RO - 2466
Alameda County

MAR 12 2003

Environmental Health

GETTLER-RYAN INC.

TRANSMITTAL

February 21, 2003
G-R #386498

TO: Mr. Robert Foss
Cambria Environmental Technology, Inc.
2680 Bishop Drive, Suite 290
San Ramon, CA 94583

CC: Ms. Karen 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	February 21, 2003	Groundwater Monitoring and Sampling Report First Quarter - Event of January 14, 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 ***March 7, 2003***, at which time the final report will be distributed to the following:

cc: Ms. Eva Chu, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577

Enclosures

GETTLER-RYAN INC.

February 21, 2003
G-R Job #386498

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

RE: First Quarter Event of January 14, 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 Harding
— For —

Deanna L. Harding
Project Coordinator

Robert C. Mallory

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

Robert C. Mallory
Registered Geologist No. 7285

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

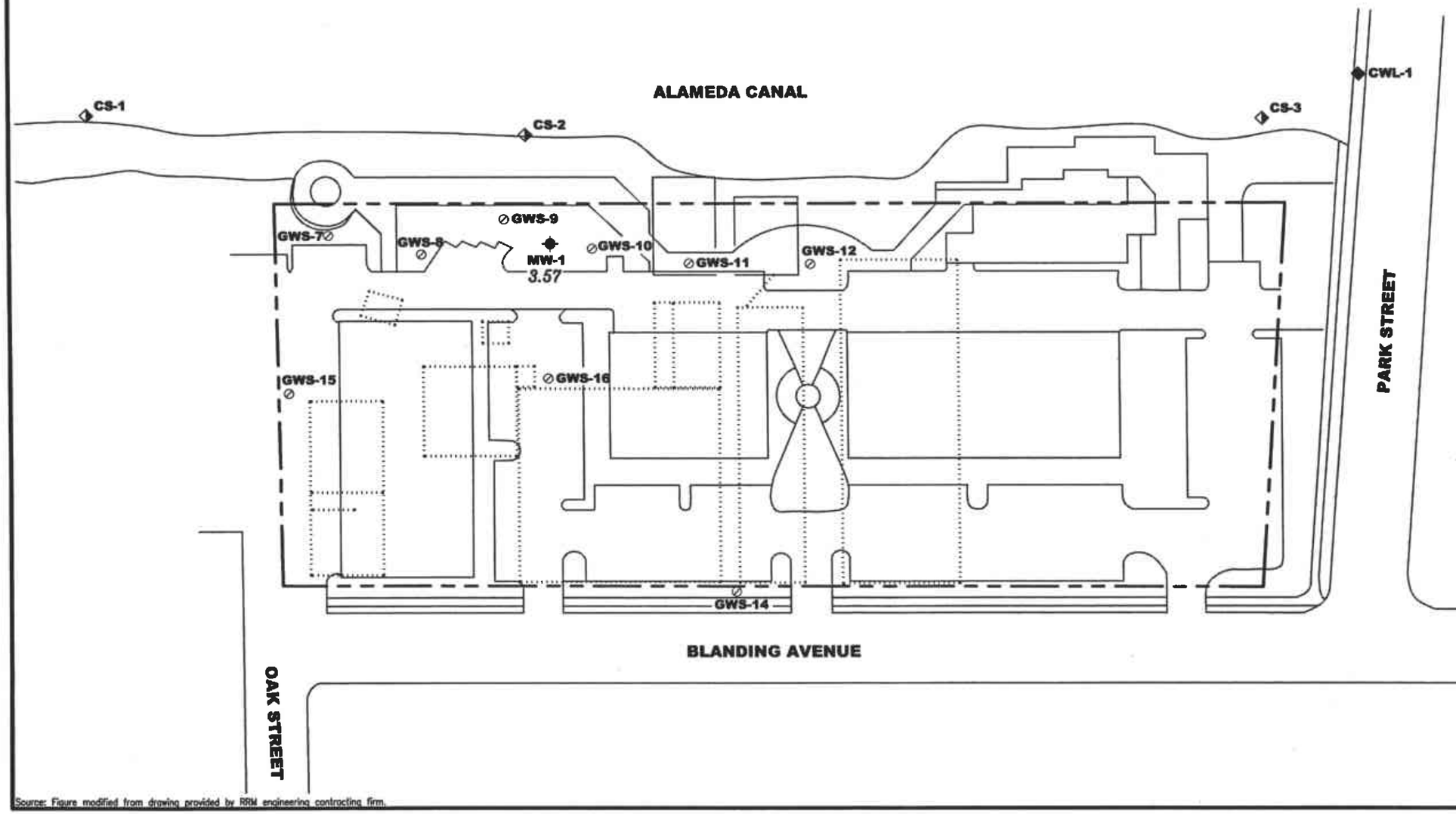
Alameda County

MAR 12 2003

Environmental Health

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
January 14, 2003

REVIEWED BY

PROJECT NUMBER
346498

FILE NAME: P:\ENVIRO\CHEVRON\206127\003-50-6127.DWG | Layout Tab: Pat1

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

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**
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**
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
	10/15/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	01/14/03	--	--	--	**<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

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.

Alameda County

MAR 12 2003

Environmental Health

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #206127 Job Number: 386498

Site Address: 2301-2337 Blanding Avenue Event Date: 1.14.03 (inclusive)

City: Alameda, CA Sampler: ET

Well ID MW - 1 Well Condition: O'k'

Well Diameter 2" in.

Total Depth 17.40 ft.

Depth to Water 7.05 ft.

10.35 xVF .17 = 1.75 x3 (case volume) = Estimated Purge Volume: 5.27 gal.

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

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): 8:42 Weather Conditions: CLOUDY

Sample Time/Date: 9:00 / 1.14.03 Water Color: CLOUDY / GRAY Odor: HCS / STRONG

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)
8:45	1.5	7.13	57.5	16.7		
8:48	3.0	7.14	60.3	17.0		
8:52	5.0	7.14	66.2	17.3		

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/sgc

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: 1.14.03 (inclusive)

City: Alameda, CA Sampler: FT

Well ID CS - 2 Well Condition: "CRETIC SAMPLE"

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:

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: FOG

Sample Time/Date: 8:26 / 1.14.03 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 (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

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/sgc

COMMENTS: ____

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Size: ____

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

MAR 12 2003

Environmental Health
011403-005

Acct. #: ~~10904~~ 10905 @DN 1/17/03

For Lancaster Laboratories use only
Sample #: 3979156-58 838081
SCR#:

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

Analyses Requested — Preservation Codes: H (BTEX + MTBE), H (TPH 8015 MOD GRO)

Matrix: Soil; Water (☐ Potable ☐ NPDES); Oil ☐; Air ☐

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	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	1.14.03					W		2	X	X											
CS-2	↓	0826	X			↓		5	X	X	X										
MW-1	↓	0900	X			↓		5	X	X	X										

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

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)
(STD. TAT) circled; 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
[signature]	1.14.03	1625	[signature]	1-14-03	1625
[signature]	1-15-03	1430	Airborne	1-15-03	

Relinquished by Commercial Carrier: UPS FedEx (Other) Airborne
Received by: [signature] Date 1/16/03 Time 0830
Temperature Upon Receipt 2.5-3 C°
Custody Seals Intact? (Yes) No

3460 Rev. 7/30/01

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Analysis Report

Lancaster Laboratories

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583-0904 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 838081. Samples arrived at the laboratory on Thursday, January 16, 2003. The PO# for this group is 99011184 and the release number is STREICH.

Client Description			Lancaster Labs Number
QA-T-030114	NA	Water	3979156
CS-2-W-030114	Grab	Water	3979157
MW-1-W-030114	Grab	Water	3979158

1 COPY TO Delta Env. C/O Gettler-Ryan Attn: Deanna L. Harding

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

Respectfully Submitted,

Steven A. Skiles
Sr. Chemist

Analysis Report

Lancaster Laboratories

Alameda County

MAR 12 2003

Environmental Health

Lancaster Laboratories Sample No. WW 3979156

Collected:01/14/2003 00:00

Account Number: 10905

Submitted: 01/16/2003 09:30
Reported: 01/28/2003 at 11:57
Discard: 02/28/2003

ChevronTexaco
6001 Bollinger Canyon Rd L4310

QA-T-030114 NA Water San Ramon CA 94583-0904 CA 94583

Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alamed NA NA

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. 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.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	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	01/17/2003 16:51	K. Robert Caulfeild-James	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	01/17/2003 16:51	K. Robert Caulfeild-James	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/17/2003 16:51	K. Robert Caulfeild-James	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 3979157

Collected:01/14/2003 08:26 by FT

Account Number: 10905

Submitted: 01/16/2003 09:30
Reported: 01/28/2003 at 11:57
Discard: 02/28/2003
CS-2-W-030114 Grab Water

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583-0904 CA 94583

Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alamed

CS-2-

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.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	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
02202	TPH-DRO CALUFT(Water) w/Si Gel	CALUFT-DRO/8015B, Modified	1	01/21/2003 14:28	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	01/17/2003 08:45	Martha L Seidel	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	01/17/2003 08:45	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/17/2003 08:45	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	CALUFT-DRO/8015B, Modified	1	01/20/2003 10:30	Aubri L Peters	1

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717.656.2300 Fax: 717.656.2681

Analysis Report

Lancaster Laboratories

Alameda County

MAR 12 2003

Environmental Health

Lancaster Laboratories Sample No. WW 3979157

Collected:01/14/2003 08:26 by FT

Account Number: 10905

Submitted: 01/16/2003 09:30
Reported: 01/28/2003 at 11:57
Discard: 02/28/2003
CS-2-W-030114 Grab Water

ChevronTexaco
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583-0904 CA 94583

Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alamed

CS-2-

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717 656-2300 Fax 717 656-2681

MEMBER ACIL

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 3979158

Collected:01/14/2003 09:00 by FT

Account Number: 10905

Submitted: 01/16/2003 09:30
Reported: 01/28/2003 at 11:57
Discard: 02/28/2003

ChevronTexaco
6001 Bollinger Canyon Rd L4310

MW-1-W-030114 Grab Water

San Ramon CA 94583-0904 CA 94583

Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alamed

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.	960.	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.	1,600.	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.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	20.	0.50	ug/l	1
00777	Toluene	108-88-3	1.3	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	1.3	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	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
02202	TPH-DRO CALUFT(Water) w/Si Gel	CALUFT-DRO/8015B, Modified	1	01/21/2003 14:51	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	01/17/2003 10:22	Martha L Seidel	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	01/17/2003 10:22	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/17/2003 10:22	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	CALUFT-DRO/8015B, Modified	1	01/20/2003 10:30	Aubri L Peters	1

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717 656 2300 Fax: 717 656 2681

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 3979158

Collected:01/14/2003 09:00 by FT

Account Number: 10905

Submitted: 01/16/2003 09:30
Reported: 01/28/2003 at 11:57
Discard: 02/28/2003

ChevronTexaco
6001 Bollinger Canyon Rd L4310

MW-1-W-030114 Grab Water

San Ramon CA 94583-0904 CA 94583

Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alamed

ALA-1

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425

Lancaster Laboratories

Quality Control Summary

Client Name: ChevronTexaco
Group Number: 838081
Reported: 01/28/03 at 11:57 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 03016A51A	Sample number(s): 3979157-3979158							
Benzene	N.D.	.2	ug/l	107	105	80-118	2	30
Toluene	N.D.	.2	ug/l	103	101	82-119	2	30
Ethylbenzene	N.D.	.2	ug/l	101	99	81-119	2	30
Total Xylenes	N.D.	.6	ug/l	103	102	82-120	1	30
Methyl tert-Butyl Ether	N.D.	.3	ug/l	103	98	79-127	4	30
TPH-GRO - Waters	N.D.	50.	ug/l	111	112	74-116	1	30
Batch number: 03017A53A	Sample number(s): 3979156							
Benzene	N.D.	.2	ug/l	94	111	80-118	17	30
Toluene	N.D.	.2	ug/l	101	113	82-119	11	30
Ethylbenzene	N.D.	.2	ug/l	93	108	81-119	15	30
Total Xylenes	N.D.	.6	ug/l	93	107	82-120	14	30
Methyl tert-Butyl Ether	N.D.	.3	ug/l	97	106	79-127	9	30
TPH-GRO - Waters	N.D.	50.	ug/l	105	100	74-116	5	30
Batch number: 030180004A	Sample number(s): 3979157-3979158							
TPH-DRO CALUFT(Water) w/Si Gel	N.D.	50.	ug/l	80	85	54-120	6	20

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: 03016A51A	Sample number(s): 3979157-3979158								
Benzene	120		83-130						
Toluene	114		87-129						
Ethylbenzene	111		86-133						
Total Xylenes	113		86-132						
Methyl tert-Butyl Ether	106		66-140						
TPH-GRO - Waters	113		74-132						
Batch number: 03017A53A	Sample number(s): 3979156								
Benzene	105		83-130						
Toluene	112		87-129						
Ethylbenzene	105		86-133						
Total Xylenes	106		86-132						
Methyl tert-Butyl Ether	95		66-140						

Surrogate Quality Control

Analysis Name: BTEX, MTBE (8021)
Batch number: 03016A51A

	Trifluorotoluene-F	Trifluorotoluene-P
3979157	95	90
3979158	118	101
Blank	96	92
LCS	100	93

*- 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.

Lancaster Laboratories

Quality Control Summary

Client Name: ChevronTexaco
Reported: 01/28/03 at 11:57 AM

Group Number: 838081

Surrogate Quality Control

LCSD	99	92
MS	104	93
Limits:	57-146	71-130

Analysis Name: BTEX, MTBE (8021)
Batch number: 03017A53A

	Trifluorotoluene-F	Trifluorotoluene-P
3979156	99	98
Blank	109	100
LCS	105	101
LCSD	101	99
MS		98
Limits:	57-146	71-130

Analysis Name: TPH-DRO CALUFT(Water) w/Si Gel
Batch number: 030180004A

	Orthoterphenyl
3979157	97
3979158	91
Blank	92
LCS	97
LCSD	97
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.