



GETTLER - RYAN INC.

TRANSMITTAL

September 25, 2002
Alameda County G-R #386498

OCT 14 2002

Environmental Health
MS. RAYMOND SEICH
Chevron Products Company
P.O. Box 6004
San Ramon, California 94583

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

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	September 11, 2002	Groundwater Monitoring and Sampling Report Third Quarter - Event of July 31, 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 **October 9, 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.

September 11, 2002
G-R Job #386498

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

RE: Third Quarter Event of July 31, 2002
Groundwater Monitoring & Sampling Report
Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

Dear Ms. Streich:

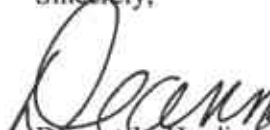
This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

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

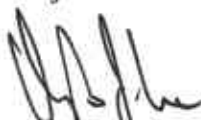

Douglas J. Lee
Senior Geologist, R.G. No. 6882



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
 - ◆ 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
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
 - NM Not Monitored

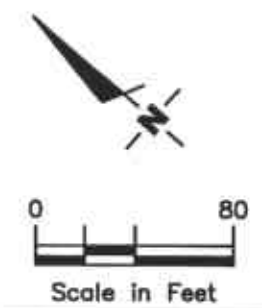
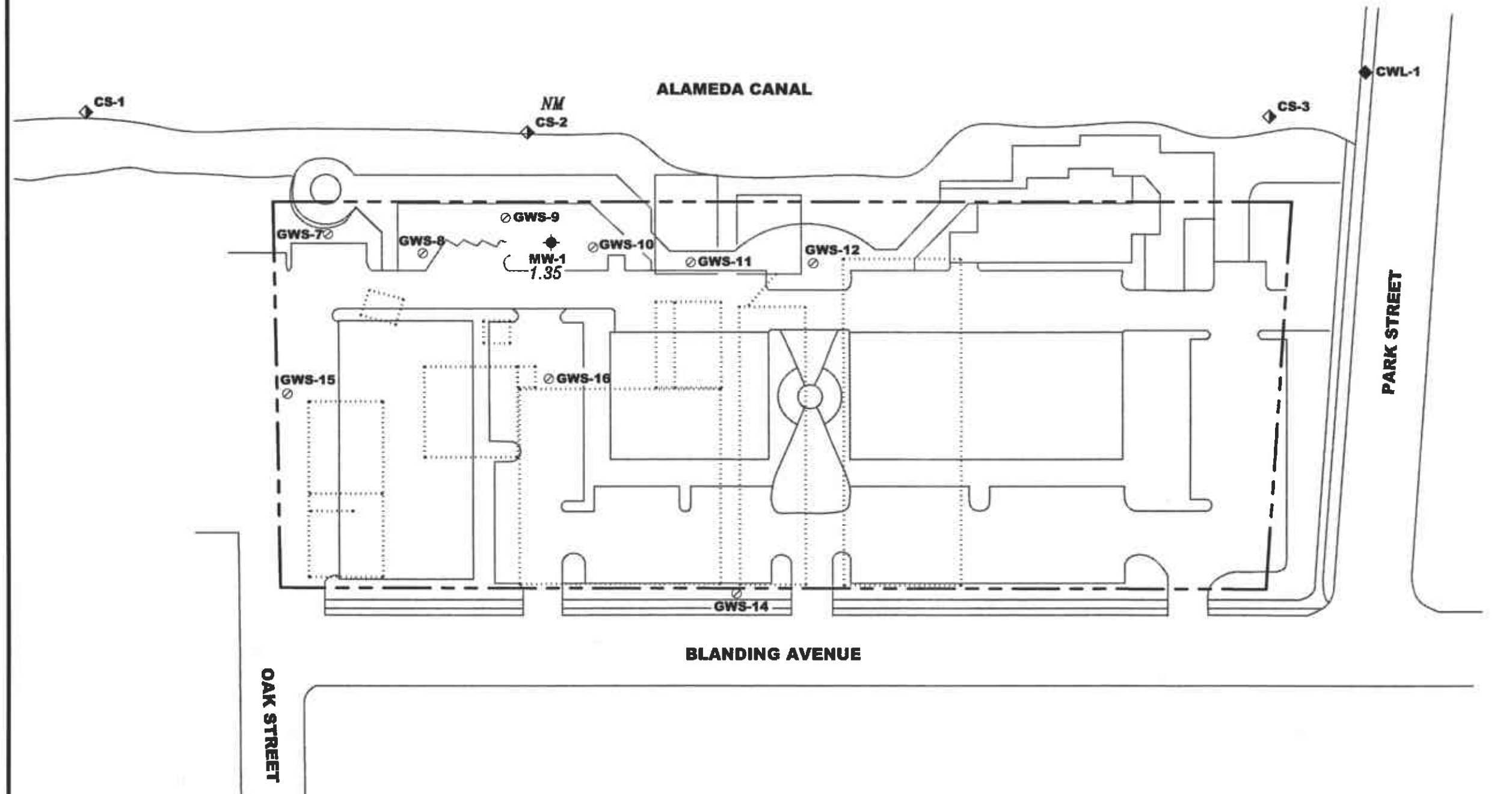


FIGURE **1**

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

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

PROJECT NUMBER
386498

REVIEWED BY
 DATE
 July 31, 2002

REVISED DATE

FILE NAME: P:\ENVIRO\CHEVRON\206127\002-20-6127.DWG | Layout (cb: Pat)

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

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
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
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

EXPLANATIONS:

TOC = Top of Casing (ft.) = Feet	TPH-G = Total Petroleum Hydrocarbons as Gasoline B = Benzene	(ppb) = Parts per billion -- = Not Measured/Not Analyzed
DTW = Depth to Water	T = Toluene	CS-2 = Creek Sample
GWE = Groundwater Elevation (msl) = Mean sea level	E = Ethylbenzene X = Xylenes	QA = Quality Assurance
TPH-D = Total Petroleum Hydrocarbons as Diesel	MTBE = Methyl tertiary butyl ether	

* 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, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7.31.02
 City: Alameda, CA Sampler: FT

Well ID: MW - 1 Well Condition: GOOD
 Well Diameter: 2 in. Hydrocarbon Amount Bailed
 Total Depth: 17.40 ft. Thickness: 0 ft. (product/water): 0 gal.
 Depth to Water: 9.27 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

8.13 xVF .17 = 1.38 x3 (case volume) = Estimated Purge Volume: 4.14 gal.

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

Sampling Equipment: Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Start Time (purge): 9:25 Weather Conditions: FOG
 Sample Time/Date: 9:43 / 7.31.02 Water Color: CLOUDY/GREY Odor: YES
 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 (u mhos/cm) x 100	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>9:29</u>	<u>1.5</u>	<u>6.99</u>	<u>1101</u>	<u>17.17</u>		
<u>9:32</u>	<u>3.0</u>	<u>7.02</u>	<u>714</u>	<u>17.5</u>		
<u>9:35</u>	<u>4.0</u>	<u>7.04</u>	<u>605</u>	<u>17.3</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW - 1</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G/BTEX/MTBE</u>
	<u>2</u> x amber	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-D w/Silica Gel</u>

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: 7-31-02
 City: Alameda, CA Sampler: FT

Well ID: CS - 2 Well Condition: CREEK SAMPLE
 Well Diameter: N/A in. Hydrocarbon Amount Bailed
 Total Depth: _____ ft. Thickness: 0 ft. (product/water): 0 gal.
 Depth to Water: _____ 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

 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: _____

Start Time (purge): 9:00 Weather Conditions: FOG
 Sample Time/Date: 9:12 / 7.31.02 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 (C/F)	D.O. (mg/L)	ORP (mV)
		<u>7.00</u>	<u>1604</u>	<u>20.9</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>CS - 2</u>	<u>3</u> x vov vial	YES	HCL	LANCASTER	TPH-G/BTEX/MTBE
	<u>2</u> x amber	YES	NP	LANCASTER	TPH-D w/Silica Gel

COMMENTS: _____

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

Chevron California Region Analysis Request/Chain of Custody



080202-008

Acct. #: 10905 For Lancaster Laboratories use only Sample #: 3810771-73

SCR#: _____

Group # 817549

Facility #: <u>206127</u> Job #: <u>386498</u> Global ID# <u>NA</u>		Matrix: _____		Analyses Requested										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																																									
Site Address: <u>2301-2337 B LANDING AVE., ALAMEDA, CA</u>		Lead Consultant: <u>Delta/G-R</u>		Preservation Codes										<input type="checkbox"/> J value reporting needed <input 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																																																									
Chevron PM: <u>Tom Baugh</u>		Consultant/Office: <u>G-R, Inc. 6747 Sierra Court, Dublin, Ca 94568</u>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">Total Number of Containers</th> <th colspan="2">BTEX + MTBE 8260</th> <th colspan="2">TPH 8015 MOD GRO</th> <th colspan="2">TPH 8015 MOD DRO</th> <th colspan="2">8260 full scan</th> <th colspan="2">Oxygenates</th> <th colspan="2">Lead 7420</th> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td><input type="checkbox"/></td><td><input type="checkbox"/></td> </tr> <tr> <td colspan="2">Soil</td> <td colspan="2">Potable Water</td> <td colspan="2">NPDDES</td> <td colspan="2">Silica Gel Cleanup</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td colspan="2">Oil</td> <td colspan="2">Air</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> </table>										Total Number of Containers		BTEX + MTBE 8260		TPH 8015 MOD GRO		TPH 8015 MOD DRO		8260 full scan		Oxygenates		Lead 7420		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Soil		Potable Water		NPDDES		Silica Gel Cleanup								Oil		Air													
Total Number of Containers		BTEX + MTBE 8260												TPH 8015 MOD GRO		TPH 8015 MOD DRO		8260 full scan		Oxygenates		Lead 7420																																																	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																
Soil		Potable Water												NPDDES		Silica Gel Cleanup																																																							
Oil		Air																																																																					
Consultant Prj. Mgr.: <u>Deanna L. Harding</u> (Deanna@grinc.com)		Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u>																																																																					
Sampler: <u>FRANK TERZINONI</u>		Service Order #: _____ <input type="checkbox"/> Non SAR: _____																																																																					
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers				Preservation Codes				Comments / Remarks																																																					
QA		7-31-02				W				2	X	X																																																											
MW-1		0943				↓				5	X	X	X																																																										
CS-2		0912				↓				5	X	X	X																																																										
Turnaround Time Request (TAT) (please circle) STD. TAT: 24 hour (circled), 72 hour, 48 hour, 4 day, 5 day				Relinquished by: <u>[Signature]</u> Date: <u>7-31-02</u> Time: _____		Received by: <u>[Signature]</u> Date: <u>8/2/02</u> Time: <u>1212</u>																																																																	
Data Package Options (please circle if required) QC Summary: Type I - Full Type VI (Raw Data): <input type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) _____ Disk _____				Relinquished by: <u>[Signature]</u> Date: <u>8/2/02</u> Time: _____		Received by: <u>[Signature]</u> Date: <u>8/2/02</u> Time: <u>1330</u>																																																																	
				Relinquished by Commercial Carrier: _____		Received by: <u>[Signature]</u> Date: <u>08/12/02</u> Time: <u>0915</u>																																																																	
				UPS _____ FedEx _____ Other: <u>Airborne</u>		Custody Seals Intact? (Yes) No																																																																	
				Temperature Upon Receipt: <u>1.5-3.5°C</u>																																																																			



RECEIVED

8/2/02

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GETTLER-RYAN
GENERAL CONTRACTOR

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 817549. Samples arrived at the laboratory on Saturday, August 03, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description

QA-T-020731 Water Sample
MW-1-020731 Grab Water Sample
CS-2-020731 Grab Water Sample

Lancaster Labs Number

3870771
3870772
3870773

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,

Steven A Skiles
Steven A. Skiles
Sr. Chemist



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



Lancaster Laboratories Sample No. WW 3870771

Collected: 07/31/2002 00:00

Account Number: 10905

Submitted: 08/03/2002 09:15

ChevronTexaco

Reported: 08/14/2002 at 14:31

6001 Bollinger Canyon Rd L4310

Discard: 09/14/2002

San Ramon CA 94583

QA-T-020731 Water Sample

Facility# 206127 Job# 386498

2301-2337 Blanding Ave.; Alameda, CA

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	08/05/2002 20:12	Steven J Stabinger	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	08/05/2002 20:12	Steven J Stabinger	1
01148	OC for water prep	SW-846 8021B	1	08/05/2002 20:12	Steven J Stabinger	1

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected or above the Reporting Limit



2425 New Holland Pike
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. **WW 3870772**

Collected: 07/31/2002 09:43 by FT

Account Number: 10905

Submitted: 08/03/2002 09:15

Reported: 08/14/2002 at 14:31

Discard: 09/14/2002

MW-1-020731 Grab Water Sample

Facility# 206127 Job# 386498

2301-2337 Blanding Ave.; Alameda, CA

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

BAA-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.	2,800.	52.	ug/l	2
<p>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.</p>						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	930.	50.	ug/l	1
<p>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.</p>						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	64.	0.50	ug/l	1
00777	Toluene	108-88-3	1.4	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	1.9	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	11.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D. #	5.0	ug/l	1

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for the compound listed below. The presence or concentration of this compound cannot be determined due to the presence of this interferent.
 Methyl t-butyl ether

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



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



Lancaster Laboratories Sample No. WW 3870772

Collected: 07/31/2002 09:43 by FT

Account Number: 10905

Submitted: 08/03/2002 09:15

Reported: 08/14/2002 at 14:31

Discard: 09/14/2002

MW-1-020731 Grab Water Sample

Facility# 206127 Job# 386498

2301-2337 Blanding Ave.; Alameda, CA

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

BAA-1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
02202	TPH-DRO CALUFT(Water) w/Si Gel	CA LUFT Diesel Range Organics	2	08/07/2002 14:50		Devin M Lahr	2
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	08/06/2002 08:40		Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	08/06/2002 08:40		Anastasia Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030E	1	08/06/2002 08:40		Anastasia Papadoplos	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	08/05/2002 15:00		Elia R Botrous	1

#=Laboratory Method Detection Limit Exceeded target detection limit

N.D.=Not detected # or above the Reporting Limit



2425 New Holland Pike
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories Sample No. WW 3870773

Collected: 07/31/2002 09:12 by FT

Account Number: 10905

Submitted: 08/03/2002 09:15

Reported: 08/14/2002 at 14:31

Discard: 09/14/2002

CS-2-020731 Grab Water Sample

Facility# 206127 Job# 386498

2301-2337 Blanding Ave.; Alameda, CA

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

BAA-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	Diluti Facto:
02202	TPH-DRO CALUFT(Water) w/Si Gel	CA LUFT Diesel Range Organics	1	08/07/2002 14:27	Devin M Lahr	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	08/06/2002 09:15	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	08/06/2002 09:15	Anastasia Papadoplos	1

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected or above the Reporting Limit



2425 New Holland Pike
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3870773

Collected: 07/31/2002 09:12 by FT

Account Number: 10905

Submitted: 08/03/2002 09:15

Reported: 08/14/2002 at 14:31

Discard: 09/14/2002

CS-2-020731 Grab Water Sample

Facility# 206127 Job# 386498

2301-2337 Blanding Ave.; Alameda, CA

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

BAA-2

01146 GC VOA Water Prep

SW-846 5030B

1 08/06/2002 09:15

Anastasia Papadoplos

n.a.

07003 Extraction - DRO (Waters)

TPH by CA LUFT

1 08/05/2002 15:00

Elia R Botrous

1

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected or above the Reporting Limit



2425 New Holland Pike
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Client Name: ChevronTexaco
Reported: 08/14/02 at 02:31 PM

Group Number: 817549

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 022170003A Sample number(s): 3870772-3870773								
TPH-DRO CALUFT (Water) w/Si Gel	N.D.	25.	ug/l	110	113	54-120	2	20
Batch number: 02217A56A Sample number(s): 3870771								
Benzene	N.D.	0.5	ug/l	93	91	80-118	2	30
Toluene	N.D.	0.5	ug/l	93	90	82-119	3	30
Ethylbenzene	N.D.	0.5	ug/l	92	88	81-119	4	30
Total Xylenes	N.D.	1.5	ug/l	93	90	82-120	4	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	97	96	79-127	1	30
TPH-GRO - Waters	N.D.	50.	ug/l	81	76	74-116	6	30
Batch number: 02217A56B Sample number(s): 3870772-3870773								
Benzene	N.D.	0.5	ug/l	93	91	80-118	2	30
Toluene	N.D.	0.5	ug/l	93	90	82-119	3	30
Ethylbenzene	N.D.	0.5	ug/l	92	88	81-119	4	30
Total Xylenes	N.D.	1.5	ug/l	93	90	82-120	4	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	97	96	79-127	1	30
TPH-GRO - Waters	N.D.	50.	ug/l	81	76	74-116	6	30

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	BKG MAX	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 02217A56A Sample number(s): 3870771								
Benzene	101		83-130					
Toluene	104		87-129					
Ethylbenzene	102		86-133					
Total Xylenes	103		86-132					
Methyl tert-Butyl Ether	98		66-140					
TPH-GRO - Waters	98		74-132					
Batch number: 02217A56B Sample number(s): 3870772-3870773								
Benzene	101		83-130					
Toluene	104		87-129					
Ethylbenzene	102		86-133					
Total Xylenes	103		86-132					
Methyl tert-Butyl Ether	98		66-140					
TPH-GRO - Waters	98		74-132					

Surrogate Quality Control

Analysis Name: TPH-DRO CALUFT (Water) w/Si Gel
Batch number: 022170003A
Orthoterphenyl

3870772	120
3870773	112
Blank	112
LCS	101
LCSD	106

Limits: 59-157

*- 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

Where quality is a science.

Quality Control Summary

Client Name: ChevronTexaco
Reported: 08/14/02 at 02:31 PM

Group Number: 817549

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters

Batch number: 02217A56A

Trifluorotoluene-F Trifluorotoluene-P

3870771	90	94
Blank	86	95
LCS	101	94
LCSD	101	95
MS	112	94

Limits: 57-146 71-130

Analysis Name: TPH-GRO - Waters

Batch number: 02217A56B

Trifluorotoluene-F Trifluorotoluene-P

3870772	120	111
3870773	90	94
Blank	90	94
LCS	101	94
LCSD	101	95
MS	112	94

Limits: 57-146 71-130

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