RO-466

GETTLER-RYAN INC.

TRANSMITTAL

November 28, 2001
G-R #386521

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

CC: Mr. Thomas Bauhs
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 16, 2001	Groundwater Monitoring and Sampling Report Fourth Quarter - Event of October 8, 2001

COMMENTS:

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***December 11, 2001***, 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., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670

Enclosures

trans/20-9339-TB

GETTLER-RYAN INC.

November 16, 2001
G-R Job #386521

Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

RE: Fourth Quarter Event of October 8, 2001
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

Dear Mr. Bauhs:

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.

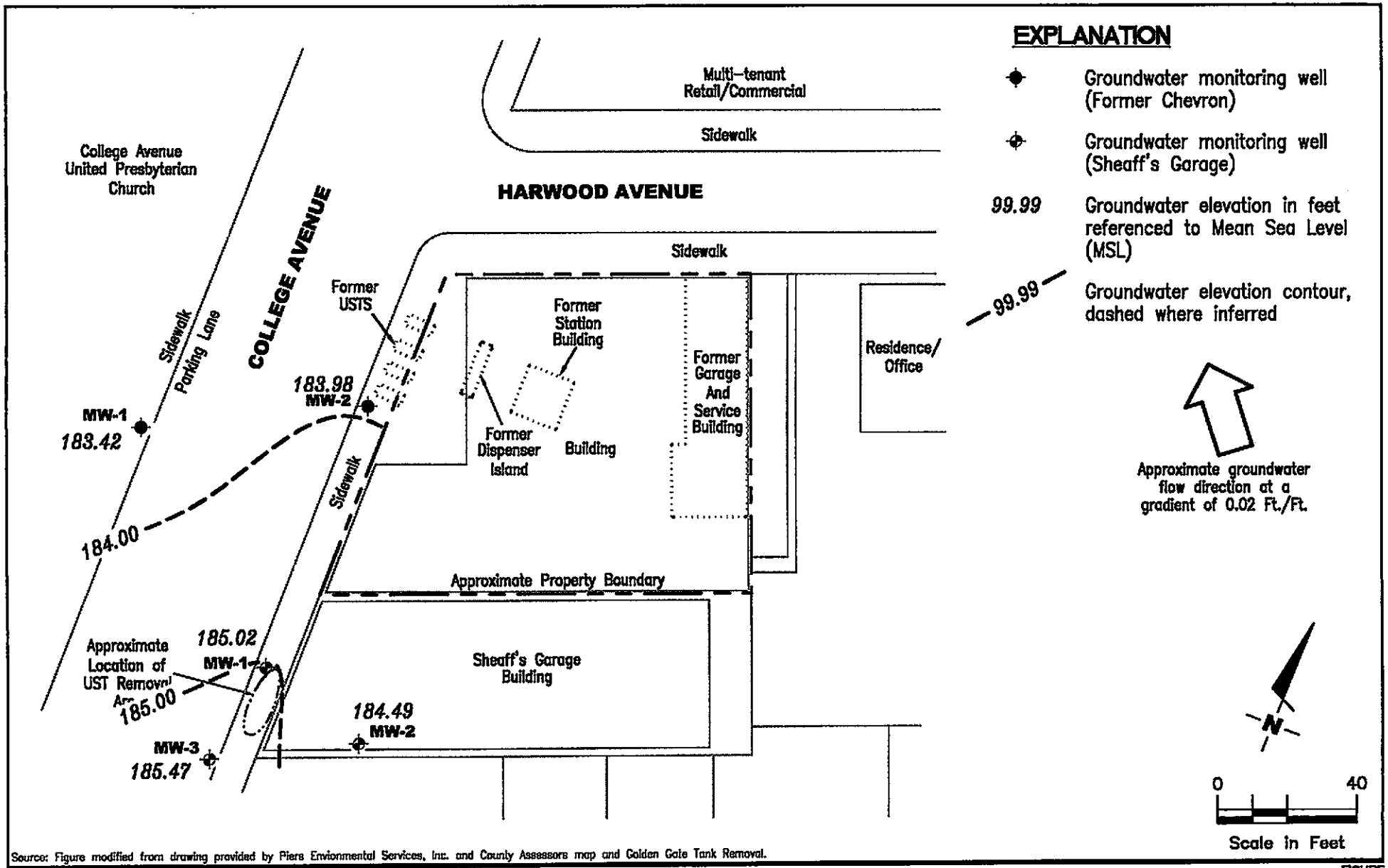
Sincerely,

Deanna L. Harding
-FOR-
Project Coordinator

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

REGISTERED GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

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	REVIEWED BY	DATE	REVISED DATE
386521		October 8, 2001	

FILE NAME: P:\Enviro\Chevron\209339\Q01-20-9339.DWG | Layout Tab: Pot4

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #209339

5940 College Avenue

Oakland, California

WELL ID/ TOC*	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**
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**
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**

Table 1

Groundwater Monitoring Data and Analytical Results

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

EXPLANATIONS:

TOC = Top of Casing
DTW = Depth to Water
(ft.) = Feet
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	--

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**
MW-2	04/25/01	0.093	680	21
	07/09/01	0.44	600	9.3
	10/08/01	--[1]	**683**	**3.8**

EXPLANATIONS:

(ppm) = Parts per million

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

ANALYTICAL METHODS:

EPA Method 6010 for Ferrous Iron

EPA Method 310.1 for Total Alkalinity

EPA Method 300.0 for Sulfate as SO_4

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**
MW-2	07/09/01	1.89	16
	10/08/01	**1.04**	**58**

EXPLANATIONS:

D.O. = Dissolved Oxygen Concentration
(mg/L) = Milligrams per liter
ORP = Oxygen Reduction Potential
(mV) = Millivolt

Table 5

Joint Groundwater Monitoring Data and Analytical Results

Sheaff's Garage
5930 College Avenue
Oakland, California

WELL ID/ TOC*	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**
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**
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**

EXPLANATIONS:

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

TOC = Top of Casing
DTW = Depth to Water
(ft.) = Feet
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.

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.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Chevron #209339 Job#: 386251

Address: 5940 College Ave. Date: 10.8.01

City: Oakland, CA Sampler: FRANK T.

Well ID MW-1 Well Condition: O'K'

Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 20.10 ft.

Depth to Water 13.49 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

6.61 x VF .17 = 1.12 X 3 (case volume) = Estimated Purge Volume: 3.37 (gal.)

Purge Equipment: (Disposable Bailer) Bailer Stack Suction Grundfos Other:

Sampling Equipment: (Disposable Bailer) Bailer Pressure Bailer Grab Sample Other:

Starting Time: 10:15 Weather Conditions: CLOUDY

Sampling Time: 10:32 Water Color: CLEAR Odor: NO

Purging Flow Rate: N/A gpm. Sediment Description:

Did well de-water? NO If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:18	1.0	6.90	404	66.1	PRE: 1.20	64	
10:21	2.0	6.84	367	65.2			
10:24	3.0	6.81	351	65.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x VOA VIAL	Y	HCL	Lancaster	TPHG/BTEX/MTBE/
	1 x 500 ML PLASTIC	"	NP	"	SULFATE/ALK.
	1 x 500 ML PLASTIC	"	NP	"	FERROUS IRON

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # Chevron #209339 Job#: 386251

Address: 5940 College Ave. Date: 10.8.01

City: Oakland, CA Sampler: FRANK T.

Well ID MW-2 Well Condition: OK

Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 20.06 ft

Depth to Water 13.37 ft

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

6.69 x VF .17 = 1.13 X 3 (case volume) = Estimated Purge Volume: 3.41 (gal.)

Purge Equipment: (Disposable Bailer) Bailer, Stack, Suction, Grundfos, Other:

Sampling Equipment: (Disposable Bailer) Bailer, Pressure Bailer, Grab Sample, Other:

Starting Time: 10:57

Sampling Time: 11:15

Purging Flow Rate: N/A gpm.

Did well de-water? NO

Weather Conditions: SUNNY

Water Color: CLOUDY | LT TAN Odor: YES

Sediment Description: LITE SILT

If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
11:00	1.0	7.03	536	68.6	1.04	58	
11:03	2.0	6.94	477	66.7			
11:07	3.0	6.86	443	65.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	6 x VOA VIAL	Y	HCL	Lancaster	TPHG | BTEX | MTBE |
	1 x 500 mL PLASTIC	"	NP	"	SULFATE | ALK. |
	1 x 500 mL PLASTIC	"	NP	"	FERROUS IRON

COMMENTS:

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

091001-002

For Lancaster Laboratories use only
Acct. #: 10905 Sample #: 3266657-6658 SCR#:

Facility #: 209339 JOB #386521
Site Address: 5940 College Ave., Oakland, CA]
Chevron PM: Thomas Bauhs Lead Consultant: Delta/G-R
Consultant/Office: G-R Inc. 6747 Sierra Ct. Dublin, CA 94568
Consultant Prj. Mgr.: Deanna L. Harding Deanna@grinc.com
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: Frank Terrinoni
Service Order #: ☐ Non SAR:

Analyses Requested / Preservation Codes: H, H

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☒	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐	FERROUS IRON*	ALKALINITY / SULFATE
QA	10.8.01					W		2	X	X						
MW-1	↓	1032	X			↓		8	X	X					X	X
MW-2	↓	1115	X			↓		8	X	X					X	X

Matrix: ☐ Potable ☐ NPDES

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy s on highest hit
☒ Run 5 oxy s on all hits

Comments / Remarks
* PLEASE PRESERVE AND FILTER FERROUS IRON.

Turnaround Time Requested (TAT) (please circle)
(STD. TAT) 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I — Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
Frank Terrinoni	10.9.01		Andres Amaya	10-9-01	0830
Andres Amaya	10-9-01	1510	Fed Ex		
Relinquished by Commercial Carrier: UPS (FedEx) Other			[signature]	10/10/01	0920
Temperature Upon Receipt 2.5 3.5°			Custody Seals Intact? (Yes) No		

3460 Rev. 7/30/01

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Analysis Report

Lancaster Laboratories
Where quality is a science.

ANALYTICAL RESULTS

Prepared for:

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904
925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 782161. Samples arrived at the laboratory on Wednesday, October 10, 2001. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description			Lancaster Labs Number
QA-W-011008	NA	Water	3706657
MW-1-W-011008	Grab	Water	3706658
MW-2-W-011008	Grab	Water	3706659

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

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,

Erik J. Frederiksen
Group Leader

CASE NARRATIVE

Prepared For:

Thomas Bauhs
Chevron Products Company
6001 Bollinger Canyon Road
Building L
P.O. Box 6004
San Ramon, CA 94583-0904

Prepared By:

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

SAMPLE GROUP

The sample group for this submittal is 782161. Samples arrived at the laboratory on Wednesday, October 10, 2001.

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

COMMENTS

Due to the nature of the sample matrix for sample MW-2 from Facility 209339, the surrogate standard recovery is above the range of specifications for the TPH-GRO analysis.

Due to the nature of the sample matrix for sample MW-2 from Facility 209339, normal reporting limits were not attained for the BTEX/MTBE (8021) analysis.

Analysis Report

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3706657

Collected:10/08/2001 00:00

Account Number: 10905

Submitted: 10/10/2001 09:55
Reported: 10/24/2001 at 16:25
Discard: 11/24/2001
QA-W-011008 NA Water

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 209339 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 N. California (waters)					
01730	TPH-GRO N. California (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.					
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

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 N. California (waters)	N. CALIF. LUFT Gasoline Method	1	10/16/2001 07:04	Linda C. Pape	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	10/16/2001 07:04	Linda C. Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/16/2001 07:04	Linda C. Pape	n.a.

Analysis Report

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3706658

Collected:10/08/2001 10:32 by FT

Account Number: 10905

Submitted: 10/10/2001 09:55
Reported: 10/24/2001 at 16:25
Discard: 11/24/2001
MW-1-W-011008 Grab Water

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 209339 GRD
5940 College Ave-Oakland NA NA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00201	Alkalinity to pH 8.3	n.a.	N.D.	410.	ug/l	1
00202	Alkalinity to pH 4.5	n.a.	414,000.	410.	ug/l	1
00228	Sulfate	14808-79-8	5,400.	1,500.	ug/l	5
01729	TPH-GRO N. California (waters)					
01730	TPH-GRO N. California (waters)	n.a.	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.					
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

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00201	Alkalinity to pH 8.3	EPA 310.1	1	10/22/2001 18:14	Elaine F. Stoltzfus	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	10/22/2001 18:14	Elaine F. Stoltzfus	1
00228	Sulfate	EPA 300.0	1	10/16/2001 17:56	Mark A. Buckwalter	5
01729	TPH-GRO N. California (waters)	N. CALIF. LUFT Gasoline Method	1	10/16/2001 12:51	Melissa Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	10/16/2001 12:51	Melissa Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/16/2001 12:51	Melissa Mann	n.a.

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Analysis Report

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3706659

Collected:10/08/2001 11:15 by FT

Account Number: 10905

Submitted: 10/10/2001 09:55
Reported: 10/24/2001 at 16:25
Discard: 11/24/2001
MW-2-W-011008 Grab Water

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 209339 GRD
5940 College Ave-Oakland NA NA

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00201	Alkalinity to pH 8.3	n.a.	N.D.		410.	ug/l	1
00202	Alkalinity to pH 4.5	n.a.	683,000.		410.	ug/l	1
00228	Sulfate	14808-79-8	3,800.	J	1,500.	ug/l	5
01729	TPH-GRO N. California (waters)						
01730	TPH-GRO N. California (waters)	n.a.	4,200.		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. Due to the nature of the sample matrix, the surrogate standard recovery is above the range of specifications.						
08214	BTEX, MTBE (8021)						
00776	Benzene	71-43-2	87.		1.0	ug/l	5
00777	Toluene	108-88-3	2.8	J	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	29.		1.0	ug/l	5
00779	Total Xylenes	1330-20-7	9.8	J	3.0	ug/l	5
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.		2.5	ug/l	5
	Due to the nature of the sample matrix, normal reporting limits were not attained.						

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
00201	Alkalinity to pH 8.3	EPA 310.1	1	10/22/2001 18:14	Elaine F. Stoltzfus	1

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Lancaster Laboratories Sample No. WW 3706659

Collected:10/08/2001 11:15 by FT

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Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 209339 GRD
5940 College Ave-Oakland NA NA

00202	Alkalinity to pH 4.5	EPA 310.1	1	10/22/2001 18:14	Elaine F. Stoltzfus	1
00228	Sulfate	EPA 300.0	1	10/16/2001 18:11	Mark A. Buckwalter	5
01729	TPH-GRO N. California (waters)	N. CALIF. LUFT Gasoline Method	1	10/16/2001 13:26	Melissa Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	10/17/2001 01:47	Linda C. Pape	5
01146	GC VOA Water Prep	SW-846 5030B	1	10/16/2001 13:26	Melissa Mann	n.a.

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Quality Control Summary

Client Name: Chevron Products Company
Group Number: 782161
Reported: 10/24/01 at 04:26 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 01288A56	Sample number(s): 3706657-3706659							
Benzene	N.D.	0.5	ug/l	105	110	80-118	4	30
Toluene	N.D.	0.5	ug/l	109	115	82-119	5	30
Ethylbenzene	N.D.	0.5	ug/l	106	112	81-119	5	30
Total Xylenes	N.D.	1.5	ug/l	107	113	82-120	5	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	114	118	79-127	3	30
TPH-GRO N. California (waters)	N.D.	50.	ug/l	108	105	76-119	2	20
Batch number: 01289289101B	Sample number(s): 3706658-3706659							
Sulfate	N.D.	300.	ug/l	99		89-110		
Batch number: 01289A56	Sample number(s): 3706659							
Benzene	N.D.	0.5	ug/l	107	101	80-118	5	30
Toluene	N.D.	0.5	ug/l	106	99	82-119	7	30
Ethylbenzene	N.D.	0.5	ug/l	109	101	81-119	8	30
Total Xylenes	N.D.	1.5	ug/l	109	101	82-120	7	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	114	114	79-127	0	30
Batch number: 01295020201A	Sample number(s): 3706658-3706659							
Alkalinity to pH 4.5				101		98-103		

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: 01288A56	Sample number(s): 3706657-3706659								
Benzene	110	111	66-140	1	30				
Toluene	110	111	72-138	1	30				
Ethylbenzene	114	114	71-138	1	30				
Total Xylenes	113	113	69-140	1	30				
Methyl tert-Butyl Ether	114	121	60-145	6	30				
TPH-GRO N. California (waters)	112	111	74-132	0	20				
Batch number: 01289289101B	Sample number(s): 3706658-3706659								
Sulfate	102		90-110			688.	692.	1	2
Batch number: 01289A56	Sample number(s): 3706659								
Benzene	116		66-140						
Toluene	118		72-138						
Ethylbenzene	119		71-138						
Total Xylenes	118		69-140						
Methyl tert-Butyl Ether	120		60-145						
Batch number: 01295020201A	Sample number(s): 3706658-3706659								
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)	3
Alkalinity to pH 4.5	101	100	50-137	1	3	206.	205.	0	3

*- 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: Chevron Products Company
Reported: 10/24/01 at 04:26 PM

Group Number: 782161

Surrogate Quality Control

Analysis Name: TPH-GRO N. California (waters)
Batch number: 01288A56

	Trifluorotoluene-F	Trifluorotoluene-P
3706657	109	97
3706658	112	95
3706659	152*	
Blank	103	97
LCS	116	98
LCSD	115	98
MS	118	96
MSD	114	97
Limits:	65-137	72-134

Analysis Name: TPH-GRO N. California (waters)
Batch number: 01289A56

	Trifluorotoluene-F	Trifluorotoluene-P
3706659		91
Blank	103	96
LCS	116	97
LCSD	115	98
MS	122	96
Limits:	65-137	72-134

*- 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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