



GETTLER-RYAN INC.

TRANSMITTAL Alameda County

December 3, 2002

DEC 26 2002

G-R #386521

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

Environmental Health

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: **Former Chevron Service Station
#209339
5940 College Avenue
Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	November 23, 2002	Groundwater Monitoring and Sampling Report Second Semi Annual - Event of October 15, 2002

COMMENTS:

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **December 18, 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 Gurs, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670
- Mr. Donald Sweet, San Francisco Property Management Co., 1375 Sutter St., Suite 308, San Francisco, CA 94109

Enclosures



GETTLER-RYAN INC.

November 23, 2002
G-R Job #386521

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

RE: Second Semi Annual Event of October 15, 2002
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #209339
5940 College Avenue
Oakland, 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). A joint monitoring event was scheduled but not conducted on the same day with Sheaff's Garage located at 5930 College Avenue, Oakland, California.

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, 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 wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are 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

Hagop Kevork
P.E. No. C55734

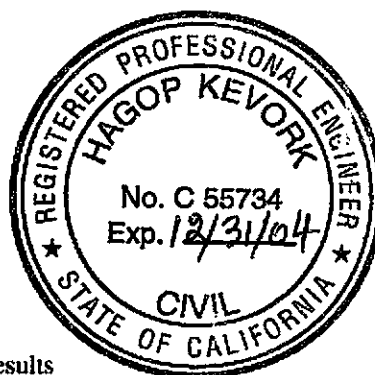
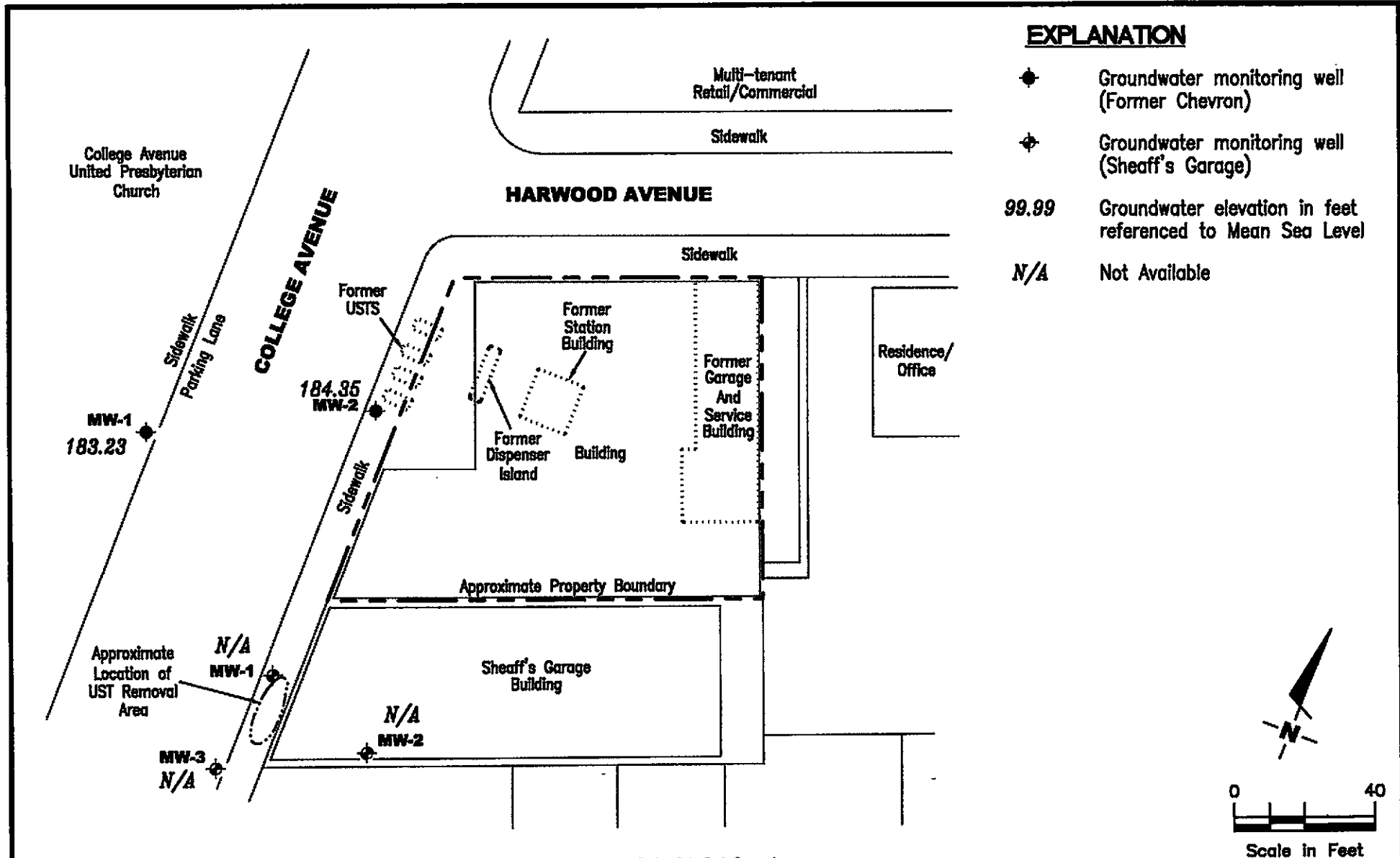
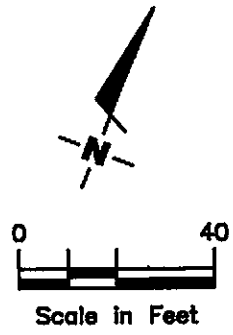


Figure 1: Groundwater Elevation Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Table 3: Groundwater Analytical Results
Table 4: Field Measurements
Table 5: Joint Groundwater Monitoring Data and Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



EXPLANATION

- ◆ Groundwater monitoring well (Former Chevron)
- ◆ Groundwater monitoring well (Sheaff's Garage)
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- N/A Not Available



Source: Figure modified from drawing provided by Piers Environmental Services, Inc. and County Assessors map and Golden Gate Tank Removal.

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

GROUNDWATER ELEVATION MAP
 Former Chevron Service Station #209339
 5940 College Avenue
 Oakland, California

FIGURE
1

PROJECT NUMBER 386521	REVIEWED BY	DATE October 15, 2002	REVISED DATE
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Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1									
196.91	01/03/01	12.75	184.16	930 ¹	2.9	6.9	2.7	7.6	14/<2.0 ³
	04/25/01	9.23	187.68	210 ⁴	2.0	1.5	2.0	3.3	5.3/<2.0 ³
	07/09/01	11.86	185.05	290 ⁵	1.8	2.0	2.5	0.96	<2.5
	10/08/01	13.49	183.42	200	<0.50	<0.50	<0.50	<1.5	<2.5
	01/13/02	7.33	189.58	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/08/02	7.45	189.46	670	<0.50	<2.0	<1.0	5.6	<2.5
	10/15/02	13.68	183.23	260	0.62	0.82	<0.50	<1.5	--
MW-2									
197.35	01/03/01	12.48	184.87	2,100 ²	110	11	63	25	83/2.2 ³
	04/25/01	8.90	188.45	1,700 ⁴	150	12	30	15	150/<2.0 ³
	07/09/01	11.44	185.91	2,500 ⁵	200	21	55	26	<50
	10/08/01	13.37	183.98	4,200	87	2.8	29	9.8	<2.5
	01/13/02	6.55	190.80	410	20	2.9	<2.5	4.4	27/<2.0 ³
	04/08/02	8.37	188.98	4,000	70	1.7	17	17	<2.5
	10/15/02	13.00	184.35	3,100	41	2.2	16	<6.0	--
TRIP BLANK									
TB-LB	01/03/01	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/25/01	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/09/01	--	--	<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	<0.50	<2.5
	04/08/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	10/15/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

(msl) = Mean sea level

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

QA = Quality Assurance

* TOC elevations were surveyed on December 27, 2000, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Oakland benchmark being a cut square in the top of curb, at the curb return at the northeast corner of College Avenue and Miles Avenue, (Benchmark Elev. = 179.075 feet. msl).

¹ Laboratory report indicates unidentified hydrocarbons C6-C12.

² Laboratory report indicates gasoline C6-C12.

³ MTBE by EPA Method 8260.

⁴ Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons <C6.

⁵ Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons C6-C12.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)
MW-1	01/03/01	<500	<50	<2.0	<2.0	<2.0	<2.0	<2.0
	04/25/01	--	<20	<2.0	<2.0	<2.0	<2.0	--
MW-2	01/03/01	<500	<50	2.2	<2.0	<2.0	<2.0	<2.0
	04/25/01	--	<20	<2.0	<2.0	<2.0	<2.0	--
	01/13/02	--	<20	<2.0	<2.0	<2.0	<2.0	--

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
(ppb) = Parts per billion
-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3
Groundwater Analytical Results
 Former Chevron Service Station #209339
 5940 College Avenue
 Oakland, California

WELL ID	DATE	FERROUS IRON (ppm)	TOTAL ALKALINITY (ppm)	SULFATE AS SO ₄ (ppm)
MW-1	04/25/01	0.15	380	11
	07/09/01	<0.050	410	6.8
	10/08/01	-- ¹	414	5.4
	01/13/02	<0.10 ²	390	10
MW-2	04/25/01	0.093	680	21
	07/09/01	0.44	600	9.3
	10/08/01	-- ¹	683	3.8
	01/13/02	<0.10 ²	630	7.0

EXPLANATIONS:

(ppm) = Parts per million

-- = Not Analyzed

¹ Analysis was not performed by the Laboratory as requested on the Chain of Custody.

² Due to sample transfer by the lab from laboratory to another, the sample was received beyond the EPA recommended holding time.

ANALYTICAL METHODS:

EPA Method SM 3500 Fe for Ferrous Iron

EPA Method 310.1 for Total Alkalinity

EPA Method 300.0 for Sulfate as SO₄

Table 4
Field Measurements
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID	DATE	D.O. Before Purging (mg/L)	ORP Before Purging (mV)
MW-1	07/09/01	1.25	111
	10/08/01	1.20	64
	01/13/02 ¹	--	--
MW-2	07/09/01	1.89	16
	10/08/01	1.04	58
	01/13/02 ¹	--	--

EXPLANATIONS:

D.O. = Dissolved Oxygen Concentration

(mg/L) = Milligrams per liter

ORP = Oxygen Reduction Potential

(mV) = Millivolt

-- = Not Measured

¹ D.O. and ORP meter erratic; measurements not taken.

Table 5
Joint Groundwater Monitoring Data and Analytical Results
 Sheaff's Garage
 5930 College Avenue
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1									
195.90	04/25/01 ¹	7.39	188.51	--	--	--	--	--	--
	07/09/01	9.72	186.18	79,000	15,000	7,800	3,000	15,000	660
	10/08/01	10.88	185.02	112,000	25,300	11,800	4,280	20,600	374
	01/07/02 ³	4.34	191.56	96,100	21,100	13,500	4,160	21,900	596/330 ²
	04/08/02	6.84	189.06	111,000	21,200	13,400	4,230	21,000	814
	10/23/02 ^{3,4}	--	--	--	--	--	--	--	--
MW-2									
197.28	04/25/01 ¹	8.52	188.76	--	--	--	--	--	--
	07/09/01	11.05	186.23	39,000	6,200	730	2,300	6,100	180
	10/08/01	12.79	184.49	40,700	6,310	399	2,100	5,320	6,460
	01/07/02 ³	4.92	192.36	59,600	10,300	3,250	4,180	14,400	366/170 ²
	04/08/02	8.40	188.88	66,700	10,200	2,670	3,840	13,200	583
	10/23/02 ^{3,4}	--	--	--	--	--	--	--	--
MW-3									
195.22	04/25/01 ¹	6.61	188.61	--	--	--	--	--	--
	07/09/01	8.85	186.37	12,000	39	10	690	1,600	35
	10/08/01	9.75	185.47	4,912.5	107.7	3.9	99.0	132.5	52.2
	01/07/02 ³	4.25	190.97	7,260	723	138	492	887	81.7/16.7 ²
	04/08/02	6.33	188.89	11,700	540	108	706	1,710	<0.5
	10/23/02 ^{3,4}	--	--	--	--	--	--	--	--

Table 5
Joint Groundwater Monitoring and Analytical Results
Sheaff's Garage
5930 College Avenue
Oakland, California

EXPLANATIONS:

Joint groundwater monitoring data and laboratory analytical results were provided by Golden Gate Tank Removal, Inc.

TOC = Top of Casing
(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

(msl) = Mean sea level

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

* TOC elevations were surveyed on April 26, 2001, by Virgil Chavez Land Surveying. The benchmark for the survey was a City of Oakland benchmark being a cut square in the top of curb, at the curb return at the northeast corner of College Avenue and Miles Avenue, (Benchmark Elevation = 179.075 feet, msl).

¹ Joint monitoring laboratory analytical results were not provided.

² MTBE by EPA Method 8260

³ Joint monitoring was conducted on different day than Chevron.

⁴ Joint monitoring data was not provided.

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 #209339 Job Number: 386521
 Site Address: 5940 College Avenue Event Date: 10.15.02 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-1
 Well Diameter: 2 in.
 Total Depth: 20.14 ft.
 Depth to Water: 13.68 ft.

Well Condition: OK

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

6.46 xVF .17 = 1.09 x3 (case volume) = Estimated Purge Volume: 3.29 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): 8:57 Weather Conditions: FOG
 Sample Time/Date: 9:10 / 10.15.02 Water Color: CLEAR Odor: YES
 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)	D.O. (mg/L)	ORP (mV)
<u>9:00</u>	<u>1.0</u>	<u>7.03</u>	<u>91</u>	<u>18.5</u>	_____	_____
<u>9:03</u>	<u>2.0</u>	<u>7.10</u>	<u>87</u>	<u>18.4</u>	_____	_____
<u>9:06</u>	<u>3.0</u>	<u>7.12</u>	<u>84</u>	<u>18.3</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX(8021)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

Add/Replaced Lock: _____

Add/Replaced Plug: Size: 2"



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209339 Job Number: 386521
 Site Address: 5940 College Avenue Event Date: 10-15-02 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-2 Well Condition: OK
 Well Diameter: 2 in.
 Total Depth: 20.10 ft.
 Depth to Water: 13.00 ft.
7.10 xVF .17 = 1.20 x3 (case volume) = Estimated Purge Volume: 3.62 gal.

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

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): 9:21 Weather Conditions: FOG
 Sample Time/Date: 9:38 / 10-15-02 Water Color: CLOUDY / LT. GREY Odor: YES
 Purging Flow Rate: NA gpm. Sediment Description: LITE SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (°C/°F)	D.O. (mg/L)	ORP (mV)
<u>9:24</u>	<u>1.0</u>	<u>7.02</u>	<u>89</u>	<u>19.0</u>		
<u>9:27</u>	<u>2.0</u>	<u>7.08</u>	<u>96</u>	<u>18.9</u>		
<u>9:30</u>	<u>3.5</u>	<u>7.11</u>	<u>98</u>	<u>18.7</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- <u>2</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX(8021)

COMMENTS: _____

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

Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only
 Acct. #: 10905 Sample #: 3921902-4 SCR#: _____

101602-008

gr # 827348

Facility #: <u>209339</u> Job # <u>386521</u> Global ID # <u>NA</u> Site Address: <u>5940 COLLEGE AVE., OAKLAND, CA</u> Chevron PM: <u>KS</u> Lead Consultant: <u>Delta/G-R</u> Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568</u> Consultant Prj. Mgr.: <u>Deanna L. Harding (Deanna@grinc.com)</u> Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: <u>FRANK TERZINOWI</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____				Matrix Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="10">Analyses Requested</th> </tr> <tr> <th colspan="10">Preservation Codes</th> </tr> <tr> <td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td> </tr> <tr> <td>BTEX +</td><td>8260</td><td>8021</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TPH 8015 MOD</td><td>GRO</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TPH 8015 MOD DRO</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>8260 full scan</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Oxygenates</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Lead 7420</td><td>7421</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>										Analyses Requested										Preservation Codes										H	H									BTEX +	8260	8021								TPH 8015 MOD	GRO									TPH 8015 MOD DRO										8260 full scan										Oxygenates										Lead 7420	7421									Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <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	
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Lead 7420	7421																																																																																																										
Sample Identification			Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX +	TPH 8015 MOD	TPH 8015 MOD DRO	8260 full scan	Oxygenates	Lead 7420	7421	Comments / Remarks																																																																																								
QA			10-15-02				W				2	X	X																																																																																														
MW-1			↓	0910	X		↓				3	X	X																																																																																														
MW-2			↓	0938	X		↓				3	X	X																																																																																														

Turnaround Time Requested (TAT) (please circle)		
<input checked="" type="radio"/> 24 hour <input type="radio"/> 72 hour <input type="radio"/> 48 hour <input type="radio"/> 5 day	<input type="radio"/> 72 hour <input type="radio"/> 4 day	<input type="radio"/> 48 hour <input type="radio"/> 5 day
Data Package Options (please circle if required)		
<input checked="" type="checkbox"/> QC Summary <input type="checkbox"/> Type VI (Raw Data) <input type="checkbox"/> WIP (RWQCB) <input type="checkbox"/> Disk	<input type="checkbox"/> Type I - Full <input type="checkbox"/> Coelt Deliverable not needed	

Relinquished by: <u>Frank Terzinow</u>	Date: <u>10-15-02</u>	Time: _____	Received by: <u>D Vane</u>	Date: <u>10/16/02</u>	Time: <u>1400</u>
Relinquished by: <u>D Vane</u>	Date: <u>10/16/02</u>	Time: <u>1400</u>	Received by: <u>Anches Amaze</u>	Date: <u>10-16-02</u>	Time: <u>1400</u>
Relinquished by: <u>Anches Amaze</u>	Date: <u>10-17-02</u>	Time: <u>1630</u>	Received by: <u>Fed Ex</u>	Date: <u>10-17-02</u>	Time: _____
Relinquished by Commercial Carrier: _____	UPS <input checked="" type="radio"/> FedEx <input type="radio"/> Other _____	Temperature Upon Receipt: <u>3.5</u> °C	Received by: <u>Devin Blk</u>	Date: <u>10/18/02</u>	Time: <u>0925</u>
			Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No		



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

RECEIVED

OCT 18 2002

GETTLER-RYAN, INC.
GENERAL CONTRACTOR

SAMPLE GROUP

The sample group for this submittal is 827348. 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

QA-T-021015	NA	Water
MW-1-W-021015	Grab	Water
MW-2-W-021015	Grab	Water

Lancaster Labs Number

3921902
3921903
3921904

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,

Steve Stabinger
Group Leader





Lancaster Laboratories Sample No. WW 3921902

Collected: 10/15/2002 00:00

Account Number: 10905

Submitted: 10/18/2002 09:25
 Reported: 10/28/2002 at 17:47
 Discard: 11/28/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

QA-T-021015 NA Water
 Facility# 209339 Job# 386521 GRD
 5940 College Ave Oakland NA QA

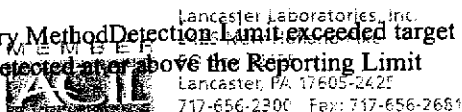
CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) 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.					
08213	BTEX (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
	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	10/22/2002 06:44	Linda C Pape	1
08213	BTEX (8021)	SW-846 8021B	1	10/22/2002 06:44	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/22/2002 06:44	Linda C Pape	n.a.

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





Lancaster Laboratories Sample No. **WW 3921903**

Collected: 10/15/2002 09:10 by FT

Account Number: 10905

Submitted: 10/18/2002 09:25
 Reported: 10/28/2002 at 17:47
 Discard: 11/28/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

MW-1-W-021015 Grab Water
 Facility#209339 Job# 386521 GRD
 5940 College Ave Oakland NA MW-1

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.	260.	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.						
08213	BTEX (8021)					
00776	Benzene	71-43-2	0.62	0.50	ug/l	1
00777	Toluene	108-88-3	0.82	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
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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	10/22/2002 23:13	Martha L Seidel	1
08213	BTEX (8021)	SW-846 8021B	1	10/22/2002 23:13	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/22/2002 23:13	Martha L Seidel	n.a.

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





Lancaster Laboratories Sample No. WW 3921904

Collected: 10/15/2002 09:38 by FT

Account Number: 10905

Submitted: 10/18/2002 09:25
 Reported: 10/28/2002 at 17:47
 Discard: 11/28/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

MW-2-W-021015 Grab Water GRD
 Facility#209339 Job# 386521
 5940 College Ave Oakland NA MW-2

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.	3,100.	100.	ug/l	2
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.						
08213	BTEX (8021)					
00776	Benzene	71-43-2	41.	0.50	ug/l	2
00777	Toluene	108-88-3	2.2	0.50	ug/l	2
00778	Ethylbenzene	100-41-4	16.	0.50	ug/l	2
00779	Total Xylenes	1330-20-7	N.D. #	6.0	ug/l	2

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.

Due to the presence of interferents near their retention time, normal reporting limits were not attained for total xylenes. The presence or concentration of these compounds cannot be determined below the reporting limits due to the presence of these interferents.

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	10/22/2002 23:47	Martha L Seidel	2
08213	BTEX (8021)	SW-846 8021B	1	10/22/2002 23:47	Martha L Seidel	2
01146	GC VOA Water Prep	SW-846 5030B	1	10/22/2002 23:47	Martha L Seidel	n.a.

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



Lancaster Laboratories, Inc.
 601 Fox 17425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681

Quality Control Summary

Client Name: ChevronTexaco
Reported: 10/28/02 at 05:47 PM

Group Number: 827348

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 02294A56B	Sample number(s): 3921902							
Benzene	N.D.	.2	ug/l	88	100	80-118	13	30
Toluene	N.D.	.2	ug/l	98	110	82-119	12	30
Ethylbenzene	N.D.	.2	ug/l	98	111	81-119	12	30
Total Xylenes	N.D.	.6	ug/l	100	113	82-120	12	30
TPH-GRO - Waters	N.D.	50.	ug/l	99	94	74-116	5	30
Batch number: 02295A16A	Sample number(s): 3921903-3921904							
Benzene	N.D.	.2	ug/l	111	113	80-118	2	30
Toluene	N.D.	.2	ug/l	107	110	82-119	3	30
Ethylbenzene	N.D.	.2	ug/l	106	108	81-119	3	30
Total Xylenes	N.D.	.6	ug/l	108	110	82-120	2	30
TPH-GRO - Waters	N.D.	50.	ug/l	107	102	74-116	4	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: 02294A56B	Sample number(s): 3921902							
Benzene	93		83-130					
Toluene	99		87-129					
Ethylbenzene	99		86-133					
Total Xylenes	99		86-132					
TPH-GRO - Waters	93		74-132					
Batch number: 02295A16A	Sample number(s): 3921903-3921904							
Benzene	115		83-130					
Toluene	113		87-129					
Ethylbenzene	110		86-133					
Total Xylenes	112		86-132					
TPH-GRO - Waters	95		74-132					

Surrogate Quality Control

Analysis Name: BTEX (8021)
Batch number: 02294A56B

	Trifluorotoluene-F	Trifluorotoluene-P
3921902	93	95
Blank	94	95
LCS	93	95
LCSD	99	95
MS	99	96

*- 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: 10/28/02 at 05:47 PM

Group Number: 827348

Surrogate Quality Control

Limits: 57-146 71-130

Analysis Name: BTEX (8021)
Batch number: 02295A16A

	Trifluorotoluene-F	Trifluorotoluene-P
3921903	123	118
3921904	131	103
Blank	106	118
LCS	123	118
LCSD	118	117
MS	128	117

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
717-656-2300 Fax: 717-656-2681