



GETTLER - RYAN INC.
TRANSMITTAL

November 22, 2004
 G-R #386521

TO: Mr. Bob Foss
 Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608

CC: Ms. Karen Streich
 ChevronTexaco Company
 P.O. Box 6012, Room K2256
 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
Alameda County
8940 College Avenue
Oakland, California
RO 0000466

DEC X 0 2004

Environmental Health

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	November 22, 2004	Groundwater Monitoring and Sampling Report Second Semi Annual - Event of October 22, 2004

COMMENTS:

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:

cc: Mr. Barney Chan, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
 Mr. Donald Sweet, San Francisco Property Management Co., 1375 Sutter St., Suite 308, San Francisco, CA 94109

Enclosures

trans/209339-KS



GETTLER - RYAN INC.

November 22, 2004
G-R Job #386521

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

RE: Second Semi Annual Event of October 22, 2004
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 conducted 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 Potentiometric 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

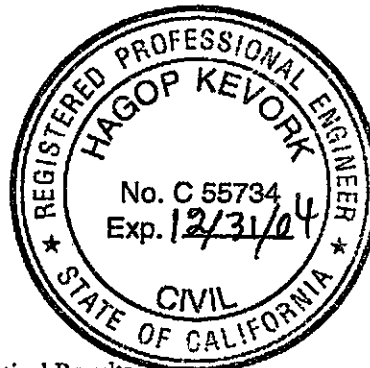
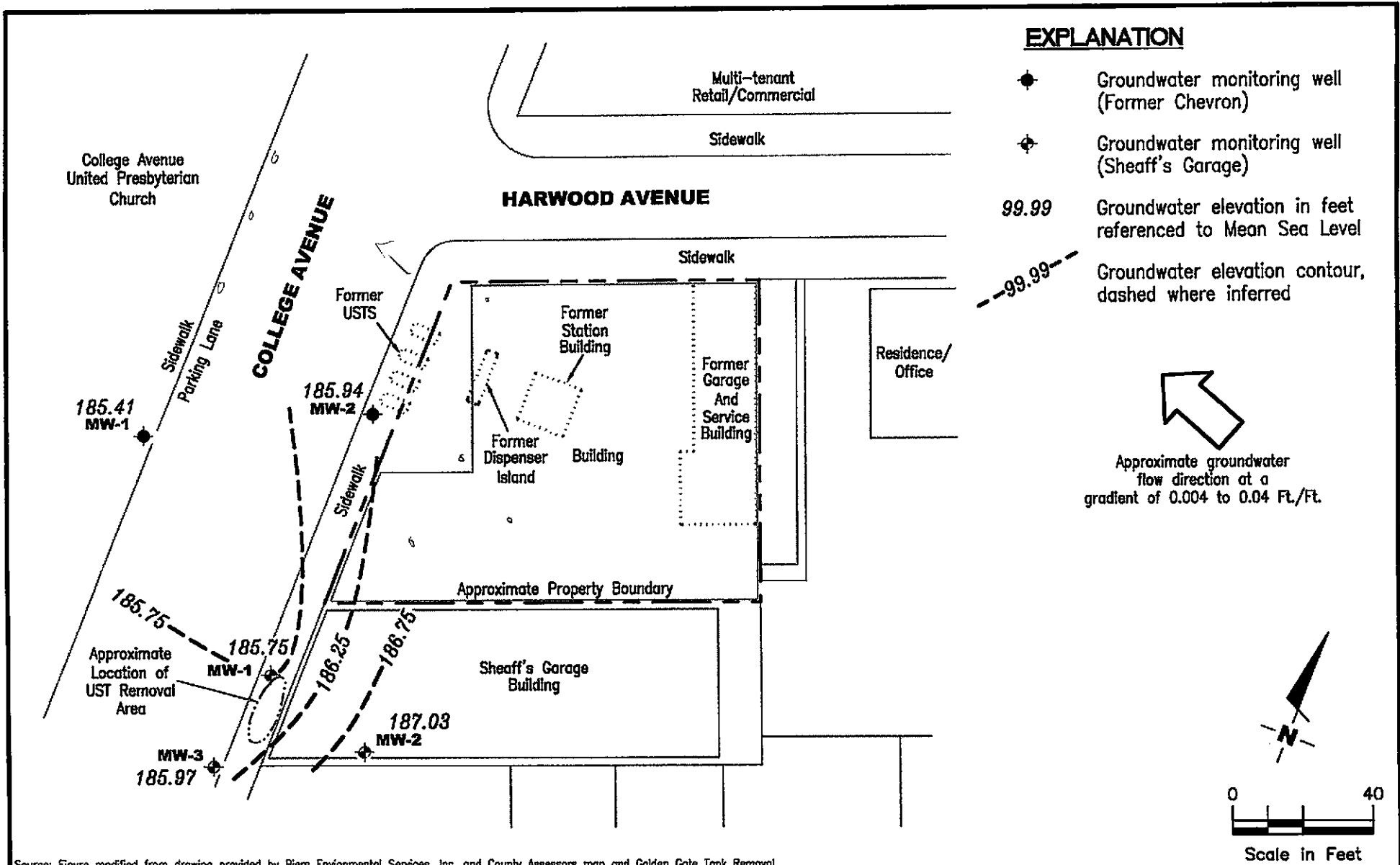


Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Table 3: Groundwater Analytical Results
Table 4: Field Measurements
Table 5: Joint Groundwater Monitoring Data and Analytical Results
Attachments: Standard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



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

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

FIGURE
1

PROJECT NUMBER 386521	REVIEWED BY	DATE October 22, 2004	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/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1									
01/03/01	196.91	12.75	184.16	930 ¹	2.9	6.9	2.7	7.6	14/<2.0 ³
04/25/01	196.91	9.23	187.68	210 ⁴	2.0	1.5	2.0	3.3	5.3/<2.0 ³
07/09/01	196.91	11.86	185.05	290 ⁵	1.8	2.0	2.5	0.96	<2.5
10/08/01	196.91	13.49	183.42	200	<0.50	<0.50	<0.50	<1.5	<2.5
01/13/02	196.91	7.33	189.58	<50	<0.50	<0.50	<0.50	<0.50	<2.5
04/08/02	196.91	7.45	189.46	670	<0.50	<2.0	<1.0	5.6	<2.5
10/15/02	196.91	13.68	183.23	260	0.62	0.82	<0.50	<1.5	--
04/15/03	196.91	6.82	190.09	1,700	1.3	<5.0	<2.0	<5.0	--
10/31/03	196.91	13.72	183.19	150	<2.0	0.7	<2.0	<5.0	--
04/23/04	196.91	9.02	187.89	<50	<0.5	<0.5	<0.5	<1.5	--
10/22/04	196.91	11.50	185.41	63	<0.5	<0.5	<0.5	<1.5	--
MW-2									
01/03/01	197.35	12.48	184.87	2,100 ²	110	11	63	25	83/2.2 ³
04/25/01	197.35	8.90	188.45	1,700 ⁴	150	12	30	15	150/<2.0 ³
07/09/01	197.35	11.44	185.91	2,500 ⁵	200	21	55	26	<50
10/08/01	197.35	13.37	183.98	4,200	87	2.8	29	9.8	<2.5
01/13/02	197.35	6.55	190.80	410	20	2.9	<2.5	4.4	27/<2.0 ³
04/08/02	197.35	8.37	188.98	4,000	70	1.7	17	17	<2.5
10/15/02	197.35	13.00	184.35	3,100	41	2.2	16	<6.0	--
04/15/03	197.35	7.58	189.77	2,400	37	<2.5	12	<7.5	--
10/31/03	197.35	13.02	184.33	2,300	12	3.4	4.8	<7.5	--
04/23/04	197.35	8.38	188.97	960	8.9	1.0	2.4	<1.5	--
10/22/04	197.35	11.41	185.94	2,200	24	<2.5	4.1	<10	--

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

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
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	--
04/15/03	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
10/31/03	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
04/23/04	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
10/22/04	--	--	--	<50	<0.5	<0.5	<0.5	<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	TPH-G = Total Petroleum Hydrocarbons as Gasoline B = Benzene	MTBE = Methyl tertiary butyl ether (ppb) = Parts per billion
DTW = Depth to Water	T = Toluene	-- = Not Measured/Not Analyzed
GWE = Groundwater Elevation (msl) = Mean sea level	E = Ethylbenzene X = Xylenes	QA = Quality Assurance/Trip Blank

* 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									
04/25/01 ¹	195.90	7.39	188.51	--	--	--	--	--	--
07/09/01	195.90	9.72	186.18	79,000	15,000	7,800	3,000	15,000	660
10/08/01	195.90	10.88	185.02	112,000	25,300	11,800	4,280	20,600	374
01/07/02 ³	195.90	4.34	191.56	96,100	21,100	13,500	4,160	21,900	596/330 ²
04/08/02	195.90	6.84	189.06	111,000	21,200	13,400	4,230	21,000	814
10/23/02 ^{3,4}	195.90	--	--	--	--	--	--	--	--
04/15/03 ⁵	195.90	--	--	--	--	--	--	--	--
10/31/03 ⁵	195.90	--	--	--	--	--	--	--	--
04/23/04 ⁴	195.90	--	--	--	--	--	--	--	--
10/22/04	195.90	10.15	185.75	80,700	13,900	1,670	3,550	15,200	493
MW-2									
04/25/01 ¹	197.28	8.52	188.76	--	--	--	--	--	--
07/09/01	197.28	11.05	186.23	39,000	6,200	730	2,300	6,100	180
10/08/01	197.28	12.79	184.49	40,700	6,310	399	2,100	5,320	6,460
01/07/02 ³	197.28	4.92	192.36	59,600	10,300	3,250	4,180	14,400	366/170 ²
04/08/02	197.28	8.40	188.88	66,700	10,200	2,670	3,840	13,200	583
10/23/02 ^{3,4}	197.28	--	--	--	--	--	--	--	--
04/15/03 ⁵	197.28	--	--	--	--	--	--	--	--
10/31/03 ⁵	197.28	--	--	--	--	--	--	--	--
04/23/04 ⁴	197.28	--	--	--	--	--	--	--	--
10/22/04	197.28	10.25	187.03	13,500	1,790	54	892	915	273
MW-3									
04/25/01 ¹	195.22	6.61	188.61	--	--	--	--	--	--
07/09/01	195.22	8.85	186.37	12,000	39	10	690	1,600	35
10/08/01	195.22	9.75	185.47	4,912.5	107.7	3.9	99.0	132.5	52.2
01/07/02 ³	195.22	4.25	190.97	7,260	723	138	492	887	81.7/16.7 ²
04/08/02	195.22	6.33	188.89	11,700	540	108	706	1,710	<0.5

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

WELL ID/ TOC*(fl.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3 (cont)									
10/23/02 ^{3,4}	195.22	--	--	--	--	--	--	--	--
04/15/03 ⁵	195.22	--	--	--	--	--	--	--	--
10/31/03 ⁵	195.22	--	--	--	--	--	--	--	--
04/23/04 ⁴	195.22	--	--	--	--	--	--	--	--
10/22/04	195.22	9.25	185.97	7,420	152	12.8	267	480	96

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.

⁵ Joint monitoring and sampling was scheduled but not conducted.

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.



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209339 Job Number: 386521
 Site Address: 5940 College Avenue Event Date: 10-22-04 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-1 Date Monitored: 10-22-04 Well Condition: OK
 Well Diameter: 2 in.
 Total Depth: 20.15 ft.
 Depth to Water: 11.50 ft.
8.65 xVF 0.17 = 1.47 x3 case volume = Estimated Purge Volume: 4.5 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 Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 0615 Weather Conditions: Foggy
 Sample Time/Date: 0640 10-22-04 Water Color: clear Odor: none
 Purging Flow Rate: 0.5 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) ^{x1.5}	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0622</u>	<u>1.5</u>	<u>6.97</u>	<u>2.11</u>	<u>63.7</u>	_____	_____
<u>0625</u>	<u>3</u>	<u>7.10</u>	<u>2.24</u>	<u>64.7</u>	_____	_____
<u>0629</u>	<u>4.5</u>	<u>7.16</u>	<u>2.26</u>	<u>64.5</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS:

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209339 Job Number: 386521
 Site Address: 5940 College Avenue Event Date: 10-22-09 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-2 Date Monitored: 10-22-09 Well Condition: OK
 Well Diameter: 2 in.
 Total Depth: 20.10 ft.
 Depth to Water: 11.41 ft.
 Volume Factor (VF) table:

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 8.69 \times 0.17 = 1.48 x3 case volume = Estimated Purge Volume: 4.5 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 Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 0647 Weather Conditions: Foggy
 Sample Time/Date: 0713/10-22-09 Water Color: clear Odor: yes
 Purging Flow Rate: 0.5 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (μ mhos/cm) $\times 1000$	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0655</u>	<u>1.5</u>	<u>6.72</u>	<u>0.69</u>	<u>65.0</u>	_____	_____
<u>0658</u>	<u>2</u>	<u>6.71</u>	<u>0.62</u>	<u>64.7</u>	_____	_____
<u>0703</u>	<u>4.5</u>	<u>6.67</u>	<u>0.64</u>	<u>64.8</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3</u> x voa 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: _____

Chevron California Region Analysis Request/Chain of Custody



102504-13

Acct. #: 10904

For Lancaster Laboratories use only
Sample #: 4387504-06

Group# 917892
SCR#:

Facility #: SS#209339 G-R#386521 Global ID#
 Site Address: 5940 COLLEGE AVENUE, OAKLAND, CA
 Chevron PMS _____ Lead Consultant: GAMBRIA
 Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568
 Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
 Consultant Phone: 925-551-7555 Fax: 925-551-7899
 Sampler: **JOE ASEMIAN**
 Service Order #: _____ Non SAR:

Matrix

Soil Potable NIPDES
 Water Air

Total Number of Containers

Analyses Requested		Preservation Codes									
H	H										
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	BTEX	<input checked="" type="checkbox"/>	8021							
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TPH 8015 MOD	<input checked="" type="checkbox"/>	GRO							
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TPH 8015 MOD DRO	<input type="checkbox"/>	Silica Gel Cleanup							
		8260 full scan									
		Oxygenates									
		Lead 7420	<input type="checkbox"/>	7421							

Preservative Codes

H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ 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

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
QA	-	-	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
MW-1	10-22-04	0640	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
MW-2	"	0713	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)

STD. 24 hour 72 hour 48 hour
 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I — Full
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by: <i>[Signature]</i>	Date: 10-22-04	Time: 1125	Received by:	Date:	Time:
Relinquished by: <i>[Signature]</i>	Date: 10/25/04	Time: 1410	Received by: <i>[Signature]</i>	Date: 10/26/04	Time: 1410
Relinquished by: <i>[Signature]</i>	Date: 10/26/04	Time: 1600	Received by: <i>[Signature]</i>	Date: 10/26/04	Time: 1645
Relinquished by Commercial Carrier: UPS FedEx Other _____	Temperature Upon Receipt: 1.0-2.5°		Received by: <i>[Signature]</i>	Date: 10-26-04	Time: 0845
			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

SAMPLE GROUP

The sample group for this submittal is 917892. Samples arrived at the laboratory on Tuesday, October 26, 2004. The PO# for this group is 99011184 and the release number is STREICH.

<u>Client Description</u>		<u>Lancaster Labs Number</u>
QA-T-041022	NA Water	4387504
MW-1-W-041022	Grab Water	4387505
MW-2-W-041022	Grab Water	4387506

1 COPY TO
ELECTRONIC
COPY TO

Cambria C/O Gettler- Ryan
Gettler-Ryan

Attn: Deanna L. Harding
Attn: Cheryl Hansen



Analysis Report

2425 New Holland Fk, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

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

Respectfully Submitted,

A handwritten signature in cursive script that reads 'Dana M. Kauffman'.

Dana M. Kauffman
Group Leader



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

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Lancaster Laboratories Sample No. WW 4387504

QA-T-041022 NA Water
 Facility# 209339 Job# 386521 GRD
 5940 College-Oakland 209339 QA
 Collected: 10/22/2004

Account Number: 10904

Submitted: 10/26/2004 08:45
 Reported: 10/28/2004 at 17:15
 Discard: 11/28/2004

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 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.	n.a.	N.D.	50.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1

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	10/28/2004 01:00	Linda C Pape	1
05879	BTEX	SW-846 8021E	1	10/28/2004 01:00	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030E	1	10/28/2004 01:00	Linda C Pape	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4387505

MW-1-W-041022 Grab Water
 Facility# 209339 Job# 386521 GRD
 5940 College-Oakland 209339 MW-1
 Collected: 10/22/2004 06:40 by JA

Account Number: 10904

Submitted: 10/26/2004 08:45
 Reported: 10/28/2004 at 17:16
 Discard: 11/28/2004

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.	63.	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.						
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1

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	10/28/2004 02:06	Linda C Pape	1
05879	BTEX	SW-846 8021B	1	10/28/2004 02:06	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/28/2004 02:06	Linda C Pape	1

Lancaster Laboratories Sample No. WW 4387506

 MW-2-W-041022 Grab Water
 Facility# 209339 Job# 386521 GRD
 5940 College-Oakland 209339 MW-2
 Collected: 10/22/2004 07:13 by JA

Account Number: 10904

 Submitted: 10/26/2004 08:45
 Reported: 10/28/2004 at 17:16
 Discard: 11/28/2004

 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.	2,200.	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.					
05879	BTEX					
02161	Benzene	71-43-2	24.	2.5	ug/l	5
02164	Toluene	108-88-3	N.D.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	4.1	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	N.D.	10.	ug/l	5

The reporting limits were raised because sample dilution was necessary to bring the internal standard peak area into the calibration range of the system.

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for total xylenes. The presence or concentration of this compound cannot be determined due to the presence of this interferent.

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	10/28/2004 02:38	Linda C Pape	1
05879	BTEX	SW-846 8021E	1	10/28/2004 05:36	Linda C Pape	5
01146	GC VOA Water Prep	SW-846 5030E	1	10/28/2004 02:38	Linda C Pape	1

Quality Control Summary

 Client Name: ChevronTexaco
 Reported: 10/28/04 at 05:16 PM

Group Number: 917892

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 Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 04300A51B	Sample number(s): 4387504-4387506							
TPH-GRO - Waters	N.D.	50.	ug/l	109	108	70-130	1	30
Benzene	N.D.	0.5	ug/l	103	103	79-123	0	30
Toluene	N.D.	0.5	ug/l	103	102	82-119	1	30
Ethylbenzene	N.D.	0.5	ug/l	105	104	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	107	107	82-120	1	30

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: 04300A51B	Sample number(s): 4387504-4387506								
TPH-GRO - Waters	119		63-154						
Benzene	117		78-131						
Toluene	114		78-129						
Ethylbenzene	112		75-133						
Total Xylenes	113		86-132						

Surrogate Quality Control

Analysis Name: BTEX

Batch number: 04300A51B

	Trifluorotoluene-F	Trifluorotoluene-F
4387504	102	102
4387505	103	103
4387506	117	98
Blank	99	103
LCS	104	101
LCSD	103	101
MS	104	107
Limits:	57-146	72-128

*- 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.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(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 \geq 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 Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

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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