate Quality Control

 Batch number: 06128A16A  
 Trifluorotoluene-F

4766114	88
4766115	109
Blank	85
LCS	91
LCSD	92
MS	93
MSD	90

Limits: 63-135

 Analysis Name: TPH-GRO - Waters  
 Batch number: 06129A16A  
 Trifluorotoluene-F

4766116	88
4766117	88
4766118	91
4766119	87
Blank	90
LCS	90
LCSD	91
MS	88

Limits: 63-135

 Analysis Name: TPH-DRO CALUFT (Waters)  
 Batch number: 061300010A  
 Orthoterphenyl

4766115	134*
4766116	78
4766117	87
4766118	103
4766119	103
Blank	88
LCS	116
LCSD	97

Limits: 59-131

 Analysis Name: BTEX+MTBE by 8260B  
 Batch number: P061362AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4766115	98	101	98	103
4766116	100	102	96	93
4766117	100	101	97	93
4766118	100	101	98	94
4766119	99	101	97	94
Blank	100	101	100	94
LCS	100	100	100	97
MS	100	101	99	96
MSD	100	101	100	97

Limits: 80-116                      77-113                      80-113                      78-113

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 07/17/06 at 09:37 AM

Group Number: 988555

### Surrogate Quality Control

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only  
 Acct. #: 10904 Sample #: 4760114-19 SCR#: \_\_\_\_\_

050506-02

C# 988555

Facility #: <u>SS#9-0329-OML G-R#386493 Global ID#T0600101885</u> Site Address: <u>340 HIGHLAND AVENUE, PIEDMONT, CA</u> Chevron PMMI _____ Lead Consultant: <u>CAMBRIALG</u> Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568</u> Consultant Prj. Mgr: <u>Deanna L. Harding (deanna@grinc.com)</u> Consultant Phone # <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: <u>FRANK TERLINDI</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____				<b>Matrix</b> <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air		<b>Analyses Requested</b> Preservation Codes BTEX + MTBE 8260 <input type="checkbox"/> 8201 <input type="checkbox"/> TPH 80% MOD GRO <input type="checkbox"/> TPH 80% MOD DRO <input type="checkbox"/> Silica Gel Cleanup 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>										<b>Preservative Codes</b> H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other <input type="checkbox"/> J value reporting needed <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits			
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	8201	TPH 80% MOD GRO	TPH 80% MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420	7421	
QA	5.3.06					N			2	+	+								
C-2	↓	1440	X						8	+	+	+							
C-3	↓	1230	X						8	+	+	+							
C-4	↓	1258	X						8	+	+	+							
C-5	↓	1326	X						8	+	+	+							
C-6	↓	1358	X			↓			8	+	+	+	X						

**Comments / Remarks**  
 Due to QC issues, BTEX/MTBE by 8260 could not be reported on the QA sample.  
 LF 5/24/06

<b>Turnaround Time Requested (TAT) (please circle)</b> <input checked="" type="radio"/> STD. TAT      72 hour      48 hour 24 hour      4 day      5 day			Relinquished by: <u>Frank Terlini</u> Date: <u>5.3.06</u> Time: <u>1700</u>		Received by: <u>[Signature]</u> Date: <u>5/25/06</u> Time: <u>0600</u>	
<b>Data Package Options (please circle if required)</b> QC Summary      Type I — Full Type VI (Raw Data) <input type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) <b>EDF/EDD</b> Disk			Relinquished by: <u>[Signature]</u> Date: <u>5/5/06</u> Time: <u>1145</u>		Received by: <u>[Signature]</u> Date: <u>5/5/06</u> Time: <u>1145</u>	
Relinquished by Commercial Carrier: UPS      FedEx      Other: <u>DHL</u>			Relinquished by: <u>[Signature]</u> Date: <u>5/5/06</u> Time: <u>1530</u>		Received by: <u>[Signature]</u> Date: <u>5/5/06</u> Time: <u>1530</u>	
Temperature Upon Receipt: <u>16.0°C to 19.0°C - 4.3°</u>			Received by: <u>[Signature]</u> Date: <u>5/6/06</u> Time: <u>1000</u>			
Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						

## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>Cal</b>	(diet) calories	<b>lb.</b>	pound(s)
<b>meq</b>	milliequivalents	<b>kg</b>	kilogram(s)
<b>g</b>	gram(s)	<b>mg</b>	milligram(s)
<b>ug</b>	microgram(s)	<b>l</b>	liter(s)
<b>ml</b>	milliliter(s)	<b>ul</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>fib &gt;5 um/ml</b>	fibers greater than 5 microns in length per ml
<b>&lt;</b>	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

### U.S. EPA data qualifiers:

#### Organic Qualifiers

<b>A</b>	TIC is a possible aldol-condensation product
<b>B</b>	Analyte was also detected in the blank
<b>C</b>	Pesticide result confirmed by GC/MS
<b>D</b>	Compound quantitated on a diluted sample
<b>E</b>	Concentration exceeds the calibration range of the instrument
<b>J</b>	Estimated value
<b>N</b>	Presumptive evidence of a compound (TICs only)
<b>P</b>	Concentration difference between primary and confirmation columns >25%
<b>U</b>	Compound was not detected
<b>X,Y,Z</b>	Defined in case narrative

#### Inorganic Qualifiers

<b>B</b>	Value is <CRDL, but ≥IDL
<b>E</b>	Estimated due to interference
<b>M</b>	Duplicate injection precision not met
<b>N</b>	Spike amount not within control limits
<b>S</b>	Method of standard additions (MSA) used for calculation
<b>U</b>	Compound was not detected
<b>W</b>	Post digestion spike out of control limits
<b>*</b>	Duplicate analysis not within control limits
<b>+</b>	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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