GETTLER-RYAN INC.

TRANSMITTAL

Alameda County
DEC 17 2002
Environmental Health

November 27, 2002
G-R #386498

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

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	November 18, 2002	Groundwater Monitoring and Sampling Report Fourth Quarter - Event of October 15, 2002

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 ***December 11, 2002***, 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
Mr. Greg Gurss, Gettler-Ryan Inc., 3164 Gold Camp Drive, Suite 240, Rancho Cordova, CA 95670

Enclosures

trans/206127-ks

GETTLER-RYAN INC.

November 18, 2002
G-R Job #386498

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

RE: Fourth Quarter Event of October 15, 2002
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

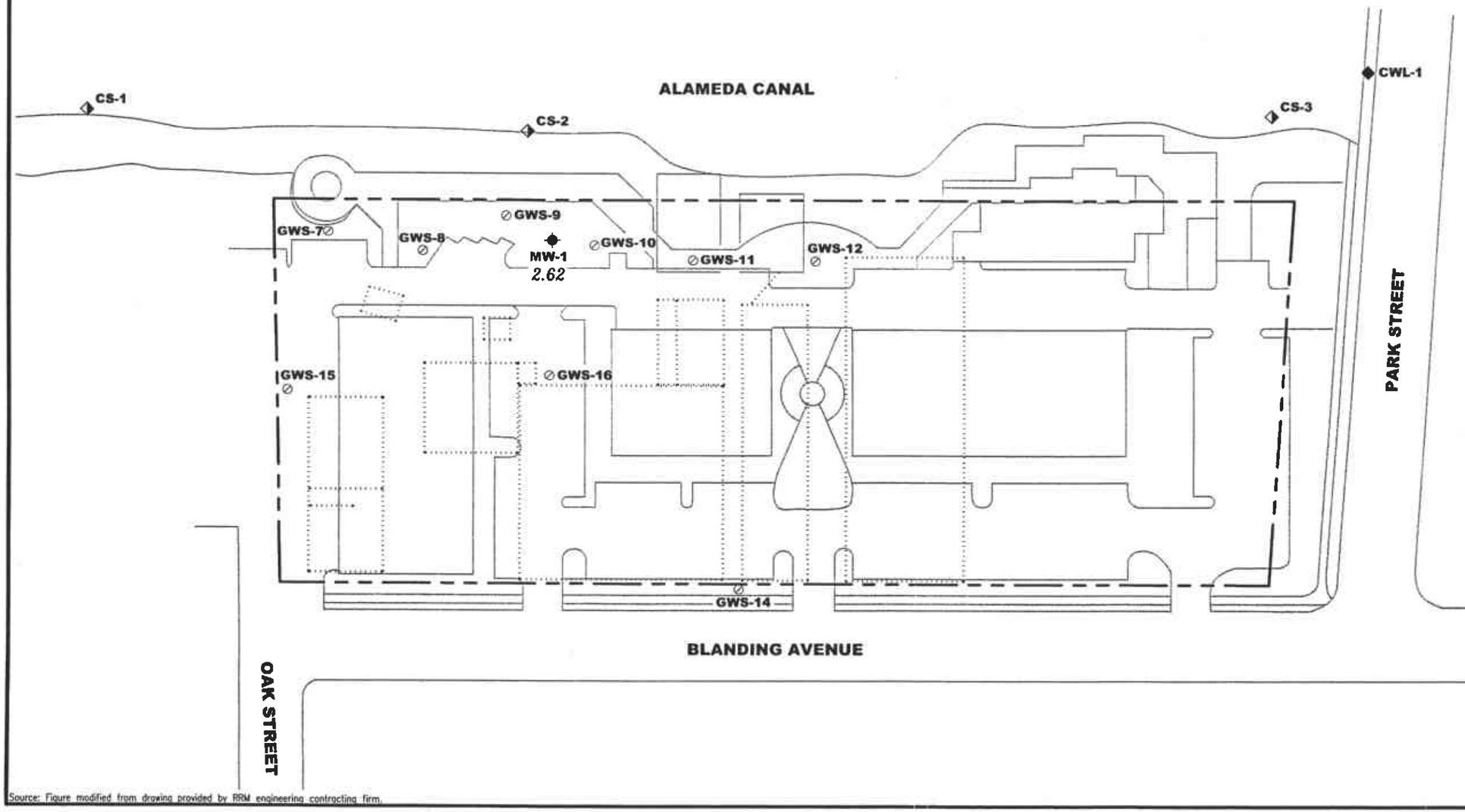
Robert C. Mallory
Registered Geologist No. 7285

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
October 15, 2002

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\Q02-20-6127.DWG | Layout Tab: Plt4

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[4,8]	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[4]	930	320	0.78	0.87	3.8	<2.5
	04/08/02	9.60	1.02	1,200[4]	960	50	1.4	2.6	9.0	<2.5
	07/31/02	9.27	1.35	2,800[4]	930	64	1.4	1.9	11	<5.0
	10/15/02	**8.00**	**2.62**	**1,000[4]**	**620**	**25**	**0.78**	**1.4**	**4.3**	**<2.5**
CS-2	07/30/01	--	--	140[4,5]	<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[4]	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	04/08/02	--	--	77[4]	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	07/31/02	--	--	<50[4]	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	10/15/02	**--**	**--**	**<50[4]**	**<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**

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

* 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 Laboratory report indicates weathered gasoline C6-C12.
4 TPH-D with silica gel cleanup.
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, 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: 10.15.02 (inclusive)
City: Alameda, CA Sampler: FT

Well ID: MW-1 Well Condition: ok
Well Diameter: 2" in.
Total Depth: 17.40 ft.
Depth to Water: 8.00 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

9.40 xVF .17 = 1.59 x3 (case volume) = Estimated Purge Volume: 4.79 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): 11:24 Weather Conditions: FOG
Sample Time/Date: 11:40 / 10.15.02 Water Color: CLOUDY | GREY Odor: YES | STRONG
Purging Flow Rate: N/A 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)
11:27	1.5	7.11	574	18.0		
11:30	3.0	7.10	421	17.7		
11:34	5.0	7.12	398	17.6		

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: 10.15.02 (inclusive)
City: Alameda, CA Sampler: FT

Well ID CS-2 Well Condition: CREEK 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): 11:08 Weather Conditions: FOG
Sample Time/Date: 11:15 / 10.15.02 Water Color: CLEAR Odor: NO
Purging Flow Rate: N/A gpm. Sediment Description: _____
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)
		7.12	489	18.8		

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.

101602-011

For Lancaster Laboratories use only
Acct. #: 10905 Sample #: 392192I-3 SCR#:

GR# 827335

Facility #: 206127 Job #386498 Global ID#NA
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:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil	Matrix: Air	Total Number of Containers	Analyses Requested / Preservation Codes: BTEX + MTBE 8260 ☐ 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates ___	Lead 7420 ☐ 7421 ☐
						☐ Potable ☐ NPDES				H	H	H				
QA	10.15.02					W			2	X	X					
MW-1	↓	1140	X			↓			5	X	X	X				
CS-2	↓	1115	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 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

	Date	Time		Date	Time
Relinquished by:	10.15-02		Received by:	10/16/02	1400
Relinquished by:	10/16	1400	Received by:	10-16-02	1400
Relinquished by:	10-17-02	1530	Received by: FedEx	10-17-02	
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	10/18/02	0925
Temperature Upon Receipt 3.5 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.

Lancaster Laboratories
Where quality is a science.

RECEIVED
NOV - 5 2002

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 827335. Samples arrived at the laboratory on Friday, October 18, 2002. The PO# for this group is 99011184 and the release number is STREICH.

Client Description	Lancaster Labs Number
QA Water Sample	3921821
MW-1 Grab Water Sample	3921822
CS-2 Grab Water Sample	3921823

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

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

Respectfully Submitted,

Christine M. Dulaney
Sr. Chemist

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
Where quality is a science.

Lancaster Laboratories Sample No. WW 3921821

Collected:10/15/2000 00:00

Account Number: 10905

Submitted: 10/18/2002 09:25
Reported: 10/31/2002 at 16:44
Discard: 12/01/2002
QA Water Sample
Facility# 206127 Job# 386498
2301-2337 Blanding Ave-Alameda, CA

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.					
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	10/21/2002 23:07	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	10/21/2002 23:07	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/21/2002 23:07	Melissa D Mann	n.a.

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

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3921822

Collected:10/15/2000 11:40 by FT

Account Number: 10905

Submitted: 10/18/2002 09:25
Reported: 10/31/2002 at 16:45
Discard: 12/01/2002
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

MW1BL

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.	1,000.	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.	620.	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	25.	0.50	ug/l	1
00777	Toluene	108-88-3	0.78	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	1.4	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	4.3	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	CA LUFT Diesel Range Organics	1	10/25/2002 17:32	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	10/21/2002 15:36	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	10/21/2002 15:36	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/21/2002 15:36	Melissa D Mann	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	2	10/25/2002 09:30	William P Stafford	1

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

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3921822

Collected:10/15/2000 11:40 by FT

Account Number: 10905

Submitted: 10/18/2002 09:25
Reported: 10/31/2002 at 16:45
Discard: 12/01/2002
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

MW1BL

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

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3921823

Collected:10/15/2000 11:15 by FT

Account Number: 10905

Submitted: 10/18/2002 09:25
Reported: 10/31/2002 at 16:45
Discard: 12/01/2002
CS-2 Grab Water Sample
Facility# 206127 Job# 386498
2301-2337 Blanding Ave-Alameda, CA

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CS2--

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	CA LUFT Diesel Range Organics	1	10/23/2002 15:55	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	10/21/2002 16:09	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	10/21/2002 16:09	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/21/2002 16:09	Melissa D Mann	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	10/22/2002 09:30	William P Stafford	1

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

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3921823

Collected:10/15/2000 11:15 by FT

Account Number: 10905

Submitted: 10/18/2002 09:25
Reported: 10/31/2002 at 16:45
Discard: 12/01/2002
CS-2 Grab Water Sample
Facility# 206127 Job# 386498
2301-2337 Blanding Ave-Alameda, CA

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CS2--

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

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Quality Control Summary

Client Name: ChevronTexaco Group Number: 827335
Reported: 10/31/02 at 04:45 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: 022940022A	Sample number(s): 3921823							
TPH-DRO CALUFT(Water) w/Si Gel	N.D.	50.	ug/l	101	95	54-120	6	20
Batch number: 02294A53A	Sample number(s): 3921821-3921823							
Benzene	N.D.	.2	ug/l	103	95	80-118	8	30
Toluene	N.D.	.2	ug/l	103	95	82-119	8	30
Ethylbenzene	N.D.	.2	ug/l	102	95	81-119	8	30
Total Xylenes	N.D.	.6	ug/l	104	95	82-120	8	30
Methyl tert-Butyl Ether	N.D.	.3	ug/l	108	96	79-127	11	30
TPH-GRO - Waters	N.D.	50.	ug/l	87	87	74-116	1	30
Batch number: 022970025A	Sample number(s): 3921822							
TPH-DRO CALUFT(Water) w/Si Gel	N.D.	50.	ug/l	79	96	54-120	20	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: 02294A53A	Sample number(s): 3921821-3921823								
Benzene	94		83-130						
Toluene	97		87-129						
Ethylbenzene	95		86-133						
Total Xylenes	95		86-132						
Methyl tert-Butyl Ether	90		66-140						
TPH-GRO - Waters	89		74-132						

Surrogate Quality Control

Analysis Name: TPH-DRO CALUFT(Water) w/Si Gel
Batch number: 022940022A

	Orthoterphenyl
3921823	87
Blank	86
LCS	91
LCSD	85
Limits:	59-139

Analysis Name: BTEX, MTBE (8021)
Batch number: 02294A53A

	Trifluorotoluene-F	Trifluorotoluene-P
3921821	92	97
3921822	126	116
3921823	91	97
Blank	91	96
LCS	106	99

*- 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.

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

Lancaster Laboratories
Where quality is a science.

Quality Control Summary

Client Name: ChevronTexaco Group Number: 827335
Reported: 10/31/02 at 04:45 PM

Surrogate Quality Control

LCSD	99	97
MS	107	93
Limits:	57-146	71-130

Analysis Name: TPH-DRO CALUFT(Water) w/Si Gel
Batch number: 022970025A
Orthoterphenyl

3921822	93
Blank	97
LCS	86
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.

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