



**Chevron U.S.A. Products Company**

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500  
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

SEP 15 1992

September 2, 1992

Ms. Susan Hugo  
Alameda County Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

510 436

Re : Chevron Service Station No. 9-1740  
6550 Moraga Avenue, Oakland, CA 94611

Ms. Susan Hugo :

Enclosed is Touchstone Developments Waste Oil Tank Removal Observation Report dated August 31, 1992 for the above referenced site.

Currently, a remediation work plan is being prepared for the remediation of waste oil contaminated soil along the sidewalls of the waste oil pit. This work plan will be forwarded to your office when it is completed.

If you have any questions or comments, please feel free to call me at (510) 842-8752.

Sincerely,

Chevron U.S.A. Products Co.

Kenneth Kan  
Engineer

LKAN/MacFile 9-1740R3

Enclosure

cc : Mr. Eddy So  
RWQCB-S.F. Bay Region  
2101 Webster Street, Suite 500  
Oakland, CA 94612

Mr. Steve Willer  
Chevron U.S.A. Products Co.

9/15/92  
{ Cu - high levels - 95-110 ppm  
must test for solubles  
or (Trivalent & hexavalent)  
over-caution necessary to  
address soil contamination





**WASTE OIL TANK REMOVAL OBSERVATION REPORT**

Chevron Service Station No. 9-1740  
6550 Moraga Avenue  
Oakland, California

August 31, 1992



August 31, 1992

Chevron U.S.A.  
2410 Camino Ramon  
San Ramon, California 94583

Attention: Kenneth Kan

Reference: Chevron Service Station No. 9-1740  
6550 Moraga Avenue  
Oakland, California

Gentlemen:

#### INTRODUCTION

This report summarizes the field activities performed at the above referenced site (figure 1) during the ~~recent removal~~ of a 1000 gallon ~~waste oil tank~~. Excavation activities were performed by Gettler-Ryan, Inc. of Hayward, California. A Touchstone Developments (TD) representative was present on-site to observe the tank removal and to obtain soil samples from the tank excavation and associated stockpile. The soil sampling described in this report was performed ~~August 20, 1992~~ to comply with current State of California Regional Water Quality Control Board and Alameda County Environmental Health Division guidelines.

#### SITE DESCRIPTION

The site is currently operating as a Chevron Service Station at the corner of Moraga Avenue and Mountain Boulevard. The waste oil tank was located next to the ~~west wall~~ of the service station building (figure 1).

#### FIELD EXCAVATION ACTIVITIES

The waste oil tank was removed August 20, 1992. Tank removal was witnessed by Valida Holmes, a representative of the City of Oakland Fire Bureau, and Susan Hugo with Alameda Environmental Health Department. Also present was Kenneth Kan representing Chevron U.S.A. The excavation was approximately ~~10 feet wide by 12 feet long~~ by 9 1/2 feet deep. An estimated total of ~~50 cubic yards of soil~~ was removed and placed on visqueen in one stockpile (figure 2). The tank was a 1000 gallon, ~~single wall fiberglass tank~~ with no obvious holes or leaks. There were signs of overspill on the top and sides of the tank at the fill end.

After waste oil tank removal, Gettler-Ryan, Inc. performed a limited amount of overexcavation. Overexcavation ~~was limited~~ due to the presence of a sewer lateral along the south side, the station building on the east side, ~~wash enclosure along~~ the northern side and a monitoring well next to the western side. Groundwater occurred at approximately ~~5.1~~ feet below grade. Sidewall samples were taken where overexcavation ceased. These samples were collected in the center of each sidewall (figure 3) between ~~5 and 5.1~~ feet below grade and designated WX-1 through WX-4. Approximately ~~15~~ cubic yards was generated during the tank removal, and approximately another ~~22~~ cubic yards during the overexcavation totaling approximately ~~30~~ cubic yards generated.

#### SOIL SAMPLING

Soil samples were collected by pushing a clean six-inch-long brass tube (2 inches in diameter) into the soil until completely full. The ends of each tube were covered with aluminium foil and sealed with plastic end caps. The sample was then labeled, placed in a cooler on ice, entered on a Chain-of-Custody form and transported to Superior Precision Analytical laboratory, a State-certified analytical laboratory located in Martinez, California.

Stockpile samples were collected by removing the top 6 to 12 inches of soil, then pushing the tube into the soil until completely full. This method was repeated again three times on the same stockpile. It was then handled as described above.

#### Excavation Sampling

Two excavation samples (~~NO-1 & NO-2~~) were collected from beneath each end of the waste oil tank at a depth of approximately ~~6~~ feet below grade (figure 2). The sample was collected by removing the top few inches of soil from the backhoe bucket then pushing the sampling tube into the soil. Both samples from the bottom and sidewalls were analyzed for Total Petroleum Hydrocarbons calculated as gasoline (~~TPH-gas~~), Diesel (~~TPH-diesel~~) and Oil (~~TPH-oil~~) according to EPA Method 8015 (modified), Benzene, Toluene, Ethylbenzene and Xylenes (~~TPH~~) according to EPA Method 8020, Halogenated Volatile Organics (VOCs) according to EPA Method 8010, Total Oil and Grease (TOG) according to ASTM Method 5520F, ICAP Metals by atomic absorption (EPA Method 7000) and Semi-Volatile Organic Priority Pollutants according to EPA Method ~~8210~~.

Stockpile Sampling

Four stockpile samples, ~~WS-1a-d~~, were collected from the stockpile of soil generated (figure 2). WS-1a-d represents approximately 50 cubic yards of soil. The four samples were composited in the laboratory and analyzed for Total Recoverable Petroleum Hydrocarbons according to EPA Method 418.1, Semi-Volatile Organic Priority Pollutants according to EPA Method 8270, Metals by atomic absorption/ICAP according to EPA Methods 7000/6010/200.7.

ANALYTICAL RESULTS

Excavation Results

Analytical laboratory results for samples WO-1 and WO-2 indicate 1.6 parts per million (ppm) and Non Detect (ND) respectively for TPH-gas, and 11 ppm and 13 ppm TPH-motor oil. Chemical analytical data for both excavation and stockpile samples are summarized in Table 1.

SOIL DISPOSTION

During waste oil tank removal and excavation activities, approximately 50 cubic yards of soil represented by composited sample WS-1 a-d was loaded and transported by Stamco Trucking to ~~Stockton, California for treatment.~~

If you have any questions, please call me at (707) 538-8818.

Touchstone Developments by,

Jeff L. Monroe

JLM/jlm

- Table 1: Chemical Analytical Summary
- Figure 1: Site Plan
- Figure 2: Sample Locations
- Figure 3: Overexcavation and Sidewall Samples
- Appendix A: Analytical Laboratory Report and Chain-of-Custody form

**TABLE 1: Analytical Results**

Analytic Results in Parts Per Million (ppm) Unless Noted

**WASTE OIL EXCAVATION SAMPLES**

Sample Number	Sample Depth (ft)	Date Sampled	Laboratory	TPH-Gas	TPH-Diesel	TOG	B	T	E	X	8010	8270	TPH-Oil	Cd	Cr	Pb	Zn	Ni
WO-1	9	8/20/92	West	1.6	ND<10	ND<50	<del>ND&lt;50</del>	ND	ND	.0095	DCB	ND	11	2.7	<del>ND</del>	6.0	80	94
WO-2	9	8/20/92	West	ND<1	ND<10	ND<50	ND	ND	ND	ND	ND	ND	13	3.5	<del>ND</del>	8.2	110	120
WX-1	9	8/20/92	West	<del>1.6</del>	<del>ND</del>	<del>110</del>	<del>ND</del>	0.13	0.31	2.1	DCB	NA	<del>ND</del>	3.4	8.5	10	45	78
WX-2	9	8/20/92	West	<del>1.6</del>	<del>27</del>	<del>300</del>	<del>ND</del>	ND	0.021	0.26	DCB	NA	<del>ND</del>	3.9	<del>ND</del>	11	55	84
WX-3	5.5	8/20/92	West	<del>1.6</del>	<del>ND</del>	<del>100</del>	<del>ND</del>	0.19	0.40	2.3	DCB	NA	<del>ND</del>	4.0	<del>ND</del>	11	64	82
WX-4	5.5	8/20/92	West	<del>ND</del>	150	<del>ND</del>	ND	4.0	1.9	15	DCB	NA	<del>ND</del>	2.6	<del>ND</del>	33	110	23

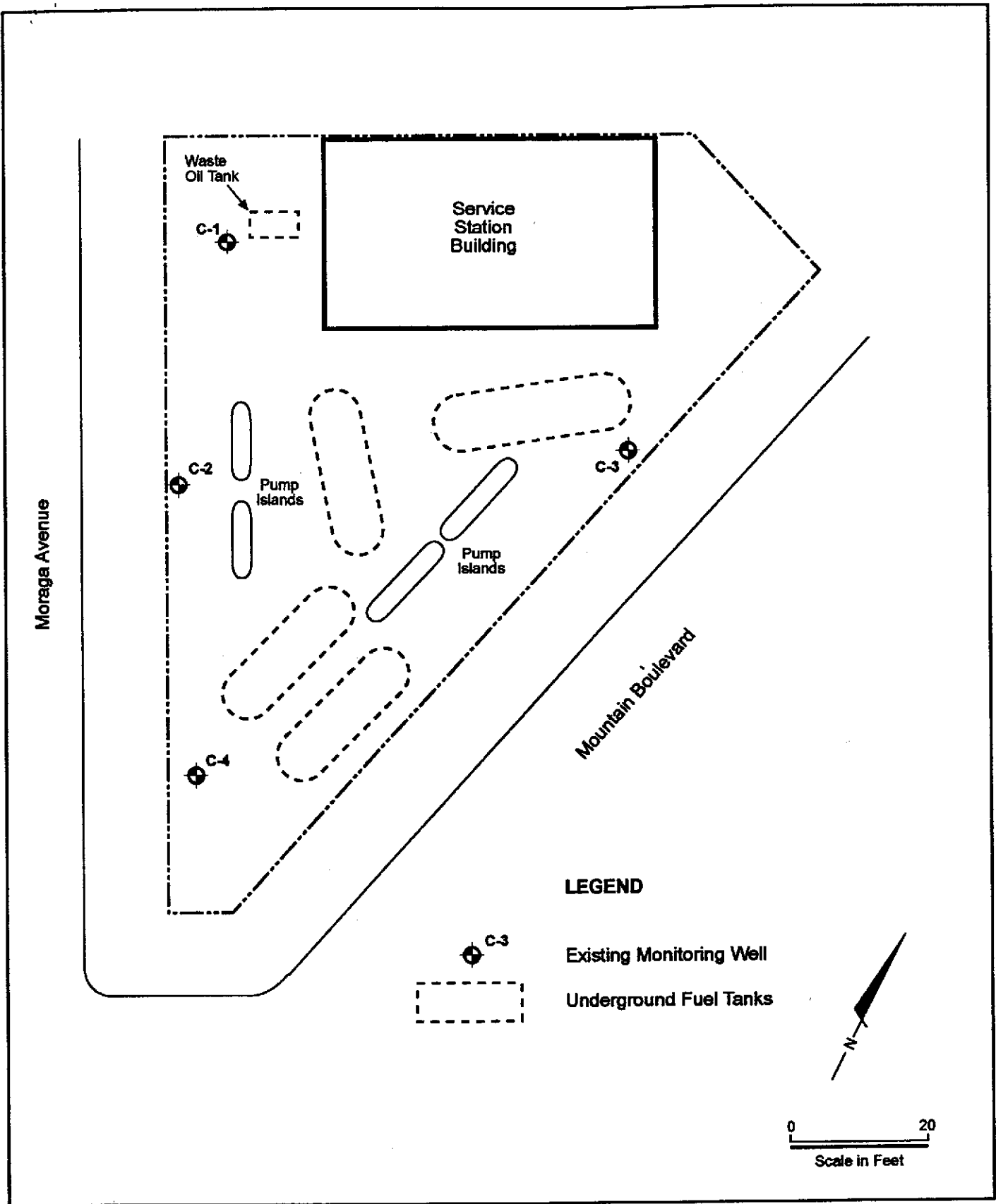
*Cr 6/Cr 3*  
*↑*  
*Cr*  
*near STAC*  
*↑*

Trichloroethane - ethane / Tetrachloroethane

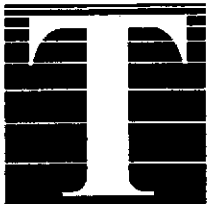
**STOCKPILE SAMPLES**

Sample Number	Date Sampled	Laboratory	8270	418.1 (TRPH)	Sb	As	Ba	Bc	Cd	Cr	Co	Cu	Pb	Hg	Mo	NI	Se	Ag	Tl	V	ZN
WB-1	8/20/92	West	ND	<del>ND</del>	ND	ND	260	1.1	3.5	91	17	180	18	ND	24	63	ND	1.7	ND	68	97

- ND = Not Detected at or above the laboratory detection limit
- ppb = parts per billion
- TRPH = Total Recoverable Petroleum Hydrocarbons
- TCLP = Toxicity Characteristic Leachate Procedure
- TPH-Gas = Total Petroleum Hydrocarbons calculated as gasoline
- TPH-Diesel = Total Petroleum Hydrocarbons calculated as diesel
- TOG = Total Oil and Gas
- DCB = Dichlorobenzene
- DCE = Dichloroethane
- B = Benzene
- T = Toluene
- E = Ethylbenzene
- X = Xylenes
- Sb = Antimony
- As = Arsenic
- Ba = Barium
- Be = Beryllium
- Cd = Cadmium
- Cr = Chromium
- Co = Cobalt
- Cu = Copper
- Pb = Lead
- Hg = Mercury
- Mo = Molybdenum
- Ni = Nickel
- Se = Selenium
- Ag = Silver
- Tl = Thallium
- V = Vanadium
- Zn = Zinc



FIGURE



**Touchstone  
Developments**  
Environmental Management

**Site Plan**  
Former Chevron Station 9-1740  
6550 Moraga Avenue  
Oakland, California

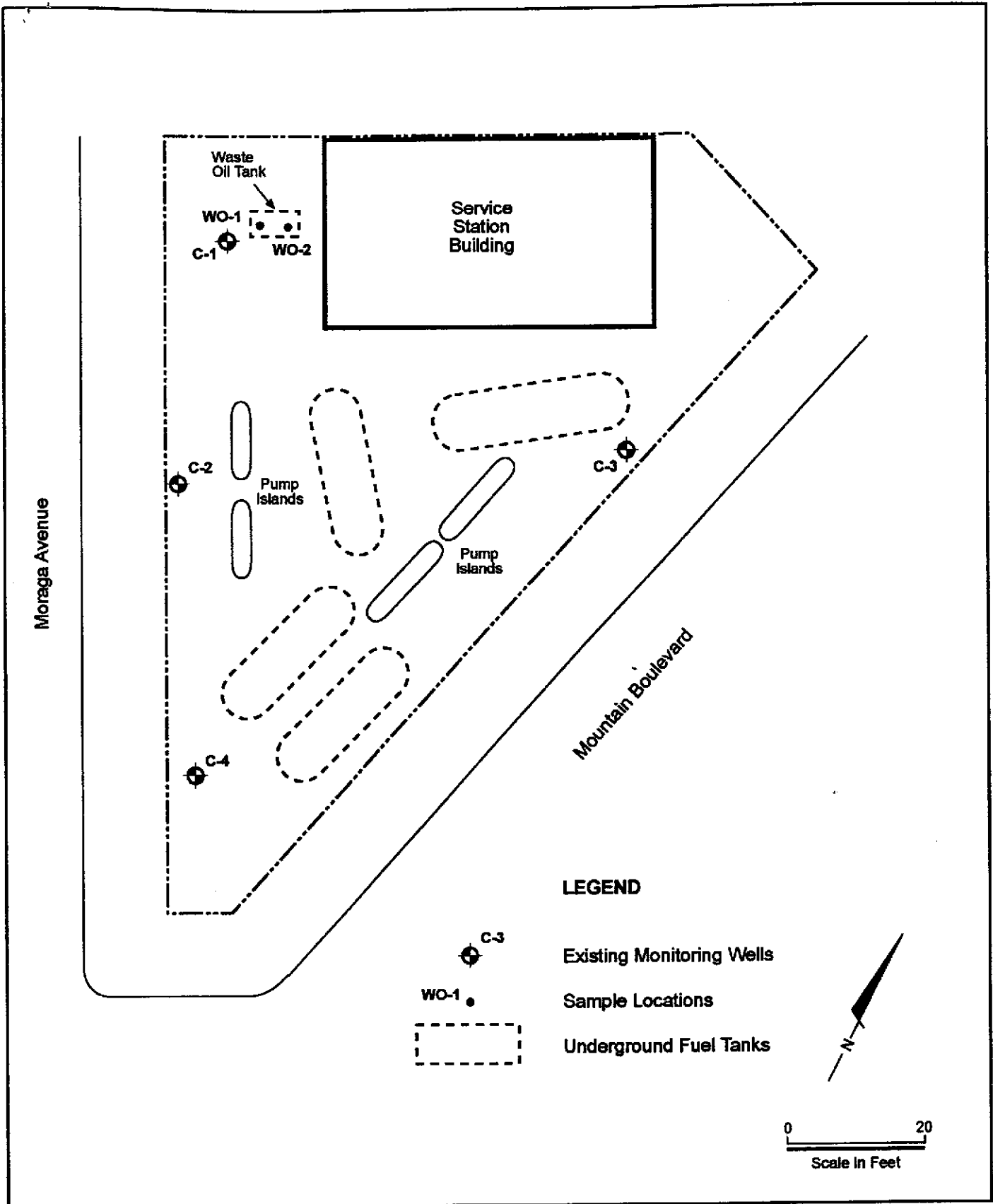
**1**

PROJECT NUMBER  
1740-1

DRAWN  
PM

APPROVED

DATE  
9/92



FIGURE

**2**



**Touchstone  
Developments**  
Environmental Management

**Site Plan / Sample Locations**  
Former Chevron Station 9-1740  
6550 Moraga Avenue  
Oakland, California

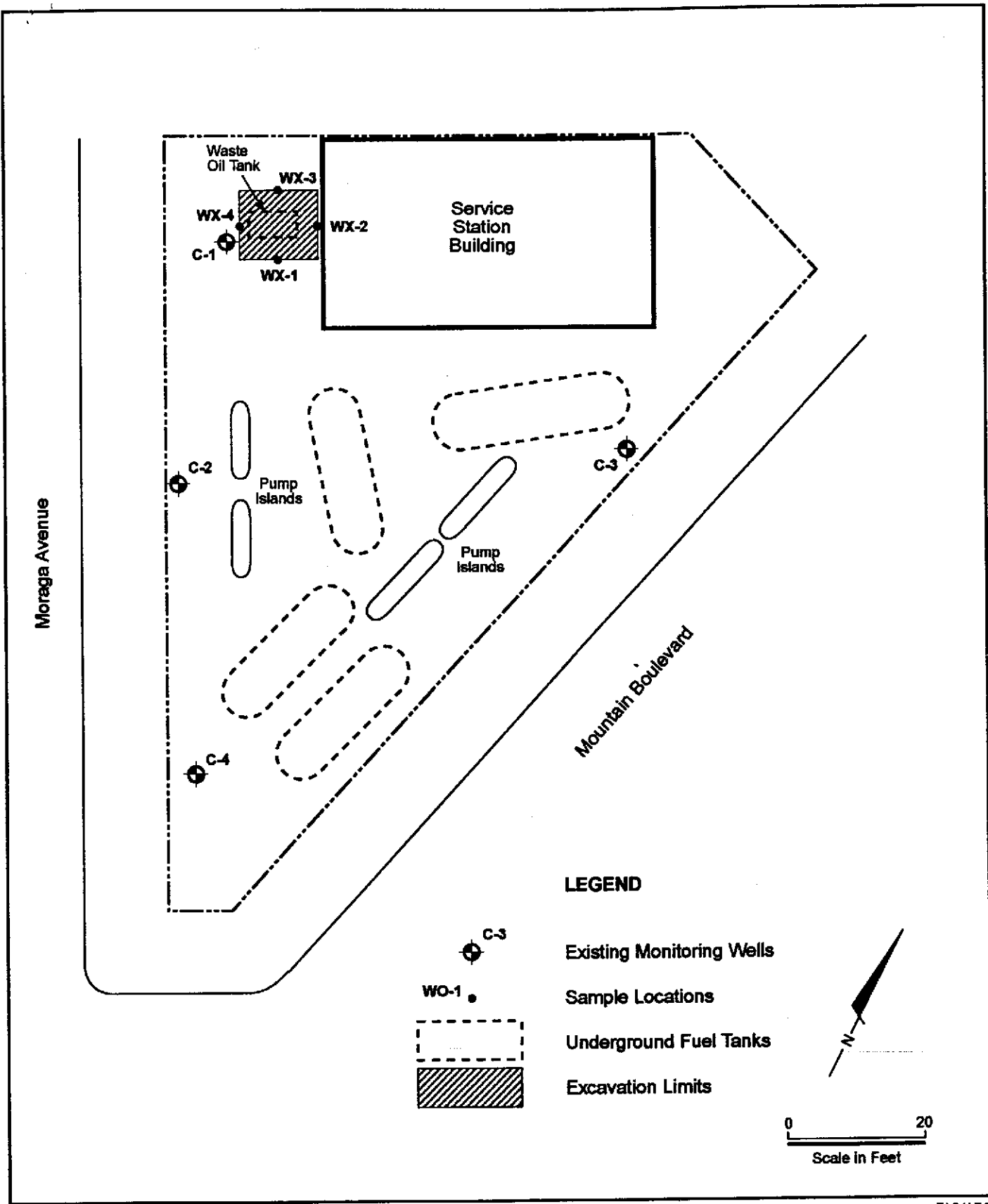
PROJECT NUMBER  
1740-1

DRAWN  
PM

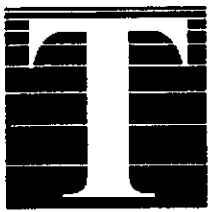
APPROVED

DATE  
9/92





FIGURE



**Touchstone  
Developments**  
Environmental Management

**Site Plan / Overexcavation**  
Former Chevron Station 9-1740  
6550 Moraga Avenue  
Oakland, California

**3**

PROJECT NUMBER  
1740-1

DRAWN  
PM

APPROVED

DATE  
9/92

**APPENDIX A: Analytical Laboratory Report and Chain-of-Custody Forms**



August 25, 1992  
Sample Log 4900

Jeff Monroe  
Touchstone Development  
3799 Wallace Rd.  
Santa Rosa, CA 95404

Subject: Analytical Results for 7 Soil Samples  
Identified as: Project # 1740-1 (Chevron 9-1740)  
Received: 08/20/92

Dear Mr. Monroe:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on August 24, 1992 and describes procedures used to analyze the samples.

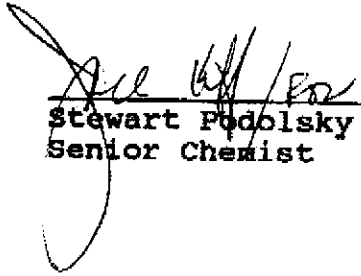
Sample(s) were received in brass sleeves that were sealed with PTFE sheets and plastic endcaps. Each sample was transported and received under documented chain of custody and stored at 4 degrees C until analysis was performed.

Sample(s) were analyzed using the following method(s):

- "BTEX" (EPA Method 8020/Purge-and-Trap)
- "TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)
- "TPH as Diesel, Motor Oil, Jet/Kerosene" (Mod. 8015/Extraction)
- "Halogenated Solvents" (EPA Method 8010)
- "Metals by Atomic Absorption/ICAP" (EPA Methods 7000/6010/200.7)
- "Oil and Grease" (ASTM Method 5520 E,F)
- "Total Recoverable Petroleum Hydrocarbons" (EPA 418.1)
- "Semi-Volatile Organic Priority Pollutants" (EPA Method 8270)

Please refer to the following table(s) for summarized analytical results and contact us at 916-757-4650 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:

  
Stewart Podolsky  
Senior Chemist



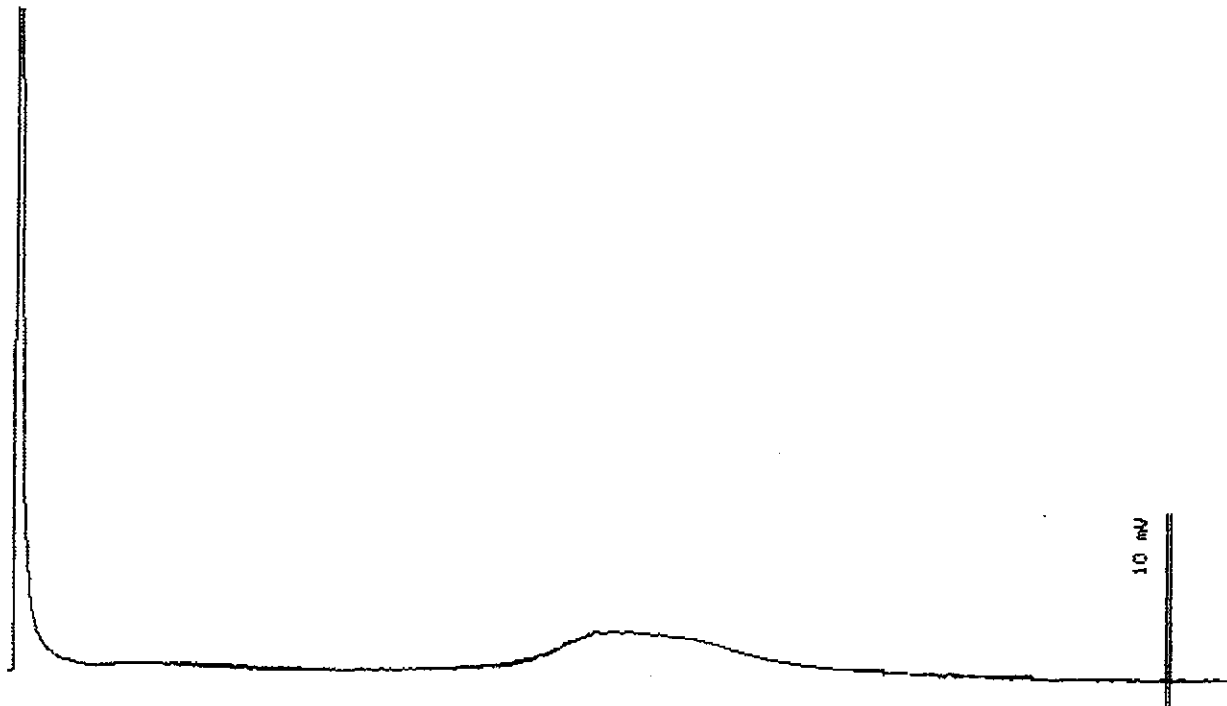
Sample Log 4900  
4900-1

Sample: [REDACTED]

From : Project # 1740-1 (Chevron 9-1740)  
Sampled : 08/20/92  
Extracted: 08/20/92  
Dilution : 1:1  
Matrix : Soil

QC Batch : 8045C

Parameter	(MDL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>
TPH as Diesel	(10)	<10
TPH as Motor Oil	(10)	11



EPA Method 8018

Motor Oil

Date: 08-20-92 Time: 23:26:46  
Column : 0.53mm ID X 15m DB1 (J&H Scientific)

*S. Podolsky*  
Stewart Podolsky  
Senior Chemist



Sample Log 4900  
4900-1

Sample: WO-1

From : Project # 1740-1 (Chevron 9-1740)

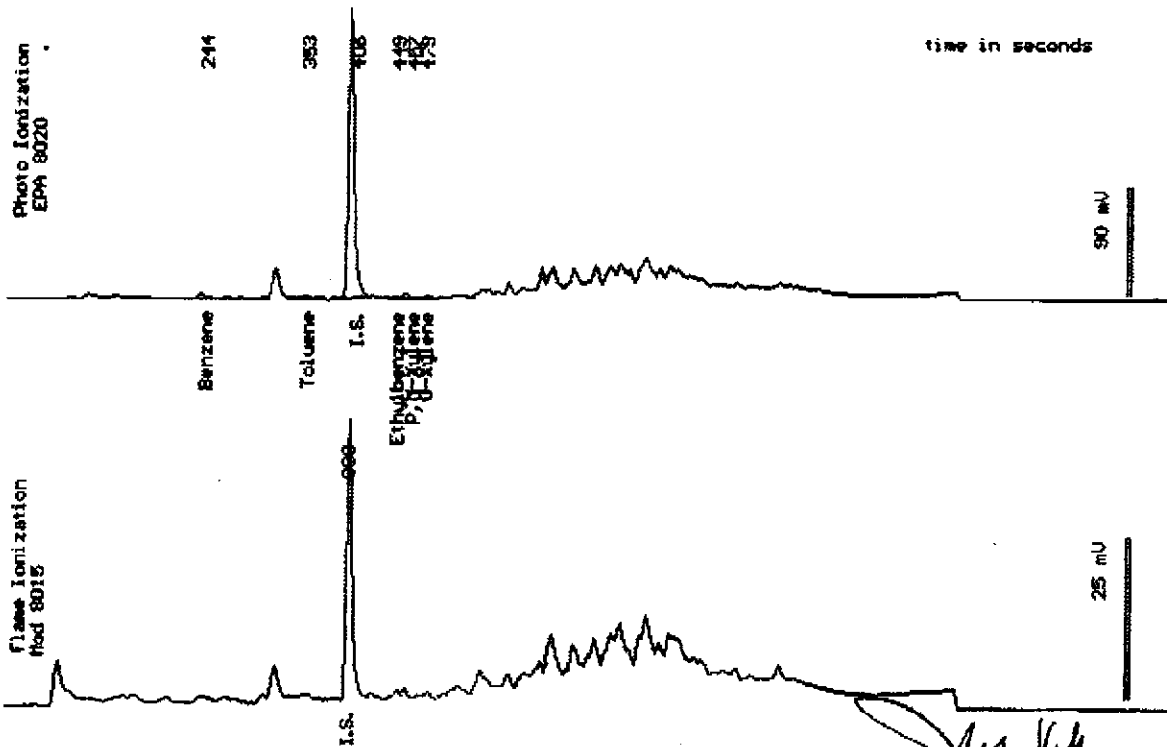
Sampled : 08/20/92

Dilution : 1:1

QC Batch : 6061C

Matrix : Soil

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
Benzene	(.0050)	.0073
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	.0095
TPH as Gasoline	(1.0)	1.6



Date Analyzed 08-19-92  
Column : 0.53mm ID X 30m DB5 (J&M Scientific)

Joel Riff  
Senior Chemist



August 24, 1992  
Sample Log 4900

4900-1

Sample: WO-1

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

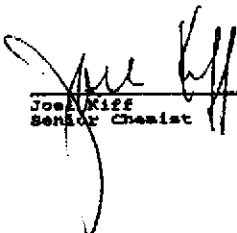
Received : 08/20/92

Matrix : Soil

Analyzed : 08/23/92

8010 - Halogenated Volatile Organics

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$	Flag
Chloromethane	(0.02)	<0.02	
Chloroethane	(0.02)	<0.02	
Vinyl Chloride	(0.02)	<0.02	
Bromomethane	(0.02)	<0.02	
Trichlorofluoromethane	(.005)	<.005	
1,1-Dichloroethene	(0.02)	<0.02	
Dichloromethane	(.005)	<.005	
t-1,2-Dichloroethene	(.005)	<.005	
1,1-Dichloroethane	(0.05)	<0.05	
Chloroform	(.001)	<.001	
1,1,1-Trichloroethane	(.001)	<.001	
1,2-Dichloroethane	(.005)	<.005	
Carbon Tetrachloride	(.001)	<.001	
1,2-Dichloropropane	(.005)	<.005	
Trichloroethene	(.001)	<.001	
Bromodichloromethane	(.005)	<.005	
c-1,2-Dichloroethene	(.005)	<.005	
c-1,3-Dichloropropene	(.005)	<.005	
t-1,3-Dichloropropene	(.005)	<.005	
1,1,2-Trichloroethane	(.001)	<.001	
Tetrachloroethene	(.001)	<.001	
Dibromochloromethane	(.005)	<.005	
Chlorobenzene	(.005)	<.005	
Bromoform	(.005)	<.005	
1,1,2,2-Tetrachloroethane	(.001)	<.001	
1,4-Dichlorobenzene	(.001)	.0014	
1,3-Dichlorobenzene	(.001)	<.001	
1,2-Dichlorobenzene	(.001)	.0095	

  
Joe Kiff  
Senior Chemist



August 24, 1992  
Sample Log 4900

Sample: WO-1

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

Received : 08/20/92


Matrix : Soil

Analyzed : 08/23/92

Extracted : 08/21/92

**8270 - Semi Volatile Organic Priority Pollutants**

Parameter	(MDL) <small>ug/kg</small>	Measured	
		Value <small>ug/kg</small>	Flag
Acenaphthene	(0.10)	<0.10	
Acenaphthylene	(0.10)	<0.10	
Anthracene	(0.10)	<0.10	
Benzo (a) anthracene	(0.10)	<0.10	
Benzo (b) fluoranthene	(0.10)	<0.10	
Benzo (k) fluoranthene	(0.10)	<0.10	
Benzo (a) pyrene	(0.10)	<0.10	
Benzo (ghi) perylene	(0.10)	<0.10	
Benzyl butyl phthalate	(0.10)	<0.10	
bis (2-chloroethyl) ether	(0.10)	<0.10	
bis (2-chloroethoxy) methane	(0.10)	<0.10	
bis (2-ethylhexyl) phthalate	(0.20)	<0.20	
bis (2-chloroisopropyl) ether	(0.10)	<0.10	
4-Bromophenyl phenyl ether	(0.10)	<0.10	
2-Chloronaphthalene	(0.10)	<0.10	
4-Chlorophenyl phenyl ether	(0.10)	<0.10	
Chrysene	(0.10)	<0.10	
Dibenzo (ah) anthracene	(0.10)	<0.10	
Di-n-butyl phthalate	(0.10)	<0.10	
Di-n-octyl phthalate	(0.10)	<0.10	
1,3-Dichlorobenzene	(0.10)	<0.10	
1,2-Dichlorobenzene	(0.10)	<0.10	
1,4-Dichlorobenzene	(0.10)	<0.10	
3,3-Dichlorobenzidine	(0.10)	<0.10	
Diethyl phthalate	(0.10)	<0.10	
Dimethyl phthalate	(0.10)	<0.10	
2,4-Dinitrotoluene	(0.10)	<0.10	

  
Stewart Podolaky  
Senior Chemist



August 24, 1992  
Sample Log 4900

Sample: WO-1

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

Received : 08/20/92

Matrix : Soil

Analyzed : 08/23/92

Extracted : 08/21/92

8270 - Semi Volatile Organic Priority Pollutants

Parameter	(MDL) <small>ng/kg</small>	Measured	
		Value <small>ng/kg</small>	Flag
2,6-Dinitrotoluene	(0.10)	<0.10	
Fluoranthene	(0.10)	<0.10	
Fluorene	(0.10)	<0.10	
Hexachlorobenzene	(0.10)	<0.10	
Hexachlorobutadiene	(0.10)	<0.10	
Hexachloroethane	(0.10)	<0.10	
Indeno (123-cd) pyrene	(0.10)	<0.10	
Isophorone	(0.10)	<0.10	
Naphthalene	(0.10)	<0.10	
Nitrobenzene	(0.10)	<0.10	
n-Nitrosodi-n-propylamine	(0.10)	<0.10	
Phenanthrene	(0.10)	<0.10	
Pyrene	(0.10)	<0.10	
1,2,4-Trichlorobenzene	(0.10)	<0.10	
Benzidine	(0.10)	<0.10	
Hexachlorocyclopentadiene	(0.10)	<0.10	
n-Nitrosodimethylamine	(0.10)	<0.10	
n-Nitrosodiphenylamine	(0.10)	<0.10	
4-Chloro-3-methylphenol	(0.10)	<0.10	
2-Chlorophenol	(0.10)	<0.10	
2,4-Dichlorophenol	(0.10)	<0.10	
2,4-Dimethylphenol	(0.10)	<0.10	
2,4-Dinitrophenol	(0.10)	<0.10	
2-Methyl-4,6-dinitrophenol	(0.10)	<0.10	
2-Nitrophenol	(0.10)	<0.10	
4-Nitrophenol	(0.10)	<0.10	
Pentachlorophenol	(0.10)	<0.10	
Phenol	(0.10)	<0.10	
2,4,6-Trichlorophenol	(0.10)	<0.10	

  
Stewart Podolsky  
Senior Chemist





Sample Log 4900

4900-2

Sample: WO-2

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

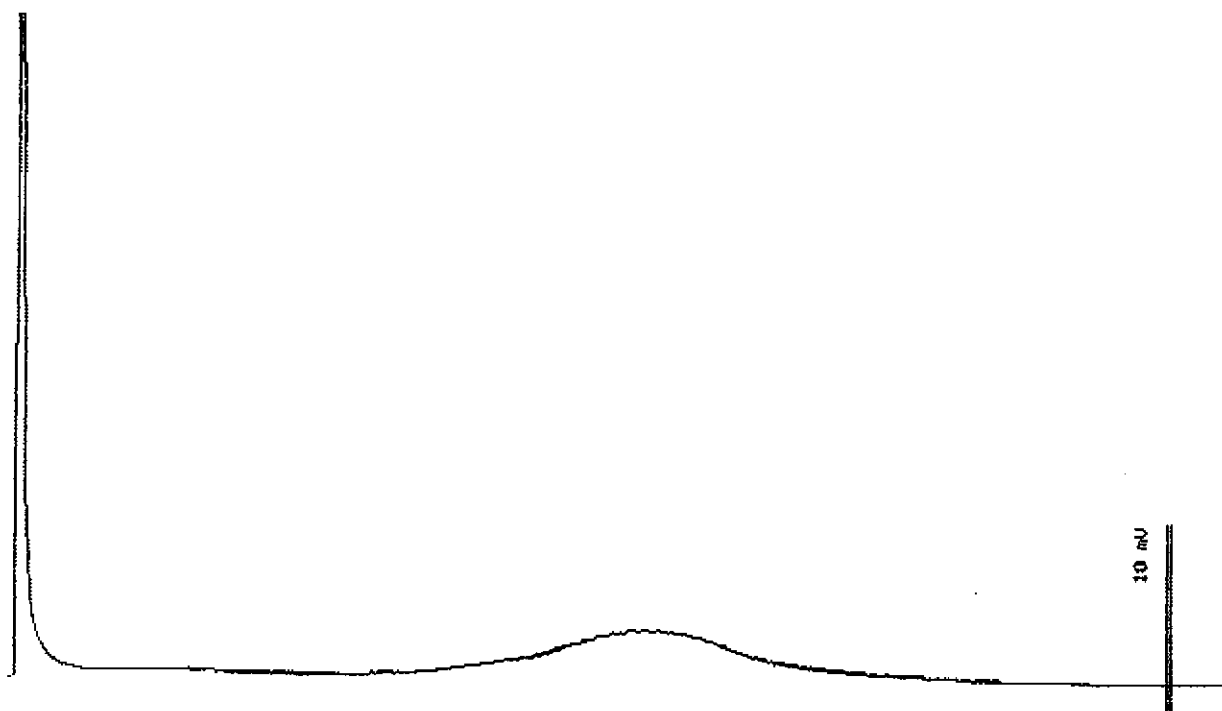
Extracted: 08/20/92

Dilution : 1:1

QC Batch : 8045C

Matrix : Soil

Parameter	(MDL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>
TPH as Diesel	(10)	<10
TPH as Motor Oil	(10)	13



EPA Mod 8015

Motor Oil

Date: 08-20-92 Time: 23:59:22  
Column : 0.53mm ID X 15m DB1 (J&H Scientific)

Stewart Podolsky  
Senior Chemist



Sample Log 4900

4900-2

Sample: WO-2

From : Project # 1740-1 (Chevron 9-1740)

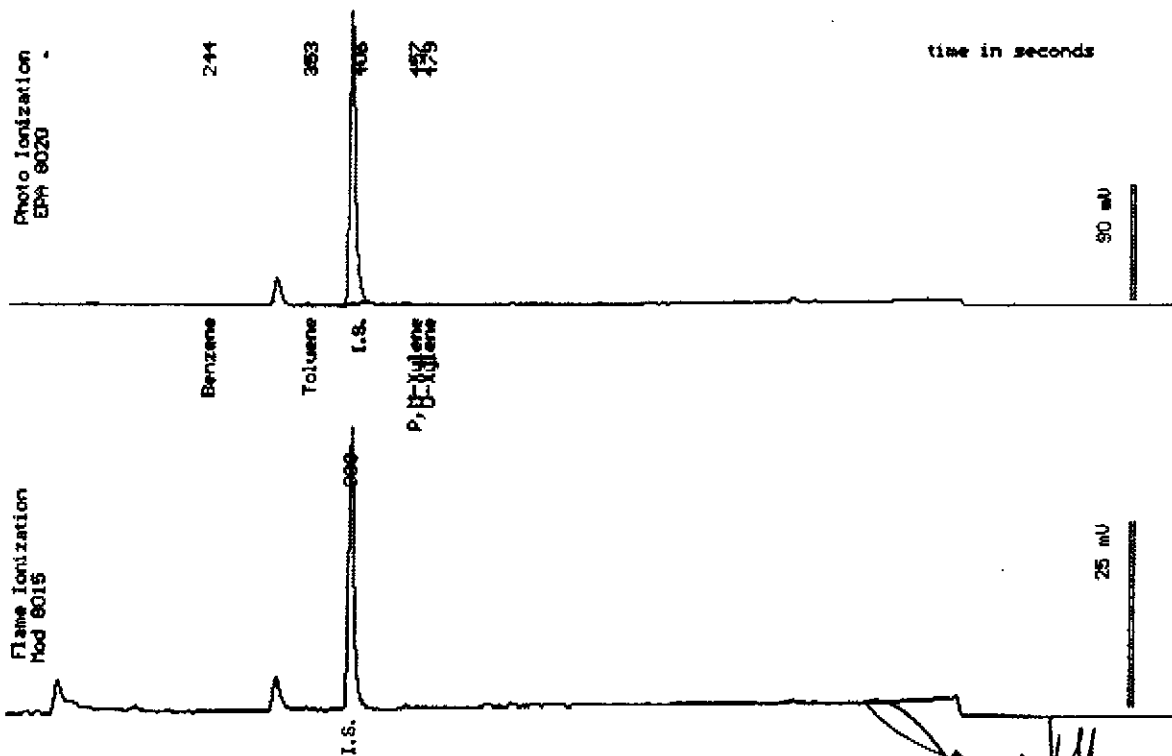
Sampled : 08/20/92

Dilution : 1:1

QC Batch : 6061C

Matrix : Soil

Parameter	(MDL) ug/kg	Measured Value ug/kg
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(1.0)	<1.0



Date Analyzed: 08-18-92  
Column: 0.53mm ID X 30m DB5 (J&H Scientific)

Joe Kiff  
Senior Chemist



August 24, 1992  
Sample Log 4900

Sample: WO-2

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

Received : 08/20/92


Matrix : Soil

Analyzed : 08/23/92

Extracted : 08/21/92

8270 - Semi Volatile Organic Priority Pollutants

Parameter	(MDL) <small>ug/kg</small>	Measured Value <small>ug/kg</small>	Flag
Acenaphthene	(0.10)	<0.10	
Acenaphthylene	(0.10)	<0.10	
Anthracene	(0.10)	<0.10	
Benzo (a) anthracene	(0.10)	<0.10	
Benzo (b) fluoranthene	(0.10)	<0.10	
Benzo (k) fluoranthene	(0.10)	<0.10	
Benzo (a) pyrene	(0.10)	<0.10	
Benzo (ghi) perylene	(0.10)	<0.10	
Benzyl butyl phthalate	(0.10)	<0.10	
bis (2-chloroethyl) ether	(0.10)	<0.10	
bis (2-chloroethoxy) methane	(0.10)	<0.10	
bis (2-ethylhexyl) phthalate	(0.20)	<0.20	
bis (2-chloroisopropyl) ether	(0.10)	<0.10	
4-Bromophenyl phenyl ether	(0.10)	<0.10	
2-Chloronaphthalene	(0.10)	<0.10	
4-Chlorophenyl phenyl ether	(0.10)	<0.10	
Chrysene	(0.10)	<0.10	
Dibenzo (ah) anthracene	(0.10)	<0.10	
Di-n-butyl phthalate	(0.10)	<0.10	
Di-n-octyl phthalate	(0.10)	<0.10	
1,3-Dichlorobenzene	(0.10)	<0.10	
1,2-Dichlorobenzene	(0.10)	<0.10	
1,4-Dichlorobenzene	(0.10)	<0.10	
3,3-Dichlorobenzidine	(0.10)	<0.10	
Diethyl phthalate	(0.10)	<0.10	
Dimethyl phthalate	(0.10)	<0.10	
2,4-Dinitrotoluene	(0.10)	<0.10	

  
Stewart Podolsky  
Senior Chemist



August 24, 1992  
Sample Log 4900

4900-2

Sample: WO-2

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92


Received : 08/20/92

Matrix : Soil

Analyzed : 08/23/92

8010 - Halogenated Volatile Organics

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$	Flag
Chloromethane	(0.02)	<0.02	
Chloroethane	(0.02)	<0.02	
Vinyl Chloride	(0.02)	<0.02	
Bromomethane	(0.02)	<0.02	
Trichlorofluoromethane	(.005)	<.005	
1,1-Dichloroethene	(0.02)	<0.02	
Dichloromethane	(.005)	<.005	
t-1,2-Dichloroethene	(.005)	<.005	
1,1-Dichloroethane	(0.05)	<0.05	
Chloroform	(.001)	<.001	
1,1,1-Trichloroethane	(.001)	<.001	
1,2-Dichloroethane	(.005)	<.005	
Carbon Tetrachloride	(.001)	<.001	
1,2-Dichloropropane	(.005)	<.005	
Trichloroethene	(.001)	<.001	
Bromodichloromethane	(.005)	<.005	
c-1,2-Dichloroethene	(.005)	<.005	
c-1,3-Dichloropropene	(.005)	<.005	
t-1,3-Dichloropropene	(.005)	<.005	
1,1,2-Trichloroethane	(.005)	<.005	
Tetrachloroethene	(.001)	<.001	
Dibromochloromethane	(.001)	<.001	
Chlorobenzene	(.005)	<.005	
Bromoform	(.005)	<.005	
1,1,2,2-Tetrachloroethane	(.001)	<.001	
1,4-Dichlorobenzene	(.001)	<.001	
1,3-Dichlorobenzene	(.001)	<.001	
1,2-Dichlorobenzene	(.001)	<.001	

  
Joel Kiff  
Senior Chemist



August 24, 1992  
Sample Log 4900

Sample: WO-2

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

Received : 08/20/92

Matrix : Soil

Analyzed : 08/23/92

Extracted : 08/21/92

8270 - Semi Volatile Organic Priority Pollutants

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$	Flag
2,6-Dinitrotoluene	(0.10)	<0.10	
Fluoranthene	(0.10)	<0.10	
Fluorene	(0.10)	<0.10	
Hexachlorobenzene	(0.10)	<0.10	
Hexachlorobutadiene	(0.10)	<0.10	
Hexachloroethane	(0.10)	<0.10	
Indeno (123-cd) pyrene	(0.10)	<0.10	
Isophorone	(0.10)	<0.10	
Naphthalene	(0.10)	<0.10	
Nitrobenzene	(0.10)	<0.10	
n-Nitrosodi-n-propylamine	(0.10)	<0.10	
Phenanthrene	(0.10)	<0.10	
Pyrene	(0.10)	<0.10	
1,2,4-Trichlorobenzene	(0.10)	<0.10	
Benzidine	(0.10)	<0.10	
Hexachlorocyclopentadiene	(0.10)	<0.10	
n-Nitrosodimethylamine	(0.10)	<0.10	
n-Nitrosodiphenylamine	(0.10)	<0.10	
4-Chloro-3-methylphenol	(0.10)	<0.10	
2-Chlorophenol	(0.10)	<0.10	
2,4-Dichlorophenol	(0.10)	<0.10	
2,4-Dimethylphenol	(0.10)	<0.10	
2,4-Dinitrophenol	(0.10)	<0.10	
2-Methyl-4,6-dinitrophenol	(0.10)	<0.10	
2-Nitrophenol	(0.10)	<0.10	
4-Nitrophenol	(0.10)	<0.10	
Pentachlorophenol	(0.10)	<0.10	
Phenol	(0.10)	<0.10	
2,4,6-Trichlorophenol	(0.10)	<0.10	

  
Stewart Podolsky  
Senior Chemist

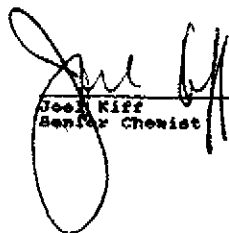


August 24, 1992  
Sample Log 4900

Table 1: Total Oil and Grease Results for 6 Soil Samples  
From Project # 1740-1 (Chevron 9-1740)  
Received 08/20/92

--all concentrations are units of mg/kg--

Sample	Oil and Grease
WO-1	<50
WO-2	<50
WX-1	110
WX-2	380
WX-3	180
WX-4	3000
(Reporting Limit	50)

  
Joe Kiff  
Senior Chemist

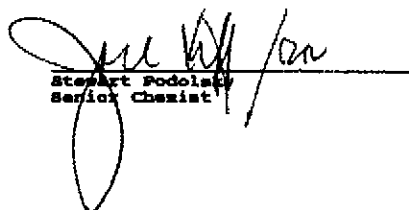


August 25, 1992  
Sample Log 4900

Table 1: Selected Metals Results for 6 Soil Sample(s)  
From Project # 1740-1 (Chevron 9-1740)  
Received 08/20/92

--all concentrations are units of mg/kg--

Sample	Cadmium	Chromium	Lead	Zinc	Nickel
WO-1	2.7	95	6.0	80	94
WO-2	3.5	110	8.2	110	120
WX-1	3.4	8.5	10	45	78
WX-2	3.9	95	11	55	84
WX-3	4.0	100	11	64	82
WX-4	2.6	33	33	110	23
(Reporting Limit	0.5	1.0	5.0	0.5	1.0)

  
Stuart Podolny  
Senior Chemist



Sample Log 4900

4900-4

Sample: WX-1

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

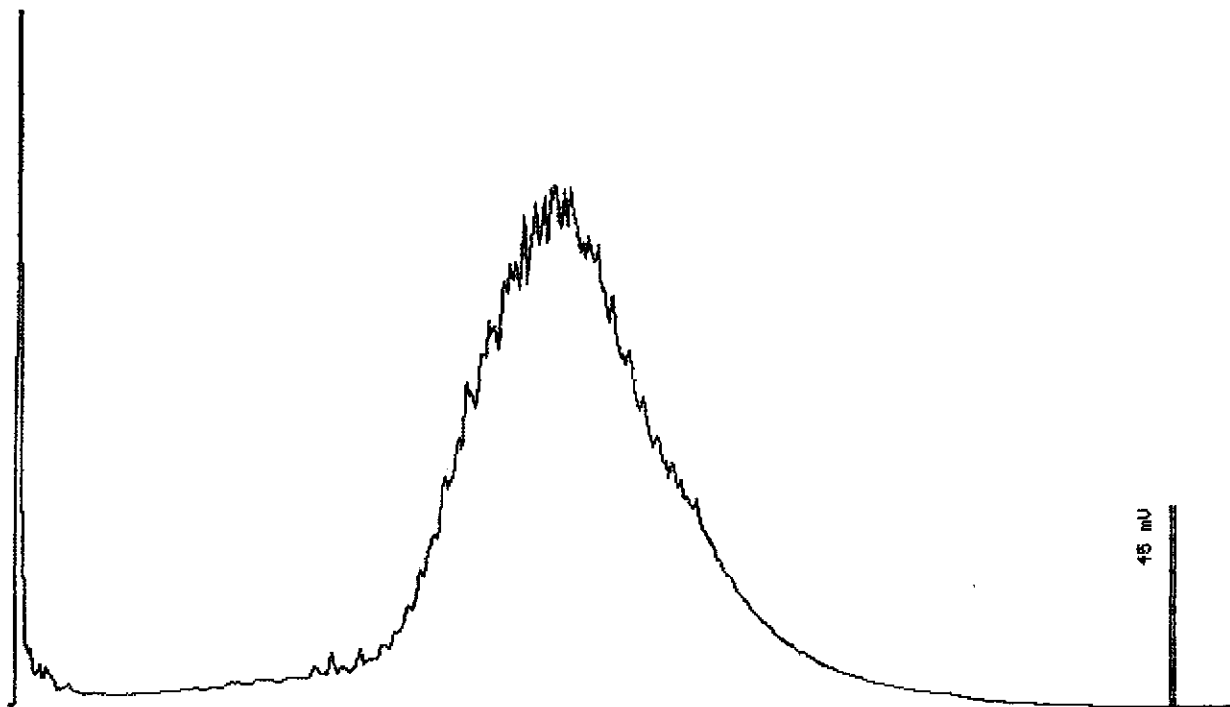
Extracted: 08/20/92

Dilution : 1:1

Matrix : Soil

QC Batch : 8045C

Parameter	(MDL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>
TPH as Diesel	(10)	41
TPH as Motor Oil	(10)	580



EPA Mod 8015

Diesel

Motor Oil

Date: 08-21-92 Time: 01:04:05  
Column : 0.83mm ID X 15m DB1 (J&W Scientific)

*S. Podolsky*  
Stewart Podolsky  
Senior Chemist





Sample Log 4900

4900-4

Sample: WX-1

From : Project # 1740-1 (Chevron 9-1740)

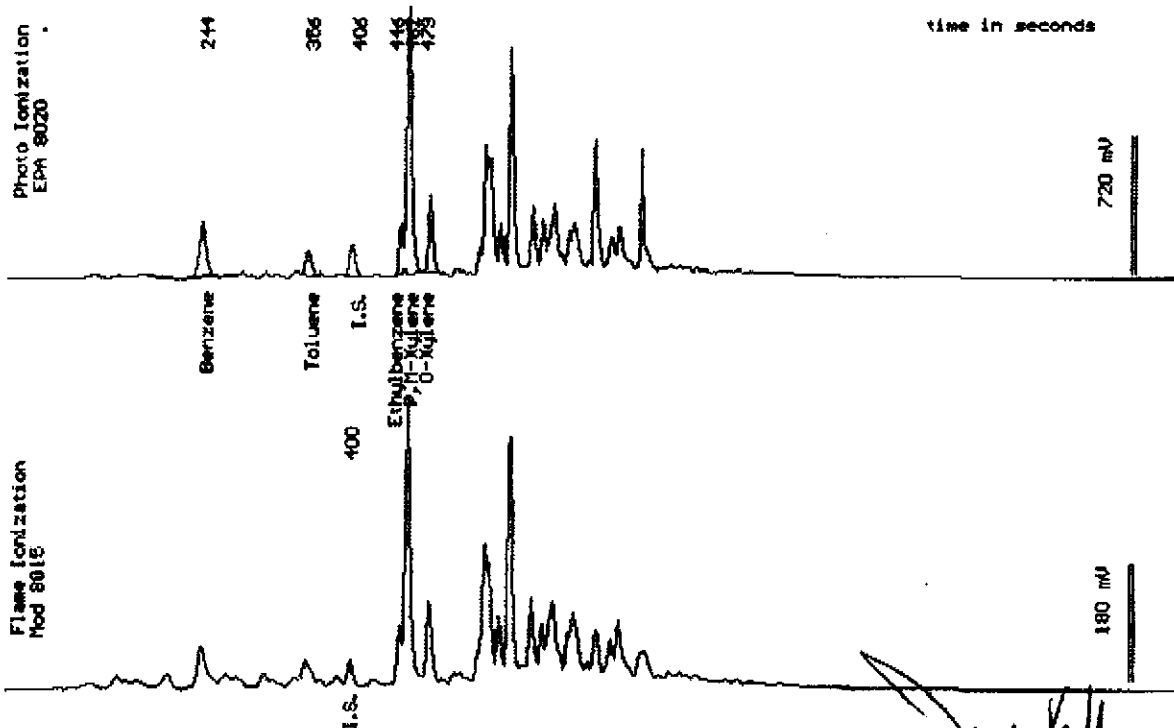
Sampled : 08/20/92

Dilution : 1:1

QC Batch : 6061C

Matrix : Soil

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
Benzene	(.0050)	.30
Toluene	(.0050)	.13
Ethylbenzene	(.0050)	.31
Total Xylenes	(.0050)	2.1
TPH as Gasoline	(1.0)	16



Date Analyzed: 09-19-92  
Column : 0.53mm ID X 30m DB6 (J&H Scientific)

Joni Kliff  
Senior Chemist



August 24, 1992

Sample Log 4900

4900-4

Sample: WX-1

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

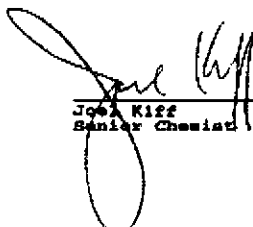
Received : 08/20/92

Matrix : Soil

Analyzed : 08/23/92

8010 - Halogenated Volatile Organics

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$	Flag
Chloromethane	(0.02)	<0.02	
Chloroethane	(0.02)	<0.02	
Vinyl Chloride	(0.02)	<0.02	
Bromomethane	(0.02)	<0.02	
Trichlorofluoromethane	(.005)	<.005	
1,1-Dichloroethene	(0.02)	<0.02	
Dichloromethane	(.005)	<.005	
t-1,2-Dichloroethene	(.005)	<.005	
1,1-Dichloroethane	(0.05)	<0.05	
Chloroform	(.001)	<.001	
1,1,1-Trichloroethane	(.001)	<.001	
1,2-Dichloroethane	(.005)	<.005	
Carbon Tetrachloride	(.001)	<.001	
1,2-Dichloropropane	(.005)	<.005	
Trichloroethene	(.001)	<.001	
Bromodichloromethane	(.005)	<.005	
c-1,2-Dichloroethene	(.005)	<.005	
c-1,3-Dichloropropene	(.005)	<.005	
t-1,3-Dichloropropene	(.005)	<.005	
1,1,2-Trichloroethane	(.005)	<.005	
Tetrachloroethene	(.001)	<.001	
Dibromochloromethane	(.001)	<.001	
Chlorobenzene	(.005)	<.005	
Bromoform	(.005)	<.005	
1,1,2,2-Tetrachloroethane	(.001)	<.001	
1,4-Dichlorobenzene	(.001)	.0034	
1,3-Dichlorobenzene	(.001)	<.001	
1,2-Dichlorobenzene	(.001)	.013	

  
Jose Kiff  
Senior Chemist



Sample Log 4900

4900-5

Sample: WX-2

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

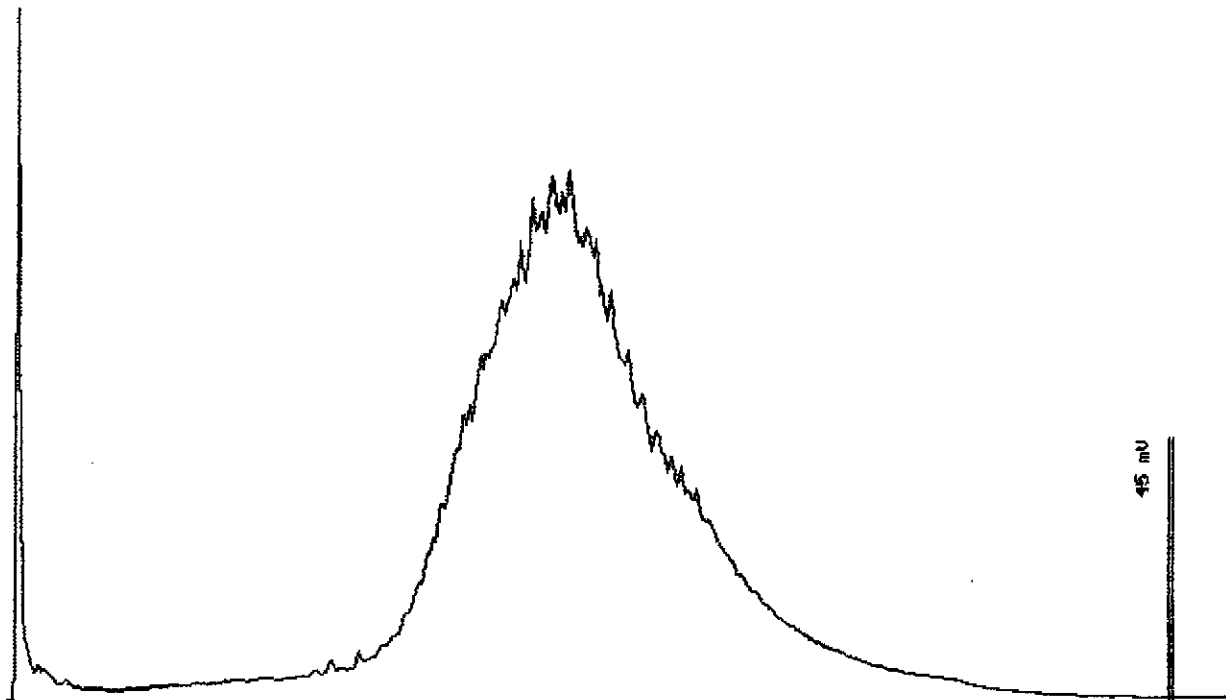
Extracted: 08/20/92

Dilution : 1:1

Matrix : Soil

QC Batch : 8045C

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
TPH as Diesel	(10)	27
TPH as Motor Oil	(10)	440



EPA Mod 8015

Diesel

Motor Oil

Date: 08-21-92 Time: 01:37:56  
Column : 0.53mm ID X 15m DB1 (J&H Scientific)

*S. Podolsky*  
Stewart Podolsky  
Senior Chemist



Sample Log 4900

4900-5

Sample: WX-2

From : Project # 1740-1 (Chevron 9-1740)

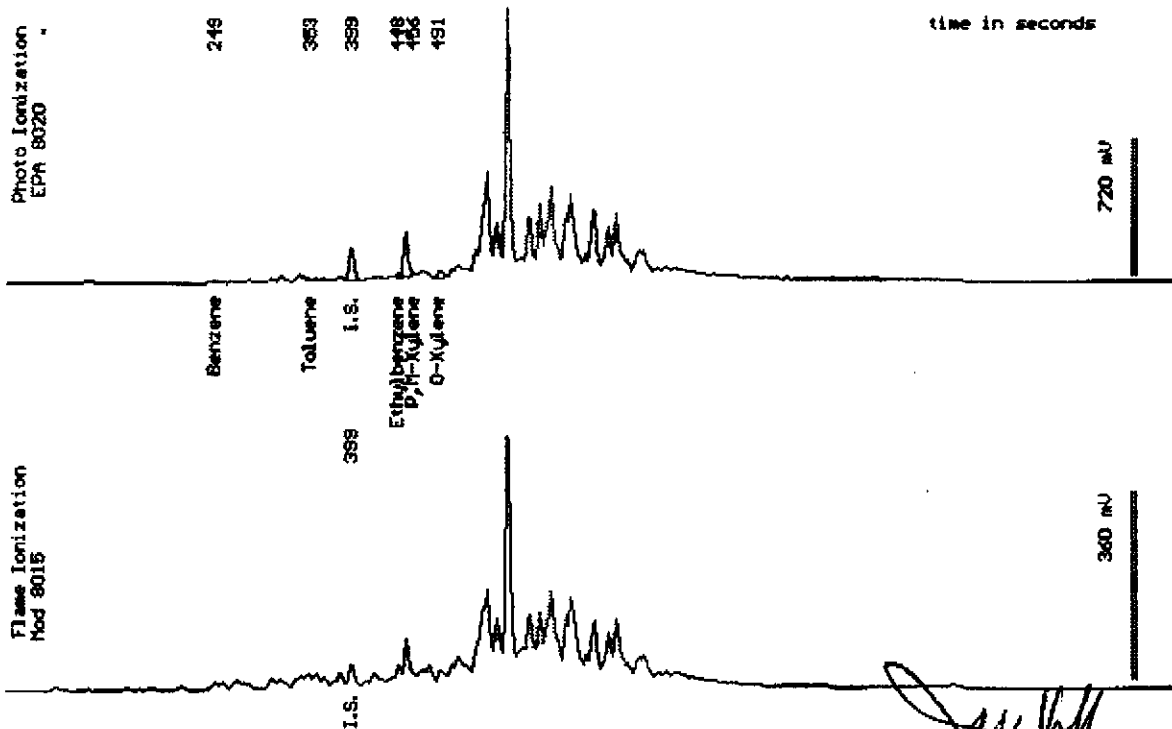
Sampled : 08/20/92

Dilution : 1:1

QC Batch : 6061e

Matrix : Soil

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
Benzene	(.0050)	.0087
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	.021
Total Xylenes	(.0050)	.26
TPH as Gasoline	(1.0)	17



Date Analyzed: 08-22-92  
Column 1 0.53mm ID X 30m DB5 (J&W Scientific)

Joel Kiff  
Senior Chemist



August 24, 1992  
Sample Log 4900  
4900-5

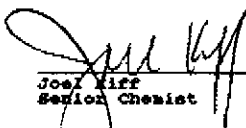
Sample: WX-2

From : Project # 1740-1 (Chevron 9-1740)  
Sampled : 08/20/92  
Matrix : Soil

Received : 08/20/92  
Analyzed : 08/23/92

8010 - Halogenated Volatile Organics

Parameter	(MDL) ug/kg	Measured Value ug/kg	Flag
Chloromethane	(0.02)	<0.02	
Chloroethane	(0.02)	<0.02	
Vinyl Chloride	(0.02)	<0.02	
Bromomethane	(0.02)	<0.02	
Trichlorofluoromethane	(.005)	<.005	
1,1-Dichloroethene	(0.02)	<0.02	
Dichloromethane	(.005)	<.005	
t-1,2-Dichloroethene	(.005)	<.005	
1,1-Dichloroethane	(0.05)	<0.05	
Chloroform	(.001)	<.001	
1,1,1-Trichloroethane	(.001)	<.001	
1,2-Dichloroethane	(.005)	<.005	
Carbon Tetrachloride	(.001)	<.001	
1,2-Dichloropropane	(.005)	<.005	
Trichloroethene	(.001)	<.001	
Bromodichloromethane	(.005)	<.005	
c-1,2-Dichloroethene	(.005)	<.005	
c-1,3-Dichloropropene	(.005)	<.005	
t-1,3-Dichloropropene	(.005)	<.005	
1,1,2-Trichloroethane	(.005)	<.005	
Tetrachloroethene	(.001)	<.001	
Dibromochloromethane	(.001)	<.001	
Chlorobenzene	(.005)	<.005	
Bromoform	(.005)	<.005	
1,1,2,2-Tetrachloroethane	(.001)	<.001	
1,4-Dichlorobenzene	(.001)	.0019	
1,3-Dichlorobenzene	(.001)	<.001	
1,2-Dichlorobenzene	(.001)	.0081	

  
Joe Kiff  
Senior Chemist



Sample Log 4900

4900-4

Sample: WX-3

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

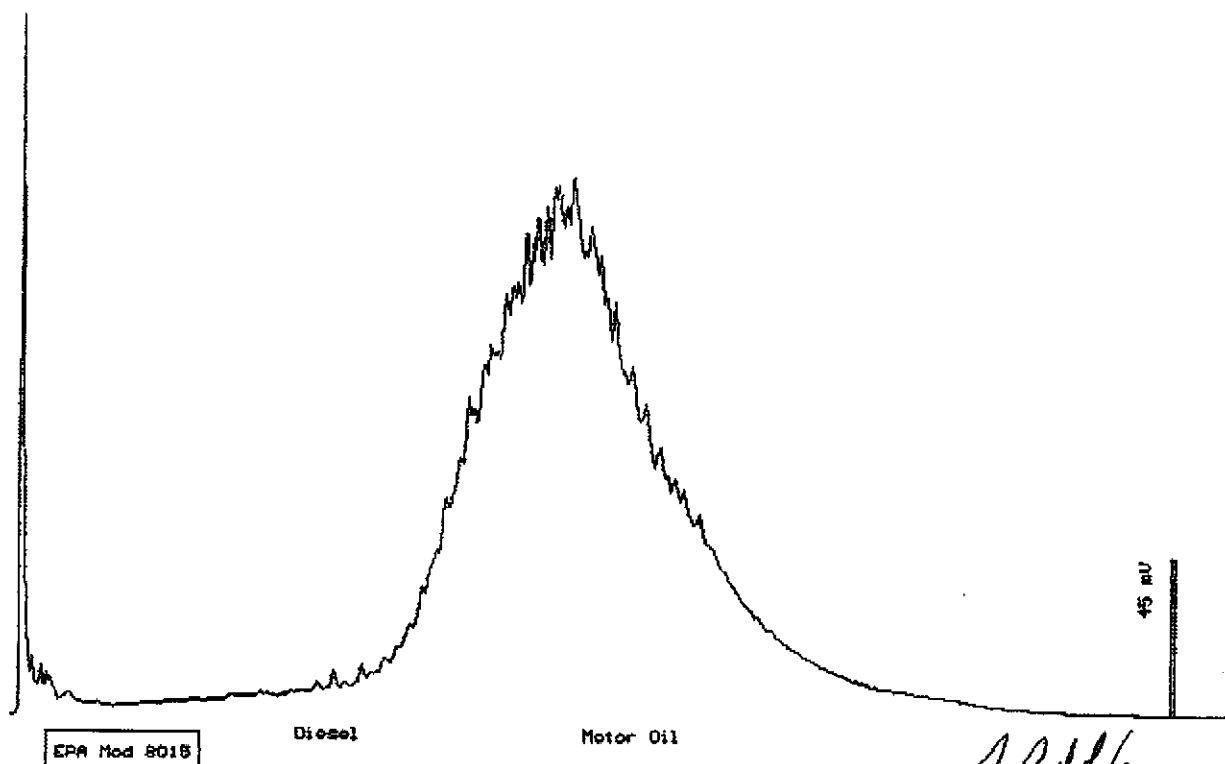
Extracted: 08/20/92

Dilution : 1:1

Matrix : Soil

QC Batch : 8045C

Parameter	(MDL) mg/kg	Measured Value mg/kg
TPH as Diesel	(10)	44
TPH as Motor Oil	(10)	740



Date: 08-21-92 Time: 02:12:17  
Column : 0.83mm ID X 15m DB1 (J&W Scientific)

*Stuart Podolsky*  
Stuart Podolsky  
Senior Chemist



Sample Log 4900

4900-6

Sample: WX-3

From : Project # 1740-1 (Chevron 9-1740)

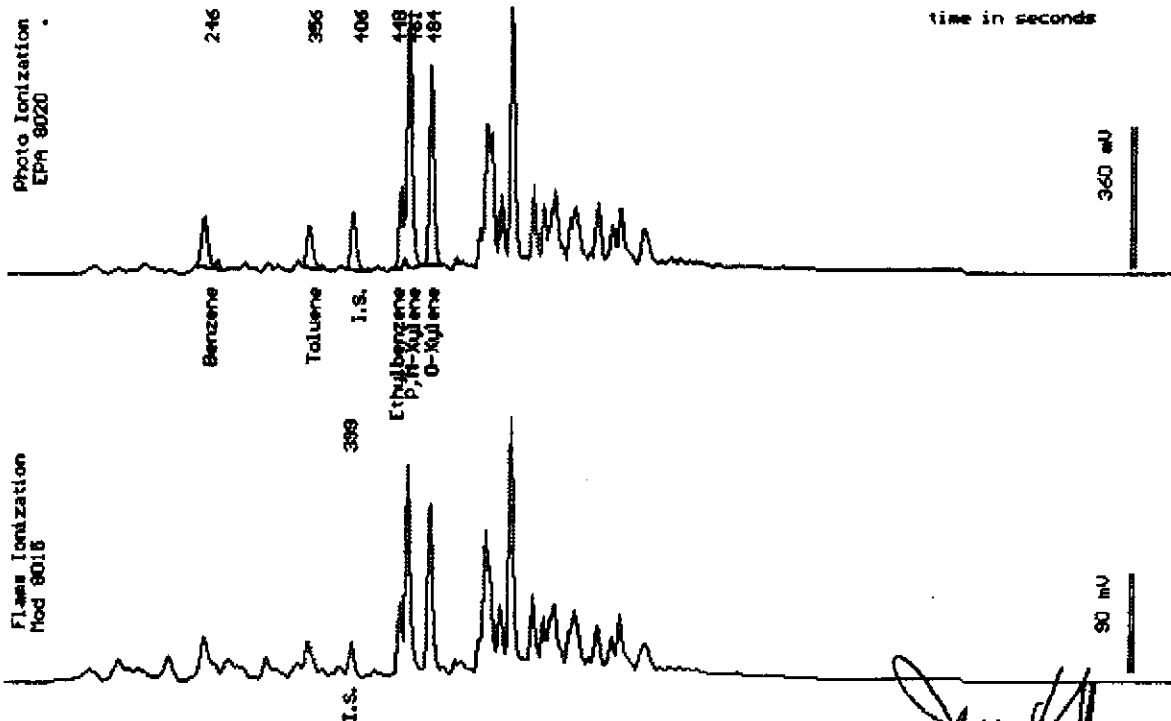
Sampled : 08/20/92

Dilution : 1:1

QC Batch : 6061C

Matrix : Soil

Parameter	(MDL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>
Benzene	(.0050)	.22
Toluene	(.0050)	.19
Ethylbenzene	(.0050)	.40
Total Xylenes	(.0050)	2.3
TPH as Gasoline	(1.0)	17



Date Analyzed: 08-19-92  
Column : 0.53mm ID X 30m DB5 (J&W Scientific)

Joel Kiff  
Senior Chemist



August 24, 1992  
Sample Log 4900  
4900-6

Sample: WX-3

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

Received : 08/20/92

Matrix : Soil

Analyzed : 08/23/92

8010 - Halogenated Volatile Organics

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$	Flag
Chloromethane	(0.02)	<0.02	
Chloroethane	(0.02)	<0.02	
Vinyl Chloride	(0.02)	<0.02	
Bromomethane	(0.02)	<0.02	
Trichlorofluoromethane	(.005)	<.005	
1,1-Dichloroethene	(0.02)	<0.02	
Dichloromethane	(.005)	<.005	
t-1,2-Dichloroethene	(.005)	<.005	
1,1-Dichloroethane	(0.05)	<0.05	
Chloroform	(.001)	<.001	
1,1,1-Trichloroethane	(.001)	<.001	
1,2-Dichloroethane	(.005)	<.005	
Carbon Tetrachloride	(.001)	<.001	
1,2-Dichloropropane	(.005)	<.005	
Trichloroethene	(.001)	<.001	
Bromodichloromethane	(.005)	<.005	
c-1,2-Dichloroethene	(.005)	<.005	
c-1,3-Dichloropropene	(.005)	<.005	
t-1,3-Dichloropropene	(.005)	<.005	
1,1,2-Trichloroethane	(.005)	<.005	
Tetrachloroethene	(.001)	<.001	
Dibromochloromethane	(.001)	<.001	
Chlorobenzene	(.005)	<.005	
Bromoform	(.005)	<.005	
1,1,2,2-Tetrachloroethane	(.001)	<.001	
1,4-Dichlorobenzene	(.001)	<.001	
1,3-Dichlorobenzene	(.001)	<.001	
1,2-Dichlorobenzene	(.001)	.0067	

  
Joel Kiff  
Senior Chemist





Sample Log 4900

4900-7

Sample: WX-4

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

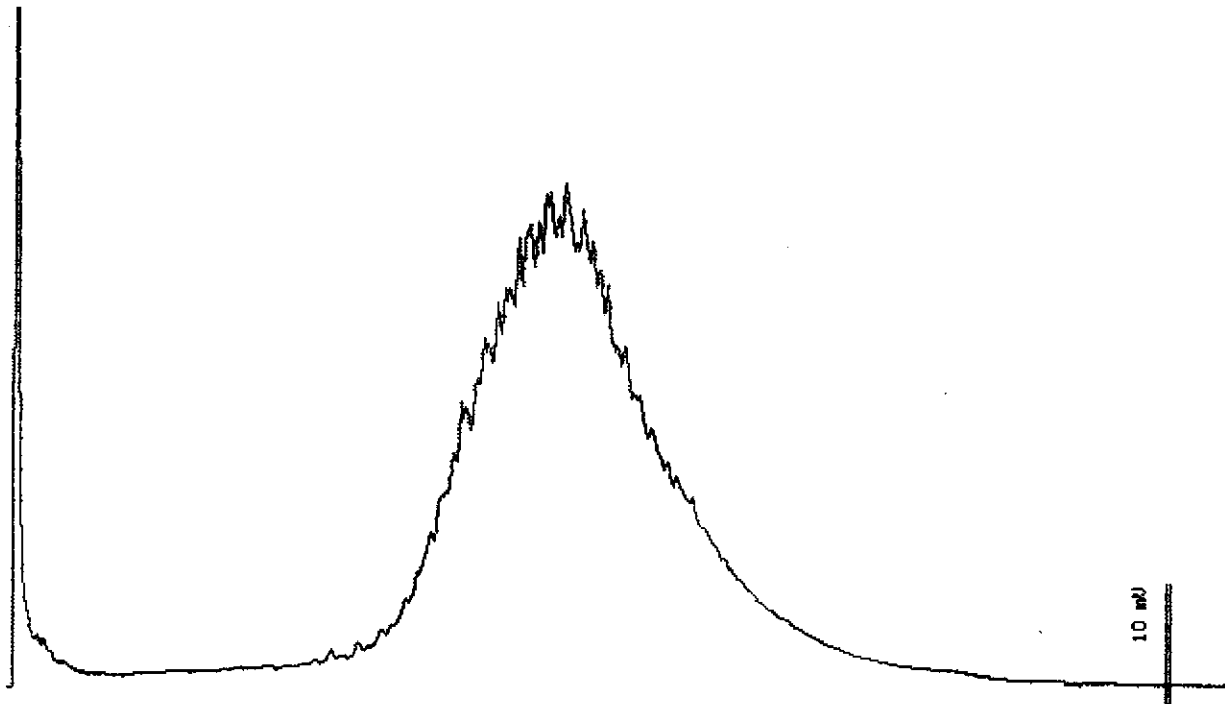
Extracted: 08/20/92

Dilution : 1:10

Matrix : Soil

QC Batch : 8045c

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
TPH as Diesel	(100)	130
TPH as Motor Oil	(100)	2000



EPA Mod 8015

Diesel

Motor Oil

Date: 08-21-92 Time: 02:46:55  
Column : 0.53mm ID X 15m DB1 (J&H Scientific)

*S. Podolny*  
Stewart Podolny  
Senior Chemist



Sample Log 4900

4900-7

Sample: WX-4

From : Project # 1740-1 (Chevron 9-1740)

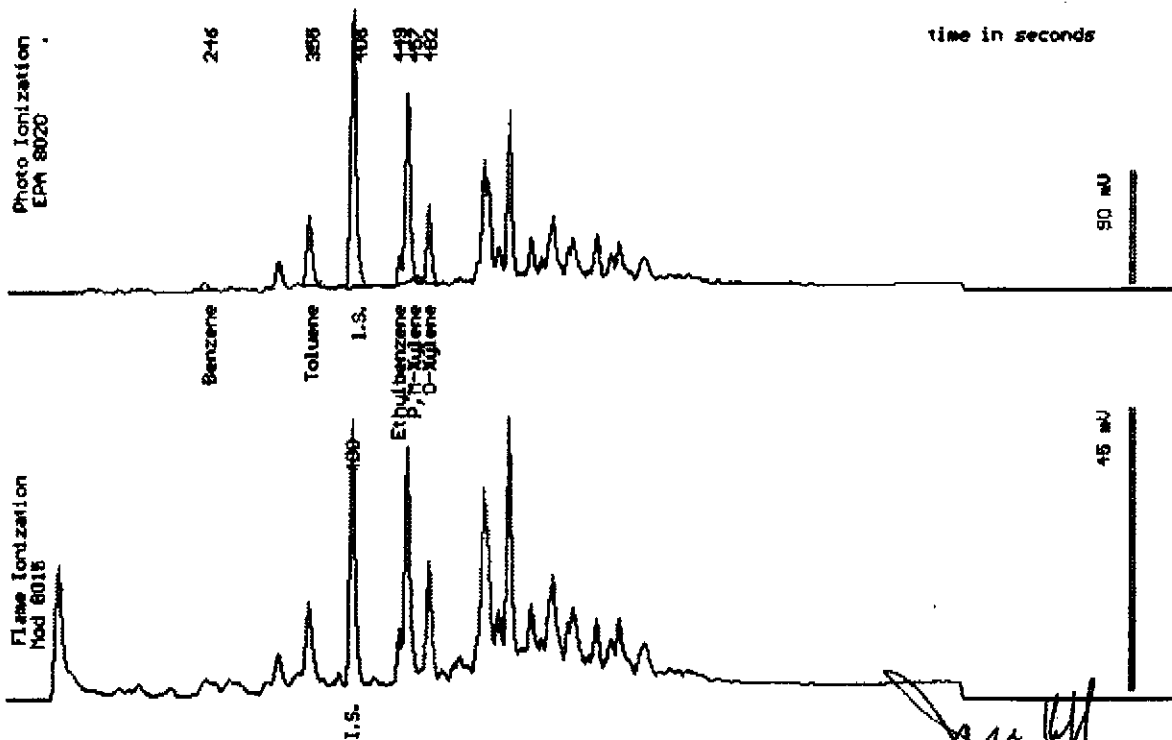
Sampled : 08/20/92

Dilution : 1:100

QC Batch : 6061C

Matrix : Soil

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
Benzene	(.50)	<.50
Toluene	(.50)	4.0
Ethylbenzene	(.50)	1.9
Total Xylenes	(.50)	15
TPH as Gasoline	(100)	180



Date Analyzed: 09-19-92  
Column : 0.53mm ID X 30m DB5 (J&H Scientific)

Joel Kiff  
Senior Chemist



August 24, 1992

Sample Log 4900

4900-7

Sample: WX-4

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

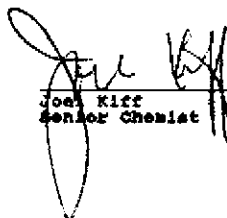
Received : 08/20/92

Matrix : Soil

Analyzed : 08/23/92

8010 - Halogenated Volatile Organics

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$	Flag
Chloromethane	(0.02)	<0.02	
Chloroethane	(0.02)	<0.02	
Vinyl Chloride	(0.02)	<0.02	
Bromomethane	(0.02)	<0.02	
Trichlorofluoromethane	(.005)	<.005	
1,1-Dichloroethene	(0.02)	<0.02	
Dichloromethane	(.005)	<.005	
t-1,2-Dichloroethene	(.005)	<.005	
1,1-Dichloroethane	(0.05)	0.27	
Chloroform	(.001)	<.001	
1,1,1-Trichloroethane	(.001)	.011	
1,2-Dichloroethane	(.005)	<.005	
Carbon Tetrachloride	(.001)	<.001	
1,2-Dichloropropane	(.005)	<.005	
Trichloroethene	(.001)	.0036	
Bromodichloromethane	(.005)	<.005	
c-1,2-Dichloroethene	(.005)	<.005	
c-1,3-Dichloropropene	(.005)	<.005	
t-1,3-Dichloropropene	(.005)	<.005	
1,1,2-Trichloroethane	(.005)	<.005	
Tetrachloroethene	(.001)	.040	
Dibromochloromethane	(.001)	<.001	
Chlorobenzene	(.005)	<.005	
Bromoform	(.005)	<.005	
1,1,2,2-Tetrachloroethane	(.001)	<.001	
1,4-Dichlorobenzene	(.001)	<.001	
1,3-Dichlorobenzene	(.001)	<.001	
1,2-Dichlorobenzene	(.001)	<.001	

  
Joe Kiff  
Senior Chemist



August 25, 1992  
Sample Log 4900

Sample: WS-1A,1B,1C,1D

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

Received : 08/20/92

Matrix : Soil

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
TRPH (418.1)	(30)	2300

Stewart Podolsky  
Senior Chemist



August 24, 1992  
Sample Log 4900

Sample: WS-1A,1B,1C,1D

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

Received : 08/20/92

Matrix : Soil

Analyzed : 08/23/92

Extracted : 08/21/92

8270 - Semi Volatile Organic Priority Pollutants

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$	Flag
Acenaphthene	( 4.0)	< 4.0	
Acenaphthylene	( 4.0)	< 4.0	
Anthracene	( 4.0)	< 4.0	
Benzo (a) anthracene	( 4.0)	< 4.0	
Benzo (b) fluoranthene	( 4.0)	< 4.0	
Benzo (k) fluoranthene	( 4.0)	< 4.0	
Benzo (a) pyrene	( 4.0)	< 4.0	
Benzo (ghi) perylene	( 4.0)	< 4.0	
Benzyl butyl phthalate	( 4.0)	< 4.0	
bis (2-chloroethyl) ether	( 4.0)	< 4.0	
bis (2-chloroethoxy) methane	( 4.0)	< 4.0	
bis (2-ethylhexyl) phthalate	( 8.0)	< 8.0	
bis (2-chloroisopropyl) ether	( 4.0)	< 4.0	
4-Bromophenyl phenyl ether	( 4.0)	< 4.0	
2-Chloronaphthalene	( 4.0)	< 4.0	
4-Chlorophenyl phenyl ether	( 4.0)	< 4.0	
Chrysene	( 4.0)	< 4.0	
Dibenzo (ah) anthracene	( 4.0)	< 4.0	
Di-n-butyl phthalate	( 4.0)	< 4.0	
Di-n-octyl phthalate	( 4.0)	< 4.0	
1,3-Dichlorobenzene	( 4.0)	< 4.0	
1,2-Dichlorobenzene	( 4.0)	< 4.0	
1,4-Dichlorobenzene	( 4.0)	< 4.0	
3,3-Dichlorobenzidine	( 4.0)	< 4.0	
Diethyl phthalate	( 4.0)	< 4.0	
Dimethyl phthalate	( 4.0)	< 4.0	
2,4-Dinitrotoluene	( 4.0)	< 4.0	

  
Stewart Podolsky  
Senior Chemist



August 24, 1992  
Sample Log 4900

Sample: WS-1A,1B,1C,1D

From : Project # 1740-1 (Chevron 9-1740)

Sampled : 08/20/92

Received : 08/20/92

Matrix : Soil

Analyzed : 08/23/92

Extracted : 08/21/92

8270 - Semi Volatile Organic Priority Pollutants

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$	Flag
2,6-Dinitrotoluene	( 4.0)	< 4.0	
Fluoranthene	( 4.0)	< 4.0	
Fluorene	( 4.0)	< 4.0	
Hexachlorobenzene	( 4.0)	< 4.0	
Hexachlorobutadiene	( 4.0)	< 4.0	
Hexachloroethane	( 4.0)	< 4.0	
Indeno (123-cd) pyrene	( 4.0)	< 4.0	
Isophorone	( 4.0)	< 4.0	
Naphthalene	( 4.0)	< 4.0	
Nitrobenzene	( 4.0)	< 4.0	
n-Nitrosodi-n-propylamine	( 4.0)	< 4.0	
Phenanthrene	( 4.0)	< 4.0	
Pyrene	( 4.0)	< 4.0	
1,2,4-Trichlorobenzene	( 4.0)	< 4.0	
Benzidine	( 4.0)	< 4.0	
Hexachlorocyclopentadiene	( 4.0)	< 4.0	
n-Nitrosodimethylamine	( 4.0)	< 4.0	
n-Nitrosodiphenylamine	( 4.0)	< 4.0	
4-Chloro-3-methylphenol	( 4.0)	< 4.0	
2-Chlorophenol	( 4.0)	< 4.0	
2,4-Dichlorophenol	( 4.0)	< 4.0	
2,4-Dimethylphenol	( 4.0)	< 4.0	
2,4-Dinitrophenol	( 4.0)	< 4.0	
2-Methyl-4,6-dinitrophenol	( 4.0)	< 4.0	
2-Nitrophenol	( 4.0)	< 4.0	
4-Nitrophenol	( 4.0)	< 4.0	
Pentachlorophenol	( 4.0)	< 4.0	
Phenol	( 4.0)	< 4.0	
2,4,6-Trichlorophenol	( 4.0)	< 4.0	

  
Stewart Podolsky  
Senior Chemist



August 27, 1992  
Sample Log 4900

Sample : WS-1A,1B,1C,1D  
From : Project # 1740-1 (Chevron 9-1740)  
Matrix : Soil

--all concentrations are units of mg/kg--

**CAM 17 Metals**

<u>Parameter</u>	<u>MRL*</u>	<u>EPA Method</u>	<u>TTL C**</u>	<u>Conc.</u>
Antimony	(3.0)	6010	500	<3.0
Arsenic	(1.0)	7060	500	<1.0
Barium	(0.5)	6010	10000	260
Beryllium	(0.1)	6010	75	1.1
Cadmium	(0.2)	6010	100	3.5
Chromium	(0.5)	6010	2500	91
Cobalt	(0.5)	6010	8000	17
Copper	(1.0)	6010	2500	180
Lead	(5.0)	7421	1000	18
Mercury	(0.1)	7471	20	<0.1
Molybdenum	(1.0)	6010	3500	24
Nickel	(20)	6010	2000	63
Selenium	(1.0)	7740	100	<1.0
Silver	(0.5)	6010	500	1.7
Thallium	(1.0)	7841	700	<1.0
Vanadium	(0.5)	6010	2400	68
Zinc	(1.0)	6010	5000	97

\* MRL = Method Reporting Limit

\*\* TTL C = Tittle 22 Total Threshold Limit Concentration



August 24, 1992  
Sample Log 4900

EPA 8270 System Monitoring Compound Recovery

Sample	SMC1 (NBZ)#	SMC2 (FBP)#	SMC3 (TPH)#	SMC4 (PHL)#	SMC5 (2FP)#	SMC6 (TBF)#	OTHER	TOT OUT
WO-1	91	92	99	101	87	105		0
WO-2	94	96	101	101	88	101		0
WS-1A,1B,1C,1	99	100	105	105	89	102		0


QC Limits

SMC1 (NBZ) = Nitrobenzene-d5	(23-120)
SMC2 (FBP) = 2-Fluorobiphenyl	(30-115)
SMC3 (TPH) = Terphenyl-d14	(18-137)
SMC4 (PHL) = Phenol-d6	(24-113)
SMC5 (2FP) = 2-Fluorophenol	(25-121)
SMC6 (TBF) = 2,4,6-Tribromophenol	(19-122)

# Column to be used to flag recovery values

\* Values outside of QC limits

D System Monitoring Compound diluted out

  
Stewart Podolsky  
Senior Chemist





August 25, 1992  
Sample Log 4900

The following abbreviations and qualifiers may be present in the analytical reports to follow:

ug/L : Micrograms of target analyte in 1 Liter of sample.

mg/kg : Milligrams of target analyte in 1 kg of sample.

B : This data qualifier indicates that a method blank from the analytical batch contained this compound and the level found in the sample is within 5 times that level. Use data with caution.

C : This data qualifier indicates that the presence of the compound has been confirmed by GC/MS.

TCLP : Toxicity Characteristic Leaching Procedure

MS : Matrix Spike

MSD : Matrix Spike Duplicate

RPD : Relative Percent Difference (the difference between two values divided by the mean, expressed as a percentage.

% REC : Percent Recovery (the ratio between the measured value and the expected value for a spiked sample, expressed as a percentage.

< : Less than

> : Greater than

Fax copy of Lab Report and COC to Chevron Contact:  Yes  No

# Chain-of-Custody-Record

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

Chevron Facility Number 9-1740  
Facility Address 6550 Moraga Ave Oakland  
Consultant Project Number 1740-1  
Consultant Name Teachstone Developments  
Address PO Box 2554 Santa Rosa 95405  
Project Contact (Name) Jeff Monroe  
(Phone) 707 538 8818 (Fax Number) 538 8812

Chevron Contact (Name) Kenneth Kim  
(Phone) 510 842-8752  
Laboratory Name West  
Laboratory Release Number 7877660  
Samples Collected by (Name) Jeff Monroe  
Collection Date 8-20-92  
Signature Jeff Monroe

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	Iod (Yes or No)	Analytes To Be Performed										Remarks
								BTEX + TPH GAS (8020 + 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)	TPH-4181	TPH-4181	
WO-1		1	S	D	13:54		Yes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
WO-2		1	S	D	13:15		Yes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
WS-1ad		4	S	C	13:00		Yes							✓	✓	✓	✓	<p>Note: If WS-1comp is &gt; 3000 ppm P for TPH, then run a fish bio also.</p> <p>Please fax results by Monday AM 10/7/92 8812</p>
<del>WO-1</del>			<del>S</del>	<del>D</del>			<del>Yes</del>	<del>✓</del>	<del>✓</del>	<del>✓</del>	<del>✓</del>	<del>✓</del>	<del>✓</del>	<del>✓</del>	<del>✓</del>	<del>✓</del>	<del>✓</del>	
WX-1			S	D	13:20		Yes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
WX-2			S	D	13:22		Yes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
WX-3			S	D	13:40		Yes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
WX-4			S	D	13:49		Yes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Relinquished By (Signature) <u>Jeff Monroe</u>	Organization <u>T.D.</u>	Date/Time <u>8/20/92 13:35</u>	Received By (Signature) <u>[Signature]</u>	Organization	Date/Time	Turn Around Time (Circle Choice) 24 Hrs. <u>48 Hrs.</u> 5 Days 10 Days
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	

C-3.249/03 91/HCH