Chevron

September 30, 1997

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

Marketing – Sales West
Phone 510 842-9500

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

Re: **Chevron Service Station #9-0076**
4265 Foothill Blvd.
Oakland , California

Dear Mr. Chan:

Enclosed is the Product Dispenser Upgrade and Partial Product Line Replacement report that was prepared by our consultant Gettler-Ryan Inc. This upgrade included the partial replacement of product pipe lines, the installation of containment under the dispensers and the installation of containment for the underground storage tanks.

Soil near the end of the dispenser islands was excavated to facilitate the modification of the island piping and as required for the installation of the dispenser containments. Soil samples were collected at the base of these excavations which were about 4 feet below grade. The soil samples were analyzed for TPH-g, BTEX and MtBE constituents with the analytical results shown in Table 1. Since the piping connections and conduit's underneath the dispensers were not being replaced along with the lines underneath the drive slab, no further excavations were conducted. If in the future the facilities are removed, any residual petroleum hydrocarbons remaining in the soil, can be removed at that time.

Approximately 46 tons of hydrocarbon impacted soil was removed from the site and transported by Allwaste Transportation and Remediation Inc. to the Chemical Waste Management, Inc. facility in Kettleman Hills.

If you have any questions, call me at (510) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

cc. Mr. Bill Scudder, Chevron

Mr. Jeff Granberry
Shell Oil Company
PO Box 4023
Concord, CA 94524

American Stores Properties, Inc.
348 East South Temple Street
Salt Lake City, UT 84111
Attn. Barbara Russell

GETTLER-RYAN

Post-it® Fax Note 7671	Date 9-24-97	# of pages ▶ 2
To Curt Peck	From Phil Briggs	
Co./Dept. CRTC	Co. CPDS	
Phone #	Phone # CTN 842-9136	
Fax # CTN 242-1380	Fax #	

Analytical results and map.

September 24, 1997

Mr. Phil Briggs
Chevron Products Company
P. O. Box 6004
San Ramon, California 94583

Subject: **Soil Sampling During Product Dispenser Upgrade and Partial Product Line Replacement at Chevron Service Station #9-0076, 4265 Foothill Boulevard, Oakland, California.**

Mr. Briggs:

At the request of Chevron Products Company (Chevron), Gettler-Ryan Inc. (GR) collected soil samples during product dispenser upgrade and partial product line replacement at the subject site. This product dispenser upgrade included installation of under dispenser containments and was performed in conjunction with an underground storage tank (UST) upgrade which also included containment installation. The purpose of the soil investigation was to evaluate whether the soil beneath the former product lines near product dispensers has been impacted by hydrocarbons. The scope of work included: collecting and analyzing samples from native soil beneath the former product lines and from the soil stockpiles, and preparing a report presenting the findings.

SITE DESCRIPTION

The subject site is a service station located at the intersection Foothill Boulevard and High Street in Oakland (Figure 1). Station facilities consist of a station building, five product dispensers, and three gasoline USTs. Pertinent site features are shown on Figure 2.

FIELD WORK

Construction work and sampling during product dispenser replacement was performed by GR. Soil sampling was conducted in accordance with the GR Field Methods and Procedures (attached), and the Site Safety Plan dated July 8, 1997. Soil samples collected during this investigation were delivered under chain-of-custody to Sequoia Analytical in Concord (ELAP #1271). Analytical methods and results are summarized in Table 1. Copies of the laboratory analytical reports and chain-of-custody record are attached.

6747 Sierra Court, Suite J • Dublin, California 94568 • (510) 551-7555

Soil Sampling

The former product dispensers and the portion of product lines between the northern and southern service islands were removed. The former product lines consisted of 2-inch diameter fiberglass piping. Soil near the ends of the dispenser islands was excavated to facilitate modification of island piping as required for the installation of under dispenser containments. These excavations were approximately 8 feet long, 3 to 4 feet wide, and 3.5 feet deep. The excavation limits are shown on Figure 2. Soil in the vicinity of the former product dispensers consisted of black to dark brown clay and exhibited discoloration (gray mottling) and hydrocarbon odor. On July 21, 1997, five soil samples (PL1-4 through PL5-4) were collected at the base of the excavations. The samples were collected at the approximate depth of 4 feet below ground surface (bgs). The sample locations are shown on Figure 2.

Total Petroleum Hydrocarbons as gasoline (TPHg) were detected in samples PL1-4 through PL5-4 at concentrations ranging from 1.8 parts per million (ppm) to 210 ppm. Benzene was present in samples PL1-4 through PL3-4 and PL5-4 at concentrations ranging from 0.031 ppm to 0.64 ppm. Methyl t-Butyl Ether (MTBE) was present in all samples except sample PL2-4 at concentrations ranging from 0.37 ppm to 10 ppm.

Stockpile Sampling

Soil generated during site investigation and reconstruction activities was stockpiled at the site, placed on and covered with plastic sheeting pending disposal. The soil was stockpiled in two separate stockpiles. Stockpile SP-1 contained soil which exhibited discoloration or hydrocarbon odor. Stockpile SP-2 contained soil which did not show subjective evidence of hydrocarbon contamination. On July 21, 1997, four soil samples were collected from arbitrary locations on each stockpile. These samples were composited in the laboratory and analyzed as samples SP1-(A-D) and SP2-(A-D).

Hydrocarbons were not detected in stockpile sample SP2-(A-D). Stockpile sample SP1-(A-D) contained TPHg (43 ppm), benzene (0.034 ppm), toluene (0.045 ppm), ethylbenzene (0.29 ppm), and xylenes (0.93 ppm). Halogenated Volatile Organics (VOs) were not detected in this sample. Lead was detected in sample SP1-(A-D) at the concentration of 220 ppm (14 ppm STLC extract, 0.67 ppm TCLP extract), and in sample SP2-(A-D) at the concentration of 36 ppm.

SOIL DISPOSAL

On August 5, 1997, approximately 46 tons of stockpiled soil were removed from the site and transported to the Chemical Waste Management, Inc. facility (profile #DZ2948) in Kettleman Hills, California, by Allwaste Transportation and Remediation Inc.

If you should have any questions please call us in Dublin at (510) 551-8777.

Sincerely,
Gettler-Ryan Inc.

Barbara Sieminski
Project Geologist
R.G. 6676

Stephen J. Carter, R.G.
Senior Geologist

REGISTERED GEOLOGIST
BARBARA SIEMINSKI
No. 6676
STATE OF CALIFORNIA

Attachments: Table 1. Analytical Results
Figure 1. Vicinity Map
Figure 2. Soil Concentration Map
GR Field Methods and Procedures
Laboratory Analytical Reports and Chain-of-Custody Records

ATTACHMENTS

Table 1. Analytical Results - Chevron Service Station #9-0076, 4265 Foothill Boulevard, Oakland, California.

Sample Name	Depth (ft)	Date	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
			<----------ppm---------->						
PL1-4	4.0	07/21/97	1.8	0.031	0.016	0.023	0.19	2.5	---
PL2-4	4.0	07/21/97	210	0.64	0.90	3.6	11	<2.5	---
PL3-4	4.0	07/21/97	34	0.20	0.15	0.88	4.4	10	---
PL4-4	4.0	07/21/97	45	<0.0050	<0.0050	0.87	3.5	10	---
PL5-4	4.0	07/21/97	130	0.64	0.25	0.71	0.51	6.9	---
SP1-(A-D)*	---	07/21/97	43[1]	0.034	0.045	0.29	0.93	---	220(14[2], 0.67[3])
SP2-(A-D)	---	07/21/97	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	36

EXPLANATION:

TPHg = Total Petroleum Hydrocarbons as gasoline
MTBE = Methyl t-Butyl Ether
ppm = Parts per million
--- = Not analyzed/not applicable
[1] = Gasoline and unidentified hydrocarbons > C8
[2] = STLC extract result
[3] = TCLP extract result
* = Sample was also analyzed for Halogenated Volatile Organics by EPA Method 8010 - all compounds were not detected.

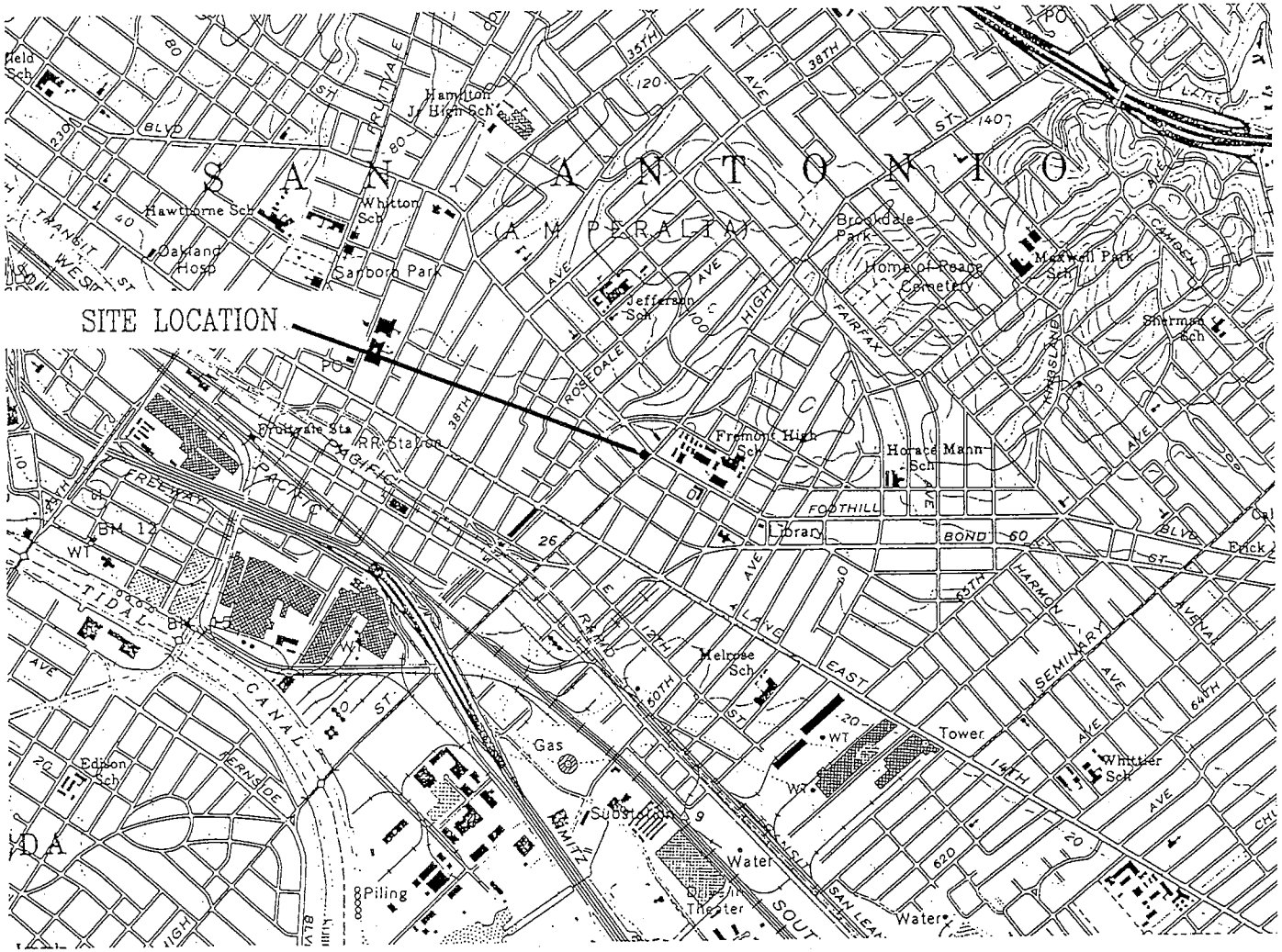
ANALYTICAL METHODS:

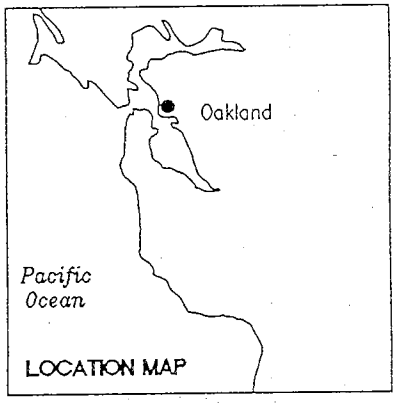
TPHg = EPA Method 8015 Mod.
Benzene, toluene, ethylbenzene, xylenes, and MTBE = EPA Method 8020
Lead = EPA 6010

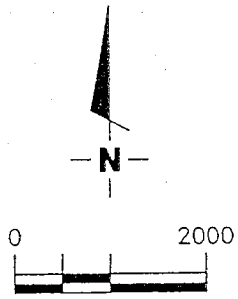
ANALYTICAL LABORATORY:

Sequoia Analytical (ELAP #1271)

1219.02







Base Map: USGS Topographic Map

FIGURE 1

Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

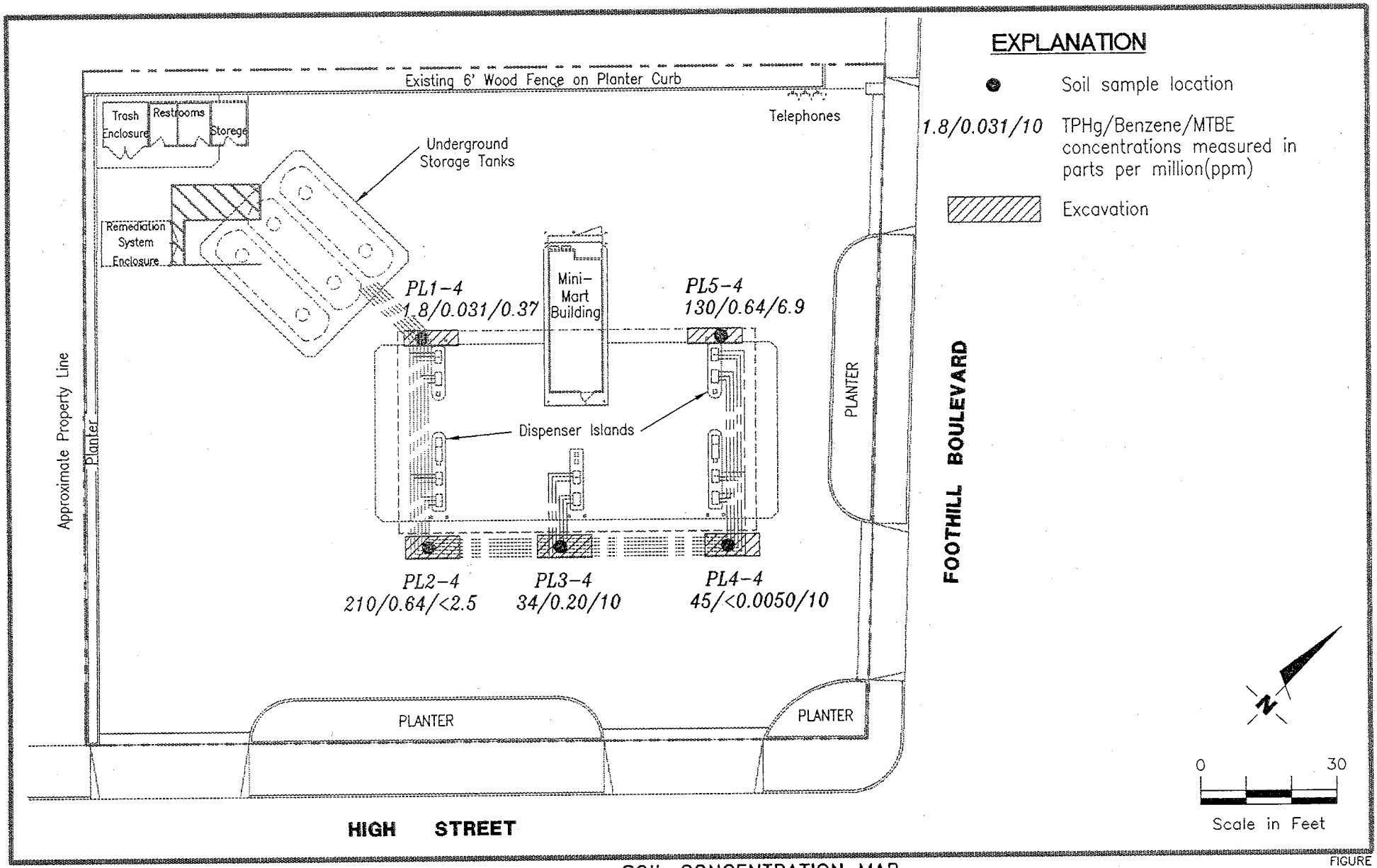
VICINITY MAP
Chevron Service Station No. 9-0076
4265 Foothill Boulevard
Oakland, California

JOB NUMBER 1219

REVIEWED BY

DATE September, 1997

REVISED DATE



FIGURE

2

Gettler - Ryan Inc.

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Dublin, CA 94568
(510) 551-7555

SOIL CONCENTRATION MAP
Chevron Service Station No. 9-0076
4265 Foothill Boulevard
Oakland, California

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
1219.02		September, 1997	

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 place 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 labelled and place 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 them 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.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler-Ryan	Client Project ID:	Chevron #9-0076	Sampled: Jul 21, 1997
6747 Sierra Court, Suite J	Sample Matrix:	Soil	Received: Jul 21, 1997
Dublin, CA 94568	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Aug 5, 1997
Attention: Barbara Sieminski	First Sample #:	707-1047	

QC Batch Number:	SP072897	SP072897	SP072897	SP072897	SP072897
	8020EXA	8020EXA	8020EXA	8020EXA	8020EXA

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 707-1047 PL1-4	Sample I.D. 707-1048 PL2-4	Sample I.D. 707-1049 PL3-4	Sample I.D. 707-1050 PL4-4	Sample I.D. 707-1051 PL5-4
Purgeable Hydrocarbons	1.0	1.8	210	34	45	130
Benzene	0.0050	0.031	0.64	0.20	N.D.	0.64
Toluene	0.0050	0.016	0.90	0.15	N.D.	0.25
Ethyl Benzene	0.0050	0.023	3.6	0.88	0.87	0.71
Total Xylenes	0.0050	0.19	11	4.4	3.5	0.51
MTBE	2.5	0.37	N.D.	10	10	6.9
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	10	5.0	10	20
Date Analyzed:	7/28/97	7/28/97	7/28/97	7/29/97	7/28/97
Instrument Identification:	HP-5	HP-5	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 40-140%)	73	58	43	59	-

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Jim Bava
Project Manager

7071047.GGG <1>

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler-Ryan
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Barbara Sieminski

Client Project ID: Chevron #9-0076
Matrix: Solid

QC Sample Group: 7071047-051

Reported: Aug 5, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	SP072897	SP072897	SP072897	SP072897
	8020EXA	8020EXA	8020EXA	8020EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD #:	7071001	7071001	7071001	7071001
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/28/97	7/28/97	7/28/97	7/28/97
Analyzed Date:	7/28/97	7/28/97	7/28/97	7/28/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg
Result:	0.75	0.75	0.78	2.4
MS % Recovery:	188	188	195	200
Dup. Result:	0.79	0.79	0.82	2.5
MSD % Recov.:	198	198	205	208
RPD:	5.2	5.2	5.0	4.1
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	5LCS072897	5LCS072897	5LCS072897	5LCS072897
Prepared Date:	7/28/97	7/28/97	7/28/97	7/28/97
Analyzed Date:	7/28/97	7/28/97	7/28/97	7/28/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	19	19	19	59
LCS % Recov.:	95	95	95	98

MS/MSD LCS Control Limits	50-150	50-150	50-150	50-150

SEQUOIA ANALYTICAL, #1271

Jim Bava
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler-Ryan
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Barbara Sieminski

Client Project ID: Chevron #9-0076
Matrix: Solid
QC Sample Group: 7071047
Reported: Aug 5, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	SP072997	SP072997	SP072997	SP072997
	8020EXA	8020EXA	8020EXA	8020EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD #:	7071420	7071420	7071420	7071420
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/29/97	7/29/97	7/29/97	7/29/97
Analyzed Date:	7/29/97	7/29/97	7/29/97	7/29/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg
Result:	0.69	0.72	0.72	2.2
MS % Recovery:	173	180	180	183
Dup. Result:	0.72	0.74	0.74	2.3
MSD % Recov.:	180	185	185	192
RPD:	4.3	2.7	2.7	4.4
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	5LCS072997	5LCS072997	5LCS072997	5LCS072997
Prepared Date:	7/29/97	7/29/97	7/29/97	7/29/97
Analyzed Date:	7/29/97	7/29/97	7/29/97	7/29/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	19	19	19	59
LCS % Recov.:	95	95	95	98

MS/MSD LCS Control Limits	50-150	50-150	50-150	50-150

SEQUOIA ANALYTICAL, #1271

Jim Bava
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Lab Report

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

Chevron Facility Number 9-0076
Facility Address 4265 Foothill Blvd, Oakland
Consultant Project Number 121.9.02
Consultant Name Gettler-Ryan
Address 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name) Barbara Sieminski
(Phone) 510 551-7555 (Fax Number) 510 551-7888

Chevron Contact (Name) Phil Briggs
(Phone) (510) 842-9136
Laboratory Name Sequoia
Laboratory Release Number 4520889
Samples Collected by (Name) Barbara Sieminski
Collection Date 07/21/97
Signature B Sieminski

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: TPH Gas + BTEX w/MTBE (8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	Remarks
PL1-4		1	S	D	15:15		Yes	X		7071047						
PL2-4		1			15:20			X		7071048						
PL3-4		1			15:30			X		7071049						
PL4-4		1			15:35			X		7071050						
~~PL5-4~~		1			15:40			X		7071051						
PL5-4																

DO NOT BIL
TB-LB ANAL

2819

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Barbara Sieminski	G-R	07/21/97 1:50			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					7/21/97

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 91/HCH

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler-Ryan	Client Project ID:	Chevron #9-0076	Sampled: Jul 21, 1997
6747 Sierra Court, Suite J	Sample Matrix:	Soil	Received: Jul 21, 1997
Dublin, CA 94568	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Jul 24, 1997
Attention: Barbara Sieminski	First Sample #:	707-1052	

QC Batch Number: SP072297 SP072297

8020EXA 8020EXA

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 707-1052 SP2-(A-D)	Sample I.D. 707-1053 SP1-(A-D)
Purgeable Hydrocarbons	1.0	N.D.	43
Benzene	0.0050	N.D.	0.034
Toluene	0.0050	N.D.	0.045
Ethyl Benzene	0.0050	N.D.	0.29
Total Xylenes	0.0050	N.D.	0.93
Chromatogram Pattern:		--	Gasoline & Unidentified Hydrocarbons >C8

Quality Control Data

Report Limit Multiplication Factor:	1.0	5.0
Date Analyzed:	7/22/97	7/22/97
Instrument Identification:	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 40-140%)	88	70

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

for Jim Bava
Project Manager

7071052.GGG <1>

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler-Ryan	Client Project ID:	Chevron #9-0076	Sampled: Jul 21, 1997
6747 Sierra Court, Suite J	Sample Descript:	Soil, SP1-(A-D)	Received: Jul 21, 1997
Dublin, CA 94568	Analysis Method:	EPA 5030/8010	Analyzed: Jul 22, 1997
Attention: Barbara Sieminski	Lab Number:	707-1053	Reported: Jul 24, 1997

QC Batch Number: SP0717978010EXA

Instrument ID: HP-7

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	25	N.D.
Bromoform	25	N.D.
Bromomethane	50	N.D.
Carbon tetrachloride	25	N.D.
Chlorobenzene	25	N.D.
Chloroethane	50	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	25	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	25	N.D.
1,2-Dichlorobenzene	25	N.D.
1,3-Dichlorobenzene	25	N.D.
1,4-Dichlorobenzene	25	N.D.
1,1-Dichloroethane	25	N.D.
1,2-Dichloroethane	25	N.D.
1,1-Dichloroethene	25	N.D.
cis-1,2-Dichloroethene	25	N.D.
trans-1,2-Dichloroethene	25	N.D.
1,2-Dichloropropane	25	N.D.
cis-1,3-Dichloropropene	25	N.D.
trans-1,3-Dichloropropene	25	N.D.
Methylene chloride	250	N.D.
1,1,2,2-Tetrachloroethane	25	N.D.
Tetrachloroethene	25	N.D.
1,1,1-Trichloroethane	25	N.D.
1,1,2-Trichloroethane	25	N.D.
Trichloroethene	25	N.D.
Trichlorofluoromethane	25	N.D.
Vinyl chloride	50	N.D.

Surrogates	Control Limit %		% Recovery
Dibromodifluoromethane	50	150	48
4-Bromofluorobenzene	50	150	48

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Please Note:
Detection Limit was raised due to the presence of non-target compounds.

Melissa A. Brewer
for Jim Bava
Project Manager

7071052.GGG <2>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler-Ryan
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Barbara Sieminski

Client Project ID: Chevron #9-0076
Sample Descript: Soil
Analysis for: Lead
First Sample #: 707-1052

Sampled: Jul 21, 1997
Received: Jul 21, 1997
Digested: Jul 22, 1997
Analyzed: Jul 23, 1997
Reported: Jul 24, 1997

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg	QC Batch Number	Instrument ID
707-1052	SP2-(A-D)	1.0	36	ME0722976010MDA	MV-4
707-1053	SP1-(A-D)	1.0	220	ME0722976010MDA	MV-4

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
for Jim Bava
Project Manager

Sequoia Analytical

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Gettler-Ryan
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Barbara Sieminski

Client Project ID: Chevron #9-0076
Matrix: Solid
QC Sample Group: 7071052-053
Reported: Jul 29, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
QC Batch#:	GC072297	GC072297	GC072297	GC072297	ME072297
	8020EXA	8020EXA	8020EXA	8020EXA	6010MDA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 6010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3050
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater	J. Kelly
MS/MSD #:	7070978	7070978	7070978	7070978	7071040
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	4.6 mg/kg
Prepared Date:	7/22/97	7/22/97	7/22/97	7/22/97	7/22/97
Analyzed Date:	7/22/97	7/22/97	7/22/97	7/22/97	7/23/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	MV-4
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	50 mg/kg
Result:	0.68	0.70	0.70	2.2	50
MS % Recovery:	170	175	175	183	91
Dup. Result:	0.71	0.73	0.72	2.2	49
MSD % Recov.:	178	183	180	183	89
RPD:	4.3	4.2	2.8	0.0	2.0
RPD Limit:	0-25	0-25	0-25	0-25	0-20

LCS #:	5LCS072297	5LCS072297	5LCS072297	5LCS072297	LCS072297
Prepared Date:	7/22/97	7/22/97	7/22/97	7/22/97	7/22/97
Analyzed Date:	7/22/97	7/22/97	7/22/97	7/22/97	7/23/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	MV-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	50 mg/kg
LCS Result:	19	19	19	59	47
LCS % Recov.:	95	95	95	98	94

MS/MSD LCS Control Limits	50-150	50-150	50-150	50-150	80-120

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
for Jim Bava
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler-Ryan
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Barbara Sieminski

Client Project ID: Chevron #9-0076
Matrix: Solid
QC Sample Group: 7071052-053
Reported: Jul 29, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	SP071797	SP071797	SP071797
	8010EXA	8010EXA	8010EXA
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030
Analyst:	K. Nill	K. Nill	K. Nill
MS/MSD #:	BLK071797	BLK071797	BLK071797
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	7/17/97	7/17/97	7/17/97
Analyzed Date:	7/17/97	7/17/97	7/17/97
Instrument I.D.#:	HP-7	HP-7	HP-7
Conc. Spiked:	200 µg/Kg	200 µg/Kg	200 µg/Kg
Result:	140	150	160
MS % Recovery:	70	75	80
Dup. Result:	130	160	170
MSD % Recov.:	65	80	85
RPD:	7.4	6.5	6.1
RPD Limit:	0-25	0-25	0-25

LCS #:	7LCS072297	7LCS072297	7LCS072297
Prepared Date:	7/22/97	7/22/97	7/22/97
Analyzed Date:	7/22/97	7/22/97	7/22/97
Instrument I.D.#:	HP-7	HP-7	HP-7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L
LCS Result:	9.1	8.7	7.8
LCS % Recov.:	91	87	78

MS/MSD LCS Control Limits	65-135	70-130	70-130

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
for Jim Bava
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

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

Chevron Facility Number 9-0076
Facility Address 4265 Foothill Blvd, Oakland
Consultant Project Number 1219.02
Consultant Name Gettler-Ryan
Address 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name) Barbara Sieminski
(Phone) 510 551-7555 (Fax Number) 510 551-7888

Chevron Contact (Name) Phil Briggs
(Phone) (510) 842-9136
Laboratory Name Sequoia
Laboratory Release Number 4520889
Samples Collected by (Name) Barbara Sieminski
Collection Date 07/21/97
Signature B Sieminski

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: TPH Gas + BTEX (8015) (8020)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	Total Lead					Remarks
SP2-A		1	S	G	15:50		X	X								X	7071052				DO NOT BIL TB-LB ANAL
SP2-B		1			15:52		X	X								X					
SP2-C		1			15:54		X	X								X					
SP2-D		1			15:56		X	X			[redacted]					X					P 8 19
SP1-A		1			16:00		X	X			X					X	7071053				
SP1-B		1			16:02		X	X			X					X					
SP1-C		1			16:04		X	X			X					X					
SP1-D		1			16:06		X	X			X					X					

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Barbara Sieminski	G-R	07/21/97			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			SAL		7-21-97 1750

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 01/MCH

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler-Ryan
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Greg Gurss

Client Project ID: Chevron #9-0076
Sample Descript: STLC extract of Soil
Analysis for: Lead
First Sample #: 707-1053

Sampled: Jul 21, 1997
Relogged: Jul 25, 1997
Digested: Jul 25, 1997
Analyzed: Jul 28, 1997
Reported: Jul 28, 1997

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L	QC Batch Number	Instrument ID
707-1053	SP1- (A-D)	0.020	14	ME072597STLCMDA	MV-3

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

for Jim Bava
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Gettler-Ryan
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Greg Gurss

Client Project ID: Chevron #9-0076
Matrix: STLC extract
QC Sample Group: 7071053
Reported: Jul 28, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Lead
QC Batch#:	ME072597
	STLC MDA
Analy. Method:	EPA 6010
Prep. Method:	STLC
Analyst:	J. Kelly
MS/MSD #:	7071053
Sample Conc.:	14 mg/L
Prepared Date:	7/25/97
Analyzed Date:	7/28/97
Instrument I.D.#:	MV-3
Conc. Spiked:	1.0 mg/L
Result:	12
MS % Recovery:	-
Dup. Result:	14
MSD % Recov.:	-
RPD:	15
RPD Limit:	0-20

LCS #:	LCS072597
Prepared Date:	7/25/97
Analyzed Date:	7/28/97
Instrument I.D.#:	MV-3
Conc. Spiked:	1.0 mg/L
LCS Result:	0.86
LCS % Recov.:	86

MS/MSD LCS Control Limits	80-120

SEQUOIA ANALYTICAL, #1271

for Melissa D. Brewer
Jim Bava
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

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REQUEST TO RELOG SAMPLES

(Please submit to sample control with a copy of the COC)

CLIENT: Dettler Ryan MATRIX: Soil

PREVIOUSLY LOGGED SAMPLES

☐ TAT Change status to: ASAP

Change status as of Day: 7/25/97 Time: 11:40 am

☐ CHANGE ANALYSES

Add Analyses ☒ Cancel Analyses ☐

Sequoia Project ID: 9707302

Sample Number	Analyses
707-1053	STLC Lead 7071252

FR 1 39

SAMPLES ON HOLD

Sample Description	Analyses

Client Authorization (Person/Date/Time): Greg Gruss / 7/25/97 / 11:40

Project Manager: Melissa Brewer for Jim Bava

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

Chevron Facility Number 9-0076
Facility Address 4265 Foothill Blvd, Oakland
Consultant Project Number 219.02
Consultant Name Gettler-Ryan
Address 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name) Barbara Sieminski
(Phone) 551-7555 (Fax Number) 551-7888

Chevron Contact (Name) Phil Briggs
(Phone) (510) 842-9136
Laboratory Name Sequoia
Laboratory Release Number 4520889
Samples Collected by (Name) Barbara Sieminski
Collection Date 07/21/97
Signature B. Sieminski

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	TPH Gas + BTEX (8015) (8020)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	Total Lead					DO NOT BIL TB-LB ANAL Remarks
SP2-A		1	S	G	15:50		X	X								X		7071052			
SP2-B		1			15:52		X	X								X					
SP2C		1			15:54		X	X								X					
SP2D	composite	1			15:56		X	X			[redacted]					X					TB 8 19
SP1-A		1			16:00		X	X			X					X		7071053			
SP1-B		1			16:02		X	X			X					X					
SP1-C	composite	1			16:04		X	X			X					X					
SP1-D		1			16:06		X	X			X					X					

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Barbara Sieminski	G-R	07/21/97			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			SAL		7-21-97 17:17

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 01/MCH

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler-Ryan
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Greg Gurss

Client Project ID: Chevron #9-0076
Sample Descript: TCLP extract of Soil
Analysis for: Lead
First Sample #: 707_1053

Sampled: Jul 21, 1997
Relogged: Jul 28, 1997
Digested: Jul 29, 1997
Analyzed: Jul 29, 1997
Reported: Jul 29, 1997

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L	QC Batch Number	Instrument ID
707-1053	SP1- (A-D)	0.010	0.67	ME072997TCLPMDB	MV-4

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
for Jim Bava
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler-Ryan
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Greg Gurss

Client Project ID: Chevron #9-0076
Matrix: TCLP extract

QC Sample Group: 7071053

Reported: Jul 29, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Lead
QC Batch#:	ME072997
	TCLPMDB
Analy. Method:	EPA 6010
Prep. Method:	EPA 1311
Analyst:	J. Kelly
MS/MSD #:	7071053
Sample Conc.:	0.67 mg/L
Prepared Date:	7/29/97
Analyzed Date:	7/29/97
Instrument I.D.#:	MV-4
Conc. Spiked:	1.0 mg/L
Result:	1.6
MS % Recovery:	93
Dup. Result:	1.6
MSD % Recov.:	93
RPD:	0.0
RPD Limit:	0-20

LCS #:	LCS072997B
Prepared Date:	7/29/97
Analyzed Date:	7/29/97
Instrument I.D.#:	MV-4
Conc. Spiked:	1.0 mg/L
LCS Result:	0.97
LCS % Recov.:	97

MS/MSD LCS Control Limits	80-120

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
for Jim Bava
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.
** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

9707395

REQUEST TO RELOG SAMPLES

(Please submit to sample control with a copy of the COC)

CLIENT: Gettler Ryan MATRIX: Soil

PREVIOUSLY LOGGED SAMPLES

☐ TAT Change status to: ASAP

Change status as of Day: 7/28/97 Time: 1640

☐ CHANGE ANALYSES

Add Analyses ☒ Cancel Analyses ☐

Sequoia Project ID: 9707302

Sample Number	Analyses	
707-1053	TCLP - Lead	7071385

SAMPLES ON HOLD

Sample Description	Analyses

Client Authorization (Person/Date/Time): Steve C. / 7/28/97 / 1640

Project Manager: Melissa Brewer for Jim Bava

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

Chevron Facility Number 1 10
Facility Address 4265 Foothill Blvd, Oakland
Consultant Project Number 1219.02
Consultant Name Gettler-Ryan
Address 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name) Barbara Sieminski
(Phone) 510 551-7555 (Fax Number) 510 551-7888

Chevron Contact (Name) [illegible]
(Phone) (510) 842-9136
Laboratory Name Sequoia
Laboratory Release Number 4520889
Samples Collected by (Name) Barbara Sieminski
Collection Date 07/21/97
Signature B Sieminski

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Lead (Yes or No)	TPH Gas + BTEX (8015) (8020)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	Total Lead					DO NOT BILL TB-LB ANALY Remarks
SP2-A		1	S	G	15:50		X	X								X	70721052				
SP2-B		1			15:52		X	X								X					
SP2-C		1			15:54		X	X								X					
SP2-D		1			15:56		X	X			[redacted]					X					2819
SP1-A		1			16:00		X	X			X					X	70721053				
SP1-B		1			16:02		X	X			X					X					
SP1-C		1			16:04		X	X			X					X					
SP1-D		1	V	V	16:06		X	X			X					X					

Analyses To Be Performed

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Barbara Sieminski	GR	07/21/97			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			SM		7-21-97 17

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

EDC-3.DWG/03-91/HCH