

Q. Soil disposition? \*  
• Copy of City of Oakland's Inspection 5544

## T R A N S M I T T A L

TO: Mr. Larry Seto  
Alameda County Health Care Services  
1153 Harbor Bay Pkwy, Suite 250  
Alameda, California 94502-6577

DATE: May 23, 2001  
PROJ. #: DG26145C.4C02  
SUBJECT: Report (Tank Renewals)  
Former Chevron Facility No.  
20-6145  
800 Center Street  
Oakland, California

FROM:

Hagop Kevork  
Civil Engineer  
Gettler-Ryan Inc.  
6747 Sierra Court, Suite J  
Dublin, California 94568

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	May 21, 2001	Report of Soil Sampling During UST Removal

THESE ARE TRANSMITTED as checked below:

- For review and comment       Approved as submitted       Resubmit \_\_ copies for approval  
 As requested       Approved as noted       Submit \_\_ copies for distribution  
 For approval       Return for corrections       Return \_\_ corrected prints  
 For Your Files

COMMENTS:

At the request of Chevron Products Company, we are sending one copy of the referenced report for your files. If you have any questions, please call me at (925) 551-7555, ext. 172.

cc: Mr. Thomas Bauhs, Chevron Products Company



3164 Gold Camp Drive  
Suite 200  
Rancho Cordova, CA 95670-6021  
U.S.A.  
916/638-2085  
FAX: 916/638-8385

May 21, 2001

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

**Subject: Compliance Soil Sampling During Removal of Underground Storage Tanks at Former Chevron (Signal Oil) Service Station No. 20-6145, 800 Center Street, Oakland, California.**

Dear Mr. Bauhs:

At the request of Chevron Products Company (Chevron), Delta Environmental Consultants Inc. Network Associate Gettler-Ryan Inc. (GR) conducted a soil investigation during removal of underground storage tanks (USTs) at Former Chevron Service Station #20-6145. The purpose was to evaluate whether the soil near the former gasoline and waste oil USTs has been impacted by hydrocarbons. The scope of work included: observing removal of the former USTs; collecting and analyzing soil samples from the UST pit excavations; and preparing a report documenting the work.

#### **SITE DESCRIPTION**

The subject site was a former service station located at 800 Center Street in Oakland, California. A Site Vicinity Map is included as Figure 1. Aboveground facilities have been previously demolished and removed from the site. Seven groundwater monitoring wells (located at and in the vicinity of the site) are monitored and sampled quarterly. Pertinent site features and the existing monitoring wells are shown on Figure 2.

#### **SUMMARY OF ENVIRONMENTAL WORK**

The information discussed below was obtained from files provided by Chevron. Three subsurface investigations have been performed at the subject site. In 1989, Subsurface Consultants Inc. drilled five soil borings (1 through 5) to depths between 4.5 and 26 feet below ground surface (bgs). Temporary wells were installed in two of these borings. Borings 1 through 4 were installed in the vicinity of the former USTs, the dispenser island, and sumps along the eastern property boundary. Concentrations up to 14,000 parts per million (ppm) of Total Petroleum Hydrocarbons as diesel (TPHd), up to 31,000 ppm of Total Petroleum Hydrocarbons as gasoline (TPHg) and up to 500 ppm of benzene were detected in soil collected from depths up to 15 feet bgs. One sample from 3.5 feet bgs in boring 5, situated near the hydraulic hoist, contained 16,000 ppm oil and grease. Grab groundwater samples were collected from borings 1 and 3. TPHd was not detected in either sample. The sample from boring 3 contained benzene (340 parts per billion, or ppb).

DG26145C.4C02

### UST Removal and Compliance Soil Sampling

Former Chevron Service Station # 20 - 6145  
800 Center Street  
Oakland, California

Groundwater Technology Inc. drilled three soil borings (SB-1 through SB-3) to 12 feet bgs and installed four groundwater monitoring wells (MW-1 through MW-4) to 15 feet bgs in 1995. Concentrations of TPHg (up to 14,000 ppm) and benzene (up to 120 ppm) were detected in soil samples collected at 5 and 10 feet bgs in borings SB-1, SB-2 and MW-1. TPHg or benzene was not detected in soil samples from borings SB-3 or MW-2 through MW-4 (except for 0.24 ppm of benzene in the sample from boring MW-3 at 10 feet bgs).

Pacific Environmental Group advanced 5 soil vapor points (SV-1 through SV-5) to depths up to 12 feet bgs in 1997. Petroleum hydrocarbons were detected in soil samples collected from all borings at concentrations up to 8,000 ppm of TPHg and 52 ppm of benzene. Soil vapor samples from these borings contained up to 50,000 micrograms per liter ( $\mu\text{g/l}$ ) of TPHg and 65  $\mu\text{g/l}$  of benzene. The highest soil vapor concentrations were encountered in soil between 6 and 10 feet bgs.

In 1999, Chevron contracted GR to remove the dispenser island, sumps, hydraulic hoist, building foundations, trash enclosure, yard lights and asphalt remaining at the site. This work was initiated in September 1999. At that time, GR encountered one 1,000 gallon UST in the area of the former fuel UST pit along the western property boundary, adjacent to Center Street. One 550 gallon waste oil UST was encountered in front of the existing station building situated along the eastern property boundary. One buried 55 gallon steel drum, apparently used as some sort of UST, was encountered in the vicinity of the hydraulic hoist inside the station building. At that time, work at the site was discontinued while negotiations between Chevron and the property owner were initiated on UST ownership. The USTs were not removed, and compliance samples were not collected. Locations of the USTs are shown on Figure 2. [Also on that date, well MW-5 contained TPHg (3,000 ppb), benzene (20 ppb), and diesel-range hydrocarbons (1,390 ppb)]

Quarterly monitoring since, October 1995, confirm that hydrocarbons are present in the groundwater. Depth to water fluctuates from approximately 5 to 10 feet below ground surface. Groundwater generally flows from northeast to southwest.

### **FIELD WORK**

Sampling was performed in accordance with the GR Field Methods and Procedures (attached), and the Site Safety Plan. All soil samples collected during this investigation were delivered under chain-of-custody to Sequoia Analytical in Walnut Creek, California (ELAP #1271). Soil sample locations are shown on Figure 2. Analytical methods and results are summarized in Table 1. Copies of the laboratory analytical reports and chain-of-custody record are attached. Mr. Stephen W. Craford of the City of Oakland Fire Services Agency (COFSA) and Mr. Terrell A. Sadler, the property owner, were present at the site to observe former UST removal and sample collection. UST removal activities were performed by the property owner's contractor W.A.Craig, Inc. of Dixon, California. A copy of UST closure certification is attached.

### UST Removal and Compliance Soil Sampling

Former Chevron Service Station # 20 - 6145  
800 Center Street  
Oakland, California

### **Gasoline and Waste Oil UST Removal and Soil Sampling**

On April 12, 2001, one 1,000-gallon gasoline UST, one 550-gallon waste oil UST, the former hydraulic hoist, and one 55 gallon empty steel drum (encountered in the vicinity of the hydraulic hoist) were removed from the site by the contractor. Prior to UST removal, approximately 250 gallons of waste oil were pumped from the waste oil UST and transported by Clearwater Environmental Management, Inc. of Union City, California to their facility for proper disposal. A copy of Clearwater's Bill of Lading # 38264 is attached. The tanks were made of single-wall steel. Upon removal, the USTs were visually inspected for evidence of failure. Holes were not observed in the gasoline tank. One hole (approximately 0.75 inch in diameter) was observed in the waste oil tank. The USTs were removed from the site and transported by the contractor to SimsMetal USA Corporation of Sacramento, California. A copy of the SimsMetal weight ticket for the tanks is attached.

not sampled

Limits of the former gasoline and waste oil UST pits are shown on Figure 2. Native soil in the vicinity of the former gasoline and waste oil USTs consisted primarily of clayey silt. Groundwater was not encountered in the excavations.

Soil was retrieved from the base of each UST pit with a backhoe. Soil samples were collected from the backhoe bucket as described in the attached Field Methods and Procedures. Reconnaissance field screening of the soil samples was not performed. Backfill material removed from the UST pits during excavation was left at the site pending further excavation work at the site.

Two soil samples, labeled A-1 and A-2, were collected from beneath the former gasoline UST at depths of approximately 8.5 feet below ground surface (bgs). One soil sample, labeled WOT, was collected from beneath the former waste oil UST at a depth of approximately 8.0 feet bgs. All soil samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), and Methyl tert-butyl ether (MTBE). In addition, soil sample WOT was also analyzed for Total Petroleum Hydrocarbons as diesel (TPHd), Oil and Grease (O&G), Volatile Organic Compounds (VOCs), Semi-Volatile Organics (SVOs), and the metals cadmium, chromium, lead, nickel, and zinc.

Soil samples A-1 and A-2 from the gasoline UST pit showed concentrations of TPHg at 630 ppm and 32 ppm, and benzene at 10 ppm and 0.11 ppm, respectively. MTBE (by method 8020) was detected in sample A-2 at 0.38 ppm. The soil sample WOT from the former waste oil UST pit showed concentrations of TPHg, benzene and MTBE (by method 8020) at 10 ppm, 0.0092 ppm and 0.058 ppm, respectively. MTBE confirmation analysis by method 8260 was not performed. VOCs and SVOs were all non-detectable. TPHd and O&G were detected at 3.2 ppm (reported as Unidentified Hydrocarbons C9-C40) and 110 ppm, respectively. Total lead was not detected. Analytical results are summarized in Table 1.

UST Removal and Compliance Soil Sampling

Former Chevron Service Station # 20 - 6145  
800 Center Street  
Oakland, California

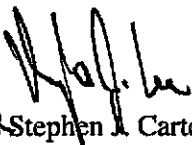
The service station operation at the subject site was closed in 1973, prior to the use of MTBE in gasoline. Confirmation analysis by EPA Method 8260 for groundwater samples from existing monitoring wells have shown no detectable concentrations of MTBE. Based on these analyses and the site history, it is unlikely that MTBE is present at the subject site.

If you should have any questions please call us in Dublin at (925) 551-7555.

Sincerely,  
Gettler-Ryan Inc.



Hagop Kevork  
Civil Engineer  
P.E. C55734



FOR Stephen A. Carter  
Senior Geologist  
R.G. 5577



Attachments: Table 1. Analytical Results  
Figure 1. Vicinity Map  
Figure 2. Site Plan/Sample Location Map  
GR Field Methods and Procedures  
Clearwater Bill of Lading # 38264  
Hazardous Waste Tank Closure Certification  
SimsMetal USA Corporation's weight ticket # TQS202  
Laboratory Analytical Reports and Chain-of-Custody Records

**Table 1. Soil Chemical Analytical Data**  
 Former Chevron (Signal Oil) Service Station # 20-6145  
 800 Center Street  
 Oakland, California

Sample ID	Sample Date	Sample Depth (feet)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)	Lead (ppm)	TPHd (ppm)	O&G (ppm)	VOCs (ppm)	SVOs (ppm)
<b>Gasoline UST Pit</b>													
A-1	4/12/01	8.5	630 <sup>1</sup>	10 <sup>2</sup>	4.4	15	48	<5.0	NR	NR	NR	NR	NR
A-2	4/12/01	8.5	32 <sup>1</sup>	0.11	0.04	0.37	0.98	0.38	NR	NR	NR	NR	NR
<b>Waste Oil UST Pit</b>													
WOT	4/12/01	8	10 <sup>1</sup>	0.0092	0.040	0.058	0.24	0.058	<1.0 <sup>3</sup>	3.2 <sup>2</sup>	110	ND	ND

**Explanation:**

TPHg = Total Petroleum Hydrocarbons as gasoline  
 TPHd = Total Petroleum Hydrocarbons as diesel  
 BTEX = Benzene, toluene, ethylbenzene, and xylenes  
 MTBE = Methyl tert-butyl ether  
 O&G = Oil and Grease  
 VOCs = Volatile organic compounds  
 SVOs = Semi-volatile organics  
 ND = None of the constituent compounds were detected  
 NR = Analysis not requested  
 ppm = Parts per million

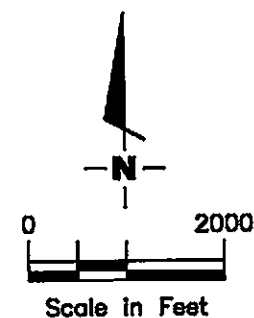
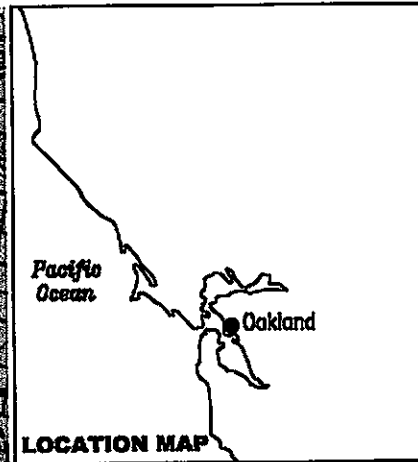
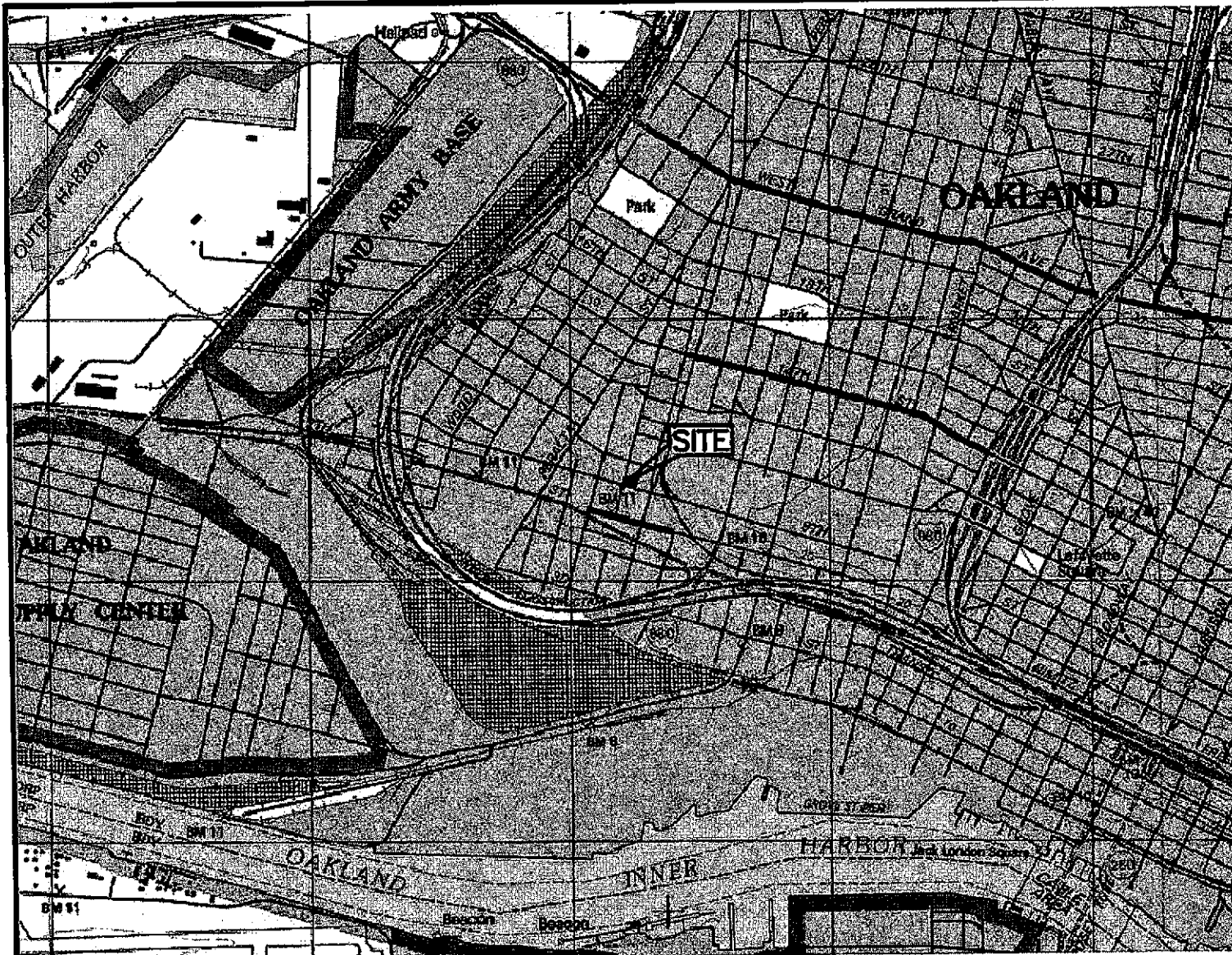
**Analytical Methods**

TPHg/Benzene/MTBE = EPA Methods 5030/8015 Mod.  
 TPHd = EPA Methods 3550/8015 Mod.  
 O&G = Standard Method 5520E&F  
 VOCs = EPA Method 8010B  
 SVOs = EPA Method 8270C  
 metals = EPA 6000/7000 Series Methods

**Analytical Laboratory**  
 Sequoia Analytical (ELAP #1271)

**Notes**

- <sup>1</sup> Laboratory report indicates gasoline C6-C12.
- <sup>2</sup> Laboratory report indicates unidentified hydrocarbons C9-C40.
- <sup>3</sup> Also analyzed for cadmium (<0.50 ppm), chromium (60 ppm), nickel (52 ppm), and zinc (38 ppm).



Source: National Geographic California Seamless USGS Topographic Maps on CD-ROM.

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

**VICINITY MAP**  
 Former Chevron (Signal Oil) Service Station No. 20-6145  
 800 Center Street  
 Oakland, California

FIGURE

1

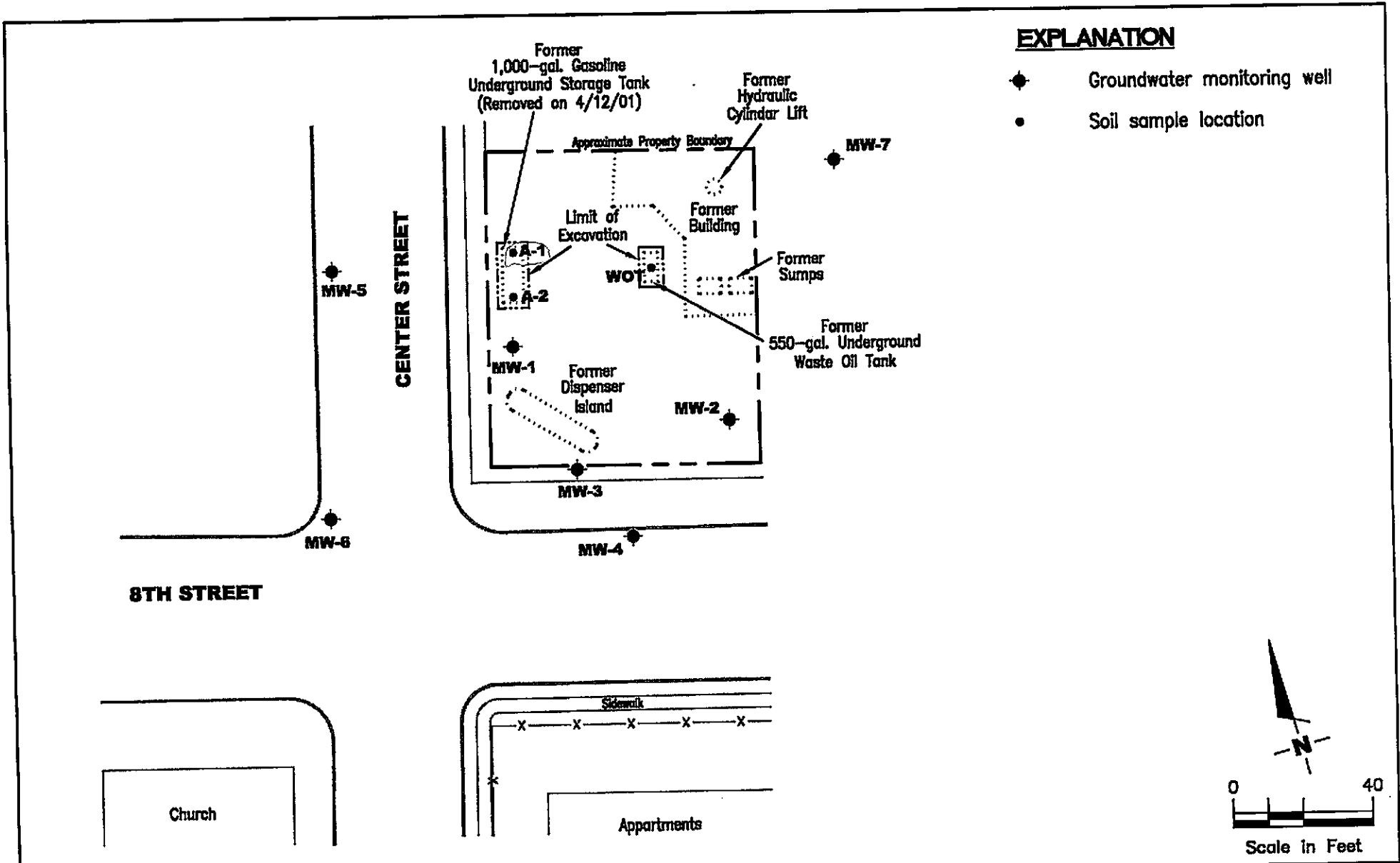
PROJECT NUMBER  
 DG26145C.4C02

REVIEWED BY

DATE  
 5/01

REVISED DATE

FILE NAME: P:\ENVIRO\CHEVRON\20-6145\VIC-20-6145.DWG | Layout Tab: CA-North



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

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

**SITE PLAN/SAMPLE LOCATION MAP**  
 Former Chevron (Signal Oil) Service Station No 20-6145  
 800 Center Street  
 Oakland, California

FIGURE  
**2**

PROJECT NUMBER: DG26145C.4C01      REVIEWED BY:      DATE: 5/01      REVISED DATE:



## **GETTLER-RYAN INC.**

### **FIELD METHODS AND PROCEDURES**

#### **Site Safety Plan**

Field work performed by Gettler-Ryan Inc. (GR) is conducted in accordance with GR's Health and Safety Plan and the Site Safety Plan. GR personnel and subcontractors who perform work at the site are briefed on the contents of these plans prior to initiating site work. The GR geologist or engineer at the site when the work is performed acts as the Site Safety Officer. GR utilizes a photoionization detector (PID) to monitor ambient conditions as part of the Health and Safety Plan.

#### **Collection of Samples**

Soil samples are collected from the wall or base of the excavation with a hand-driven sampling device fitted with a 2-inch-diameter, clean brass tube or stainless steel liner. If safety considerations preclude collection of the samples with the drive sampler, the excavating equipment is used to bring soil from the pit wall to the surface, where a sample tube is filled by driving it into the soil in the excavator's bucket. After removal from the sampling device, sample tubes are covered on both ends with teflon sheeting, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory.

If it is necessary to collect a sample of groundwater standing in the UST pit, the sample is collected by lowering a new, clean teflon bailer into the pit from a safe position along the pit wall. Once filled and retrieved, the groundwater in the bailer is carefully decanted into the appropriate containers supplied by the analytical laboratory. If required, preservative is added to the sample bottles by the laboratory prior to delivery. The samples are then labeled and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory.

#### **Field Screening of Soil Samples**

A PID is used to perform head-space analysis in the field for the presence of organic vapors from soil samples. This test procedure involves placing a small amount of the soil to be screened in a sealable plastic bag. The bag is warmed in the sun to allow organic compounds in the soil sample to volatilize. The PID probe is inserted through the wall of the bag and into the headspace inside, and the meter reading is recorded in the field notes. An alternative method involves placing a plastic cap over the end of the sample tube. The PID probe is placed through a hole in the plastic cap, and vapors with the covered tube measured. Head-space screening is performed and results recorded as reconnaissance data only. GR does not consider field screening techniques to be verification of the presence or absence of hydrocarbons.

#### **Storing and Sampling of Soil Stockpiles**

Excavated material is stockpiled on and covered with plastic sheeting. Stockpile samples are collected and analyzed for disposal classification on the basis of one composite sample per 100 cubic yards of soil. Stockpile samples are composed of four discrete soil samples, each collected from an arbitrary location on the stockpile. The four discrete samples are then composited in the laboratory prior to analysis. Each discrete stockpile sample is collected by removing the upper 12 to 18 inches of soil, and then driving the stainless steel or brass sample tube into the stockpiled material with a mallet or drive sampler. The sample tubes are then covered on both ends with teflon sheeting, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Stockpiled soils are covered with plastic sheeting after completion of sampling.

JOB 3976  
CL 8020-8050

CO-1



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Date 4-12-01

BILLING INFORMATION



JOB SITE

NAME <b>W.A. CRAIG INC</b>			NAME <b>TERRELL SADLER</b>			PO # <b>3976</b>	CASH	CHECK
ADDRESS <b>6940 TREMONT RD.</b>			ADDRESS <b>800 CENTER ST.</b>			CUSTOMER EPA ID #		
CITY <b>DIXON</b>	STATE <b>CA</b>	ZIP <b>95620</b>	CITY <b>OAKLAND</b>	STATE <b>CA</b>	ZIP	PROFILE #		
PHONE NO. <b>(707) 693-2929</b>			PHONE NO.			CUSTOMER ID NO:		

PRODUCT	PROPER SHIPPING DESCRIPTION	WASTE CODE	MANIFEST NUMBER	QUANTITY	UNITS	PRICE	AMOUNT
Used Oil, Non-RCRA Hazardous Waste, Liquid		221					
Used Automotive Antifreeze, Non-RCRA Hazardous Waste, Liquid		134					
Oily Water Non RCRA Hazardous Waste Liquid		223	99643945	250	G		
Non RCRA Hazardous Waste Solid Oil Contaminated Debris / Soil							
Waste Combustible Liquid nos 3 UN1993, PG III							
Non Hazardous Waste Liquid							
Non Hazardous Waste Solid							
Transportation Charges				4	HR		
Washout Charges							
Drained Used Oil Filters							
Empty Drums							
Additional Labor							
Pressure Washer							
Other							

DISPOSAL/RECYCLING FACILITY:						TOTAL	
<input checked="" type="checkbox"/>	Aliso Independent Oil 5002 Archer Street, Aliso, CA CAL 000 181 743, 95002 (510) 797-8511	<input type="checkbox"/>	McKerick Waste Treatment Site 56823 Hwy 68 West, McKittrick, CA CAD 880 638 831, 93281 (805) 762-7368	<input type="checkbox"/>	Ort Environmental 3650 S. 26th Street, Vernon, CA CAT 060 633 681, 90023 (323) 266-9258		
<input type="checkbox"/>	Dhya Environmental Services 1125 Hensley Street, Richmond, CA CAT 080 022 148, 94081 (510) 233-0001	<input type="checkbox"/>	Scorpion Environmental 876 Scorpion Blvd, Redwood City, CA CAD 000 032 058, 94063 (415) 364-9154	<input type="checkbox"/>	Commercial Filter Recycling 33210 Western Ave, Union City, CA (510) 487-5277, 94587		
<input type="checkbox"/>	DeMerno Kardon 2000 N Alameda Blvd, Compton, CA CAT 060 013 352, 90221 (310) 671-3700	<input type="checkbox"/>	Evergreen Oil 8660 Smith Ave, Newark, CA CAD 880 887 418, 94566 (510) 765-4400	<input type="checkbox"/>			

I hereby certify that all information supplied in this and all attached documents contain true and accurate descriptions of the waste. All relevant information regarding known or suspected hazards associated with the waste has been disclosed. Clearwater transports all wastes to facilities which are properly permitted and licensed to accept these wastes.

DRIVER SIGNATURE *[Signature]*

GENERATOR SIGNATURE *[Signature]*



WEIGHMASTER CERTIFICATE  
TRUCK SCALE

# MANUAL TICKET #



**SimsMetal**  
America  
Simsmetal USA Corporation

THIS IS TO CERTIFY that the following information was obtained, measured, or obtained by a calibrated scale, and is for the company, who is a licensed and duly qualified, as provided by Chapter 7 (commencing with § 2600) of Division 5 of California's Business and Professions Code, as amended by the Director of Industrial Standards of the California Department of Food and Agriculture.

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W.A. CRAIG, INC.  
P.O. BOX 448  
NAPA

TICKET #: T06202

CA 94556-0488

SACRAMENTO DIVISION RC3264  
130 NORTH 12th STREET  
SACRAMENTO CA 95814-0615  
916-444-3986

Wt: # 5DB0652 ID # 5DB0652 A=SCALE1 B=SCALE2 C=SCALE3 D=SCALE4 N=MANUAL MET

COMMODITY	GROSS	TARE	NET	RED C/W	AD EXT	PRICE	ADJ PRICE	COMMENTS	TOTAL AMT
UNP(NFC)	24020 A	20280 B	3740	.0	.00	18.0000 NT	18.0000 NT		33.66

CUSTOMER RECEIPT

ALL WEIGHTS ARE REPORTED IN POUNDS UNLESS OTHERWISE INDICATED

TOTALS 24020 20280 3740 .00 33.66

TICKET COMMENT: 50818331

WEIGHMASTER SIGNATURE *[Signature]*

CUSTOMER SIGNATURE *[Signature]*

GRS Date 04/20/01 INET TONS  
GRS Time 8:55 1.8700  
TRE Date 04/20/01  
TRE Time 9:00

1999777  
COUNT NUMBER

FOR SALVAGE VEHICLE SALES: This certificate is valid only for the sale of a vehicle. It is not valid for the sale of a vehicle for parts or for the sale of a vehicle for other purposes.

HOLD HARMLESS AGREEMENT: Seller will be responsible for any damage to the vehicle during loading, unloading, and handling, including transportation, including loss of the license of any vehicle, including loss of any other items, and shall be responsible for any damage to the vehicle during loading, unloading, and handling.

BILL OF SALE: I warrant that I am the owner of the vehicle described herein and have the right to sell same, that it complies with the provisions contained in California's Uniform Vehicle Code and that the vehicle is not subject to any lien or other claim.

**NOT REFUNDABLE MORE THAN 90 DAYS FROM DATE ABOVE.**  
In accordance with the Clean Air Act, customer must complete the CFC Statement on the back of this yellow copy of this Weighmaster Certificate for any regulated air pollutants which may have escaped CFC release.



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Gettler Ryan, Inc. - Rancho Cordova  
3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

**Reported:**  
26-Apr-01 14:18

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A-1	W104296-01	Soil	12-Apr-01 15:00	12-Apr-01 18:20
A-2	W104296-02	Soil	12-Apr-01 15:10	12-Apr-01 18:20
WOT	W104296-03	Soil	12-Apr-01 15:25	12-Apr-01 18:20





Gettler Ryan, Inc. - Rancho Cordova  
3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

**Reported:**  
26-Apr-01 14:18

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>A-1 (W104296-01) Soil</b> <b>Sampled: 12-Apr-01 15:00</b> <b>Received: 12-Apr-01 18:20</b>									
<b>Purgeable Hydrocarbons</b>	<b>630</b>	100	mg/kg	2000	1D17003	16-Apr-01	18-Apr-01	EPA 8015/8020	P-01
Benzene	10	0.50	"	"	"	"	"	"	
Toluene	4.4	0.50	"	"	"	"	"	"	
Ethylbenzene	15	0.50	"	"	"	"	"	"	
Xylenes (total)	48	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		123 %	40-140		"	"	"	"	
<b>A-2 (W104296-02) Soil</b> <b>Sampled: 12-Apr-01 15:10</b> <b>Received: 12-Apr-01 18:20</b>									
<b>Purgeable Hydrocarbons</b>	<b>32</b>	5.0	mg/kg	100	1D17003	16-Apr-01	19-Apr-01	EPA 8015/8020	P-01
Benzene	0.11	0.025	"	"	"	"	"	"	
Toluene	0.24	0.025	"	"	"	"	"	"	
Ethylbenzene	0.37	0.025	"	"	"	"	"	"	
Xylenes (total)	0.98	0.025	"	"	"	"	"	"	
Methyl tert-butyl ether	0.38	0.25	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		108 %	40-140		"	"	"	"	
<b>WOT (W104296-03) Soil</b> <b>Sampled: 12-Apr-01 15:25</b> <b>Received: 12-Apr-01 18:20</b>									
<b>Purgeable Hydrocarbons</b>	<b>10</b>	5.0	mg/kg	100	1D17003	16-Apr-01	23-Apr-01	EPA 8015/8020	P-01
Benzene	0.0092	0.0050	"	20	"	"	20-Apr-01	"	
Toluene	0.040	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.058	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.24	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	0.058	0.050	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		83.3 %	40-140		"	"	"	"	





Gettler Ryan, Inc. - Rancho Cordova  
3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

**Reported:**  
26-Apr-01 14:18

**Diesel Hydrocarbons (C9-C24) by DHS LUFT  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>WOT (W104296-03) Soil</b> <b>Sampled: 12-Apr-01 15:25</b> <b>Received: 12-Apr-01 18:20</b>									
<b>Diesel Range Hydrocarbons</b>	<b>3.2</b>	1.0	mg/kg	1	1D18006	18-Apr-01	21-Apr-01	DHS LUFT	D-02
<i>Surrogate: n-Pentacosane</i>		141 %	50-150		"	"	"	"	





Gettler Ryan, Inc. - Rancho Cordova  
3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

**Reported:**  
26-Apr-01 14:18

**Total Metals by EPA 6000/7000 Series Methods  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>WOT (W104296-03) Soil    Sampled: 12-Apr-01 15:25    Received: 12-Apr-01 18:20</b>									
Cadmium	ND	0.50	mg/kg	1	1D23015	23-Apr-01	25-Apr-01	EPA 6010A	
Chromium	60	0.50	"	"	"	"	25-Apr-01	"	
Lead	ND	1.0	"	"	"	"	25-Apr-01	"	
Nickel	52	1.0	"	"	"	"	25-Apr-01	"	
Zinc	38	1.0	"	"	"	"	"	"	







Gettler Ryan, Inc. - Rancho Cordova  
3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

**Reported:**  
26-Apr-01 14:18

**Volatile Organic Compounds by EPA Method 8010B**  
**Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>WOT (W104296-03) Soil    Sampled: 12-Apr-01 15:25    Received: 12-Apr-01 18:20</b>									
Chloromethane	ND	0.050	mg/kg	100	1D24008	24-Apr-01	24-Apr-01	EPA 8010B	
Vinyl chloride	ND	0.050	"	"	"	"	"	"	"
Bromomethane	ND	0.050	"	"	"	"	"	"	"
Chloroethane	ND	0.050	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.025	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.025	"	"	"	"	"	"	"
Methylene chloride	ND	0.25	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.025	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.025	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.025	"	"	"	"	"	"	"
Chloroform	ND	0.025	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.025	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.025	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.025	"	"	"	"	"	"	"
Trichloroethene	ND	0.025	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.025	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.025	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.025	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.025	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.025	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.025	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.025	"	"	"	"	"	"	"
1,2-Dibromoethane	ND	0.025	"	"	"	"	"	"	"
Chlorobenzene	ND	0.025	"	"	"	"	"	"	"
Bromoform	ND	0.025	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.025	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.025	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.025	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.025	"	"	"	"	"	"	"
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>		69.0 %		50-150	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		93.0 %		50-150	"	"	"	"	"





Gettler Ryan, Inc. - Rancho Cordova  
3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

Reported:  
26-Apr-01 14:18

**Semivolatile Organic Compounds by EPA Method 8270C**

**Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>WOT (W104296-03) Soil    Sampled: 12-Apr-01 15:25    Received: 12-Apr-01 18:20</b>									
Acenaphthene	ND	0.10	mg/kg	1	1D19004	19-Apr-01	24-Apr-01	EPA 8270C	
Acenaphthylene	ND	0.10	"	"	"	"	"	"	
Anthracene	ND	0.10	"	"	"	"	"	"	
Aniline	ND	0.10	"	"	"	"	"	"	
Benzoic acid	ND	0.50	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.10	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.25	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.25	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.10	"	"	"	"	"	"	
Benzo[a]pyrene	ND	0.10	"	"	"	"	"	"	
Benzyl alcohol	ND	0.10	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.20	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.10	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.10	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.50	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.20	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.50	"	"	"	"	"	"	
4-Chloroaniline	ND	0.50	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.10	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.10	"	"	"	"	"	"	
2-Chlorophenol	ND	0.10	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.20	"	"	"	"	"	"	
Chrysene	ND	0.10	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.10	"	"	"	"	"	"	
Dibenzofuran	ND	0.10	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.20	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.50	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.10	"	"	"	"	"	"	
Diethyl phthalate	ND	0.50	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.20	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.10	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.50	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.50	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.20	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.20	"	"	"	"	"	"	





Gettler Ryan, Inc. - Rancho Cordova  
3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

**Reported:**  
26-Apr-01 14:18

**Semivolatile Organic Compounds by EPA Method 8270C**

**Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>WOT (W104296-03) Soil Sampled: 12-Apr-01 15:25 Received: 12-Apr-01 18:20</b>									
Di-n-octyl phthalate	ND	0.20	mg/kg	1	1D19004	19-Apr-01	24-Apr-01	EPA 8270C	
Fluoranthene	ND	0.10	"	"	"	"	"	"	
Fluorene	ND	0.10	"	"	"	"	"	"	
Hexachlorobenzene	ND	0.20	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.20	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.20	"	"	"	"	"	"	
Hexachloroethane	ND	0.20	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.10	"	"	"	"	"	"	
Isophorone	ND	0.20	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.20	"	"	"	"	"	"	
2-Methylphenol	ND	0.10	"	"	"	"	"	"	
4-Methylphenol	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
2-Nitroaniline	ND	0.50	"	"	"	"	"	"	
3-Nitroaniline	ND	0.50	"	"	"	"	"	"	
4-Nitroaniline	ND	0.50	"	"	"	"	"	"	
Nitrobenzene	ND	0.20	"	"	"	"	"	"	
2-Nitrophenol	ND	0.10	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.10	"	"	"	"	"	"	
4-Nitrophenol	ND	0.50	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	0.20	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.10	"	"	"	"	"	"	
Pentachlorophenol	ND	0.50	"	"	"	"	"	"	
Phenanthrene	ND	0.10	"	"	"	"	"	"	
Phenol	ND	0.10	"	"	"	"	"	"	
Pyrene	ND	0.20	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.20	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.10	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.10	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		54.0 %	25-121	"	"	"	"	"	
Surrogate: Phenol-d6		52.6 %	24-113	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		59.5 %	23-120	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		58.9 %	30-115	"	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		62.8 %	19-122	"	"	"	"	"	
Surrogate: p-Terphenyl-d14		80.8 %	18-137	"	"	"	"	"	





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3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
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Project Manager: Steve Carter

**Reported:**  
26-Apr-01 14:18

**Conventional Chemistry Parameters by APHA/EPA Methods  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>WOT (W104296-03) Soil    Sampled: 12-Apr-01 15:25    Received: 12-Apr-01 18:20</b>									
TRPH	110	50	mg/kg	1	1D23001	23-Apr-01	24-Apr-01	SM 5520E/F	





Gettler Ryan, Inc. - Rancho Cordova  
3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

**Reported:**  
26-Apr-01 14:18

## Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 1D17003 - EPA 5030B MeOH

Blank (1D17003-BLK1)				Prepared & Analyzed: 16-Apr-01						
Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.050	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.692		"	0.600		115	40-140			

LCS (1D17003-BS1)				Prepared & Analyzed: 16-Apr-01						
Benzene	0.632	0.0050	mg/kg	0.800		79.0	50-150			
Toluene	0.734	0.0050	"	0.800		91.8	50-150			
Ethylbenzene	0.774	0.0050	"	0.800		96.7	50-150			
Xylenes (total)	2.38	0.0050	"	2.40		99.2	50-150			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.692		"	0.600		115	40-140			

Matrix Spike (1D17003-MS1)				Source: W104292-01		Prepared: 16-Apr-01 Analyzed: 26-Apr-01				
Benzene	0.794	0.0050	mg/kg	0.800	ND	99.3	50-150			
Toluene	0.862	0.0050	"	0.800	ND	108	50-150			
Ethylbenzene	0.898	0.0050	"	0.800	ND	112	50-150			
Xylenes (total)	2.80	0.0050	"	2.40	ND	117	50-150			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.520		"	0.600		86.7	40-140			

Matrix Spike Dup (1D17003-MSD1)				Source: W104292-01		Prepared: 16-Apr-01 Analyzed: 26-Apr-01				
Benzene	0.780	0.0050	mg/kg	0.800	ND	97.5	50-150	1.78	20	
Toluene	0.840	0.0050	"	0.800	ND	105	50-150	2.59	20	
Ethylbenzene	0.886	0.0050	"	0.800	ND	111	50-150	1.35	20	
Xylenes (total)	2.70	0.0050	"	2.40	ND	112	50-150	3.64	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.520		"	0.600		86.7	40-140			





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3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

**Reported:**  
26-Apr-01 14:18

**Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1D18006 - EPA 3550A</b>										
<b>Blank (1D18006-BLK1)</b>				Prepared: 18-Apr-01 Analyzed: 19-Apr-01						
Diesel Range Hydrocarbons	ND	1.0	mg/kg							
<i>Surrogate: n-Pentacosane</i>	1.07		"	1.11		96.4	50-150			
<b>LCS (1D18006-BS1)</b>				Prepared: 18-Apr-01 Analyzed: 19-Apr-01						
Diesel Range Hydrocarbons	15.8	1.0	mg/kg	15.0		105	60-140			
<i>Surrogate: n-Pentacosane</i>	1.31		"	1.11		118	50-150			
<b>LCS Dup (1D18006-BSD1)</b>				Prepared: 18-Apr-01 Analyzed: 19-Apr-01						
Diesel Range Hydrocarbons	15.3	1.0	mg/kg	15.0		102	60-140	3.22	40	
<i>Surrogate: n-Pentacosane</i>	1.16		"	1.11		105	50-150			
<b>Matrix Spike (1D18006-MS1)</b>				Source: W104235-01		Prepared: 18-Apr-01 Analyzed: 19-Apr-01				
Diesel Range Hydrocarbons	5.92	1.0	mg/kg	15.0	ND	39.5	50-150			Q-01
<i>Surrogate: n-Pentacosane</i>	0.667		"	1.11		60.1	50-150			
<b>Matrix Spike Dup (1D18006-MSD1)</b>				Source: W104235-01		Prepared: 18-Apr-01 Analyzed: 19-Apr-01				
Diesel Range Hydrocarbons	30.8	1.0	mg/kg	15.0	ND	205	50-150	136	50	Q-01
<i>Surrogate: n-Pentacosane</i>	2.64		"	1.11		238	50-150			S-01





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Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

Reported:  
26-Apr-01 14:18

**Total Metals by EPA 6000/7000 Series Methods - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1D23015 - EPA 3050B**

**Blank (1D23015-BLK1)**

Prepared: 23-Apr-01 Analyzed: 25-Apr-01

Cadmium	ND	0.50	mg/kg							
Chromium	ND	0.50	"							
Lead	ND	1.0	"							
Nickel	ND	1.0	"							
Zinc	ND	1.0	"							

**LCS (1D23015-BS1)**

Prepared: 23-Apr-01 Analyzed: 25-Apr-01

Cadmium	54.1	0.50	mg/kg	50.0		108	80-120			
Chromium	53.0	0.50	"	50.0		106	80-120			
Lead	54.1	1.0	"	50.0		108	80-120			
Nickel	53.5	1.0	"	50.0		107	80-120			
Zinc	56.5	1.0	"	50.0		113	80-120			

**LCS Dup (1D23015-BSD1)**

Prepared: 23-Apr-01 Analyzed: 25-Apr-01

Cadmium	51.2	0.50	mg/kg	50.0		102	80-120	5.51	20	
Chromium	51.8	0.50	"	50.0		104	80-120	2.29	20	
Lead	52.5	1.0	"	50.0		105	80-120	3.00	20	
Nickel	52.1	1.0	"	50.0		104	80-120	2.65	20	
Zinc	55.8	1.0	"	50.0		112	80-120	1.25	20	

**Matrix Spike (1D23015-MS1)**

Source: W104292-01

Prepared: 23-Apr-01 Analyzed: 25-Apr-01

Cadmium	53.5	0.50	mg/kg	50.0	ND	107	80-120			
Chromium	65.5	0.50	"	50.0	15	101	80-120			
Lead	64.1	1.0	"	50.0	5.9	116	80-120			
Nickel	68.4	1.0	"	50.0	17	103	80-120			
Zinc	109	1.0	"	50.0	56	106	80-120			

**Matrix Spike Dup (1D23015-MSD1)**

Source: W104292-01

Prepared: 23-Apr-01 Analyzed: 25-Apr-01

Cadmium	56.6	0.50	mg/kg	50.0	ND	113	80-120	5.63	20	
Chromium	64.2	0.50	"	50.0	15	98.4	80-120	2.00	20	
Lead	58.6	1.0	"	50.0	5.9	105	80-120	8.96	20	
Nickel	66.9	1.0	"	50.0	17	99.8	80-120	2.22	20	
Zinc	104	1.0	"	50.0	56	96.0	80-120	4.69	20	





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Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

**Reported:**  
26-Apr-01 14:18

**Volatile Organic Compounds by EPA Method 8010B - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1D24008 - EPA 5030B [MeOH]**

**Blank (1D24008-BLK1)**

Prepared & Analyzed: 24-Apr-01

Chloromethane	ND	0.050	mg/kg							
Vinyl chloride	ND	0.050	"							
Bromomethane	ND	0.050	"							
Chloroethane	ND	0.050	"							
Trichlorofluoromethane	ND	0.025	"							
1,1-Dichloroethene	ND	0.025	"							
Methylene chloride	ND	0.25	"							
trans-1,2-Dichloroethene	ND	0.025	"							
1,1-Dichloroethane	ND	0.025	"							
cis-1,2-Dichloroethene	ND	0.025	"							
Chloroform	ND	0.025	"							
1,1,1-Trichloroethane	ND	0.025	"							
Carbon tetrachloride	ND	0.025	"							
1,2-Dichloroethane	ND	0.025	"							
Trichloroethene	ND	0.025	"							
1,2-Dichloropropane	ND	0.025	"							
Bromodichloromethane	ND	0.025	"							
cis-1,3-Dichloropropene	ND	0.025	"							
trans-1,3-Dichloropropene	ND	0.025	"							
1,1,2-Trichloroethane	ND	0.025	"							
Tetrachloroethene	ND	0.025	"							
Dibromochloromethane	ND	0.025	"							
1,2-Dibromoethane	ND	0.025	"							
Chlorobenzene	ND	0.025	"							
Bromoform	ND	0.025	"							
1,1,2,2-Tetrachloroethane	ND	0.025	"							
1,3-Dichlorobenzene	ND	0.025	"							
1,4-Dichlorobenzene	ND	0.025	"							
1,2-Dichlorobenzene	ND	0.025	"							
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	0.447		"	0.500		89.4	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.569		"	0.500		114	50-150			







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Reported:  
26-Apr-01 14:18

**Volatile Organic Compounds by EPA Method 8010B - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1D24008 - EPA 5030B [MeOH]**

**LCS (1D24008-BS1)**

Prepared & Analyzed: 24-Apr-01

1,1-Dichloroethene	0.933	0.025	mg/kg	1.00		93.3	65-135			
Trichloroethene	0.945	0.025	"	1.00		94.5	70-130			
Chlorobenzene	0.892	0.025	"	1.00		89.2	70-130			
Surrogate: 1-Chloro-2-fluorobenzene	0.516		"	0.500		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.628		"	0.500		126	50-150			

**Matrix Spike (1D24008-MS1)**

Source: W104296-03

Prepared & Analyzed: 24-Apr-01

1,1-Dichloroethene	0.980	0.025	mg/kg	1.00	ND	98.0	60-140			
Trichloroethene	1.02	0.025	"	1.00	ND	102	60-140			
Chlorobenzene	0.936	0.025	"	1.00	ND	93.6	60-140			
Surrogate: 1-Chloro-2-fluorobenzene	0.442		"	0.500		88.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.482		"	0.500		96.4	50-150			

**Matrix Spike Dup (1D24008-MSD1)**

Source: W104296-03

Prepared & Analyzed: 24-Apr-01

1,1-Dichloroethene	0.943	0.025	mg/kg	1.00	ND	94.3	60-140	3.85	25	
Trichloroethene	1.03	0.025	"	1.00	ND	103	60-140	0.976	25	
Chlorobenzene	0.916	0.025	"	1.00	ND	91.6	60-140	2.16	25	
Surrogate: 1-Chloro-2-fluorobenzene	0.402		"	0.500		80.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.486		"	0.500		97.2	50-150			





Gettler Ryan, Inc. - Rancho Cordova  
3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

**Reported:**  
26-Apr-01 14:18

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1D19004 - EPA 3550A Sonication**

**Blank (1D19004-BLK1)**

Prepared: 19-Apr-01 Analyzed: 23-Apr-01

Acenaphthene	ND	0.10	mg/kg							
Acenaphthylene	ND	0.10	"							
Anthracene	ND	0.10	"							
Aniline	ND	0.10	"							
Benzoic acid	ND	0.50	"							
Benzo (a) anthracene	ND	0.10	"							
Benzo (b) fluoranthene	ND	0.25	"							
Benzo (k) fluoranthene	ND	0.25	"							
Benzo (ghi) perylene	ND	0.10	"							
Benzo[a]pyrene	ND	0.10	"							
Benzyl alcohol	ND	0.10	"							
Bis(2-chloroethoxy)methane	ND	0.20	"							
Bis(2-chloroethyl)ether	ND	0.10	"							
Bis(2-chloroisopropyl)ether	ND	0.10	"							
Bis(2-ethylhexyl)phthalate	ND	0.50	"							
4-Bromophenyl phenyl ether	ND	0.20	"							
Butyl benzyl phthalate	ND	0.50	"							
4-Chloroaniline	ND	0.50	"							
2-Chloronaphthalene	ND	0.10	"							
4-Chloro-3-methylphenol	ND	0.10	"							
2-Chlorophenol	ND	0.10	"							
4-Chlorophenyl phenyl ether	ND	0.20	"							
Chrysene	ND	0.10	"							
Dibenz (a,h) anthracene	ND	0.10	"							
Dibenzofuran	ND	0.10	"							
Di-n-butyl phthalate	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.10	"							
1,3-Dichlorobenzene	ND	0.10	"							
1,4-Dichlorobenzene	ND	0.20	"							
3,3'-Dichlorobenzidine	ND	0.50	"							
2,4-Dichlorophenol	ND	0.10	"							
Diethyl phthalate	ND	0.50	"							
2,4-Dimethylphenol	ND	0.20	"							
Dimethyl phthalate	ND	0.10	"							





Gettler Ryan, Inc. - Rancho Cordova  
3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

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Reported:  
26-Apr-01 14:18

## Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 1D19004 - EPA 3550A Sonication

Blank (1D19004-BLK1)

Prepared: 19-Apr-01 Analyzed: 23-Apr-01

4,6-Dinitro-2-methylphenol	ND	0.50	mg/kg							
2,4-Dinitrophenol	ND	0.50	"							
2,4-Dinitrotoluene	ND	0.20	"							
2,6-Dinitrotoluene	ND	0.20	"							
Di-n-octyl phthalate	ND	0.20	"							
Fluoranthene	ND	0.10	"							
Fluorene	ND	0.10	"							
Hexachlorobenzene	ND	0.20	"							
Hexachlorobutadiene	ND	0.20	"							
Hexachlorocyclopentadiene	ND	0.20	"							
Hexachloroethane	ND	0.20	"							
Indeno (1,2,3-cd) pyrene	ND	0.10	"							
Isophorone	ND	0.20	"							
2-Methylnaphthalene	ND	0.20	"							
2-Methylphenol	ND	0.10	"							
4-Methylphenol	ND	0.10	"							
Naphthalene	ND	0.10	"							
2-Nitroaniline	ND	0.50	"							
3-Nitroaniline	ND	0.50	"							
4-Nitroaniline	ND	0.50	"							
Nitrobenzene	ND	0.20	"							
2-Nitrophenol	ND	0.10	"							
N-Nitrosodimethylamine	ND	0.10	"							
4-Nitrophenol	ND	0.50	"							
N-Nitrosodiphenylamine	ND	0.20	"							
N-Nitrosodi-n-propylamine	ND	0.10	"							
Pentachlorophenol	ND	0.50	"							
Phenanthrene	ND	0.10	"							
Phenol	ND	0.10	"							
Pyrene	ND	0.20	"							
1,2,4-Trichlorobenzene	ND	0.20	"							
2,4,5-Trichlorophenol	ND	0.10	"							
2,4,6-Trichlorophenol	ND	0.10	"							
Surrogate: 2-Fluorophenol	2.51		"	5.00		50.2	25-121			

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Gettler Ryan, Inc. - Rancho Cordova  
3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

**Reported:**  
26-Apr-01 14:18

**Semivolatle Organic Compounds by EPA Method 8270C - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1D19004 - EPA 3550A Sonication**

**Blank (1D19004-BLK1)**

Prepared: 19-Apr-01 Analyzed: 23-Apr-01

Surrogate: Phenol-d6	2.45		mg/kg	5.00		49.0	24-113			
Surrogate: Nitrobenzene-d5	1.67		"	3.33		50.2	23-120			
Surrogate: 2-Fluorobiphenyl	1.81		"	3.33		54.4	30-115			
Surrogate: 2,4,6-Tribromophenol	2.66		"	5.00		53.2	19-122			
Surrogate: p-Terphenyl-d14	1.78		"	3.33		53.5	18-137			

**LCS (1D19004-BS1)**

Prepared: 19-Apr-01 Analyzed: 23-Apr-01

Acenaphthene	2.14	0.10	mg/kg	3.33		64.3	31-137			
4-Chloro-3-methylphenol	3.29	0.10	"	5.00		65.8	26-103			
2-Chlorophenol	3.00	0.10	"	5.00		60.0	25-102			
1,4-Dichlorobenzene	1.93	0.20	"	3.33		58.0	28-104			
2,4-Dinitrotoluene	2.07	0.20	"	3.33		62.2	28-89			
4-Nitrophenol	2.69	0.50	"	5.00		53.8	11-114			
N-Nitrosodi-n-propylamine	2.31	0.10	"	3.33		69.4	41-126			
Pentachlorophenol	3.36	0.50	"	5.00		67.2	17-109			
Phenol	2.88	0.10	"	5.00		57.6	26-90			
Pyrene	2.14	0.20	"	3.33		64.3	35-142			
1,2,4-Trichlorobenzene	2.13	0.20	"	3.33		64.0	38-107			
Surrogate: 2-Fluorophenol	3.23		"	5.00		64.6	25-121			
Surrogate: Phenol-d6	3.20		"	5.00		64.0	24-113			
Surrogate: Nitrobenzene-d5	2.31		"	3.33		69.4	23-120			
Surrogate: 2-Fluorobiphenyl	2.28		"	3.33		68.5	30-115			
Surrogate: 2,4,6-Tribromophenol	3.47		"	5.00		69.4	19-122			
Surrogate: p-Terphenyl-d14	2.16		"	3.33		64.9	18-137			

**LCS Dup (1D19004-BSD1)**

Prepared: 19-Apr-01 Analyzed: 23-Apr-01

Acenaphthene	2.23	0.10	mg/kg	3.33		67.0	31-137	4.12	40	
4-Chloro-3-methylphenol	3.34	0.10	"	5.00		66.8	26-103	1.51	40	
2-Chlorophenol	3.27	0.10	"	5.00		65.4	25-102	8.61	40	
1,4-Dichlorobenzene	2.11	0.20	"	3.33		63.4	28-104	8.91	40	
2,4-Dinitrotoluene	2.22	0.20	"	3.33		66.7	28-89	6.99	40	
4-Nitrophenol	3.24	0.50	"	5.00		64.8	11-114	18.5	40	
N-Nitrosodi-n-propylamine	2.37	0.10	"	3.33		71.2	41-126	2.56	40	
Pentachlorophenol	3.74	0.50	"	5.00		74.8	17-109	10.7	40	
Phenol	3.08	0.10	"	5.00		61.6	26-90	6.71	40	
Pyrene	2.31	0.20	"	3.33		69.4	35-142	7.64	40	





Gettler Ryan, Inc. - Rancho Cordova  
3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

Reported:  
26-Apr-01 14:18

## Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 1D19004 - EPA 3550A Sonication

#### LCS Dup (1D19004-BSD1)

Prepared: 19-Apr-01 Analyzed: 23-Apr-01

1,2,4-Trichlorobenzene	2.28	0.20	mg/kg	3.33		68.5	38-107	6.80	40	
Surrogate: 2-Fluorophenol	3.57		"	5.00		71.4	25-121			
Surrogate: Phenol-d6	3.40		"	5.00		68.0	24-113			
Surrogate: Nitrobenzene-d5	2.46		"	3.33		73.9	23-120			
Surrogate: 2-Fluorobiphenyl	2.37		"	3.33		71.2	30-115			
Surrogate: 2,4,6-Tribromophenol	3.61		"	5.00		72.2	19-122			
Surrogate: p-Terphenyl-d14	2.32		"	3.33		69.7	18-137			

#### Matrix Spike (1D19004-MS1)

Source: W104407-01

Prepared: 19-Apr-01 Analyzed: 24-Apr-01

Acenaphthene	1.81	0.10	mg/kg	3.33	ND	54.4	31-137			
4-Chloro-3-methylphenol	2.72	0.10	"	5.00	ND	54.4	26-103			
2-Chlorophenol	2.19	0.10	"	5.00	ND	43.8	25-102			
1,4-Dichlorobenzene	1.39	0.20	"	3.33	ND	41.7	28-104			
2,4-Dinitrotoluene	1.74	0.20	"	3.33	ND	52.3	28-89			
4-Nitrophenol	2.24	0.50	"	5.00	ND	44.8	11-114			
N-Nitrosodi-n-propylamine	1.92	0.10	"	3.33	ND	57.7	41-126			
Pentachlorophenol	2.31	0.50	"	5.00	ND	46.2	17-109			
Phenol	2.13	0.10	"	5.00	ND	42.6	26-90			
Pyrene	2.70	0.20	"	3.33	ND	81.1	35-142			
1,2,4-Trichlorobenzene	1.59	0.20	"	3.33	ND	47.7	38-107			
Surrogate: 2-Fluorophenol	2.13		"	5.00		42.6	25-121			
Surrogate: Phenol-d6	2.29		"	5.00		45.8	24-113			
Surrogate: Nitrobenzene-d5	1.72		"	3.33		51.7	23-120			
Surrogate: 2-Fluorobiphenyl	1.86		"	3.33		55.9	30-115			
Surrogate: 2,4,6-Tribromophenol	2.75		"	5.00		55.0	19-122			
Surrogate: p-Terphenyl-d14	2.73		"	3.33		82.0	18-137			

#### Matrix Spike Dup (1D19004-MSD1)

Source: W104407-01

Prepared: 19-Apr-01 Analyzed: 24-Apr-01

Acenaphthene	1.64	0.10	mg/kg	3.33	ND	49.2	31-137	9.86	40	
4-Chloro-3-methylphenol	2.50	0.10	"	5.00	ND	50.0	26-103	8.43	40	
2-Chlorophenol	1.97	0.10	"	5.00	ND	39.4	25-102	10.6	40	
1,4-Dichlorobenzene	1.25	0.20	"	3.33	ND	37.5	28-104	10.6	40	
2,4-Dinitrotoluene	1.51	0.20	"	3.33	ND	45.3	28-89	14.2	40	
4-Nitrophenol	1.83	0.50	"	5.00	ND	36.6	11-114	20.1	40	
N-Nitrosodi-n-propylamine	1.74	0.10	"	3.33	ND	52.3	41-126	9.84	40	
Pentachlorophenol	2.02	0.50	"	5.00	ND	40.4	17-109	13.4	40	





Gettler Ryan, Inc. - Rancho Cordova  
3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

**Reported:**  
26-Apr-01 14:18

**Semivolatle Organic Compounds by EPA Method 8270C - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1D19004 - EPA 3550A Sonication**

**Matrix Spike Dup (1D19004-MSD1)**

Source: **W104407-01**

Prepared: 19-Apr-01 Analyzed: 24-Apr-01

Phenol	1.97	0.10	mg/kg	5.00	ND	39.4	26-90	7.80	40	
Pyrene	2.43	0.20	"	3.33	ND	73.0	35-142	10.5	40	
1,2,4-Trichlorobenzene	1.42	0.20	"	3.33	ND	42.6	38-107	11.3	40	
<i>Surrogate: 2-Fluorophenol</i>	1.93		"	5.00		38.6	25-121			
<i>Surrogate: Phenol-d6</i>	2.11		"	5.00		42.2	24-113			
<i>Surrogate: Nitrobenzene-d5</i>	1.55		"	3.33		46.5	23-120			
<i>Surrogate: 2-Fluorobiphenyl</i>	1.70		"	3.33		51.1	30-115			
<i>Surrogate: 2,4,6-Tribromophenol</i>	2.46		"	5.00		49.2	19-122			
<i>Surrogate: p-Terphenyl-d14</i>	2.49		"	3.33		74.8	18-137			





Gettler Ryan, Inc. - Rancho Cordova  
3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

**Reported:**  
26-Apr-01 14:18

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1D23001 - EPA 3550A Sonicate</b>										
<b>Blank (1D23001-BLK1)</b>										
					Prepared: 23-Apr-01 Analyzed: 24-Apr-01					
TRPH	ND	50	mg/kg							
<b>LCS (1D23001-BS1)</b>										
					Prepared: 23-Apr-01 Analyzed: 24-Apr-01					
TRPH	4710	50	mg/kg	5000		94.2	70-130			
<b>LCS Dup (1D23001-BSD1)</b>										
					Prepared: 23-Apr-01 Analyzed: 24-Apr-01					
TRPH	4760	50	mg/kg	5000		95.2	70-130	1.06	30	
<b>Matrix Spike (1D23001-MS1)</b>										
		Source: W104223-07			Prepared: 23-Apr-01 Analyzed: 24-Apr-01					
TRPH	6490	50	mg/kg	5000	2700	75.8	60-140			
<b>Matrix Spike Dup (1D23001-MSD1)</b>										
		Source: W104223-07			Prepared: 23-Apr-01 Analyzed: 24-Apr-01					
TRPH	6380	50	mg/kg	5000	2700	73.6	60-140	1.71	30	





Gettler Ryan, Inc. - Rancho Cordova  
3140 Gold Camp Drive #170  
Rancho Cordova CA, 95670

Project: Chevron  
Project Number: Chevron # 206145  
Project Manager: Steve Carter

**Reported:**  
26-Apr-01 14:18

## Notes and Definitions

- D-02 Chromatogram Pattern: Unidentified Hydrocarbons C9-C40.
- P-01 Chromatogram Pattern: Gasoline C6-C12
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference





Chevron U.S.A. Inc.  
 P.O. BOX 5004  
 San Ramon, CA 94583  
 FAX (415)842-9591

Chevron Facility Number 20-6145, OAKLAND  
 Facility Address 800 CENTER STREET  
 Consultant Project Number DG26145C.4C02  
 Consultant Name GETTLER-RYAN, INC. (GR)  
 Address 6747 Sierra Ct, Ste J, DUBLIN, CA  
 Project Contact (Name) STEVE CARTER  
 (Phone) (916)631-1309 (Fax Number)

Chevron Contact (Name) THOMAS BAUHS  
 (Phone) (925) 842-8898  
 Laboratory Name SEQUOIA ANALYTICAL  
 Laboratory Release Number W109296  
 Samples Collected by (Name) HAIG KEVORK  
 Collection Date 4/12/2001  
 Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Chemical	Type G = Grab C = Composite D = Direct	Time	Sample Preservation	Lead (Yes or No)	Analytes To Be Performed										Remarks
								STEX + TPH GAS (8020 + 8015) / MTBE	TPH Diesel (8015)	Oil and Grease (8020)	Purgeable Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Subtractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)			
A-1	01A	1	S	G	15:00	BRASS TUB	YES	X	X	X	X	X	X	X	X	X		
A-2	02A	1	S	G	15:10	↓	↓	X	X	X	X	X	X	X	X	X		
WOT	03A	1	S	G	15:25	↓	↓	X	X	X	X	X	X	X	X	X		

Requested By (Signature) <u>[Signature]</u>	Organization <u>GR</u>	Date/Time <u>4/12/01</u>	Received By (Signature) <u>Mike Galin</u>	Organization <u>Sequoia</u>	Date/Time <u>4/12/01 1820</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days <input checked="" type="checkbox"/> 10 Days As Contracted
Requested By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Requested By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	

THIS IS THE ONLY INSTRUMENT USED TO RECORD THIS INFORMATION