GETTLER-RYAN INC.

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TRANSMITTAL

TO: Ms. Karen Streich
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

DATE: April 23, 2002
PROJ. #: DG92029G.4C01
SUBJECT: Chevron SS No. 9-2029
890 West MacArthur Blvd
Oakland, California
Monitoring Well Install Report

FROM:
Geoffrey D. Risse
Project Geologist
Gettler-Ryan Inc.
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WE ARE SENDING YOU:

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COMMENTS:

On your behalf, Delta Environmental Consultants, Inc. network associate Gettler-Ryan Inc. will also be submitting a copy of the above referenced report to:

Mr. James Brownell, Delta Environmental Consultants, Inc., 3164 Gold Camp Dr., Ste. 200, Rancho Cordova, CA 95670

Mr. Don Hwang, Alameda CountyHealth Care Services Agency-Environmental Health Department, 1131 Harbor Bay Parkway, Ste. 250, Alameda, CA 94502

If you have any questions please call us in Rancho Cordova at (916) 631-1300.

Delta
Environmental
Consultants, Inc.

MAY 03 2002

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MONITORING WELL INSTALLATION REPORT

At
Chevron Service Station No. 9-2029
890 West MacArthur Boulevard
Oakland, California

Report No. DG92029G.4C01-1
Delta Project #DG92-029-G

Prepared for:

Ms. Karen Streich
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April 30, 2002

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Chevron Service Station No. 9-2029
890 West MacArthur Boulevard
Oakland, California

Report No. DG92029G.4C01-1
Delta Project #DG92-029-G

INTRODUCTION

This report presents the results of a subsurface investigation performed by Delta Environmental Consultants, Inc. (Delta) network associate Gettler-Ryan Inc. (GR) at the above referenced site. The work was performed at the request of Chevron Products Company (Chevron) to further define the lateral extent of petroleum hydrocarbons in the soil and groundwater at this site. The scope of work performed during this investigation was originally proposed in the Delta report entitled *Workplan for Additional Site Investigation* (Delta report #DG92029G.4C01), dated October 25, 2001. This work was requested by the Alameda County Health Care Services Agency-Environmental Health Department (ACHCSA-EHD) in a letter dated September 4, 2001, and was approved by the ACHCSA-EHD in a letter dated December 7, 2001. The scope of work performed included: updating the site safety plan; obtaining well installation permits from the Alameda County Public Works Agency (ACPWA); installing four groundwater monitoring wells; collecting soil samples from the well borings for description and possible chemical analysis; developing and collecting groundwater samples from the wells; analyzing selected soil and groundwater samples; surveying well head elevations; and preparing a report documenting the work performed.

SITE DESCRIPTION

The site is located on the northeast corner of the intersection of West MacArthur Boulevard and Market Street in Oakland, California (Figure 1). Current station facilities include a station building, a restroom/storage building, three gasoline underground storage tanks (USTs) and associated product lines, and five dispenser islands. Pertinent former and current site features are shown on Figure 2.

The subject site is located on the East Bay Plain, approximately 1 ¼ mile east of San Francisco Bay and approximately 1 ½ mile north of Lake Merritt. The site is relatively flat at an elevation of approximately 50 feet above mean sea level. As mapped by Helley and others (1979), soil in the vicinity of the site consists of Holocene-age fine-grained alluvium of unconsolidated plastic, moderately to poorly sorted carbonaceous silt and clay overlying medium-grained alluvium of unconsolidated moderately sorted permeable fine sand, silt, and clayey silt with a few beds of coarse sand.

The nearest surface water body is Glen Echo Creek (approximately 1 mile southeast of the site), which drains into Lake Merritt. Based upon site topography, shallow groundwater beneath the site is assumed to flow to the southwest.

PREVIOUS ENVIRONMENTAL ACTIVITIES

1981: April – Smith and Denison conducted a tank integrity test that included the drilling of two borings. The tank integrity test results indicated that the tanks were corroded, but with no holes. Gasoline hydrocarbons were detected in three of the four soil samples that were collected.

1991: March – Environmental Health Consultants conducted ambient air monitoring and sampling when a strong hydrocarbon odor was noted in the service station building. The results indicated that hydrocarbons were present in air entering the station building from the crawl space beneath the building.

1997: February – GR collected six soil samples from beneath the product dispensers during product dispenser replacement and UST upgrade (GR report #1205.02, *Soil Sampling During Product Dispenser Replacement Report* dated April 10, 1997).

2000: October – GR drilled ten soil borings (B-1 through B-10; Delta report entitled *Environmental Investigation Report*, dated October 31, 2000).

Discussion

Petroleum hydrocarbon impacted native soil beneath the site is limited to the central and southern portion of the site. Vertically, petroleum hydrocarbon impacted soil extends to groundwater. Petroleum hydrocarbon impacted soil has not been delineated to the south or southwest. Historical soil analytical data are presented in Table 1. Petroleum hydrocarbon impacted groundwater has not been delineated to the south or southwest.

Boring logs from the previous environmental investigations indicate that native soil beneath the site consists of clay to approximately 10.5 feet bgs, overlying a 4 to 9 foot thick unit consisting of clayey gravel. Underlying the clayey gravel unit, clay was encountered to the total depths explored in the borings. Groundwater is first encountered at depths ranging from 11 to 14 feet bgs.

FIELD ACTIVITIES

To further define the lateral extent of petroleum hydrocarbons in the soil and groundwater at the site, GR installed four groundwater monitoring wells. Fieldwork was performed in accordance with GR's Site Safety Plan dated February 28, 2002. GR Field Methods and Procedures are included in Appendix A. Underground Service Alert was notified prior to beginning site activities. The wells were installed by Gregg Drilling and Testing Inc. (C57 #485165) under ACPWA permit No. W01-2151 (Appendix B).

Groundwater monitoring wells MW-1 through MW-4 were installed at the subject site on March 1, 2002. Well borings were drilled to a depth of 25 feet below ground surface (bgs) using a truck-mounted drill rig equipped with 8-inch-diameter hollow-stem augers. A GR geologist observed the drilling activities. Soil samples were collected from the well borings at five-foot intervals for description and preparation of a log, and for possible chemical analysis. Boring logs are included in Appendix C. Locations of newly installed wells are shown on Figure 2. Copies of the Well Completion Reports are included in Appendix C.

Soil cuttings generated during drilling activities were placed on and covered with plastic. Composite disposal confirmation sample SP1(A-D) was collected from the stockpiled soil cuttings. Stockpile sampling procedures are presented in Appendix A.

Well Installation

Groundwater monitoring wells MW-1 through MW-4 were constructed using 2-inch diameter Schedule 40 polyvinyl chloride (PVC) casing and 0.010-inch machine-slotted screen material. The wells are screened from 10 to 25 feet bgs. The annular space around the screens in each well is packed with Lonestar #2/12 graded sand. The sandpack is followed by a seal of bentonite chips hydrated with clean water and neat cement to approximately 1-foot bgs. The top of each well is protected by a traffic-rated vault box, locking well cap and lock. The vault box is installed flush with the ground surface, and is set in concrete. Well construction details are included with the boring logs in Appendix C.

Well Monitoring, Development and Sampling

The wells were developed and sampled on March 12, 2002. Depth-to-water was measured in all groundwater monitoring wells at the site. Each well was checked for the presence of separate phase hydrocarbons (SPHs). No SPHs were observed in the wells. None of the newly installed wells dewatered during development. Following development, groundwater samples were collected from each of the wells. Purge water generated during development and sampling procedures was transported by IWM to McKittrick Waste Management located in McKittrick, California, for disposal. Well development procedures are included in Appendix A. Copies of the well development forms are included in Appendix D. Monitoring data are summarized in Table 2.

Wellhead Survey

Following installation of the wells, the elevations were surveyed by Virgil Chavez Land Surveying of Vallejo, CA (license #6323). Top of casing and vault box elevations were measured relative to an USGS benchmark, and the horizontal locations including GPS longitude and latitude of the wells were measured. The surveyor's report is included in Appendix E. Well elevations are summarized in Table 2.

RESULTS OF THE SUBSURFACE INVESTIGATION

Soil encountered during this investigation consisted of clay, silt, poorly graded sand, and well graded sand. Clay was encountered in well borings MW-1 and MW-2 to approximately 22 feet bgs.

Poorly graded sand was encountered underlying the clay to the total depth explored in well borings MW-1 and MW-2. Clay was encountered in well boring MW-3 to approximately 21 feet bgs. Within the clay, silt was encountered from approximately 6 to 12 feet bgs. A poorly graded sand was encountered underlying the clay to the total depth explored. Clay was encountered in well boring MW-4 to approximately 21 feet bgs. A lens of poorly graded sand was encountered in the clay from 9 to 11 feet bgs. Underlying the clay, a well-graded sand was encountered to the total depth explored. Groundwater was encountered at approximately 10 feet bgs in the well borings. Detailed descriptions of the soil encountered during drilling are presented on the boring logs in Appendix C. Based on the groundwater monitoring data collected on March 12, 2002, shallow groundwater beneath the site appears to flow in a southwestly direction at a gradient of 0.01 (Figure 3).

CHEMICAL ANALYTICAL RESULTS

A total of eleven soil samples from the well borings, one composite soil sample from the stockpiled drill cuttings, and four groundwater samples were submitted under chain-of-custody for chemical analysis. Analyses were performed by Lancaster Laboratories (ELAP #2116). Copies of the laboratory reports and chain-of-custody forms are included in Appendix F. Soil and groundwater chemical analytical data are summarized in Tables 3 and 4, respectively.

Chemical Analytical Procedures

The soil and groundwater samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tert-butyl ether (MtBE) by EPA Method 8021B. In addition, groundwater samples were analyzed for tert-butyl alcohol (TBA), MtBE, di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), 1,2-dichloroethane (1,2-DCA), and 1,2-dibromoethane (1,2-DBA or EDB) by EPA Method 8260B. The stockpiled drill cutting sample was analyzed for TPHg, BTEX, and MtBE by EPA Methods 8015M/8221B, and total lead by EPA Method 6010B.

Soil Analytical Results

TPHg, BTEX or MtBE were not detected in any of the soil samples analyzed from well borings MW-1 and MW-2. Soil samples collected from well borings MW-3 and MW-4 contained TPHg at concentrations ranging from 2.1 (MW3-14.5) to 240 (MW3-4.5) parts per million (ppm). Two soil samples MW4-4.0 and MW3-14.5 contained benzene at concentrations of 0.18 ppm and 0.22 ppm, respectively. MtBE was reported in soil sample MW4-4.0 at 0.23 ppm.

Groundwater Analytical Results

TPHg, BTEX, TBA, DIPE, ETBE, TAME, MtBE, 1,2-DCA, or 1,2-DBA were non-detect in the groundwater sample from well MW-1. Only MtBE was reported in the groundwater sample from well MW-2 at a concentration of 3 parts per billion (ppb). TPHg, benzene, MtBE, and TAME were reported in wells MW-3 and MW-4 at concentrations of 12,000 and 9,700 ppb, 500 and 360 ppb, 650 and 170 ppb, and 18 and 13 ppb, respectively.

WASTE DISPOSAL

Soil cuttings generated during drilling activities were placed on and covered with plastic sheeting at the subject site and disposal confirmation sample SP-1(A-D) was collected. Approximately 1.6 cubic yards of soil cuttings were removed from the site by IWM and taken to Republic Services Vasco Road Landfill in Livermore, California, for disposal on April 9, 2002. A Certificate of Disposal is included in Appendix B.

DISCUSSION

TPHg were reported in soil from well borings MW-3 and MW-4 at 4.5 and 14.5 feet bgs. TPHg, benzene, MtBE, TAME were reported in groundwater samples from wells MW-3 and MW-4. Based on groundwater monitoring data, shallow groundwater beneath the site appears to flow to the southwest. Petroleum hydrocarbon impacted soil and shallow groundwater remains undefined to the south and southwest. The results of this investigation suggest that further assessment work to the south and southwest may be necessary, but GR recommends that at least two additional quarters of groundwater monitoring and sampling data be collected to establish groundwater flow direction and hydrocarbon concentration trends before proposing additional assessment work at this site.

Table 1
Historical Soil Analytical Chemical Data
Chevron Service Station No. 9-2029
890 West MacArthur Boulevard
Oakland, California

Sample ID	Depth (feet)	Date	TPHg (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)	MtBE (ppm)	Lead (ppm)
S1-3	3.0	2/26/97	<1.0	<0.0050	<0.0050	<0.0050	0.011	0.087	NA
S2-3	3.0	2/26/97	6.0[1]	<0.0050	<0.0050	<0.0050	0.0079	0.38	NA
S3-3	3.0	2/26/97	4.1[2]	0.0098	0.0087	0.027	0.026	0.44	NA
S4-3	3.0	2/26/97	2.0[2]	0.016	0.0088	<0.0050	0.015	0.42	NA
S5-3	3.0	2/26/97	38	0.63	0.14	0.90	0.37	0.62	NA
S6-3	3.0	2/26/97	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	NA
B1-6	6.0	10/6/00	68[3]	0.25	0.30	1.2	0.64	0.33	4.5
B1-11	11.0	10/6/00	<1.0	<0.0050	0.0073	<0.0050	0.0089	<0.050	4.5
B2-6	6.0	10/6/00	<1.0[4]	<0.0050	<0.0050	<0.0050	0.012	<0.050	6.9
B2-11	11.0	10/6/00	<1.0[4]	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	3.9
B3-6	6.0	10/9/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	4.4
B3-11	11.0	10/9/00	930[3]	6.7	1.2	22	100	13	4.7
B4-6	6.0	10/9/00	<1.0[5]	<0.0050	<0.0050	<0.0050	<0.0050	<0.050[6]	10[7]
B4-11	11.0	10/9/00	<1.0[5]	<0.0050	<0.0050	<0.0050	<0.0050	<0.050[6]	3.5[8]
B5-6	6.0	10/5/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	6.1
B5-11	11.0	10/5/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	3.7
B6-6	6.0	10/5/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	6.5
B6-11	11.0	10/5/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	5.1
B7-6	6.0	10/9/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	9.2
B7-11	11.0	10/9/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	5.4
B8-6	6.0	10/6/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	6.8
B8-11	11.0	10/6/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	5.1
B9-6	6.0	10/9/00	95[3]	0.15	0.2	1.9	2.2	<0.5	5.0
B9-11	11.0	10/9/00	200[3]	1.3	0.59	6.1	9.7	3.4	6.9
B10-6	6.0	10/6/00	<1.0	<0.0050	0.0058	0.0052	0.016	<0.050	7.7
B10-11	11.0	10/6/00	<1.0	<0.0050	<0.0050	0.0051	0.015	<0.050	4.6

Explanation
NA = Not analyzed
ppm = parts per million
TPHg = Total Petroleum Hydrocarbons as gasoline
TPHho = Total Petroleum Hydrocarbons as hydraulic oil
O&G = Oil and Grease
TPHd = Total Petroleum Hydrocarbons as diesel
VO = Volatile Organics
SVO = Semivolatile Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = total Xylenes
MtBE = Methyl tert-butyl ether

Table 1
Historical Soil Analytical Chemical Data
Chevron Service Station No. 9-2029
890 West MacArthur Boulevard
Oakland, California

Notes:

[1] Unidentified hydrocarbons > C8

[2] Gasoline and discrete peaks

[3] Gasoline C6-C12

[4] Sample also analyzed for TPHho (<10 ppm)

[5] Sample also analyzed for O&G (<50 ppm) and TPHd (<1.0 ppm).

[6] Sample also analyzed for VO (ND) and SVO (ND)

[7] Sample also analyzed for Cd (0.69 ppm), Cr (42 ppm), Ni (100 ppm), and Zn (63 ppm)

[8] Sample also analyzed for Cd (0.57 ppm), Cr (24 ppm), Ni (29 ppm), and Zn (50 ppm)

Table 2
Summary of Depth to Groundwater
Chevron Service Station No. 9-2029
890 West MacArthur Boulevard
Oakland, California

Well ID	TOC (ft)	DTW (ft)	FPP thickness (ft)	Groundwater Elevation (ft)
MW1	50.71[1]	6.50	0.00	44.21
MW2	52.57[1]	6.09	0.00	46.48
MW3	50.31[1]	6.50	0.00	43.81
MW4	49.93[1]	5.34	0.00	44.59

Explanations
ft = feet
FPP = Free Phase Product
TOC = Top of Casing
DTW = Depth to Water
USGS = United States Geological Survey

[1] TOC surveyed relative to USGS benchmark (elevation 85.41 ft) by Virgil Chavez Land Surveying (PLS 6323) on March 14, 2002

Table 3
Soil Chemical Analytical Results
Chevron Service Station No. 9-2029
890 West MacArthur Boulevard
Oakland, California

Sample ID	Sample Depth (feet)	Sample Date	TPHg (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)	MtBE (ppm)	Lead (ppm)
Boring MW-1									
MW1-6	6	3/1/02	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	NA
MW1-24.5	24.5	3/1/02	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	NA
Boring MW-2									
MW2-4.5	4.5	3/1/02	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	NA
MW2-14.5	14.5	3/1/02	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	NA
MW2-24.5	24.5	3/1/02	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	NA
Boring MW-3									
MW3-4.5	4.5	3/1/02	240	<0.050	<0.050	3.7	<0.300	<0.20	NA
MW3-14.5	14.5	3/1/02	2.1	0.22	<0.0050	0.11	<0.015	<0.21	NA
MW3-24.5	24.5	3/1/02	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	NA
Boring MW-4									
MW4-4.0	4.0	3/1/02	150	0.18	<0.020	2.1	1.9	0.23	NA
MW4-14.5	14.5	3/1/02	3.1	<0.0050	<0.0050	0.019	<0.015	<0.050	NA
MW4-24.5	24.5	3/1/02	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	NA
Drill Cuttings Stockpile									
SP1(A-D)	--	3/1/02	71	<0.020	<0.020	0.38	0.38	0.058	1.4

Explanations:
-- = not applicable
NA = Not Analyzed
ppm = parts per million
B = Benzene
T = Toluene
E = Ethylbenzene
X =Total Xylenes
MtBE = Methyl-tert Butyl Ether
TPHg = Total Petroleum Hydrocarbons as gasoline

Analytical Laboratory:
Lancaster Laboratories (ELAP# 2116)

Analytical Methods:
TPHg by EPA Method 8015M
BTEX and MtBE by EPA Method 8021B
Lead by EPA Method 6010B

Table 4
Groundwater Chemical Analytical Results
Chevron Service Station No. 9-2029
890 West MacArthur Boulevard
Oakland, California

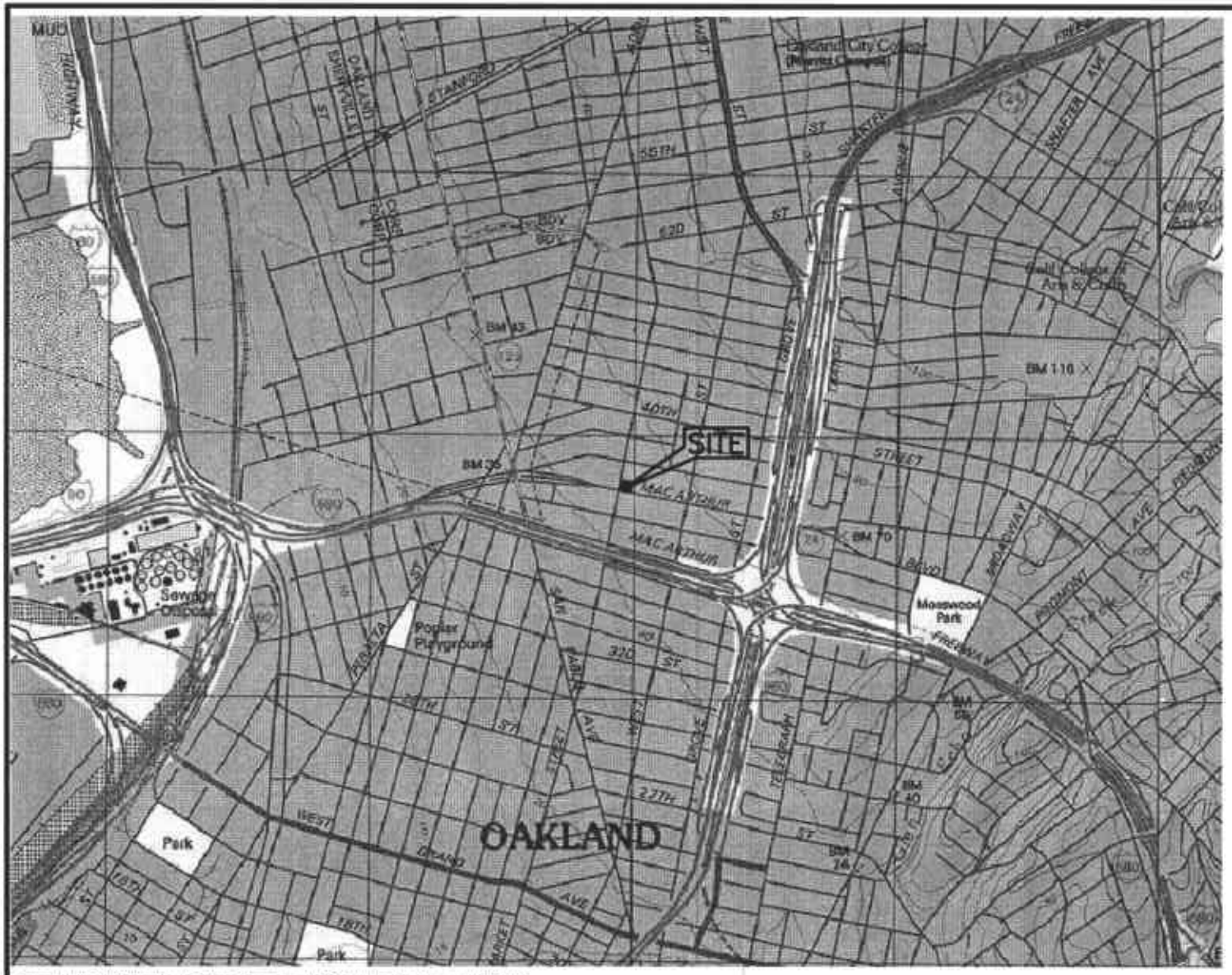
Sample ID	Sample Date	TPHg (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE[a] (ppb)	MtBE[b] (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	TBA (ppb)
MW-1	3/12/02	<50	<0.50	<0.50	<0.50	<1.5	<2.5	<2.0	<2.0	<2.0	<2.0	<100
MW-2	3/12/02	<50	<0.50	<0.50	<0.50	<1.5	<2.5	3.0	<2.0	<2.0	<2.0	<100
MW-3	3/12/02	12,000	600	8.5	1,100	370	700	650	<2.0	<2.0	18	<100
MW-4	3/12/01	9,700	360	5.3	1,100	150	170	170	<2.0	<2.0	13	<100

Explanations
ppb = parts per billion
TPHg = Total Petroleum Hydrocarbons as gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total Xylenes
MtBE = Methyl tert-Butyl Ether
DIPE = Di-isopropyl Ether
ETBE = Ethyl Tert-Butyl Ether
TAME = Tert-Amyl Methyl Ether
TBA = Tert-Butyl Alcohol
1,2-DCA = 1,2-Dichloroethane
1,2-DBA = 1,2-Dibromoethane (EDB)

Analytical Laboratory:
Lancaster Laboratories (ELAP #2116)

Analytical Methods:
TPHg by EPA Method 8015M
BTEX by EPA Method 8021B
DIPE/ETBE/TAME/TBA/1,2-DCA/1,2-DBA by EPA Method 8260B

Notes:
[a] Analyzed by EPA Method 8021B
[b] Analyzed by EPA Method 8260B
All samples were non detect for 1,2-DCA (<2.0 ppb) and 1,2-DBA (<2.0 ppb).



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

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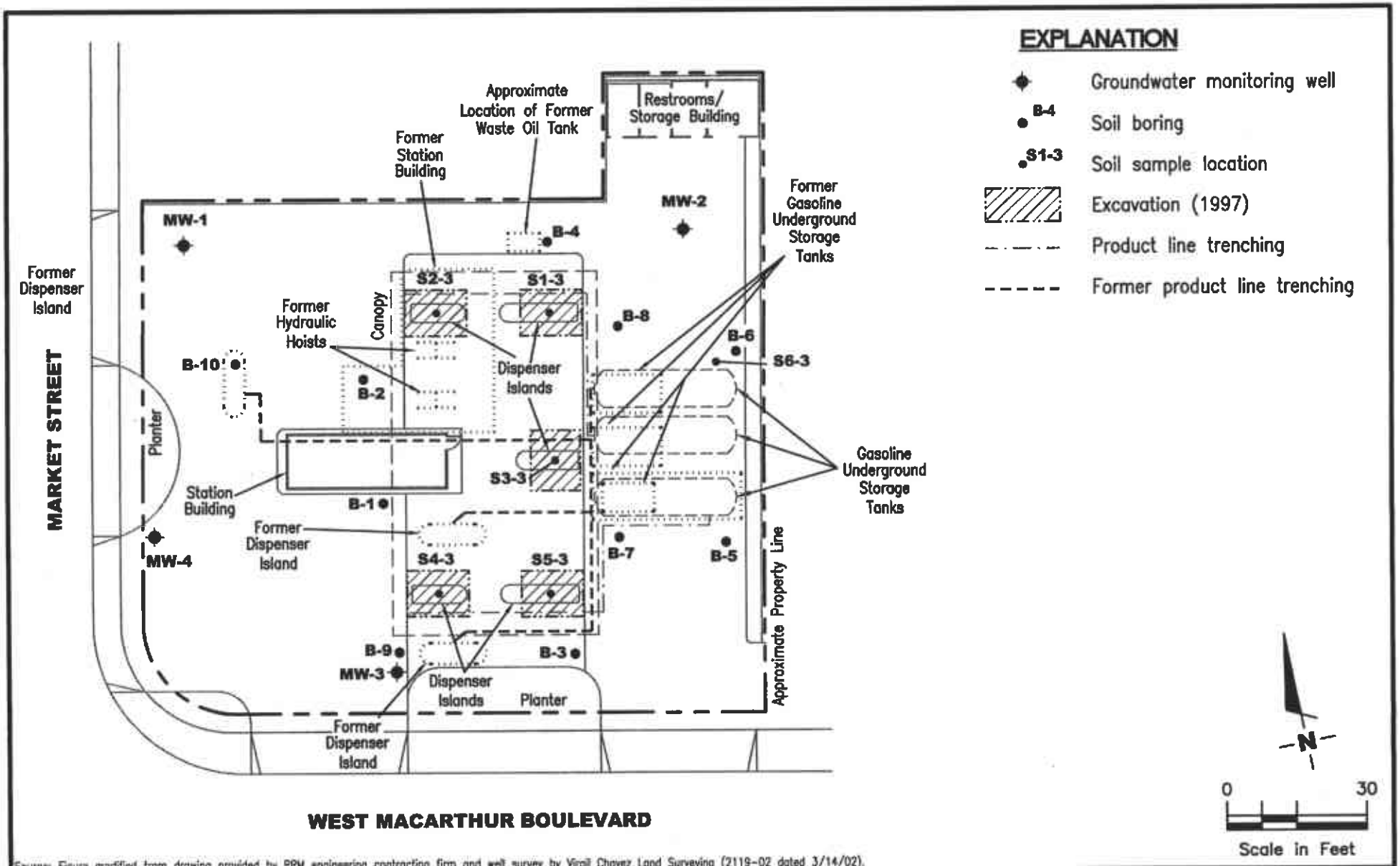
VICINITY MAP
Chevron Service Station No. 9-2029
890 West MacArthur Boulevard
Oakland, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
DG92029G.4CO1		4/02	

FILE NAME: P:\ENVIRO\CHEVRON\9-2029\VIC-9-2029.DWG | Layout Tab: Vic Map



Source: Figure modified from drawing provided by RRM engineering contracting firm and well survey by Virgil Chavez Land Surveying (2119-02 dated 3/14/02).

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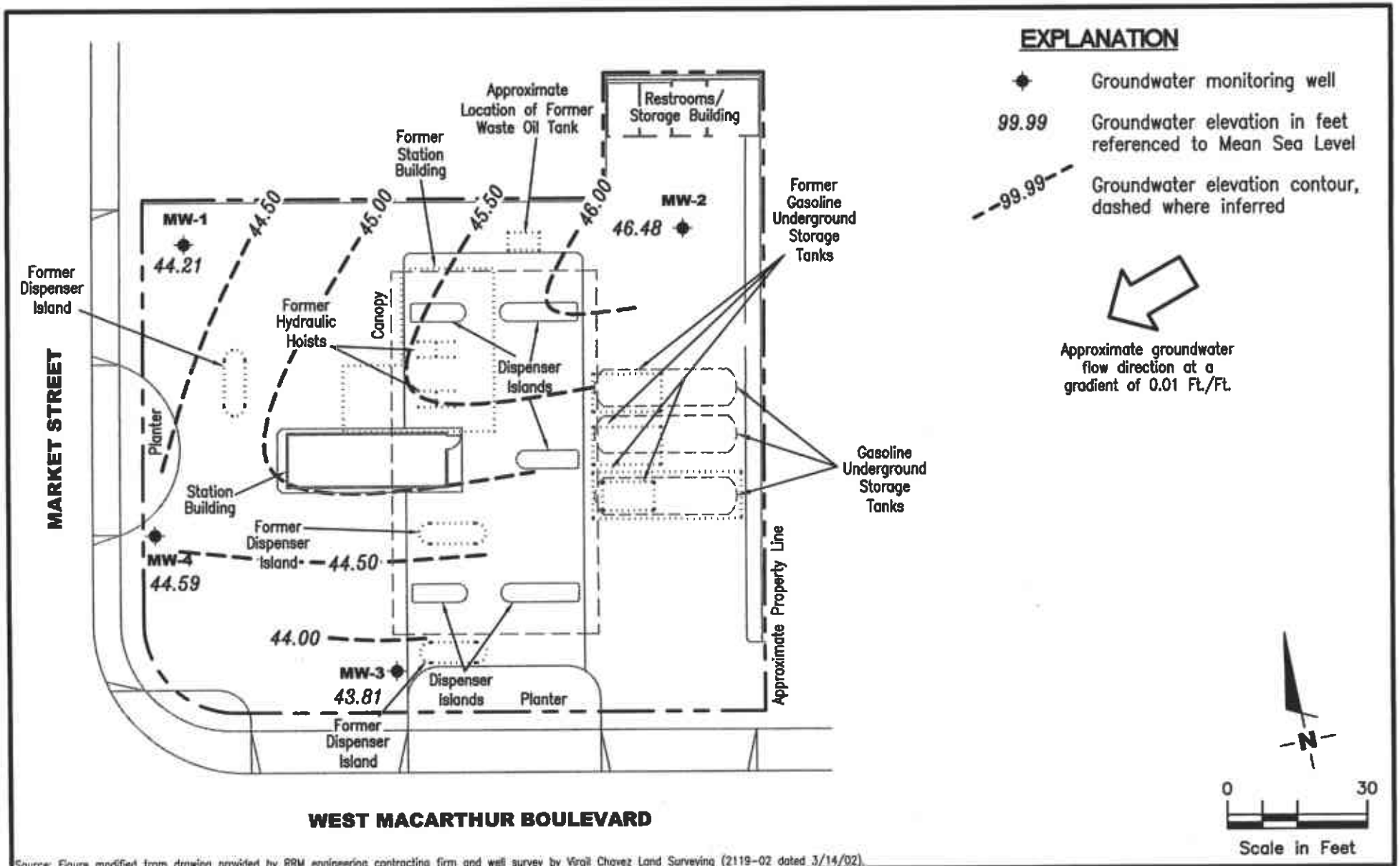
SITE PLAN
Chevron Service Station No. 9-2029
890 West MacArthur Boulevard
Oakland, California

FIGURE
2

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
DG92029G.4CO1		4/02	

FILE NAME: P:\ENVIRO\CHEVRON\9-2029\A00-9-2029.DWG | Layout Tab: Well Install 4-02



Source: Figure modified from drawing provided by RRM engineering contracting firm and well survey by Virgil Chavez Land Surveying (2119-02 dated 3/14/02).

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POTENTIOMETRIC MAP
Chevron Service Station No. 9-2029
890 West MacArthur Boulevard
Oakland, California

FIGURE
3

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
DG92029G.4CO1		March 12, 2002	

FILE NAME: P:\ENVIRO\CHEVRON\9-2029\A00-9-2029.DWG | Layout Tab: Plot1 4-02

GETTLER-RYAN INC.

FIELD METHODS AND PROCEDURES
WELL INSTALLATION

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 Soil Samples

Collection, preservation, and analysis of samples is performed in accordance with the California Code of Regulations Title 23, Division 3, Chapter 16, *Underground Tank Regulations* (June 2001), the Central Valley Regional Water Quality Control Board's *Tri-Regional Board Staff Recommendations for Preliminary Investigation And Evaluation Of Underground Tank Sites* (August 1990), Environmental Protection Agency *SW-846 Methods* (November 2000), and local agency guidelines.

Well borings are drilled by a California-licensed well driller. A GR geologist is present to observe the drilling, collect soil samples for description, physical testing, and chemical analysis, and prepare a log of the exploratory soil boring under the supervision of a California Registered Geologist. Soil samples are collected from the soil boring with a split-barrel sampling device fitted with 2-inch-diameter, clean brass tubes or stainless steel liners. The sampling device is driven approximately 18 inches with a 140-pound hammer falling 30 inches. The number of blows required to advance the sampler each successive 6 inches is recorded on the boring log. The encountered soils are described using the Unified Soil Classification System (ASTM 2488-93) and the Munsell Soil Color Chart or GSA Rock Color Chart.

After removal from the sampling device, soil samples for chemical analysis are covered on both ends with teflon sheeting, capped, labeled, and placed in a cooler with blue ice for preservation to 4°C ± 2°C. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to a California state-certified hazardous material testing laboratory. Samples are selected for chemical analysis based in part on:

a. depth relative to underground storage tanks and existing ground surface
b. depth relative to known or suspected groundwater
c. depth relative to areas of known hydrocarbon impact at the site
d. presence or absence of contaminant migration pathways
e. presence or absence of discoloration or staining
f. presence or absence of obvious gasoline hydrocarbon odors
g. presence or absence of organic vapors detected by headspace analysis

Field Screening of Soil Samples

A PID is used to perform headspace analysis in the field for the presence of organic vapors from the soil sample. This test procedure involves removing some soil from one of the sample tubes not retained for chemical analysis and immediately covering the end of the tube with a plastic cap, or by placing a small amount of the soil to be screened in a sealable plastic bag. The soil is warmed in the sun to allow organic compounds in the sample to volatilize. The PID probe is inserted into the headspace inside the tube

through a hole in the plastic cap or through the wall of the plastic bag. Headspace screening results are recorded on the boring log. Headspace screening procedures are performed and results recorded as reconnaissance data. GR does not consider field screening techniques to be verification of the presence or absence of hydrocarbons.

Construction of Monitoring Wells

Monitoring wells are constructed in the well borings with Schedule 40 polyvinyl chloride (PVC) casing. All joints are thread-joined; no glues, cements, or solvents are used in well construction. The screened interval is constructed of machine-slotted PVC well screen, which generally extends from the total well depth to a point above the groundwater. An appropriately sized sorted sand is placed in the annular space adjacent to the entire screened interval. A bentonite transition seal is placed in the annular space above the sand, and the remaining annular space is sealed with neat cement or cement grout.

Wellheads are protected with water-resistant traffic-rated vault boxes placed flush with the ground surface. The top of the well casing is sealed with a locking waterproof cap. A lock is placed on the well cap to prevent vandalism and unintentional introduction of materials into the well.

Measurement of Water Levels

The top of the newly installed well casing is surveyed by a California-licensed Land Surveyor to mean sea level (MSL). The surveyor also obtains the horizontal coordinates of the well location including GPS longitude and latitude. Depth-to-groundwater in the well is measured from the top of the well casing with an electronic water-level indicator. Depth-to-groundwater is measured to the nearest 0.01-foot, and referenced to MSL.

Well Development and Sampling

The purpose of well development is to improve hydraulic communication between the well and the surrounding aquifer. Prior to development, each well is monitored for the presence of floating product and the depth-to-water is recorded. Wells are then developed by alternately surging the well with a vented surge block, then purging the well with a pump or bailer to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized.

Storing and Sampling of Drill Cuttings

Drill cuttings are either drummed, or stockpiled on and covered with plastic sheeting, and samples are collected and analyzed for disposal classification on the basis of one composite sample per 100 cubic yards of soil. Drill cuttings samples are composed of four discrete soil samples, each collected from an arbitrary location. The four discrete samples are then composited at the laboratory prior to analysis.

Each discrete drill cuttings sample is collected by removing the upper 3 to 6 inches of soil, and then driving the stainless steel or brass sample tube into the stockpiled material by hand, 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.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to well development, each well is monitored for the presence of free-phase hydrocarbons and the depth to water is recorded. Wells are then developed by alternately surging the well with the bailer, then purging the well with a pump to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 898 West MacArthur Blvd., Oakland, CA

Chevron #9-2029

CLIENT
Name Chevron Products Company
Address P.O. Box 6004 Phone (925) 842-8898
City San Ramon Zip 94583

APPLICANT
Name Gettler-Ryan Inc
Fax (916) 631-1382
Address 3140 Gold Canal Dr #170 Phone (916) 631-1300
City Rancho Cordova Zip 95670

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	☑	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☑
Cable	☐	Other	☐		

DRILLER'S NAME Gregg Drilling

DRILLER'S LICENSE NO. 485165

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 25 ft.
Surface Seal Depth 7 ft. Owner's Well Number MW-1

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 2/18/02
ESTIMATED COMPLETION DATE 2/18/02

FOR OFFICE USE
PERMIT NUMBER W01-2151
WELL NUMBER _____
APN _____

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED _____ DATE 1-7-02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Geoffrey P. Risse DATE 1/3/02

PLEASE PRINT NAME Geoffrey P. Risse

Rev.5-13-00

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 890 West MacArthur Blvd., Oakland, CA
Chevron #9-2029

CLIENT
Name Chevron Products Company
Address P.O. Box 6004 Phone (925) 842-8898
City San Ramon Zip 94583

APPLICANT
Name Gettler Ryan Inc Fax (916) 631-1317
Address 3140 Gold Canal Dr #100 Phone (916) 631-1300
City Rancho Cordova Zip 95670

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	☑	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☑
Cable	☐	Other	☐		

DRILLER'S NAME Gregg Drilling
DRILLER'S LICENSE NO. 485165

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 25 ft.
Surface Seal Depth 7 ft. Owner's Well Number MW-2

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 2/18/02
ESTIMATED COMPLETION DATE 2/18/02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Geoffrey P. Riesse DATE 1/3/02

PLEASE PRINT NAME Geoffrey P. Riesse Rev.5-13-00

FOR OFFICE USE

PERMIT NUMBER _____
WELL NUMBER _____
APN _____

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED _____ DATE 1-7-02

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 890 West MacArthur Blvd, Oakland, CA

Chevron # 9-2029

CLIENT
Name Chevron Products Company
Address P.O. Box 6004 Phone (925) 842-8898
City San Ramon Zip 94583

APPLICANT
Name Gettler-Ryan INC
Address 6140 Gold Gate #170 Phone (916) 631-1200 Fax (916) 631-1317
City Rancho Cordova Zip 95670

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	☑	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☑
Cable	☐	Other	☐		

DRILLER'S NAME Gregg Drilling

DRILLER'S LICENSE NO. 485165

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 25 ft.
Surface Seal Depth 7 ft. Owner's Well Number MW-3

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 2/18/02
ESTIMATED COMPLETION DATE 2/18/02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Geoffrey T. Risse DATE 1/3/02

PLEASE PRINT NAME Geoffrey T. Risse

Rev.5-13-00

FOR OFFICE USE

PERMIT NUMBER _____
WELL NUMBER _____
APN _____

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED _____ DATE 1-7-02

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 890 West MacArthur Blvd, Oakland, CA
Chevron #9-202-9

CLIENT
Name Chevron Products Company
Address P.O. Box 6004 Phone (925) 842-8878
City San Ramon Zip 94583

APPLICANT
Name Gettler-Ryan Inc
Fax (916) 631-1317
Address 3140 Gold Camp Dr #1 Phone (916) 631-1300
City Rancho Cordova Zip 95670

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	☑	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☑
Cable	☐	Other	☐		

DRILLER'S NAME Gregg Drilling
DRILLER'S LICENSE NO. 485165

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 25 ft.
Surface Seal Depth 7 ft. Owner's Well Number MW-4

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 2/18/02
ESTIMATED COMPLETION DATE 2/18/02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Geoffrey P. Raisa DATE 1/3/02
PLEASE PRINT NAME Geoffrey P. Risse

Rev.5-13-00

FOR OFFICE USE

PERMIT NUMBER _____
WELL NUMBER _____
APN _____

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED _____ DATE 1-7-02

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
950 AMES AVENUE, MILPITAS, CA 95035
PHONE: 408.942.8955 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name:	Chevron Products Company	Facility Name:	Chevron #9-2029
Address:	6001 Bollinger Canyon Road	Address:	890 W. MacArthur Blvd
	San Ramon, CA 94583		Oakland, CA
Contact:	Bob Cochran	Facility Contact:	Geoffrey Risse, Gettler-Ryan
Phone:	925-842-9500	Phone:	916-631-1300

IWM Job #:	92090-SS
Description of Waste:	1.6 CY of Non-Hazardous Soil
Removal Date:	April 9, 2002
Ticket #:	RSVRL090402

Transporter Information

Name:	IWM, Inc.
Address:	950 Ames Avenue
	Milpitas, CA 95035
Phone:	(408) 942-8955

Disposal Facility Information

Name:	Republic Services Vasco Road Landfill
Address:	4001 N. Vasco Road
	Livermore, CA 94550
Phone:	(925) 447-0491

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

William T. DeLon William T. DeLon — 4/9/02

Authorized Representative (Print Name and Signature) — Date

MAJOR DIVISIONS				TYPICAL NAMES
COARSE-GRAINED SOILS (MORE THAN HALF IS COARSER THAN NO. 200 SIEVE)	GRAVELS (MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE)	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW	Well graded gravels with or without sand, little or no fines
			GP	Poorly graded gravels with or without sand, little or no fines
		GRAVELS WITH OVER 15% FINES	GM	Silty gravels, silty gravels with sand
			GC	Clayey gravels, clayey gravels with sand
	SANDS (MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE)	CLEAN SANDS WITH LITTLE OR NO FINES	SW	Well graded sands with or without gravel, little or no fines
			SP	Poorly graded sands with or without gravel, little or no fines
		SANDS WITH OVER 15% FINES	SM	Silty sands with or without gravel
			SC	Clayey sands with or without gravel
FINE-GRAINED SOILS (MORE THAN HALF IS FINER THAN NO. 200 SIEVE)	SILTS AND CLAYS (LIQUID LIMIT 50% OR LESS)		ML	Inorganic silts and very fine sands, rock flour, silts with sands and gravels
			CL	Inorganic clays of low to medium plasticity, clays with sands and gravels, lean clays
			OL	Organic silts or clays of low plasticity
	SILTS AND CLAYS (LIQUID LIMIT GREATER THAN 50%)		MH	Inorganic silts, micaceous or diatomaceous, fine sandy or silty soils, elastic silts
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic silts or clays of medium to high plasticity
HIGHLY ORGANIC SOILS			PT	Peat and other highly organic soils

PID	Volatile vapors in ppm
bgs	below ground surface
(2.5YR 6/2)	Soil color according to Munsell Soil Color Charts (1993 Edition)
BLOWS/FT.	Sample drive hammer weight – 140 pounds falling 30 inches. Blows required to drive sampler 1 foot are indicated on the logs.

———	Observed contact
– – – –	Inferred contact
⊘	No soil sample recovered
■	"Undisturbed" sample
▽	First encountered groundwater level
▼	Static groundwater level

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

UNIFIED SOIL CLASSIFICATION
ASTM D 2488-85
AND
KEY TO SAMPLING DATA

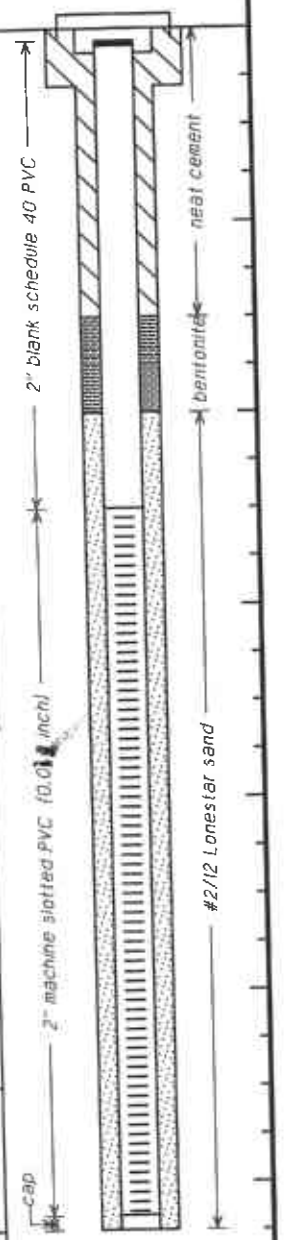
Gettler-Ryan, Inc.

Log of Boring MW-1

PROJECT: *Chevron Service Station No. 9-2029*	LOCATION: *890 West MacArthur Blvd., Oakland, CA*
GR PROJECT NO.: *DG92029G.4C01*	CASING ELEVATION: *50.71 ft. (MSL)*
DATE STARTED: *03/01/02*	WL (ft. bgs): *10.0* DATE: *03/01/02* TIME: *08:46*
DATE FINISHED: *03/01/02*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *25 feet*
DRILLING COMPANY: *Gregg Drilling*	GEOLOGIST: *Geoff Risse*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
							Concrete over base rock – 6 inches thick.
						CL	CLAY (CL) – yellowish brown (10YR 5/8) mottled with rust, moist, very stiff, low plasticity; 95% clay, 5% fine sand.
4	180	23	MW1-8				
8							Becomes saturated.
	850	26	MW1-11				
12							
16	-	40					Becomes hard.
20	175	30	MW1-21				Color changes to brown (7.5YR 5/4), becomes very stiff; 90% clay, 5% fine sand, 5% fine gravel.
						SP	POORLY GRADED SAND (SP) – brown (7.5YR 5/4), saturated, dense; 90% coarse sand, 10% fine gravel.
24	1000	40	MW1-24.5				
							Bottom of boring at 25 feet bgs.
28							(* = Converted to equivalent standard penetration blows/foot.)

WELL DIAGRAM



JOB NUMBER: *DG92029G.4C01*

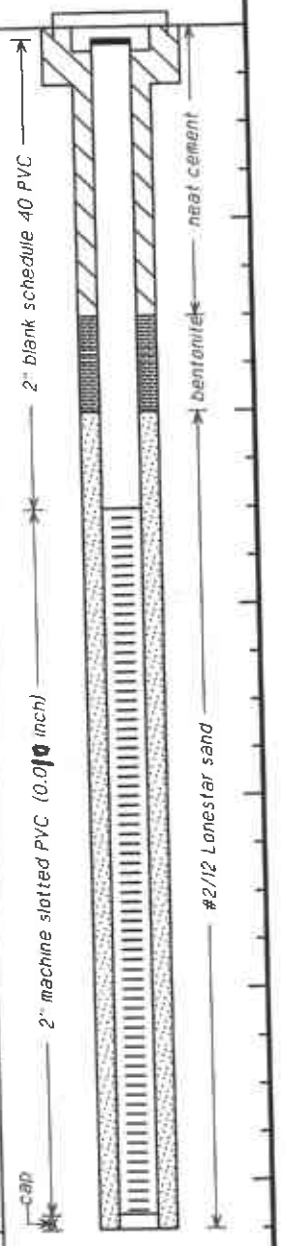
Gettler-Ryan, Inc.

Log of Boring MW-2

PROJECT: *Chevron Service Station No. 9-2029*	LOCATION: *890 West MacArthur Blvd., Oakland, CA*
GR PROJECT NO.: *DG92029G.4C01*	CASING ELEVATION: *52.57 ft. (MSL)*
DATE STARTED: *03/01/02*	WL (ft. bgs): *10.0* DATE: *03/01/02* TIME: *11:06*
DATE FINISHED: *03/01/02*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *25 feet*
DRILLING COMPANY: *Gregg Drilling*	GEOLOGIST: *Geoff Risse*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
							Concrete over base rock – 6 inches thick.
						CL	CLAY (CL) – grayish brown (10YR 5/2) mottled with rust, moist, very stiff, low plasticity; 90% clay, 10% fine gravel.
4	1000	27	MW2-4.5				
							CLAY WITH GRAVEL (CL) – brown (7.5YR 4/4), saturated, hard, low plasticity; 85% clay, 15% medium gravel.
8	1000	38	MW2-9.5				
12							CLAY (CL) – brown (7.5YR 4/4), saturated, very stiff, low plasticity; 95% clay, 5% fine sand.
	100	22	MW2-14.5				
16							
	1000	13	MW2-19				
20							Color changes to black (7.5YR 2.5/1), becomes stiff; 95% clay, 5% fine sand.
						SP	POORLY GRADED SAND (SP) – black (7.5YR 2.5/1), saturated, dense; 95% coarse sand, 5% clay.
24	1000	44	MW2-24.5				
							Bottom of boring at 25 feet bgs.
28							(* = Converted to equivalent standard penetration blows/foot.)

WELL DIAGRAM



JOB NUMBER: *DG92029G.4C01*

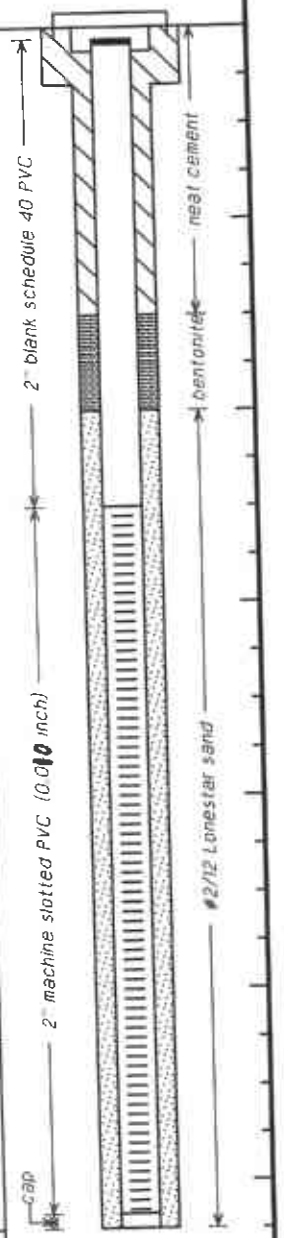
Gettler-Ryan, Inc.

Log of Boring MW-3

PROJECT: *Chevron Service Station No. 9-2029*	LOCATION: *890 West MacArthur Blvd., Oakland, CA*
GR PROJECT NO.: *DG92029G.4C01*	CASING ELEVATION: *50.31 ft. (MSL)*
DATE STARTED: *03/01/02*	WL (ft. bgs): *10.0* DATE: *03/01/02* TIME: *13:02*
DATE FINISHED: *03/01/02*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *25 feet*
DRILLING COMPANY: *Gregg Drilling*	GEOLOGIST: *Geoff Risse*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION
					Concrete over base rock – 6 inches thick.
				CL	CLAY (CL) – greenish gray (5G 5/1), moist, very stiff; 90% clay, 10% gravel, coarse sand lenses, hydrocarbon odor.
4	7	28	MW3-4.5		
				ML	SILT (ML) – gray (N6), saturated, very stiff; 90% silt, 10% fine to medium sand, faint hydrocarbon odor.
8	1000	29	MW3-9.5		
				CL	CLAY (CL) – dark gray (N4), saturated, hard, low plasticity; 95% clay, 5% fine sand.
12	1000	53	MW3-14.5		
16					
	280	48	MW3-19.5		Color changes to dark brown (7.5YR 3/2); becomes 90% clay, 5% fine sand, 5% fine gravel.
20				SP	POORLY GRADED SAND (SP) – brown (7.5YR 4/3), saturated, dense; 90% coarse sand, 5% coarse gravel, 5% clay.
24	4500	49	MW3-24.5		
					Bottom of boring at 25 feet bgs.
28					(* = Converted to equivalent standard penetration blows/foot.)

WELL DIAGRAM



JOB NUMBER: *DG92029G.4C01*

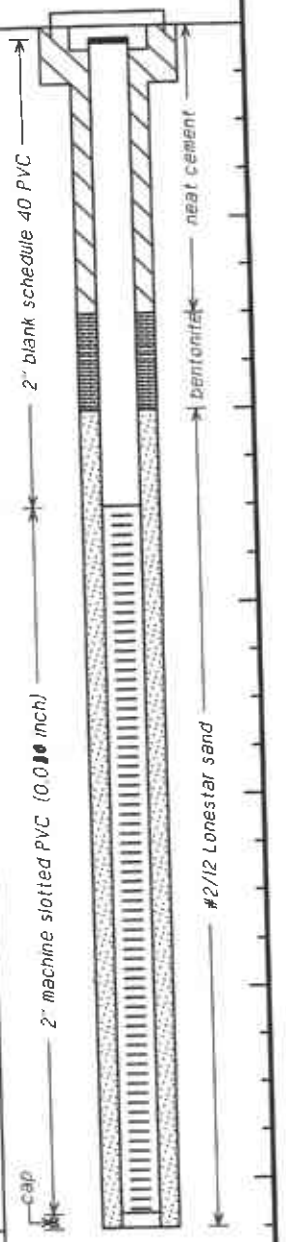
Gettler-Ryan, Inc.

Log of Boring MW-4

PROJECT: *Chevron Service Station No. 9-2029*	LOCATION: *890 West MacArthur Blvd., Oakland, CA*
GR PROJECT NO.: *DG92029G.4C01*	CASING ELEVATION: *49.93 ft. (MSL)*
DATE STARTED: *03/01/02*	WL (ft. bgs): *10.0* DATE: *03/01/02* TIME: *15:23*
DATE FINISHED: *03/01/02*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *25 feet*
DRILLING COMPANY: *Gregg Drilling*	GEOLOGIST: *Geoff Risse*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
							Concrete over base rock – 6 inches thick.
						CL	CLAY (CL) – light gray (7.5YR 7/1), moist, very stiff, non-plastic; 95% clay, 5% fine sand, faint hydrocarbon odor.
4	7	26	MW4-4				
8	22	30	MW4-9.5			SP	POORLY GRADED SAND (SP) – gray (7.5YR 6/1), saturated, dense; 90% coarse to medium sand, 10% fine to coarse gravel, faint hydrocarbon odor.
						CL	CLAY (CL) – brown (7.5YR 4/3), saturated, hard, low-plasticity; 95% clay, 5% fine sand.
12	0	37	MW4-14.5				
16							becomes very stiff.
20	4	31	MW4-19.5			SW	WELL-GRADED SAND (SW) – gray (7.5YR 6/1), saturated, dense; 90% fine to coarse sand, 10% fine to coarse gravel.
24	1	48	MW4-24.5				Bottom of boring at 25 feet bgs.
28							(* = Converted to equivalent standard penetration blows/foot.)

WELL DIAGRAM



JOB NUMBER: *DG92029G.4C01*

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

MONITORING WELL
OBSERVATION SUMMARY SHEET

CHEVRON #: 9-2029 G-R JOB #: 386911

LOCATION: 890 W. MacArthur Blvd. DATE: 3-12-02

CITY: Oakland, CA TIME:

Well ID	Total Depth	Depth to Water	Product Thickness	TOB or TOC	Comments
MW-1	24.67	6.50	⌀	TOC	
MW-2	21.21	6.09			
MW-3	24.50	6.50			
MW-4	24.64	5.34			

Comments:

Sampler: BG Assistant: —

sumsheet11/96

WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET

Client/ CHEVRON
Facility 9-2029 Job#: 386911
Address: 890 W. MacArthur Blvd. Date: 3/12/02
City: Oakland, CA Sampler: BG

Well ID MW-1 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: 0 Ft. Amount Bailed (product/water): 0 (gal.)
Total Depth 22.29 ft.
Depth to Water 6.50 ft.

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

15.79 x VF .17 = 3 x 10 (case volume) = Estimated Purge Volume: 30 (gal.)

Purge Equipment: Disposable Bailer; Bailer; ~~Stack~~; Suction; Grundfos; Other: ~~Stainless steel Bailer~~

Sampling Equipment: Disposable Bailer; ~~Bailer~~; Pressure Bailer; Grab Sample; Other:

Starting Time: 0930
Sampling Time: 0958
Purging Flow Rate: 3 gpm.
Did well de-water? NO

Weather Conditions: Cloudy
Water Color: Light Brown Odor: NO
Sediment Description: little to No silt.
If yes: Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
0931	3	7.44	925	63.8			
	6						
	9						
	12						
0938	15	7.03	455	65.5			
	18						
	21						
	24						
	27						
0945	30	6.98	455	65.8			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6x VOAs	Y	HCL	Lancaster	TPHG/BTEX/MTBE 7 oxys

COMMENTS: TP After surging and purging 24.67.

WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET

Client/ CHEVRON
Facility 9-2029 Job#: 386911
Address: 890 W. MacArthur Blvd. Date: 3-12-02
City: Oakland, CA Sampler: BG

Well ID: MW 2
Well Condition: OK
Well Diameter: 2 in.
Hydrocarbon Thickness: 0 Ft.
Amount Bailed (product/water): 0 (gal.)
Total Depth: 20.65 ft.
Depth to Water: 6.09 ft.

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

14.56 X VF .17 = 2 X 10 (case volume) = Estimated Purge Volume: 20 (gal.)

Purge Equipment: ~~Disposable Bailer~~ ~~Bailer~~ ~~Stack~~ Suction ~~Grundfos~~ (Other: Stainless steel Bailer)

Sampling Equipment: Disposable Bailer ~~Bailer~~ ~~Pressure Bailer~~ ~~Grab Sample~~ Other:

Starting Time: 1131
Sampling Time: 1158
Purging Flow Rate: 3 gpm.
Did well de-water? N
Weather Conditions: Cloudy
Water Color: light Brown Odor: None
Sediment Description: light silt
If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1132	2	7.11	548	65.0			
	4						
	6						
	8						
1135	10	6.98	538	65.3			
	12						
	14						
	16						
	18						
1140	20	6.89	531	66.1			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW 2	6 x VOA	Y	HCl	~~STL~~ Lancaster	TPH-G/Btex/MtBE/Tox

COMMENTS: 21.21 TD after sucking and purging

WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET

Client/Facility: CHEVRON 9-2029 Job#: 386911

Address: 890 W. MacArthur Blvd. Date: 3-12-02

City: Oakland, CA Sampler: BG

Well ID: MW-3 Well Condition: OK

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

Total Depth: 24.54 ft.

Depth to Water: 6.50 ft.

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

18.04 x VF .17 = 3 x 10 (case volume) = Estimated Purge Volume: 30 (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, **Suction** (circled), Grundfos, **Other: Stainless Steel Bailer** (circled)

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

Starting Time: 1030 Weather Conditions: Cloudy

Sampling Time: 1052 Water Color: Brown Odor: No

Purging Flow Rate: 3 gpm. Sediment Description: light silt

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

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1031	3	5.30	571	67.1			
	6						
	9						
	12						
1036	15	6.11	561	67.6			
	18						
	21						
	24						
	27						
1042	30	6.18	560	67.8			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x VOA	Y	HCL	LANCASTER	TPH-G/BTEX/MTBE / 7 oxy's

COMMENTS: New TD after surging and purging 24.50

WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET

Client/ CHEVRON
Facility 9-2029 Job#: 386911
Address: 890 W. MacArthur Blvd. Date: 3-12-02
City: Oakland, CA Sampler: BG

Well ID: MW-4 Well Condition: OK
Well Diameter: 2 in. Hydrocarbon Thickness: 0 Ft. Amount Bailed (product/water): 6 (gal.)
Total Depth: 24.57 ft.
Depth to Water: 5.34 ft.

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

19.23 x VF .17 = 3 x 3 (case volume) = Estimated Purge Volume: 30 (gal.)

Purge Equipment: Disposable Bailer; Bailer; ~~Stack~~; Suction; ~~Grundfos~~; Other: Stainless steel Bailer

Sampling Equipment: ~~Disposable Bailer~~; ~~Bailer~~; Pressure Bailer; Grab Sample; Other:

Starting Time: 1107
Sampling Time: 1125
Purging Flow Rate: 3 gpm.
Did well de-water? N

Weather Conditions: Cloudy
Water Color: light Brown Odor: Slight.
Sediment Description: -
If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1108	3	6.47	540	66.0			
	6						
	9						
	12						
1112	15	5.97	601	68.4			
	18						
	21						
	24						
	27						
1119	30	5.96	611	68.5			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6x VOA's	Y	HCL	Lancaster	TPH-G / MTBE / BTEX / 7 oxys

COMMENTS: New TD After Surging and Purging is 24.64

9/97-fieldat.frm

Virgil Chavez Land Surveying
312 Georgia Street, Suite 225
Vallejo, California 94590-5907
(707) 553-2476 • Fax (707) 553-8698

April 9, 2002
Project No.: 2119-02

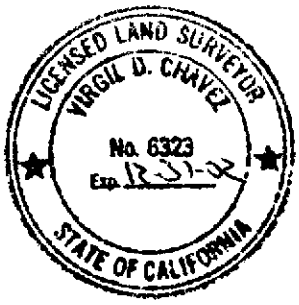
Geoff Risse
Gettler-Ryan, Inc.
3140 Gold Camp Drive, Suite 170
Rancho, Cordova, CA 95670

Subject: Monitoring Well Survey
Chevron Service Station #9-2029
890 W. MacArthur Boulevard
Oakland, CA

Dear Geoff:

This is to confirm that we have proceeded at your request to survey the ground water monitoring wells located at the above referenced location. The survey was completed on March 14, 2002. The benchmark for this survey was a USGS bronze disk located near the north end of the curb return at the Northwest corner of 38th Street and Broadway. The latitude, longitude and coordinates are for top of casings and are based on the California State Coordinate System, Zone III (NAD83).
Benchmark Elevation 85.41 feet (NGVD 29).

Latitude	Longitude	Northing	Easting	Elev.	Desc.
				51.14	RIM MW-1
37.8284353	-122.2743061	2128971.60	6049253.80	50.71	TOC MW-1
				52.97	RIM MW-2
37.8283896	-122.2739349	2128952.92	6049360.67	52.57	TOC MW-2
				50.83	RIM MW-3
37.8281612	-122.2742091	2128871.26	6049279.91	50.31	TOC MW-3
				50.36	RIM MW-4
37.8282676	-122.2743680	2128910.88	6049234.76	49.93	TOC MW-4



Sincerely,

Virgil D. Chavez, PLS 6323

CASE NARRATIVE

Prepared For:

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

Prepared By:

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

SAMPLE GROUP

The sample group for this submittal is 799013. Samples arrived at the laboratory on Tuesday, March 05, 2002.

METHODOLOGY

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

COMMENTS

Poor surrogate recoveries were observed for samples MW-4-4.0 and MW-3-4.5 from Facility 92029 due to the dilution needed to perform the BTEX/MTBE and TPH-GRO analysis.

The client requested we analyze and report sample MW-1-24.5 from Facility 92029 even though the 14-day holding time was exceeded for the TPH-GRO analysis.

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REPRINT

ANALYTICAL RESULTS

Prepared for:

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

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 799013. Samples arrived at the laboratory on Tuesday, March 05, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description			Lancaster Labs Number
MW-4-S-4.0-020301	NA	Soil	3782254
MW-4-S-14.5-020301	NA	Soil	3782255
MW-4-S-24.5-020301	NA	Soil	3782256
MW-3-S-4.5-020301	NA	Soil	3782257
MW-3-S-14.5-020301	NA	Soil	3782258
MW-3-S-24.5-020301	NA	Soil	3782259
MW-2-S-4.5-020301	NA	Soil	3782260
MW-2-S-14.5-020301	NA	Soil	3782261
MW-2-S-24.5-020301	NA	Soil	3782262
MW-1-S-6-020301	NA	Soil	3782263
MW-1-S-24.5-020301	NA	Soil	3782264

METHODOLOGY

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

1 COPY TO Gettler-Ryan Inc. Attn: Geoffrey D. Risse

Lancaster Laboratories
Where quality is a science.

Questions? Contact your Client Services Representative
Teresa M Lis at (717) 656-2300.

Respectfully Submitted,

Steven A Skiles
Steven A. Skiles
Sr. Chemist

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
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REPRINT

Lancaster Laboratories Sample No. SW 3782254

Collected:03/01/2002 15:15 by TB

Account Number: 10992

Submitted: 03/05/2002 09:10
Reported: 03/19/2002 at 19:36
Discard: 03/27/2002
MW-4-S-4.0-020301 NA Soil

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

Facility# 92029 GRRC
890 McCarthur NA NA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	150.	20.	mg/kg	500

The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.
The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.

A poor surrogate recovery was observed due to the dilution needed to perform the analysis.

02160	BTEX/MTBE					
02174	Benzene	71-43-2	0.18	0.020	mg/kg	100
02177	Toluene	108-88-3	N.D.	0.020	mg/kg	100
02178	Ethylbenzene	100-41-4	2.1	0.020	mg/kg	100
02182	Total Xylenes	1330-20-7	1.9	0.060	mg/kg	100
02199	MTBE	1634-04-4	0.23	0.20	mg/kg	100

The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.

A poor surrogate recovery was observed due to the dilution needed to perform the analysis.

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

State of California Lab Certification No. 2116

Laboratory Chronicle

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

REPRINT

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. SW 3782254

Collected:03/01/2002 15:15 by TB

Account Number: 10992

Submitted: 03/05/2002 09:10
Reported: 03/19/2002 at 19:36
Discard: 03/27/2002
MW-4-S-4.0-020301 NA Soil

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

Facility# 92029 GRRC
890 McCarthur NA NA

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/15/2002 16:46	Steven A Skiles	500
02160	BTEX/MTBE	SW-846 8021B	1	03/07/2002 05:09	Martha L Seidel	100
01150	GC VOA Soil Prep	SW-846 5035	1	03/06/2002 19:25	Martha L Seidel	n.a.

Analysis Report

Lancaster Laboratories
Where quality is a science.

REPRINT

Lancaster Laboratories Sample No. SW 3782255

Collected:03/01/2002 15:30 by TB

Account Number: 10992

Submitted: 03/05/2002 09:10
Reported: 03/19/2002 at 19:36
Discard: 03/27/2002

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

MW-4-S-14.5-020301 NA Soil

Facility# 92029 GRRC
890 McCarthur NA NA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	3.1	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	0.019	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/15/2002 17:24	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/06/2002 23:36	Martha L Seidel	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/06/2002 19:26	Martha L Seidel	n.a.

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

REPRINT

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. SW 3782256

Collected:03/01/2002 15:44 by TB

Account Number: 10992

Submitted: 03/05/2002 09:10
Reported: 03/19/2002 at 19:36
Discard: 03/27/2002
MW-4-S-24.5-020301 NA Soil

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

Facility# 92029 GRRC
890 McCarthur NA NA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/15/2002 18:02	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/07/2002 00:13	Martha L Seidel	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/06/2002 19:27	Martha L Seidel	n.a.

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
Where quality is a science.

REPRINT

Lancaster Laboratories Sample No. SW 3782257

Collected:03/01/2002 12:56 by TB

Account Number: 10992

Submitted: 03/05/2002 09:10
Reported: 03/19/2002 at 19:36
Discard: 03/27/2002
MW-3-S-4.5-020301 NA Soil

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

Facility# 92029 GRRC
890 McCarthur NA NA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	240.	20.	mg/kg	500

The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.
The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.

A poor surrogate recovery was observed due to the dilution needed to perform the analysis.

02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.050	mg/kg	100
02177	Toluene	108-88-3	N.D.	0.050	mg/kg	100
02178	Ethylbenzene	100-41-4	3.7	0.020	mg/kg	100
02182	Total Xylenes	1330-20-7	N.D.	300.	mg/kg	100
02199	MTBE	1634-04-4	0.52	0.20	mg/kg	100

The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.

A poor surrogate recovery was observed due to the dilution needed to perform the analysis.

Due to the presence of interferents near their retention time, normal reporting limits were not attained for the compounds listed below. The presence or concentration of these compounds cannot be determined below the reporting limits due to the presence of these interferents.

benzene
toluene
total xylenes

State of California Lab Certification No. 2116

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REPRINT

Lancaster Laboratories Sample No. SW 3782257

Collected:03/01/2002 12:56 by TB

Account Number: 10992

Submitted: 03/05/2002 09:10
Reported: 03/19/2002 at 19:36
Discard: 03/27/2002
MW-3-S-4.5-020301 NA Soil

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

Facility# 92029 GRRC
890 McCarthur NA NA

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/15/2002 18:40	Steven A Skiles	500
02160	BTEX/MTBE	SW-846 8021B	1	03/07/2002 11:28	Martha L Seidel	100
01150	GC VOA Soil Prep	SW-846 5035	1	03/06/2002 19:28	Martha L Seidel	n.a.

Analysis Report

REPRINT

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Lancaster Laboratories Sample No. SW 3782258

Collected:03/01/2002 13:09 by TB

Account Number: 10992

Submitted: 03/05/2002 09:10
Reported: 03/19/2002 at 19:37
Discard: 03/27/2002

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

MW-3-S-14.5-020301 NA Soil

Facility# 92029 GRRC
890 McCarthur NA NA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	2.1	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	0.22	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	0.11	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	0.21	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/15/2002 19:18	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/07/2002 00:50	Martha L Seidel	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/06/2002 19:29	Martha L Seidel	n.a.

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Analysis Report

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Lancaster Laboratories Sample No. SW 3782259

Collected:03/01/2002 13:27 by TB

Account Number: 10992

Submitted: 03/05/2002 09:10
Reported: 03/19/2002 at 19:37
Discard: 03/27/2002

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

MW-3-S-24.5-020301 NA Soil

Facility# 92029 GRRC
890 McCarthur NA NA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/15/2002 19:56	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/07/2002 10:51	Martha L Seidel	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/06/2002 19:30	Martha L Seidel	n.a.

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Analysis Report

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REPRINT

Lancaster Laboratories Sample No. SW 3782260

Collected:03/01/2002 10:57 by TB

Account Number: 10992

Submitted: 03/05/2002 09:10
Reported: 03/19/2002 at 19:37
Discard: 03/27/2002
MW-2-S-4.5-020301 NA Soil

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

Facility# 92029 GRRC
890 McCarthur NA NA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/15/2002 20:34	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/11/2002 19:44	Stephanie A Selis	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/11/2002 16:06	Martha L Seidel	n.a.

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Analysis Report

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Lancaster Laboratories Sample No. SW 3782261

Collected:03/01/2002 11:14 by TB

Account Number: 10992

Submitted: 03/05/2002 09:10
Reported: 03/19/2002 at 19:37
Discard: 03/27/2002

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San Ramon CA 94583-0904

MW-2-S-14.5-020301 NA Soil

GRRC

Facility# 92029
890 McCarthur NA NA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/15/2002 22:29	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/07/2002 02:41	Martha L Seidel	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/06/2002 19:32	Martha L Seidel	n.a.

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Analysis Report

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Lancaster Laboratories Sample No. SW 3782262

Collected:03/01/2002 11:26 by TB

Account Number: 10992

Submitted: 03/05/2002 09:10
Reported: 03/19/2002 at 19:37
Discard: 03/27/2002

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San Ramon CA 94583-0904

MW-2-S-24.5-020301 NA Soil

GRRC

Facility# 92029
890 McCarthur NA NA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/15/2002 23:07	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/07/2002 03:18	Martha L Seidel	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/06/2002 19:33	Martha L Seidel	n.a.

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Analysis Report

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Lancaster Laboratories Sample No. SW 3782263

Collected:03/01/2002 08:38 by TB

Account Number: 10992

Submitted: 03/05/2002 09:10
Reported: 03/19/2002 at 19:37
Discard: 03/27/2002
MW-1-S-6-020301 NA Soil

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

Facility# 92029 GRRC
890 McCarthur NA NA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/15/2002 23:45	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/07/2002 03:55	Martha L Seidel	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/06/2002 19:34	Martha L Seidel	n.a.

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REPRINT

Lancaster Laboratories Sample No. SW 3782264

Collected:03/01/2002 09:10 by TB

Account Number: 10992

Submitted: 03/05/2002 09:10
Reported: 03/19/2002 at 19:37
Discard: 03/27/2002
MW-1-S-24.5-020301 NA Soil

Chevron Products Company
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Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 92029 GRRC
890 McCarthur NA NA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The client requested we analyze and report this sample even though the 14-day holding time was exceeded.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/16/2002 00:23	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/07/2002 04:32	Martha L Seidel	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/06/2002 19:35	Martha L Seidel	n.a.

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Quality Control Summary

Client Name: Chevron Products Company

Group Number: 799013

Reported: 03/19/02 at 07:37 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 02057A34B	Sample number(s): 3782254-3782256,3782258,3782261-3782264							
Benzene	N.D.	.005	mg/kg	106		84-132		
Toluene	N.D.	.005	mg/kg	103		88-116		
Ethylbenzene	N.D.	.005	mg/kg	103		87-127		
Total Xylenes	N.D.	.015	mg/kg	103		88-120		
MTBE	N.D.	.05	mg/kg	110		64-158		
Batch number: 02057A34C	Sample number(s): 3782257,3782259							
Benzene	N.D.	.005	mg/kg	106		84-132		
Toluene	N.D.	.005	mg/kg	103		88-116		
Ethylbenzene	N.D.	.005	mg/kg	103		87-127		
Total Xylenes	N.D.	.015	mg/kg	103		88-120		
MTBE	N.D.	.05	mg/kg	110		64-158		
Batch number: 02070A33B	Sample number(s): 3782260							
Benzene	N.D.	.005	mg/kg	105		84-132		
Toluene	N.D.	.005	mg/kg	105		88-116		
Ethylbenzene	N.D.	.005	mg/kg	106		87-127		
Total Xylenes	N.D.	.015	mg/kg	105		88-120		
MTBE	N.D.	.05	mg/kg	100		64-158		
Batch number: 02074A36A	Sample number(s): 3782254-3782260							
TPH-GRO - Soils	N.D.	1.	mg/kg	94		75-117		
Batch number: 02074A36B	Sample number(s): 3782261-3782264							
TPH-GRO - Soils	N.D.	1.	mg/kg	94		75-117		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 02057A34B	Sample number(s): 3782254-3782256,3782258,3782261-3782264								
Benzene	91	97	56-142	6	30				
Toluene	83	88	66-120	6	30				
Ethylbenzene	88	95	66-131	8	30				
Total Xylenes	84	89	67-122	6	30				
MTBE	103	137	42-163	10	30				
Batch number: 02057A34C	Sample number(s): 3782257,3782259								
Benzene	91	97	56-142	6	30				
Toluene	83	88	66-120	6	30				
Ethylbenzene	88	95	66-131	8	30				
Total Xylenes	84	89	67-122	6	30				
MTBE	103	137	42-163	10	30				

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.

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Quality Control Summary

Client Name: Chevron Products Company
Reported: 03/19/02 at 07:37 PM

Group Number: 799013

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 02070A33B	Sample number(s): 3782260								
Benzene	110	110	56-142	0	30				
Toluene	91	89	66-120	3	30				
Ethylbenzene	103	102	66-131	1	30				
Total Xylenes	95	93	67-122	3	30				
MTBE	139	138	42-163	1	30				
Batch number: 02074A36A	Sample number(s): 3782254-3782260								
TPH-GRO - Soils	84	78	44-116	7	30				
Batch number: 02074A36B	Sample number(s): 3782261-3782264								
TPH-GRO - Soils	84	78	44-116	7	30				

Surrogate Quality Control

Analysis Name: BTEX/MTBE
Batch number: 02057A34B

	Trifluorotoluene-F	Trifluorotoluene-P
3782254		29*
3782255		93
3782256		80
3782258		89
3782261		86
3782262		82
3782263		89
3782264		86
Blank		98
LCS	99	101
MS	93	94
MSD	95	96
Limits:	61-127	68-122

Analysis Name: BTEX/MTBE
Batch number: 02057A34C

	Trifluorotoluene-F	Trifluorotoluene-P
3782257		0*
3782259		89
Blank		97
LCS	99	101
MS	93	94
MSD	95	96

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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Quality Control Summary

Client Name: Chevron Products Company
Group Number: 799013
Reported: 03/19/02 at 07:37 PM

Surrogate Quality Control

Limits:	61-127	68-122
Analysis Name: TPH-GRO - Soils		
Batch number: 02070A33B		
	Trifluorotoluene-F	Trifluorotoluene-P
3782260		91
Blank	98	107
LCS	108	110
MS	91	97
MSD	91	96

Limits:	61-127	68-122
Analysis Name: TPH-GRO - Soils		
Batch number: 02074A36A		
	Trifluorotoluene-F	
3782254	7*	
3782255	96	
3782256	86	
3782257	8*	
3782258	89	
3782259	88	
3782260	95	
Blank	99	
LCS	108	
MS	104	
MSD	97	

Limits:	61-127
Analysis Name: TPH-GRO - Soils	
Batch number: 02074A36B	
	Trifluorotoluene-F
3782261	85
3782262	81
3782263	95
3782264	85
Blank	99
LCS	108
MS	104
MSD	97
Limits:	61-127

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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Chevron California Region Analysis Request/Chain of Custody

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For Lancaster Laboratories use only
Acct. #: 10992 Sample #: 3782284 - 64 SCR#:

Consultant/Office: Gettler-Ryan INC
Consultant Prj. Mgr.: Geoffrey O. Risse Prj. #: 06920296.4C01
Consultant Phone #: (916)631-1300 Fax #: (916)631-1317
Service Order #:
Site Address: Chevron #9-2029 Region:
Sampler: Geoffrey O. Risse
Chevron PM: Tom Banks

Analyses Requested (List total number of containers in the box under each analysis.)

Preservation Codes: 0

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (☐ Potable ☐ NPDES)	Oil ☐ Air ☐	Total Number of Containers	BTEX 8021 ☑ 8260 ☐ + MTBE ☑	TPH 8015 MOD GRO ☐ DRO ☐	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐							
MW4-4.0	3/1/02	1515			✓				1											
MW4-9.5	↓	1523			✓				1	HOLD										
MW4-14.5		1530			✓				1											
MW4-19.5		1537			✓				1	HOLD										
MW4-24.5		1544			✓				1			send								
MW3-4.5		1256			✓				1					EDF						
MW3-9.5		1302			✓				1	HOLD										
MW3-14.5		1309			✓				1											
MW3-19.5		1319			✓				1	HOLD										
MW3-24.5	↓	1327			✓				1											

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

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☑ Confirm all hits by 8260 (DO NOT CONFIRM MTBE)
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

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

Data Package Options (please circle if required)
QC Summary Type I - Full
Type VI (Raw Data) Disk / EDD
WIP (RWQCB) Standard Format
Disk ________ Other.

Relinquished by:	Date	Time	Received by:	Date	Time
G. O. Risse	3/4/02	1035	~~Received by:~~		
~~Relinquished by:~~			Received by:		
Relinquished by:			~~Received by:~~		~~Time~~
Relinquished by Commercial Carrier: UPS (FedEx) Other ____			Received by: [signature]	3/5/02	0910

Temperature Upon Receipt 4 C°
Custody Seals Intact? Yes No (NA)

6/22/01

1 of 2

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

Acct. #: 10992 For Lancaster Laboratories use only Sample #: 318254-64 SCR#:

Consultant/Office: Getler-Ryan INC
Consultant Prj. Mgr.: Geoffrey D. Risse Prj. #: 069202946.4701
Consultant Phone #: (916)631-1300 Fax #: (916)631-1317
Service Order #:
Site Address: Chevron #9-2029 Region:
Sampler: Geoffrey D. Risse
Chevron PM: Tom Bauhs

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water	Oil ☐ Air ☐	Total Number of Containers	Preservation Codes	BTEX 8021 ☑ 8260 ☐ + MTBE ☑	TPH 8015 MOD GRO ☐ DRO ☐	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐
					Potable ☐ NPDES ☐				O					
MW2-4.5	3/1/02	1057			✓			1		HOLD				
MW2-9.5		1106			✓			1						
MW2-14.5		1114			✓			1		HOLD				
MW2-19		1120			✓			1						
MW2-24.5		1126			✓			1						
MW1-6		0838			✓			1		HOLD				
MW1-11		0846			✓			1		HOLD				
MW1-21		0900			✓			1						
MW1-24.5		0910			✓			1						

Analyses Requested — List total number of containers in the box under each analysis.

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

☐ J value reporting needed

☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation

☐ Confirm highest hit by 8260
~~☐~~ Do not confirm
☑ Confirm all hits by 8260 M+DE
☐ Run ____ oxy's on highest h
☐ Run ____ oxy's on all hits

Send EDF

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

Data Package Options (please circle if required)
QC Summary | Type I - Full
Type VI (Raw Data) | Disk / EDD
WIP (RWQCB) | Standard Format
Disk | ____ Other.

	Date	Time
Relinquished by: Geoffrey D. Risse	3/4/02	1035
Relinquished by:		
Relinquished by:		
Relinquished by Commercial Carrier: UPS FedEx Other		
Temperature Upon Receipt 4 C°		

	Date	Time
Received by:		
Received by:		
Received by:		
Received by: Alana	3/5/02	0910
Custody Seals Intact? Yes No (NA)		

6/22/01

2 of 2

CASE NARRATIVE

Prepared For:

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

Prepared By:

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

SAMPLE GROUP

The sample group for this submittal is 799018. Samples arrived at the laboratory on Tuesday, March 05, 2002.

METHODOLOGY

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

COMMENTS

Poor surrogate recoveries were observed for sample SP1(A-D) from Facility 92029 due to a dilution needed to perform the TPH-GRO analysis.

The client requested we analyze and report sample SP1(A-D) from Facility 92029 even though the 14-day holding time was exceeded for the TPH-GRO analysis.

Sample SP1(A-D) from Facility 92029 was homogenized prior to the BTEX/MTBE analysis.

Lancaster Laboratories
Where quality is a science.

ANALYTICAL RESULTS

Prepared for:

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

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 799018. Samples arrived at the laboratory on Tuesday, March 05, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description	Lancaster Labs Number
SP1(A-D) Soil Sample	3782280

METHODOLOGY

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

1 COPY TO	Gettler-Ryan Inc.	Attn: Geoffrey D. Risse
1 COPY TO	IWM, Inc.	Attn: Jay Deleon

Questions? Contact your Client Services Representative
Teresa M Lis at (717) 656-2300.

Respectfully Submitted,

Max E. Snavely
Sr. Chemist

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. SW 3782280

Collected:03/01/2002 16:17 by TB

Submitted: 03/05/2002 09:10
Reported: 03/19/2002 at 14:46
Discard: 03/27/2002
SP1(A-D) Soil Sample

Facility# 92029

Account Number: 10992

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

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	71.	4.0	mg/kg	100

The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.
The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.

A poor surrogate recovery was observed due to the dilution needed to perform the analysis.

The client requested we analyze and report this sample even though the 14-day holding time was exceeded.

01655	Lead	7439-92-1	1.4	0.81	mg/kg	1
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.020	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.020	mg/kg	25
02178	Ethylbenzene	100-41-4	0.38	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	0.38	0.015	mg/kg	25
02199	MTBE	1634-04-4	0.058	0.050	mg/kg	25

The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.

The sample was homogenized prior to analysis.

Due to the presence of interferents near their retention time, normal reporting limits were not attained for benzene and toluene. The presence or concentration of these compounds cannot be determined below the reporting limits due to the presence of these interferents.

State of California Lab Certification No. 2116

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. SW 3782280

Collected:03/01/2002 16:17 by TB

Submitted: 03/05/2002 09:10
Reported: 03/19/2002 at 14:46
Discard: 03/27/2002
SP1(A-D) Soil Sample

Facility# 92029

Account Number: 10992

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/16/2002 01:01	Steven A Skiles	100
01655	Lead	SW-846 6010B	1	03/15/2002 16:18	David K Beck	1
02160	BTEX/MTBE	SW-846 8021B	1	03/09/2002 02:17	Martha L Seidel	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/08/2002 10:53	Steven A Skiles	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	03/07/2002 06:00	Liana C Jones	1

Lancaster Laboratories
Where quality is a science.

Quality Control Summary

Client Name: Chevron Products Company
Reported: 03/19/02 at 02:46 PM

Group Number: 799018

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 020665708001	Sample number(s): 3782280							
Lead	N.D.	.82	mg/kg	99		86-109		
Batch number: 02066A33C	Sample number(s): 3782280							
Benzene	N.D.	.005	mg/kg	109		84-132		
Toluene	N.D.	.005	mg/kg	109		88-116		
Ethylbenzene	N.D.	.005	mg/kg	110		87-127		
Total Xylenes	N.D.	.015	mg/kg	108		88-120		
MTBE	N.D.	.05	mg/kg	98		64-158		
Batch number: 02074A36B	Sample number(s): 3782280							
TPH-GRO - Soils	N.D.	1.	mg/kg	94		75-117		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 020665708001	Sample number(s): 3782280								
Lead	100	101	75-125	1	20	29.1	29.3	1 (1)	20
Batch number: 02066A33C	Sample number(s): 3782280								
Benzene	108	107	56-142	1	30				
Toluene	84	83	66-120	2	30				
Ethylbenzene	96	95	66-131	1	30				
Total Xylenes	89	87	67-122	2	30				
MTBE	125	122	42-163	3	30				
Batch number: 02074A36B	Sample number(s): 3782280								
TPH-GRO - Soils	84	78	44-116	7	30				

Surrogate Quality Control

Analysis Name: TPH-GRO - Soils
Batch number: 02066A33C

	Trifluorotoluene-F	Trifluorotoluene-P
3782280		74
Blank	91	105
LCS	107	108
MS	94	98
MSD	94	98
Limits:	61-127	68-122

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
Where quality is a science.

Quality Control Summary

Client Name: Chevron Products Company
Group Number: 799018
Reported: 03/19/02 at 02:46 PM

Surrogate Quality Control

Analysis Name: TPH-GRO - Soils
Batch number: 02074A36B

	Trifluorotoluene-F
3782280	27*
Blank	99
LCS	108
MS	104
MSD	97
Limits:	61-127

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 10992 Sample #: 3782280 SCR#: ______

Consultant/Office: Gettler-Ryan INC
Consultant Prj. Mgr.: Geoffrey D. Risse Prj. #: 06920296.4001
Consultant Phone #: (916) 631-1300 Fax #: (916) 631-1317
Service Order #: ______
Site Address: Chevron #9-2029 Region: ______
Sampler: Geoffrey D. Risse
Chevron PM: Tom Bauhs

Analyses Requested — List total number of containers in the box under each analysis.
Preservation Codes: 0

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (☐ Potable ☐ NPDES)	Oil ☐ Air ☐	Total Number of Containers	BTEX 8021 ☑ 8260 ☐ + MTBE ☑	TPH 8015 MOD GRO ☐ DRO ☐	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐	Total Lead (6010)
SP1A	3/1/02	1617			✓				1					1 (Composite 4 into 1)
SP1B	↓	↓			✓				1					
SP1C					✓				1					
SP1D					✓				1					

GDR

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

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☒ ~~Confirm all hits by 8260~~ Do not confirm MTBE
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Fax copy of Analytical Rpt and COC to IWM (408) 942-1499 Attn: Jay DeLeon

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

Data Package Options (please circle if required)
QC Summary Type I - Full
Type VI (Raw Data) Disk / EDD
WIP (RWQCB) Standard Format
Disk ______ Other.

Relinquished by:	Date	Time	Received by:	Date	Time
Geoffrey D. Risse	3/4/02	1035			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS (FedEx) Other ______			Received by: [signature]	3/5/02	0910

Temperature Upon Receipt 4 C°
Custody Seals Intact? Yes No (N/A)

6/22/01

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

1 of 1

Analysis Report

Lancaster Laboratories
Where quality is a science.

ANALYTICAL RESULTS

Prepared for:

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

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 800511. Samples arrived at the laboratory on Friday, March 15, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description			Lancaster Labs Number
QA-T-020312	NA	Water	3789391
MW-1-W-020312	Grab	Water	3789392
MW-2-W-020312	Grab	Water	3789393
MW-3-W-020312	Grab	Water	3789394
MW-4-W-020312	Grab	Water	3789395

METHODOLOGY

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

1 COPY TO Chevron Products Company Attn: Deanna Harding

Lancaster Laboratories
Where quality is a science.

Questions? Contact your Client Services Representative
Teresa M Lis at (717) 656-2300.

Respectfully Submitted,

Victoria M. Martell
Chemist

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

MEMBER ACIL

Analysis Report

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3789391

Collected:03/12/2002 00:00

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
QA-T-020312 NA Water

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

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA QA

QA029

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/18/2002 21:37	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/18/2002 21:37	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/18/2002 21:37	Melissa D Mann	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3789392

Collected:03/12/2002 09:58 by BG

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
MW-1-W-020312 Grab Water

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

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA NA

M1029

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	N.D.	2.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	2.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	2.	ug/l	1

State of California Lab Certification No. 2116

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3789392

Collected:03/12/2002 09:58 by BG

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
MW-1-W-020312 Grab Water

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

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA NA

M1029

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/18/2002 15:04	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/18/2002 15:04	Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	03/21/2002 21:46	Susan McMahon-Luu	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/18/2002 15:04	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/21/2002 21:46	Susan McMahon-Luu	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3789393

Collected:03/12/2002 11:58 by BG

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
MW-2-W-020312 Grab Water

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

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA NA

M2029

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	3.	2.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	2.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	2.	ug/l	1

State of California Lab Certification No. 2116

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3789393

Collected:03/12/2002 11:58 by BG

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
MW-2-W-020312 Grab Water

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

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA NA

M2029

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/18/2002 15:39	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/18/2002 15:39	Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	03/21/2002 22:12	Susan McMahon-Luu	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/18/2002 15:39	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/21/2002 22:12	Susan McMahon-Luu	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Analysis Report

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Lancaster Laboratories Sample No. WW 3789394

Collected:03/12/2002 10:52 by BG

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
MW-3-W-020312 Grab Water

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

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA NA

M3029

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	12,000.	250.	ug/l	5
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	600.	1.0	ug/l	5
00777	Toluene	108-88-3	8.5	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	1,100.	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	370.	3.0	ug/l	5
00780	Methyl tert-Butyl Ether	1634-04-4	700.	2.5	ug/l	5
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	650.	3.	ug/l	5
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	18.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	2.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	2.	ug/l	1

State of California Lab Certification No. 2116

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Lancaster Laboratories
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Lancaster Laboratories Sample No. WW 3789394

Collected:03/12/2002 10:52 by BG

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
MW-3-W-020312 Grab Water

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

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA NA

M3029

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/19/2002 06:50	Melissa D Mann	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/19/2002 06:50	Melissa D Mann	5
01595	Oxygenates by 8260B	SW-846 8260B	1	03/21/2002 23:03	Susan McMahon-Luu	5
01595	Oxygenates by 8260B	SW-846 8260B	1	03/21/2002 23:28	Susan McMahon-Luu	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/19/2002 06:50	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/21/2002 23:03	Susan McMahon-Luu	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Lancaster Laboratories Sample No. WW 3789395

Collected:03/12/2002 11:25 by BG

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
MW-4-W-020312 Grab Water

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

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA NA

M4029

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	9,700.	250.	ug/l	5
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	360.	1.0	ug/l	5
00777	Toluene	108-88-3	5.3	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	1,100.	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	150.	3.0	ug/l	5
00780	Methyl tert-Butyl Ether	1634-04-4	170.	2.5	ug/l	5
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	170.	2.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	13.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	2.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	2.	ug/l	1

State of California Lab Certification No. 2116

#=Laboratory MethodDetection Limit exceeded target detection limit
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Lancaster Laboratories Sample No. WW 3789395

Collected:03/12/2002 11:25 by BG

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
MW-4-W-020312 Grab Water

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

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA NA

M4029

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/19/2002 07:25	Melissa D Mann	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/19/2002 07:25	Melissa D Mann	5
01595	Oxygenates by 8260B	SW-846 8260B	1	03/21/2002 22:38	Susan McMahon-Luu	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/19/2002 07:25	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/21/2002 22:38	Susan McMahon-Luu	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Quality Control Summary

Client Name: Chevron Products Company
Reported: 03/29/02 at 08:49 AM

Group Number: 800511

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 02077A51A	Sample number(s): 3789391-3789393							
Benzene	N.D.	.2	ug/l	108	109	80-118	2	30
Toluene	N.D.	.5	ug/l	108	109	82-119	1	30
Ethylbenzene	N.D.	.5	ug/l	108	108	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	109	108	82-120	0	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	115	114	79-127	1	30
TPH-GRO - Waters	N.D.	50.	ug/l	99	96	76-126	3	30
Batch number: 02077A51B	Sample number(s): 3789394-3789395							
Benzene	N.D.	.2	ug/l	108	109	80-118	2	30
Toluene	N.D.	.5	ug/l	108	109	82-119	1	30
Ethylbenzene	N.D.	.5	ug/l	108	108	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	109	108	82-120	0	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	115	114	79-127	1	30
TPH-GRO - Waters	N.D.	50.	ug/l	99	96	76-126	3	30
Batch number: P020801AB	Sample number(s): 3789392-3789395							
Methyl t-butyl ether	N.D.	2.	ug/l	111		77-127		
di-Isopropyl ether	N.D.	.5	ug/l	113		74-125		
Ethyl t-butyl ether	N.D.	.5	ug/l	108		74-120		
t-Amyl methyl ether	N.D.	.5	ug/l	113		71-114		
t-Butyl alcohol	N.D.	5.	ug/l	107		59-139		
1,2-Dichloroethane	N.D.	.5	ug/l	123		77-132		
1,2-Dibromoethane	N.D.	.5	ug/l	112		84-119		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 02077A51A	Sample number(s): 3789391-3789393								
Benzene	114		77-131						
Toluene	114		80-128						
Ethylbenzene	115		76-132						
Total Xylenes	115		76-132						
Methyl tert-Butyl Ether	116		61-144						
TPH-GRO - Waters	107		74-132						
Batch number: 02077A51B	Sample number(s): 3789394-3789395								
Benzene	114		77-131						
Toluene	114		80-128						
Ethylbenzene	115		76-132						
Total Xylenes	115		76-132						
Methyl tert-Butyl Ether	116		61-144						
TPH-GRO - Waters	107		74-132						

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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Quality Control Summary

Client Name: Chevron Products Company
Group Number: 800511
Reported: 03/29/02 at 08:49 AM

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: P020801AB	Sample number(s): 3789392-3789395								
Methyl t-butyl ether	120	121	69-134	0	30				
di-Isopropyl ether	123	125	68-133	1	30				
Ethyl t-butyl ether	124*	130*	73-123	5	30				
t-Amyl methyl ether	114	117	69-118	2	30				
t-Butyl alcohol	110	110	51-148	0	30				
1,2-Dichloroethane	125	128	75-141	3	30				
1,2-Dibromoethane	113	117	78-120	3	30				

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters
Batch number: 02077A51A

	Trifluorotoluene-F	Trifluorotoluene-P
3789391	97	96
3789392	98	94
3789393	98	94
Blank	102	96
LCS	111	97
LCSD	110	97
MS	115	97
Limits:	67-135	71-130

Analysis Name: TPH-GRO - Waters
Batch number: 02077A51B

	Trifluorotoluene-F	Trifluorotoluene-P
3789394	111	109
3789395	117	112
Blank	98	95
LCS	111	97
LCSD	110	97
MS	115	97
Limits:	67-135	71-130

Analysis Name: Oxygenates by 8260B
Batch number: P020801AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3789392	104	99	99	97
3789393	104	97	100	96

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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Lancaster Laboratories
Where Quality is Control

Quality Control Summary

Client Name: Chevron Products Company
Group Number: 800511
Reported: 03/29/02 at 08:49 AM

Surrogate Quality Control

3789394	99	96	101	97
3789395	98	91	99	104
Blank	102	95	100	97
LCS	103	97	99	101
MS	101	98	100	100
MSD	100	97	99	99
Limits:	86-118	80-120	88-110	86-115

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
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140302-005

Acct. #: 10992 For Lancaster Laboratories use only Sample #: 378391 - 95 SCR#:

Facility #: 9-2029 Job #386911 Global ID #NA
Site Address: 890 WEST MacAUTHUR BLVD., OAKLAND, CA
Chevron PM: Tom Bauhs Lead Consultant: Gettler-Ryan
Consultant/Office: G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568
Consultant Prj. Mgr.: Deanna L. Harding (Deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: Brian Gan
Service Order #: ☐ Non SAR:

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

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

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (Potable ☐ NPDES ☐)	Matrix: Oil ☐ Air ☐	Total Number of Containers	Analyses Requested: Preservation Codes	BTEX + MTBE 8260 ☐ 8021 ☑	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	# Oxygenates by 8260	Lead 7420 ☐ 7421 ☐
									H H					H	
QA	3-6-02	—				X		2		X	X			X	
MW-1		0958	X			X		6		X	X			X	
MW-2		1158	X			X		6		X	X			X	
MW-3		1052	X			X		6		X	X			X	
MW-4	↓	1125	X			X		6		X	X			X	

Comments / Remarks

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

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

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	3-12-02	1352	[signature]	3/14/02	1151
2	[signature]	3/14/02	1310	[signature]	3-14-02	1310
3	[signature]	3/14/02	1430	[signature]	3/14/02	
4	Relinquished by Commercial Carrier: UPS FedEx (Other) Airborne			[signature]	03/15/02	09L

Temperature Upon Receipt 15.3.0 C°
Custody Seals Intact? (Yes) No

3460 Rev. 7/30/01