



# GETTLER-RYAN INC.

# TRANSMITTAL

November 22, 2004 G-R #386498

TO:

Mr. Robert Foss

Cambria Environmental Technology, Inc.

5900 Hollis Street, Suite A Emeryville, California 94608

FROM:

Deanna L. Harding

Project Coordinator Gettler-Ryan Inc.

6747 Sierra Court, Suite J Dublin, California 94568

CC: Ms. Karen Streich

ChevronTexaco Company P.O. Box 6012, Room K2256 San Ramon, California 94583

Chevron #206127 RE:

2301-2337 Blanding Avenue

Alameda, California

(Former Signal Oil Marine Terminal)

### WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	November 22, 2004	Groundwater Monitoring and Sampling Report Fourth Quarter - Event of October 22, 2004

#### 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 10, 2004, at which time the final report will be distributed to the following:

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

Enclosures



November 22, 2004 G-R Job #386498

Ms. Karen Streich ChevronTexaco Company P.O. Box 6012, Room K2256 San Ramon, CA 94583

RE: Fourth Quarter Event of October 22, 2004

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 T. Harding

Project Coordinator

Hagop Kevork P.E. No. C55734

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

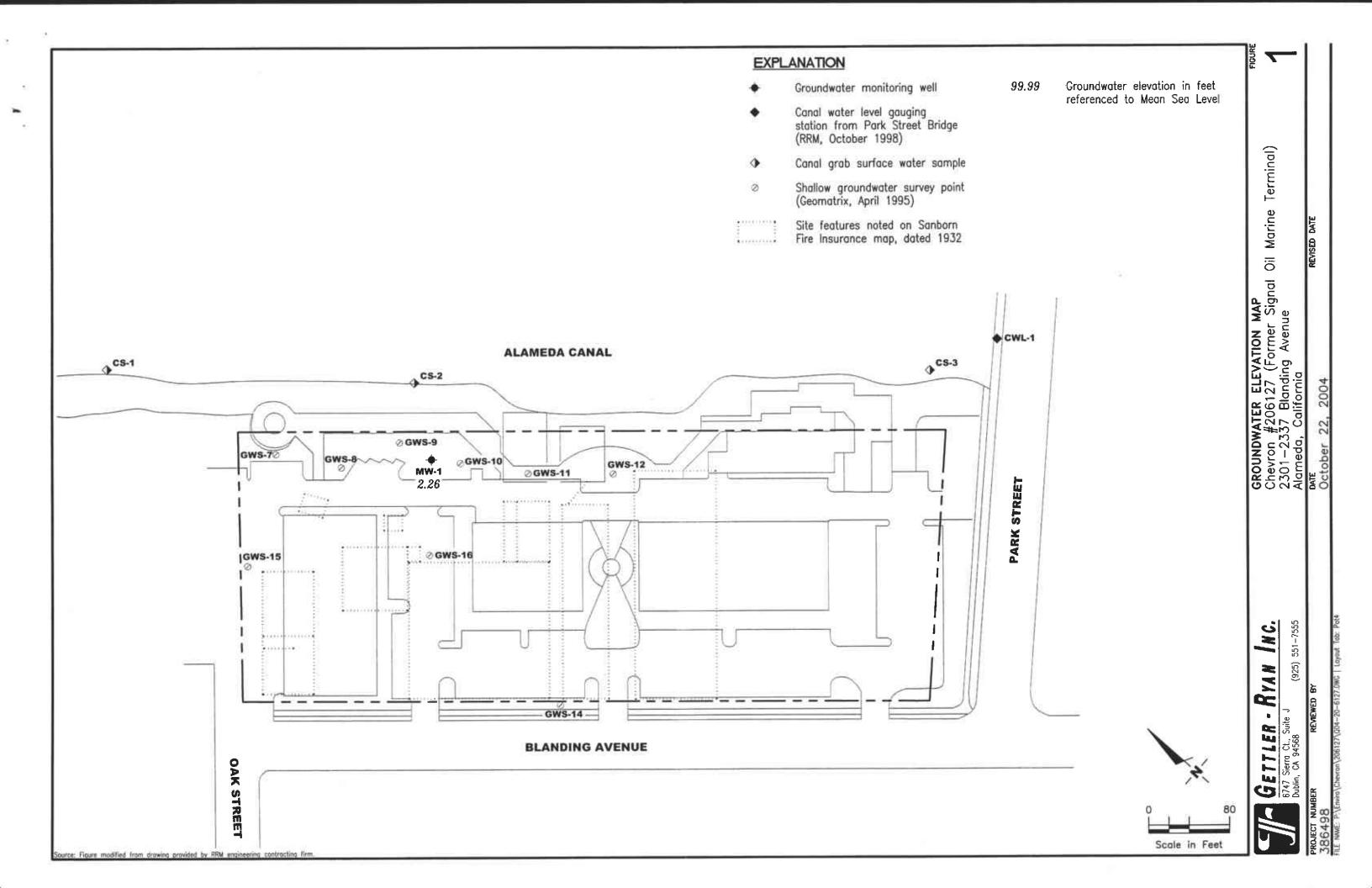


Table 1
Groundwater Monitoring Data and Analytical Results

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

Alameda, California

WELL ID/	TOC*	DTW	GWE	TPH-D	TPH-G	В	1	<b>E</b>	X	MTBE
DATE	(fi.)	(ft.)	(msl)	(pph)	(ррБ)	(ppb)	(ppb)	(ppb)	(pph)	(ppb)
			-							
MW-1										-250
01/23/01		7.16		$1,100^{2,3}$	5,210 <sup>4</sup>	868	<50.0	<50.0	<50.0	<250
04/09/01	10.62	8.12	2.50	1,200 <sup>6</sup>	3,0005	920	<20	<20	<20	<100
07/30/01	10.62	9.15	1.47	550 <sup>3,8</sup>	2,000 <sup>7</sup>	730	13	<5.0	<5.0	<25
10/08/01	10.62	7.86	2.76	2,2009	1,200	120	2.4	5.9	6.4	<2.5
01/13/02	10.62	7.02	3.60	$3,300^3$	930	320	0.78	0.87	3.8	<2.5
04/08/02	10.62	9.60	1.02	$1,200^3$	960	50	1.4	2.6	9.0	<2.5
07/31/02	10.62	9.27	1.35	$2,800^3$	930	64	1.4	1.9	11	<5.0
10/15/02	10.62	8.00	2.62	$1,000^3$	620	25	0.78	1.4	4.3	<2.5
01/14/03	10.62	7.05	3.57	960 <sup>3</sup>	1,600	20	1.3	1.3	<1.5	<2.5
04/15/03	10.62	8.02	2.60	920 <sup>3</sup>	870	56	1	1.4	3.1	<2.5
07/16/03 <sup>10</sup>	10.62	10.08	0.54	$1,400^3$	780	85	1	0.8	0.7	<0.5
10/18/03 <sup>10</sup>	10.62	8.51	2.11	1,200 <sup>3</sup>	640	42	0.8	< 0.5	0.5	< 0.5
01/22/04 <sup>10</sup>	10.62	8.95	1.67	1,500 <sup>3</sup>	440	18	< 0.5	<0.5	<0.5	< 0.5
04/23/04 <sup>10</sup>	10.62	8.95	1.67	2,200 <sup>3</sup>	410	10	<0.5	<0.5	<0.5	< 0.5
07/23/04 <sup>10</sup>	10.62	9.21	1.41	$1,800^{3}$	400	6	< 0.5	< 0.5	<0.5	<0.5
10/22/0410	10.62	8.36	2.26	$2,200^3$	150	2	< 0.5	< 0.5	<0.5	< 0.5
				•						
CS-2 07/30/01				140 <sup>3,5</sup>	<50	<0.50	< 0.50	<0.50	< 0.50	<2.5
10/08/01		**		53°	<50	<0.50	<0.50	<0.50	<1.5	<2.5
				<50 <sup>3</sup>	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/13/02				<50 77 <sup>3</sup>	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/08/02							<0.50	<0.50	<1.5	<2.5
07/31/02		<b></b>		<50 <sup>3</sup>	<50	<0.50 <0.50		<0.50	<1.5	<2.5
10/15/02				<50 <sup>3</sup>	<50		<0.50	<0.50 <0.50	<1.5	<2.5
01/14/03				<50 <sup>3</sup>	<50	<0.50	<0.50			<2.5 <2.5
04/15/03	••			<50 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<1.5	
07/16/03 <sup>10</sup>		••		<50 <sup>3</sup>	<50	<0.5	0.7	<0.5	0.6	<0.5
10/18/03 <sup>10</sup>			••	<50 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/22/0410				<50 <sup>3</sup>	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5

Table 1
Groundwater Monitoring Data and Analytical Results

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

Alameda, California

WELL ID/	TOC*	DTW	GWE	TPH-D	TPH-G	В	T	<b>t</b>	***************************************	MTBE
DATE	(ft.)	(ft.)	(msl)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(pph)	(pph)
CS-2 (cont)				3	-50	<0.5	< 0.5	<0.5	<0.5	<0.5
04/23/04 <sup>10</sup>				<50 <sup>3</sup>	<50			<0.5	<0.5	<0.5
07/23/04 <sup>10</sup>				<50 <sup>3</sup>	<50	<0.5	<0.5			<0.5
10/22/04 <sup>10</sup>	-			< 50 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<0.5	>0.53
Trip Blank								-		
TB-LB							.0.700	-0.500	-0.500	~3 FA
01/23/01		-			<50.0	<0.500	<0.500	<0.500	< 0.500	<2.50 <2.5
04/09/01					<50	< 0.50	<0.50	<0.50	<0.50	
07/30/01		••			<50	<0.50	<0.50	< 0.50	< 0.50	<2.5
QA										-0.4
10/08/01	••			<del></del>	<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			<del></del>		<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
04/15/03					<50	<0.5	< 0.5	< 0.5	<1.5	<2.5
07/16/03 <sup>10</sup>					<50	<0.5	<0.5	< 0.5	<0.5	< 0.5
10/18/03 <sup>10</sup>					<50	<0.5	<0.5	< 0.5	< 0.5	<0.5
01/22/0410					<50	<0.5	<0.5	< 0.5	<0.5	< 0.5
04/23/0410					<50	< 0.5	<0.5	< 0.5	<0.5	< 0.5
07/23/0410					<50	< 0.5	<0.5	< 0.5	< 0.5	< 0.5
10/22/04 <sup>10</sup>					<50	<0.5	<0.5	<0.5	<0.5	< 0.5

#### 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

TPH-G = Total Petroleum Hydrocarbons as Gasoline

(ppb) = Parts per billion

(ft.) = Feet

B = Benzene

-- = Not Measured/Not Analyzed

DTW = Depth to Water

T = Toluene

CS-2 = Creek Sample

GWE = Groundwater Elevation

E = Ethylbenzene

QA = Quality Assurance/Trip Blank

(msl) = Mean sea level

X = Xylenes

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).

- Well development performed.
- <sup>2</sup> Laboratory report indicates unidentified hydrocarbons <C16.
- 3 TPH-D with silica gel cleanup.
- <sup>4</sup> Laboratory report indicates weathered gasoline C6-C12.
- 5 Laboratory report indicates discrete peaks.
- 6 Laboratory report indicates diesel C9-C24 + unidentified hydrocarbons <C16.
- Laboratory report indicates gasoline C6-C12.
- 8 Laboratory report indicates unidentified hydrocarbons C9-C24.
- Analysis performed without silica gel cleanup although was requested on the Chain of Custody.
- 10 BTEX and MTBE by EPA Method 8260.

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



## WELL MONITORING/SAMPLING FIELD DATA SHEET

lient/Facility#:	ChevronTexaco	#20612	27	Job Number:	386498	
Site Address:	2301-2337 Bland			Event Date:	10-22-09	(inclusive
City:	Alameda, CA			Sampler:	Jo c	
лку. 	Admicua, OA					
Vell ID	MW-1	Date	e Monitored: <u>∕</u>	0-22 <u>-0d</u>	Well Condition:	<u></u>
Well Diameter	2 in.				1"= 0.04 2"= 0.17 3"= 0.3	10
	17.15 tt.		Volume Factor (VI	3/4"= 0.02 -) 4"= 0.66	1"= 0.04 2"= 0.17 3"= 0.3 5"= 1.02 6"= 1.50 12"= 5	
Total Depth			racioi (Vi	1 - 0.00		- <del></del> -
Depth to Water	8.36 ft. 8.79 xVF	Ø.1	7=149	x3 case volume=	Estimated Purge Volume: 4.5	gal.
	<u> </u>			, AD 0000 10.0	Time Started:	(2400 hrs)
Purge Equipment:		San	npling Equipmen	t:	Time Completed:	(2400 hrs)
Disposable Bailer		Disc	posable Bailer	· /	Depth to Product:	
Stainless Steel Baile	···	•	ssure Bailer		Depth to Water:	ft
Stack Pump		Disc	crete Bailer		Hydrocarbon Thickness:	,—π
Suction Pump		Oth	ier:		Visual Confirmation/Description	
Grundfos			•		Skimmer / Absorbant Sock (cir	cle one)
Other:	· · · · · · · · · · · · · · · · · · ·				Amt Removed from Skimmer:	gal
<u> </u>					Amt Removed from Well:	gal
					Water Removed: Product Transferred to:	
Purging Flow R Did well de-wat  Time (2400 hr.)  0 8 3 7	Volume (gal.) (f · 5		Conductivity (umhos/cm) × 0 · 26 0 · 27	Volume:		
		L	ABORATORY IN	FORMATION		
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYP	E LABORATO	* ************************************	360)
MW-1	€ x voa vial	YES	HCL	LANCASTE		260)
	2_ x Amber	YES	NP_	LANCASTE	R TPH-Dw/sg	
-			+			
<del></del>						
COMMENTS	:					

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #:	ChevronTexac	o #206127		Job Number:	386498		
Site Address:	2301-2337 Blai	nding Avenu	ue	Event Date:	10-22-0	4	(inclusiv
City:	Alameda, CA			Sampler:	Joe		•
Well ID	CS-2	Date Mo	nitored:		Well Condition:	Creek Samp	le
Well Diameter	in.		Volume	3/4"= 0.02	1"= 0.04 2"= 0.17	3*= 0.38	
Total Depth	ft.		Factor (VF		5"= 1.02 6"= 1.50	12"= 5.80	
Depth to Water	ft.						•
	x\	/F=		x3 case volume= l	Estimated Purge Volume:	gal	
D F		61:	- F	_	Time Started:		400 hrs)
Purge Equipment:			Equipment	:	Time Completed:		
Disposable Bailer		Disposab			Depth to Product: Depth to Water:		n
Stainless Steel Bailer	-	Pressure			Hydrocarbon Thickne		<del></del> "
Stack Pump Suction Pump	2	Discrete Other:			Visual Confirmation/D		
Grundfos					Skimmer / Absorbant	Sock (circle one)	<u> </u>
Other:					Amt Removed from S		
					Amt Removed from V		
					Water Removed: Product Transferred to		<del></del>
Start Time (purge	- \-	Monthor	Conditions	Clear			
	e): <u> </u>					none	•
Purging Flow Ra		Sediment D			<del></del>		
Did well de-wate		If yes, Time:	•		gal.		•
Bid from do trate		you,					•
Time (2400 hr.)	Volume	pH Cor	nductivity // (	Temperature (CÆ)	D.O. (mg/L)	ORP (mV)	
(2400 Hr.)	(gal.)	<b>\u</b> 1	iiilos/ciiiy	(CAL)	(111912)	·····	
	_ <del></del> -						
		LABOR	ATORY INF	ORMATION			
SAMPLE ID	(#) CONTAINER	REFRIG. PRE	SERV. TYPE			YSES	
CS-2	x voa vial	YES	HCL	LANCASTER		MTBE(8260)	_
	2 x Amber	YES	NP	LANCASTER	TPH-DW/sg		
						·	
COMMENTS:							
							•
						<u> </u>	
Add/Repla	ced Lock:		A	Add/Replaced P	lug: Siz	ze:	

# Chevron California Region Analysis Request/Chain of Custody

413	Lancaster Where quality is a	Laborat	ories
A.	Where quality is a	science.	,

102504-14

Acct. #: 10904 Sample #: 438 7507 - 09

Group# 917893

						4						,	Mai	yses	Ket	lnası	<b>a</b> u													
	00400 Ol-h	1.155.4			Τ	Matri	x						res	ervat	ion	Cod	98			$\Box$	Preserv	ative Code								
Facility #: SS#206127 G-R#3						# :			H	H	_					_	_		-		H = HC  N = HNO <sub>3</sub>	T = Thiosu B = NaOh								
Site Addre2301-2337 BLANDIN				<del></del>	┡	· 	<del>, -</del>				1							- 1	- 1		S = H <sub>2</sub> SO <sub>4</sub>	O = Other								
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2425 New Holland Pixe, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

#### 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 917893. Samples arrived at the laboratory on Tuesday, October 26, 2004. The PO# for this group is 99011184 and the release number is STREICH.

Client Description		<u>Lancaster Labs Number</u>
QA-T-041022	NA Water	4387507
MW-1-W-041022	Grab Water	4387508
CS-2-W-041022	Grab Water	4387509

1 COPY TO ELECTRONIC COPY TO Cambria C/O Gettler- Ryan

Gettler-Ryan

Attn: Deanna L. Harding Attn: Cheryl Hansen



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Questions? Contact your Client Services Representative Megan A Moeller at (717) 656-2300.

Respectfully Submitted,

Victoria M. Martell

Chemist



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Lancaster Laboratories Sample No. WW 4387507

QA-T-041022

Facility# 206127 Job# 386498

GRD

2301-2337 Blanding-Alamed T0600101574 QA

Collected:10/22/2004

Account Number: 10904

Submitted: 10/26/2004 08:45

ChevronTexaco

Reported: 11/05/2004 at 15:15

6001 Bollinger Canyon Rd L4310

Discard: 12/06/2004

San Ramon CA 94583

BLAQA

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of gasoline constituents eluting part time.					
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	i
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

		Laboratory	Chro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	10/27/2004 21:07	Michael F Barrow	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	11/05/2004 03:15	Roy R Mellott Jr	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/27/2004 21:07	Michael F Barrow	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/05/2004 03:15	Roy R Mellott Jr	n.a.



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4387508 Lancaster Laboratories Sample No.

MW-1-W-041022

Grab

Facility# 206127 Job# 386498 2301-2337 Blanding-Alamed T0600101574 MW-1

GRD

Collected:10/22/2004 08:50

Account Number: 10904

Submitted: 10/26/2004 08:45

ChevronTexaco

Reported: 11/05/2004 at 15:15 Discard: 12/06/2004

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

#### BLAM1

CAT	No. Annala Nama	CAS Number	As Received Result	As Received Method Detection	Units	Dilution Factor
No.	Analysis Name			Limit 50.	ug/1	1
01728	TPH-GRO - Waters	n.a.	150.	=	-3/-	
06610	The reported concentration of T gasoline constituents eluting I start time. TPH-DRO CALUFT(Water) w/Si Gel The surrogate recovery for the limits. Since the spike recovery	n.a. LCS associated	2,200. with this sampl	51. e is above QC	ug/l	2
06054	BTEX+MTBE by 8260B					
	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	. 1
02010		71-43-2	2.	0.5	ug/l	1
05401	Benzene	108-88-3	N.D.	0.5	ug/l	1
05407	Toluene	100-41-4	N.D.	0.5	ug/l	1
05415 06310	Ethylbenzene Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

		Laboratory	Chro	nicle Analysis		Dilution
CAT No. 01728	Analysis Name TPH-GRO - Waters	Method N. CA LUFT Gasoline	Trial#	Date and Time 10/27/2004 21:36	Analyst Michael F Barrow	Factor 1
06610	TPH-DRO CALUFT(Water) w/Si	Method CALUFT-DRO/8015E,	1	10/29/2004 14:49	Tracy A Cole	2
06054 01146 01163 02135	Gel BTEX+MTBE by 8260B GC VOA Water Prep GC/MS VOA Water Prep Extraction - DRO Water Special	Modified SW-846 8260B SW-846 5030B SW-846 5030B TPH by CA LUFT	1 1 1	11/05/2004 03:36 10/27/2004 21:36 11/05/2004 03:36 10/28/2004 04:10	Roy R Mellott Jr Michael F Barrow Roy R Mellott Jr David V Hershey Jr	1 1 n.a. 1



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Lancaster Laboratories Sample No. WW 4387509

CS-2-W-041022

Facility# 206127 Job# 386498

GRD

2301-2337 Blanding-Alamed T0600101574 CS-2

Collected:10/22/2004 08:15

Account Number: 10904

Submitted: 10/26/2004 08:45

ChevronTexaco

Reported: 11/05/2004 at 15:15

6001 Bollinger Canyon Rd L4310

Discard: 12/06/2004

San Ramon CA 94583

BLAC2

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
06610	The reported concentration of T gasoline constituents eluting p start time.  TPH-DRO CALUPT(Water) w/Si Gel The surrogate recovery for the limits. Since the spike recover	rior to the C6 n.a. LCS associated	(n-hexane) TPH-(	SRO range 50. e is above QC	ug/l	1
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

		Laboratory	Chro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	10/27/2004 22:05	Michael F Barrow	1
06610	TPH-DRO CALUFT(Water) w/Si Gel	CALUFT-DRO/8015B, Modified	1	10/29/2004 10:09	Tracy A Cole	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	11/05/2004 03:57	Roy R Mellott Jr	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/27/2004 22:05	Michael F Barrow	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/05/2004 03:57	Roy R Mellott Jr	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	10/28/2004 04:10	David V Hershey Jr	1



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## Quality Control Summary

Client Name: ChevronTexaco

Reported: 11/05/04 at 03:16 PM

Group Number: 917893

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

## Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank MDL	Report <u>Units</u>	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 043010003A TPH-DRO CALUFT(Water) w/Si Gel	Sample non N.D.	umber(s): 50.	4387508-43 ug/l	07509 99	94	61-126	5	20
Batch number: 04301A08B TPH-GRO - Waters	Sample n N.D.	umber(s): 50.	4387507-43 ug/l	87509 94	89	70-130	5	30
Batch number: Z043092AA Methyl Tertiary Butyl Ether Benzene Toluene Ethylbenzene Xylene (Total)	Sample n N.D. N.D. N.D. N.D. N.D.	umber(s): 0.5 0.5 0.5 0.5 0.5	4387507-43 ug/l ug/l ug/l ug/l ug/l	87509 93 97 100 101 99		77-127 85-117 85-115 82-119 83-113		

## Sample Matrix Quality Control

Analysis Name	MS <u>%REC</u>	MSD %REC	MS/MSD Limits	<u>rp</u> D	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 04301A08B TPH-GRO - Waters	Sample 114	number 115	(s): 438750 63-154	7-43875 l	30 30				
Batch number: Z043092AA Methyl Tertiary Butyl Ether Benzene Toluene Ethylbenzene Xylene (Total)	Sample 96 103 105 105 102	number 91 99 102 101 99	(s): 438750 69-134 83-128 83-127 82-129 82-130	7-43875 5 4 3 4 3	30 30 30 30 30 30				

#### Surrogate Quality Control

Analysis Name: TPH-DRO CALUFT(Water) w/Si Gel

Batch number: 043010003A Orthoterphenyl

4387508 107 4387509 105 Blank 96 LCS 133\* LCSD 124

\*- 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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## Quality Control Summary

Client Name: ChevronTexaco

57-128

Group Number: 917893

Reported: 11/05/04 at 03:16 PM

Surrogate Quality Control

	ame: TPH-GRO - er: 04301A08B Trifluorotolu			
4387507	101			 
4387508.	107			
4387509	100			
Blank	100			
LCS	111			
LCSD	111			
MS	100			
MSD	105			
			_	 

Limits:

Analysis Name: BTEX+MTBE by 8260B Batch number: Z043092AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4387507	96	98	97	93
4387508	96	96	97	95
4387509	98	98	99	94
Blank	95	99	98	92
LCS	94	96	97	98
MS	97	98	97	98
MSD	96	97	98	99
Limits:	81-120	82-112	85-112	83-113

#### \*- Outside of specification

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



# **Explanation of Symbols and Abbreviations**

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

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

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is ≥ the Method Detection Limit (MDL) and < the 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	Inorganic Qualifie		
TIO:	ь	Value is <crdl_but>IDL</crdl_but>	

Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
č	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
Ď	Compound quantitated on a diluted sample	N	Spike sample not within control limits
Ē	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
_	the instrument		for calculation
N	Presumptive evidence of a compound (TICs only)	Ų	Compound was not detected
P	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
u	Compound was not detected	+	Correlation coefficient for MSA < 0.995
_	•		
X,Y,Z	Defined in case narrative		

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.

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