Environmental Management Company
6001 Bollinger Canyon Rd, L4050
P.O. Box 6012
San Ramon, CA 94583-2324
Tel 925-842-1589
Fax 925-842-8370

Karen Streich
Project Manager

[redacted] 2466 ?
ec
AG

June 9, 2003

ChevronTexaco

Alameda County
JUN 12 2003
Environmental Health

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

Re: Chevron Service Station # 206127

Address: 2301-2337 Blanding Avenue, Alameda, CA

May 22, 2003

I have reviewed the attached routine groundwater monitoring report dated _____.

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,

Karen Streich

Karen Streich
Project Manager

Enclosure: Report

GETTLER-RYAN INC.

TRANSMITTAL

May 22, 2003
G-R #386498

TO: Mr. Robert Foss
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608

CC: Mr. Kenneth Streich
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 #206127
(Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	May 21, 2003	Groundwater Monitoring and Sampling Report Second Quarter - Event of April 15, 2003

COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***June 5, 2003***, at which time the final report will be distributed to the following:

cc: Mr. Amir Gholami, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577

Enclosures

trans/206127-ks

GETTLER-RYAN INC.

May 21, 2003
G-R Job #386498

Ms. Karen Streich
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

RE: Second Quarter Event of April 15, 2003
Groundwater Monitoring & Sampling Report
Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

Dear Ms. Streich:

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 level was measured and the well was checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevation, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Groundwater Elevation Map is included as Figure 1.

Groundwater samples were collected from the monitoring well and submitted to a state certified laboratory for analyses. The field data sheet for this event is 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

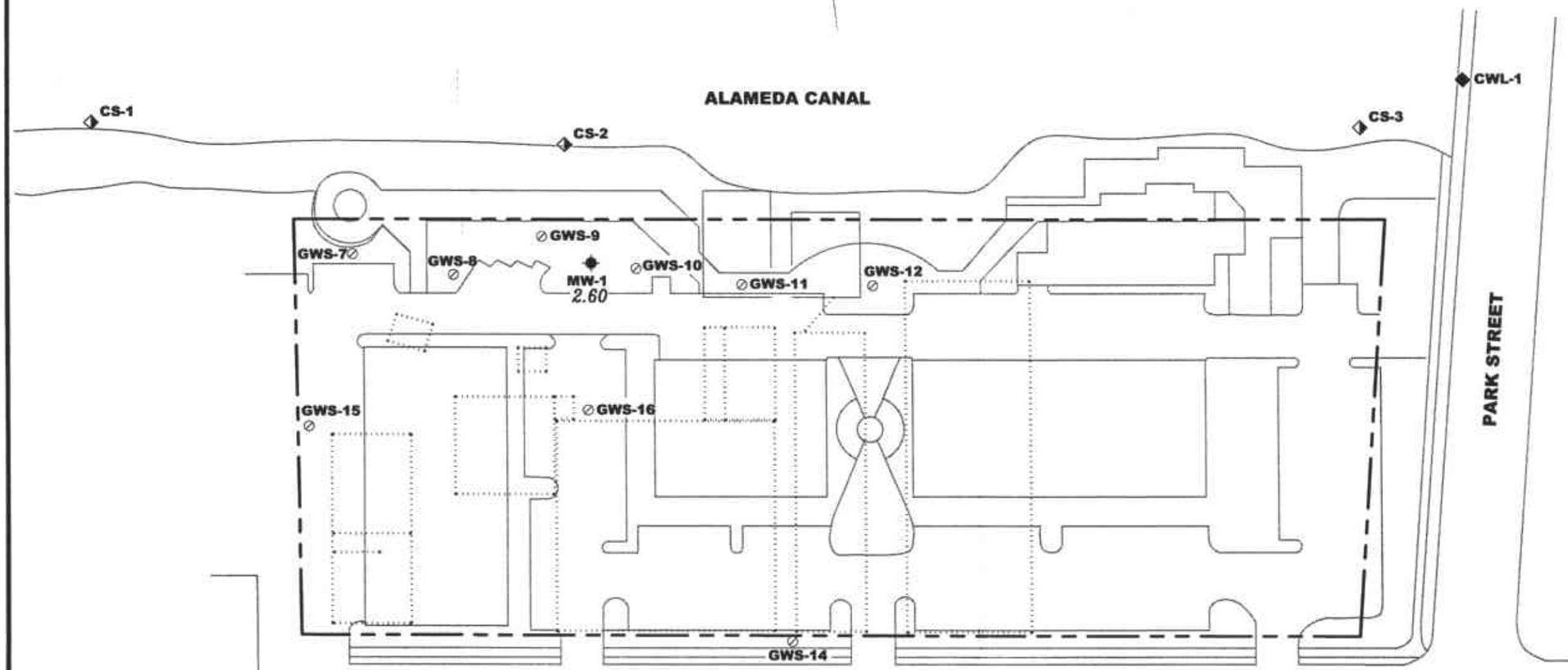
Robert C. Mallory
Registered Geologist No. 7285

REGISTERED GEOLOGIST
ROBERT C. MALLORY
No. 7285
Exp. 01/04
STATE OF CALIFORNIA

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

EXPLANATION

- ◆ Groundwater monitoring well — *99.99* Groundwater elevation in feet referenced to Mean Sea Level
- ◆ Canal water level gauging station from Park Street Bridge (RRM, October 1998)
- ◆ Canal grab surface water sample
- ⊘ Shallow groundwater survey point (Geomatrix, April 1995)
- Site features noted on Sanborn Fire Insurance map, dated 1932



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

FIGURE 1

GROUNDWATER ELEVATION MAP
Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

REVISED DATE

DATE April 15, 2003

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

PROJECT NUMBER 386498

REVIEWED BY

FILE NAME: P:\ENVIRO\CHEVRON\206127\2003-20-6127.DWG | Layout Tab: Plot2

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal)

2301-2337 Blanding Avenue

Alameda, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	01/23/01[1]	7.16	--	1,100[2,3]	5,210[4]	868	<50.0	<50.0	<50.0	<250
10.62	04/09/01	8.12	2.50	1,200[6]	3,000[5]	920	<20	<20	<20	<100
	07/30/01	9.15	1.47	550[3,8]	2,000[7]	730	13	<5.0	<5.0	<25
	10/08/01	7.86	2.76	2,200[9]	1,200	120	2.4	5.9	6.4	<2.5
	01/13/02	7.02	3.60	3,300[3]	930	320	0.78	0.87	3.8	<2.5
	04/08/02	9.60	1.02	1,200[3]	960	50	1.4	2.6	9.0	<2.5
	07/31/02	9.27	1.35	2,800[3]	930	64	1.4	1.9	11	<5.0
	10/15/02	8.00	2.62	1,000[3]	620	25	0.78	1.4	4.3	<2.5
	01/14/03	7.05	3.57	960[3]	1,600	20	1.3	1.3	<1.5	<2.5
	04/15/03	**8.02**	**2.60**	**920[3]**	**870**	**56**	**1**	**1.4**	**3.1**	**<2.5**
CS-2	07/30/01	--	--	140[3,5]	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	10/08/01	--	--	53[9]	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	01/13/02	--	--	<50[3]	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	04/08/02	--	--	77[3]	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	07/31/02	--	--	<50[3]	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	10/15/02	--	--	<50[3]	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	01/14/03	--	--	<50[3]	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	04/15/03	--	--	**<50[3]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**
Trip Blank										
TB-LB	01/23/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
	04/09/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/30/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA	10/08/01	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	01/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	04/08/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	07/31/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal)

2301-2337 Blanding Avenue

Alameda, California

WELL ID/ TOC* *(ft.)*	DATE	DTW *(ft.)*	GWE *(msl)*	TPH-D *(ppb)*	TPH-G *(ppb)*	B *(ppb)*	T *(ppb)*	E *(ppb)*	X *(ppb)*	MTBE *(ppb)*
QA	10/15/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
(cont)	01/14/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	04/15/03	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

EXPLANATIONS:

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
CS-2 = Creek Sample
QA = Quality Assurance/Trip Blank

* TOC elevations were surveyed on January 25, 2001, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Alameda benchmark being a cut square at the centerline return, south corner of Oak and Blanding, (Benchmark Elevation = 8.236 feet, NGVD 29).

1 Well development performed.
2 Laboratory report indicates unidentified hydrocarbons <C16.
3 TPH-D with silica gel cleanup.
4 Laboratory report indicates weathered gasoline C6-C12.
5 Laboratory report indicates discrete peaks.
6 Laboratory report indicates diesel C9-C24 + unidentified hydrocarbons <C16.
7 Laboratory report indicates gasoline C6-C12.
8 Laboratory report indicates unidentified hydrocarbons C9-C24.
9 Analysis performed without silica gel cleanup although was requested on the Chain of Custody.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 4.15.03 (inclusive)
City: Alameda, CA Sampler: FT

Well ID MW-1 Date Monitored: 4.15.03 Well Condition: Good
Well Diameter 2 in.
Total Depth 17.16 ft.
Depth to Water 8.02 ft.

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

9.14 xVF .17 = 1.55 x3 (case volume) = Estimated Purge Volume: 4.66 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 Bailed: (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
Product Transferred to:

Start Time (purge): 10:52 Weather Conditions: SUNNY
Sample Time/Date: 11:09 / 4.15.03 Water Color: CLOUDY | GREY Odor: YES
Purging Flow Rate: 1 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)
10:56	1.5	8.32	411	14.7		
11:00	3.0	7.99	309	14.8		
11:03	4.5	7.85	244	15.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
"	2 x amber	YES	NP	LANCASTER	TPH-Dw/sg

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 4.15.03 (inclusive)
City: Alameda, CA Sampler: FT

Well ID CS - 2 Date Monitored: N/A Well Condition: N/A
Well Diameter N/A in.
Total Depth ft.
Depth to Water ft.

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

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

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

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Discrete Bailer
Other: GRAB SAMPLE

Time Started: _____ (2400 hrs)
Time Bailed: _____ (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
Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: CLOUDY
Sample Time/Date: 10:41 / 4.15.03 Water Color: CLEAR Odor: NO
Purging Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
		7.32	913	14.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
CS - 2	3 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
-	2 x amber	YES	NP	LANCASTER	TPH-Dw/sg

COMMENTS: "CREEK SAMPLE"

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

041703-008

For Lancaster Laboratories use only
Acct. #: 10904 Sample #: 403038D-8a SCR#: 849000

Facility #: SS#206127 G-R#386498 Global ID#
Site Address: 2301-2337 BLANDING AVE., ALAMEDA, CA
Chevron PM: KS Lead Consultant: CAMBRIA
Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568
Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: FRANK TERLINDNI
Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy s on highest hit
☐ Run ____ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☒ Silica Gel Cleanup	8260 full scan	Oxygenates ___	Lead 7420 ☐ 7421 ☐
QA	4.15.03					W		2	X	X				
MW-1	↓	1109	X			↓		5	X	X	X			
CS-2	↓	1041	X			↓		5	X	X	X			

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I — Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	4.15.03		[signature]	4/17/03	800
2	[signature]	4/17/03	800	[signature]	4-17-03	1500
3	[signature]	4/17/03	1530	Airborne	4-17-03	
	Relinquished by Commercial Carrier: UPS FedEx Other Airborne			[signature]	4/18/03	730
	Temperature Upon Receipt 2-0 C°			Custody Seals Intact? Yes No		

3460 Rev. 7/30/01

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax:717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583
925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 849000. Samples arrived at the laboratory on Friday, April 18, 2003. The PO# for this group is 99011184 and the release number is STREICH.

Client Description	Lancaster Labs Number
QA Trip Blank Water Sample	4030380
MW-1 Grab Water Sample	4030381
CS-2 Grab Water Sample	4030382

ELECTRONIC COPY TO	Gettler-Ryan	Attn: Cheryl Hansen
1 COPY TO	Cambria C/O Gettler- Ryan	Attn: Deanna L. Harding

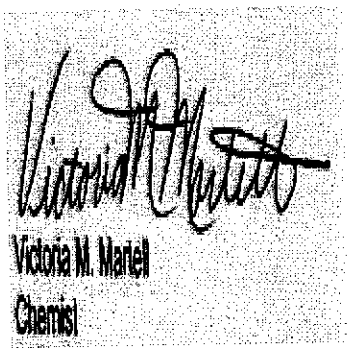
Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Teresa L Cunningham at (717) 656-2300.

Respectfully Submitted,



Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax:717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. WW 4030380

Collected:04/15/2003 00:00

Submitted: 04/18/2003 09:50
Reported: 05/01/2003 at 12:05
Discard: 06/01/2003
QA Trip Blank Water Sample

Facility # 206127 Job # 386498
2301-2337 Blanding Ave - Alameda, CA

Account Number: 10904

ChevronTexaco
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	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. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/22/2003 05:34	Linda C Pape	1
02159	BTEX, MTBE	SW-846 8021B	1	04/22/2003 05:34	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/22/2003 05:34	Linda C Pape	n.a.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. WW 4030381

Collected: 04/15/2003 11:09 by FT

Account Number: 10904

Submitted: 04/18/2003 09:50
Reported: 05/01/2003 at 12:05
Discard: 06/01/2003
MW-1 Grab Water Sample
Facility # 206127 Job # 386498
2301-2337 Blanding Ave - Alameda, CA

ChevronTexaco
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ALA-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02202	TPH-DRO CALUFT(Water) w/Si Gel	n.a.	920.	50.	ug/l	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	870.	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. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
02159	BTEX, MTBE					
02161	Benzene	71-43-2	56.	0.5	ug/l	1
02164	Toluene	108-88-3	1.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	1.4	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	3.1	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Analysis Date and Time	Analyst	Dilution Factor
02202	TPH-DRO CALUFT(Water) w/Si Gel	CALUFT-DRO/8015B, Modified	1	04/24/2003 15:25	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/21/2003 18:33	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	04/21/2003 18:33	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/21/2003 18:33	Melissa D Mann	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	04/21/2003 17:20	JoElla L Rice	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4030381

Collected:04/15/2003 11:09 by FT

Submitted: 04/18/2003 09:50
Reported: 05/01/2003 at 12:05
Discard: 06/01/2003
MW-1 Grab Water Sample
Facility # 206127 Job # 386498
2301-2337 Blanding Ave - Alameda, CA

ALA-1

Account Number: 10904

ChevronTexaco
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4030382

Collected: 04/15/2003 10:41 by FT

Submitted: 04/18/2003 09:50
Reported: 05/01/2003 at 12:05
Discard: 06/01/2003
CS-2 Grab Water Sample
Facility # 206127 Job # 386498
2301-2337 Blanding Ave - Alameda, CA

Account Number: 10904

ChevronTexaco
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ALA2-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02202	TPH-DRO CALUFT(Water) w/Si Gel	n.a.	N.D.	50.	ug/l	1

According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).
Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

01729	TPH-GRO - Waters					
01730	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.
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1

Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02202	TPH-DRO CALUFT(Water) w/Si Gel	CALUFT-DRO/8015B, Modified	1	04/24/2003 15:50	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/21/2003 19:09	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	04/21/2003 19:09	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/21/2003 19:09	Melissa D Mann	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	04/21/2003 17:20	JoElla L Rice	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4030382

Collected: 04/15/2003 10:41 by FT

Submitted: 04/18/2003 09:50
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CS-2 Grab Water Sample
Facility # 206127 Job # 386498
2301-2337 Blanding Ave - Alameda, CA

ALA2-

Account Number: 10904

ChevronTexaco
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San Ramon CA 94583

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco
Group Number: 849000
Reported: 05/01/03 at 12:05 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 031110009A	Sample number(s): 4030381-4030382							
TPH-DRO CALUFT(Water) w/Si Gel	N.D.	50.	ug/l	96	99	61-126	3	20
Batch number: 03111A55B	Sample number(s): 4030380							
TPH-GRO - Waters	N.D.	50.	ug/l	101	98	70-130	3	30
Benzene	N.D.	.5	ug/l	108	108	80-118	0	30
Toluene	N.D.	.5	ug/l	111	111	82-119	0	30
Ethylbenzene	N.D.	.5	ug/l	110	111	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	111	112	82-120	1	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	112	113	79-127	1	30
Batch number: 03111A56A	Sample number(s): 4030381-4030382							
TPH-GRO - Waters	N.D.	50.	ug/l	102	102	70-130	0	30
Benzene	N.D.	.5	ug/l	112	112	80-118	0	30
Toluene	N.D.	.5	ug/l	110	109	82-119	0	30
Ethylbenzene	N.D.	.5	ug/l	112	112	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	112	112	82-120	1	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	113	112	79-127	1	30

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 03111A55B	Sample number(s): 4030380								
TPH-GRO - Waters	108		70-130						
Benzene	104		67-136						
Toluene	108		78-129						
Ethylbenzene	108		75-133						
Total Xylenes	108		86-132						
Methyl tert-Butyl Ether	103		66-136						
Batch number: 03111A56A	Sample number(s): 4030381-4030382								
TPH-GRO - Waters	103		70-130						

Surrogate Quality Control

Analysis Name: TPH-DRO CALUFT(Water) w/Si Gel
Batch number: 031110009A

	Orthoterphenyl
4030381	79
4030382	111
Blank	108
LCS	111
LCSD	112
Limits:	59-139

*- 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.

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco
Reported: 05/01/03 at 12:05 PM

Group Number: 849000

Surrogate Quality Control

Analysis Name: BTEX, MTBE
Batch number: 03111A55B

	Trifluorotoluene-F	Trifluorotoluene-P
4030380	95	112
Blank	96	113
LCS	101	112
LCSD	98	111
MS	99	111
Limits:	57-146	66-136

Analysis Name: BTEX, MTBE
Batch number: 03111A56A

	Trifluorotoluene-F	Trifluorotoluene-P
4030381	139	135
4030382	96	104
Blank	102	105
LCS	104	105
LCSD	100	105
MS	135	
Limits:	57-146	66-136

*- 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.

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Explanation of Symbols and Abbreviations

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

N.D.	none detected
TNTC	Too Numerous To Count
IU	International Units
umhos/cm	micromhos/cm
C	degrees Celsius
meq	milliequivalents
g	gram(s)
ug	microgram(s)
ml	milliliter(s)
m3	cubic meter(s)
BMQL	Below Minimum Quantitation Level
MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units
NTU	nephelometric turbidity units
F	degrees Fahrenheit
lb.	pound(s)
kg	kilogram(s)
mg	milligram(s)
l	liter(s)
ul	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

ppm 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.

ppb parts per billion

Dry weight basis 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. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Measurement uncertainty values, as applicable, are available upon request.

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.