RO-145

GETTLER-RYAN INC.

Alameda County
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Environmental Health

TRANSMITTAL

TO: Mr. Karen Streich
Chevron Products Company
P.O. Box 6012
San Ramon, CA 94568

DATE: December 13, 2002
PROJ. #:DG90290H.4CT1
SUBJECT: Well Install Report
Chevron 9-0290
1802 Webster Street
Alameda, California

FROM:
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Project Geologist
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WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	December 13, 2002	Monitoring Well Installation Report, Chevron 9-0290

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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 the following:

Mr. James Brownell, Delta Environmental Consultants Inc., 3164 Gold Camp Dr., Ste. 200, Rancho Cordova, CA 95670
Eva Chu, Alameda County Health Care Services Agency-Environmental Health Department, 1131 Harbor Bay Parkway, Alameda, CA 94502-6577

If you have any questions, please contact our Sacramento office at (916) 631-1300.

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MONITORING WELL INSTALLATION REPORT

at

Chevron Service Station No. 9-0290
1802 Webster Street
Alameda, California

Report No. DG90290H.4CT1
Delta Project #DG90-290-H

Prepared for:

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December 13, 2002

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At
Chevron Service Station No. 9-0290
1802 Webster Street
Alameda, California

Report No. DG90290H.4CT1
Delta Project #DG90-290-H

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 delineate the contaminant plume north of the site and to confirm Total Petroleum Hydrocarbons as gasoline (TPHg) concentrations in the vicinity of soil boring SB-2 (Figure 2). The scope of work performed during this investigation was originally proposed in the Delta report entitled *Workplan for Additional Investigation* (Delta Report No. DG90290C.4C02), dated October 9, 2001. This work was requested by the Alameda County Health Care Services Agency-Environmental Health Department (ACHCSA-EHD) in a letter dated September 24, 2001, and was approved by the ACHCSA-EHD in a letter dated December 10, 2001. The scope of work performed included: updating the site safety plan; obtaining well installation and soil boring permits from the Alameda County Public Works Agency (ACPWA); obtaining encroachment and excavation permits from Caltrans and the City of Alameda, installing two groundwater monitoring wells; installing one soil boring; collecting a grab groundwater sample from the soil boring; collecting soil samples from the 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 subject site is an operating service station located at the northeast corner of the intersection of Webster Street and Buena Vista Avenue in Alameda, California (Figure 1). Four 10,000-gallon gasoline underground storage tanks (USTs) are located in a common pit in the southwestern portion of the site. A waste oil UST is located south of the station building. Two former waste oil USTs were located near the southeastern corner of the gasoline UST pit. Pertinent site features are shown on Figure 2.

The site vicinity is used for residential and commercial purposes. The subject site is bounded to the east by an apartment complex, to the north by a Jack In The Box restaurant, to the west by Webster Street, and to the south by Buena Vista Avenue. One of the residential buildings at the apartment complex is situated immediately southeast of the subject service station building. Another commercial building is situated approximately 50 feet northeast of the northern site boundary. Single family houses and a service station are located southeast and south of the site, respectively, across Buena Vista Avenue. Commercial buildings and parking lots are located northwest, west, and southwest of the site, across Webster Street. The subject site vicinity is shown on Figure 2.

The subject site is located on the island of Alameda, approximately 1/4 mile south of the Oakland-Alameda Estuary and approximately 1 ½ mile north of San Francisco Bay. The site is relatively flat at an elevation of approximately 12 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 Oakland-Alameda Estuary approximately 1/4 mile north of the site. Based upon quarterly monitoring data, shallow groundwater beneath the site flows to the north.

PREVIOUS ENVIRONMENTAL ACTIVITIES

1981: January – An unauthorized release of approximately 50 gallons of gasoline was documented at the subject site. Kleinfelder & Associates installed groundwater monitoring wells B-1 through B-6 at the subject site. No soil or groundwater samples were collected for laboratory analysis. However, groundwater samples were tested for volatile hydrocarbons using a combustible gas meter. Hydrocarbon vapor concentrations were detected at concentrations ranging from 100 to greater than 1,000 parts per million (ppm). A 10,000-gallon gasoline UST was removed from service after a hole was discovered near the tank fill pipe.

1982: The USTs were removed and replaced. A gauge stick hole was discovered in the bottom of one of the gasoline USTs. Confirmatory soil samples were not collected. New gasoline USTs were installed along with a diesel and two waste oil USTs. UST backfill wells A-1 and A-2 were installed during UST replacement activities. Monitoring well B-2 was properly destroyed to accommodate the replacement of the USTs.

1991: September – Approximately 1,400 gallons of diesel were accidentally pumped into tank backfill well A-1 during UST testing activities. Product removal was initiated immediately. Approximately 1,600 gallons of separate-phase hydrocarbon (SPH) were removed from well A-1. An additional 346 gallons of SPH were removed during a SPH recovery program conducted by Pacific Environmental Group Inc. from September 1991 through July 1992. Laboratory analysis of the free product suggested that waste-oil must also have been inadvertently disposed of into well A-1. In addition to the SPH recovery program, a quarterly groundwater monitoring program was initiated.

1993: March — Groundwater Technology Inc. (GTI) installed one additional on-site groundwater monitoring well (B-8) and two off-site wells (B-7 and B-9) to delineate the lateral extent of hydrocarbon impacted soil and groundwater at the site. Groundwater was encountered in well borings B-7 through B-9 at 5 feet bgs. Soil samples collected from the well borings at 5 feet bgs did not contain TPHg, Total Petroleum Hydrocarbons as diesel (TPHd), or benzene, toluene, ethylbenzene, and xylenes (BTEX).

1994: April — Product lines and two waste oil USTs were removed. Soil samples were collected from beneath the two waste oil USTs and the product lines by Touchstone Development. Approximately 700 cubic yards of soil was excavated and removed from waste oil USTs pits and from the product line trenches. Monitoring wells A-2, B-3, and B-4 were properly destroyed during UST removal activities.

1995: March — GR installed four additional monitoring wells (B-10 through B-13) to assess the extent of hydrocarbons in the subsurface.

2000: October — GR prepared and submitted a Site Conceptual Model (SCM). The SCM presented summaries of fieldwork to date, description of hydrogeological conditions, contaminant distributions over time and space, current and potential receptors, and recommendations for future fieldwork (GR Report no. 345280.02-1, *Site Conceptual Model Report*, dated October 24, 2001).

2001: May — GR advanced eleven hand auger soil borings SB-1 through SB-11 in Webster Street and on-site. Soil and grab groundwater samples were collected were collected from the borings. A well survey was also conducted (Report no. DG90290C.4C02, *Limited Subsurface Investigation Report*, dated September 7, 2001).

Discussion

Boring logs from the previous environmental investigations indicate that native soil beneath the site consists primarily of fine sand and silty sand. Groundwater is first encountered at depths ranging from 2 to 8 feet bgs. Residual petroleum hydrocarbon impacted native soil beneath the site is limited to the vicinity of the dispenser islands and the USTs. Historical soil analytical data are presented in Table 1. Petroleum hydrocarbon impacted groundwater has not been delineated to the north.

Groundwater monitoring and sampling has been conducted quarterly since September 1991. During the latest monitoring and sampling event on August 29, 2002, MtBE was reported in the site wells at concentrations ranging from 38 ppb (B-10) to 96,000 ppb (B-11). Total Petroleum Hydrocarbons as gasoline (TPHg) were reported in site wells at concentrations ranging from 120 ppb (B-10) to 1,700 ppb (B-12). Total Petroluem Hydrocarbons as diesel (TPHd) were reported in site wells at concentrations ranging from 490 ppb (B-6) to 13,000 ppb (A-1).

Benzene was reported in wells A-1, B-1, B-5, B-11, and B-12 at concentrations of 4.1, 7.3, 5.2, 5.4 and 5.6 ppb, respectively. Depth to water during this monitoring event ranged from 4.78 to 6.63 feet below top of casing, and groundwater flow was to the north at a gradient of approximately 0.06, which is consistent with historical data.

FIELD ACTIVITIES

To further define the lateral extent of petroleum hydrocarbons in the soil and groundwater at the site, GR installed two groundwater monitoring. To confirm the anomalous TPHg concentration of 910,000 ppb detected in grab groundwater sample SB-2 that was collected on May 15, 2001 [Delta Report no. DG90290C.4C02, *Limited Subsurface Investigation Report*, dated September 7, 2001], GR advanced one soil boring near soil boring SB-2 and collected a representative groundwater sample. Fieldwork was performed in accordance with GR Field Methods and Procedures (Appendix A) and GR Site Safety Plan dated August 14, 2002.. Underground Service Alert was notified at least 48 hours prior to beginning site activities. The wells and soil boring were installed by Gregg Drilling and Testing Inc. (C57 #485165) under permit Nos. W02-0784 through W02-0786 issued by ACPWA, permit No. EX02-0089 issued by the City of Alameda, and permit No. 0402-6SV-0941 issued by Caltrans (Appendix B).

Monitoring Well Installation

Groundwater monitoring wells B-14 and B-15 were installed at the subject site on August 26, 2002. The well borings were drilled to a depth of 18 feet below ground surface (bgs) using a limited access drill rig equipped with 8-inch-diameter hollow-stem augers. A GR geologist and- observed the drilling activities. In addition, Ms. Eva Chu of ACHCSA-EHD witnessed a portion of 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.

Groundwater monitoring wells B-14 and B-15 were constructed using 2-inch diameter Schedule 40 polyvinyl chloride (PVC) casing with 0.010-inch machine-slotted well screen. The wells are screened from 4 to 18 feet bgs. The annular space around the screens in each well is packed with Lonestar #2/12 graded sand to 1 foot above each screen. 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. Copies of the Well Completion Reports are also included in Appendix C.

Well Monitoring, Development and Sampling

The wells were developed and sampled on August 29, 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. Well B-15 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 Intregrated Wastestream Management Inc. (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.

Soil Boring Installation

Soil boring SB-12 was installed at the subject site on August 26, 2002. The soil boring was advanced to a depth of 10 feet bgs instead of the proposed 14 feet bgs as per direction by Ms. Chu. Because of this change in the total depth of the soil boring, the GR field geologist decided to use a 3.5-inch diameter hand auger to advance the boring. Soil samples were collected from the soil boring, using a slide hammer, at five-feet and ten-feet for description and preparation of a log, and for possible chemical analysis. Following completion of the boring, a ten-foot section of 2-inch diameter Schedule 40 PVC well casing with a machine slotted 0.010-inch well screen was placed in the boring to be used as a temporary well. The temporary well was surged using a stainless steel bailer. Following surging, a Teflon bailer was used to purge the temporary well so a representative groundwater sample could be collected. The temporary well dewatered after approximately one-half gallon was withdrawal from it. The temporary well was allow to recharge prior to collecting a groundwater sample. Following collection of the groundwater sample, the boring was backfilled with neat cement to 0.5 foot bgs and completed to surface with concrete. The boring log for SB-12 is included in Appendix C. Location of soil boring SB-12 is shown on Figure 2.

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.

RESULTS OF THE SUBSURFACE INVESTIGATION

Soil encountered during this investigation consisted of poorly graded sand and poorly graded sand with silt. Poorly graded sand was encountered in well boring B-14 from beneath surface concrete to approximately 3 feet bgs. Below the poorly graded sand, a poorly graded sand with silt was encountered to the total depth explored of 18 feet bgs. Poorly graded sand was encountered in well boring B-15 to the total depth explored of 18 feet bgs. Poorly graded sand was encountered in soil boring SB-12 to the total depth explored of 10 feet bgs. Groundwater was encountered at approximately 6 feet bgs in the 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 August 29, 2002, shallow groundwater beneath the site appears to flow in a northerly direction at a gradient of 0.008 to 0.09 (Figure 3).

CHEMICAL ANALYTICAL RESULTS

A total of four soil samples from the borings, one composite soil sample from the stockpiled soil cuttings, and three 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 TPHg, TPHd, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and MtBE by Methods 8015/8260B, and for oil and grease by Standard Method 5520 E & F and EPA Method 418.1. The stockpiled soil 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, TPHd, oil and grease, or BTEX were not detected in any of the soil samples analyzed from borings B-14, B-15 and SB-12. Soil samples collected from well borings B-14 and SB-12 contained MtBE at concentrations ranging from 0.038 (B14-16.0) to 0.22 (B14-6.0) ppm.

Groundwater Analytical Results

TPHg, TPHd, oil and grease, BTEX, or MtBE were non-detect in the groundwater samples collected from well B-15 and boring SB-12. TPHd and MtBE were reported in the groundwater sample from well B-14 at concentrations of 930 and 1,400 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 1.5 cubic yards of soil cuttings were removed from the site by IWM and taken to Republic Services Vasco Road Landfill in Livermore, California on September 12, 2002, for disposal. A Certificate of Disposal is included in Appendix B.

DISCUSSION

Dissolved petroleum hydrocarbons were not detected in the groundwater sample collected from soil boring SB-12. The sample was collected to confirm whether TPHg concentration detected in grab groundwater sample SB-2 (collected 5/15/01) was accurate. Based upon this result, it appears that the TPHg concentration of 910,000 ppb previously detected in soil boring SB-2 is an anomalous result and is most likely a laboratory reporting error.

MtBE was reported in groundwater sample collected from well B-14. Petroleum hydrocarbon impacted shallow groundwater remains undefined to the north.

Upgradient well B-6 contains an elevated concentration of MtBE compared to nearest wells in the downgradient direction. The 76 service station located south and upgradient of the subject site may be a second source of hydrocarbons beneath the southern portion of the Chevron site that contributed to the MtBE concentrations in well B-6.

The results of this investigation suggest that further assessment work to the north is necessary, but GR recommends that at least two additional quarters of groundwater monitoring and sampling data be collected to establish hydrocarbon concentration trends before proposing additional assessment work at this site. In addition, GR recommends conducting a review of ACHSCA-EHD's files to determine whether the 76 service station is a potential secondary source of hydrocarbons beneath the southern portion of the subject site.

Table 1
Analytical Chemical Data
ice Station No. 9-0290
Webster Street
eda California

)	E (ppm)	X (ppm)	MtBE (ppm)	Cadmium (ppm)	Chromium (ppm)	Nickel (ppm)	Lead (ppm)	Zinc (ppm)
3	0.041	0.14	NA	ND	18	10	16	48
5	0.69	3.5	NA	ND	21	ND	16	14
	ND	ND	NA	ND	22	ND	20	17
	10	31	NA	NA	NA	NA	NA	NA
	22	130	NA	NA	NA	NA	NA	NA
	55	260	NA	NA	NA	NA	NA	NA
	0.59	0.91	NA	NA	NA	NA	NA	NA
	6.2	5.3	NA	ND	35	27	ND	350
5	<0.005	<0.015	NA	NA	NA	NA	NA	NA
5	<0.005	<0.015	NA	NA	NA	NA	NA	NA
5	<0.005	<0.015	NA	NA	NA	NA	NA	NA
)	0.78	0.78	<0.50	NA	NA	NA	NA	NA
	39	150	17	NA	NA	NA	NA	NA
)	2.1	6.4	<2.5	NA	NA	NA	NA	NA
)	2.9	6.6	8.2	NA	NA	NA	NA	NA
50	<0.0050	<0.0050	<0.025	NA	NA	NA	NA	NA
8	0.035	0.11	<0.50	NA	NA	NA	NA	NA
2	0.0075	0.015	0.084	NA	NA	NA	NA	NA
0	0.13	0.31	<1.0	NA	NA	NA	NA	NA
50	<0.0050	<0.0050	<0.050	NA	NA	NA	NA	NA
50	<0.0050	<0.0050	0.12	NA	NA	NA	NA	NA

Table 2
Summary of Depth to Groundwater
Chevron Service Station No. 9-0290
1802 Webster Street
Alameda, California

Well ID	Date	TOC (ft)	DTW (ft)	FPP thickness (ft)	Groundwater Elevation (ft)
A-1	8/29/02	11.56	5.70	0.00	5.86
B-1	8/29/02	12.12	6.18	0.00	5.94
B-5	9/29/02	10.18	4.98	0.00	5.20
B-6	8/29/02	11.97	5.68	0.00	6.29
B-7	8/29/02	10.54	4.78	0.00	5.76
B-10	8/29/02	11.42	6.63	0.00	4.79
B-11	8/29/02	11.98	5.54	0.00	6.44
B-12	8/29/02	11.16	5.49	0.00	5.67
B-13	8/29/02	11.17	5.35	0.00	5.82
B-14	8/29/02	9.54[1]	4.42	0.00	5.12
B-15	8/29/02	9.43[1]	4.18	0.00	5.25

Explanations
ft = feet
FPP = Free Phase Product
TOC = Top of Casing
DTW = Depth to Water

[1] TOC surveyed relative to brass disk in a monument well at the mid return of the northwest corner of Webster St. and Buena Vista Ave. (elevation 11.09 ft) by Virgil Chavez Land Surveying (PLS 6323) on September 26, 2002.

Table 3
Soil Chemical Analytical Results
Chevron Service Station No. 9-0290
1802 Webster Street
Alameda, California

Sample ID	Sample Depth (feet)	Sample Date	TPHg (ppm)	TPHd (ppm)	Oil and Grease (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)	MtBE (ppm)	Lead (ppm)
Boring B-14											
B14-6.0	6.0	8/26/02	<1.0	<10	<230	<0.0010	<0.0010	<0.0010	<0.0010	0.22	NA
B14-16.0	16.0	8/26/02	<1.0	<10	<230	<0.0010	<0.0010	<0.0010	<0.0010	0.038	NA
Boring B-14											
B15-6.0	6.0	8/26/02	<1.0	<10	<230	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NA
B15-16.0	16.0	8/26/02	<1.0	<10	<230	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NA
Boring SB-15											
SB12-5.0	5.0	8/26/02	<1.0	<10	<230	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NA
SB12-10.0	10.0	8/26/02	<1.0	<10	<230	<0.0010	<0.0010	<0.0010	<0.0010	0.045	NA
Drill Cuttings Stockpile											
SP1(A-D)	--	8/26/02	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.015	<0.050	8.4

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
TPHd = Total Petroleum Hydrocarbons as diesel

Analytical Laboratory:
Lancaster Laboratories (ELAP# 2116)

Analytical Methods:
TPHg and TPHd by EPA Method 8015M
BTEX and MtBE by EPA Method 8260
Oil and Grease by Standard Method 5520 D & E
Lead by EPA Method 6010B

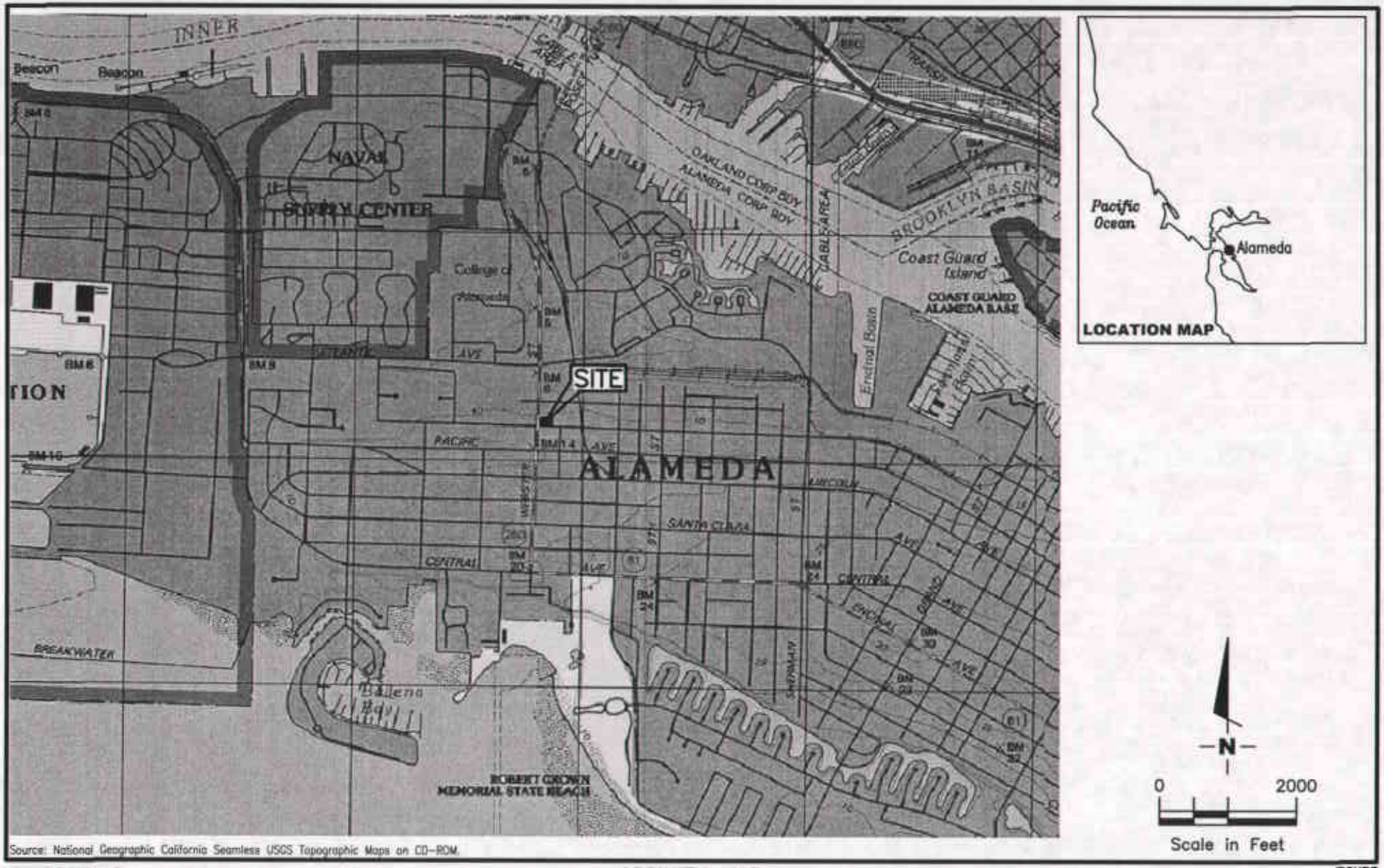
Table 4
Groundwater Chemical Analytical Results
Chevron Service Station No. 9-0290
1802 Webster Street
Alameda, California

Sample ID	Sample Date	TPHg (ppb)	TPHd (ppb)	Oil and Grease (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)
SB-12	8/26/02	<50	<50	<260	<0.50	<0.50	<0.50	<1.5	<0.5
B-14	8/29/02	<50	930	NA	<0.50	<0.50	<0.50	<1.5	1,400
B-15	8/29/02	<50	<130	NA	<0.50	<0.50	<0.50	<1.5	<2.5

Explanations
NA = Not Analyzed
ppb = parts per billion
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total Xylenes
MtBE = Methyl tert-Butyl Ether
TPHg = Total Petroleum Hydrocarbons as gasoline
TPHd = Total Petroleum Hydrocarbons as diesel

Analytical Laboratory:
Lancaster Laboratories (ELAP #2116)

Analytical Methods:
TPHg and TPHd by EPA Method 8015M
BTEX and MtBE by EPA Method 8260
Oil and Grease by EPA Method 418.1



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

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VICINITY MAP
Chevron Service Station No. 9-0290
1802 Webster Street
Alameda, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
345280		6/01	

FILE NAME: P:\ENVRO\CHEVRON\9-0290\VIC-9-0290.DWG | Layout Tab: Vicinity 6-01

FIGURE 2

EXTENDED SITE PLAN
Chevron Service Station No. 9-0290
1802 Webster Street
Alameda, California

REVISED DATE

Parking Lot
KFC Restaurant
Freds' Wrenchhouse
Better Buy Liquer Store
Parking Lot
Auto Repair Shop
Commercial Building
Parking Lot
Burger King Restaurant
WEBSTER STREET
B-7
B-15
B-13
B-12
B-11
B-5
B-3
B-2
B-4
B-14
Pump Islands
Jack In-The-Box Restaurant
Carl's Junior Restaurant
B-6
A-1
Underground Storage Tanks
Former Waste Oil Tank
SB12
B-1
B-10
SB1
SB2
SB3
76 Service Station Building
Waste Oil Tank
B-8
Station Building
BUENA VISTA AVENUE
EAGLE STREET
Residential
Residential Buildings
Apartment Complex Parking Lot
B-9
Residential Buildings
SB4
SB5
SB6
SB7
SB8
SB9
SB10
SB11

EXPLANATION

- Groundwater monitoring well
- UST Pit backfill well
- Abandoned groundwater monitoring well
- Soil boring
- No boring due to auger refusal
- Storm drain
- Fire Hydrant
- Power pole
- Manhole
- Flow direction
- 8"ø Pipe diameter
- (~8') Approximate pipe depth

UNDERGROUND UTILITIES

- S — Sanitary sewer
- SD — Storm drain
- W — Water
- G — Natural gas
- E — Electric
- T — Telephone

N

0 40
Scale in Feet

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

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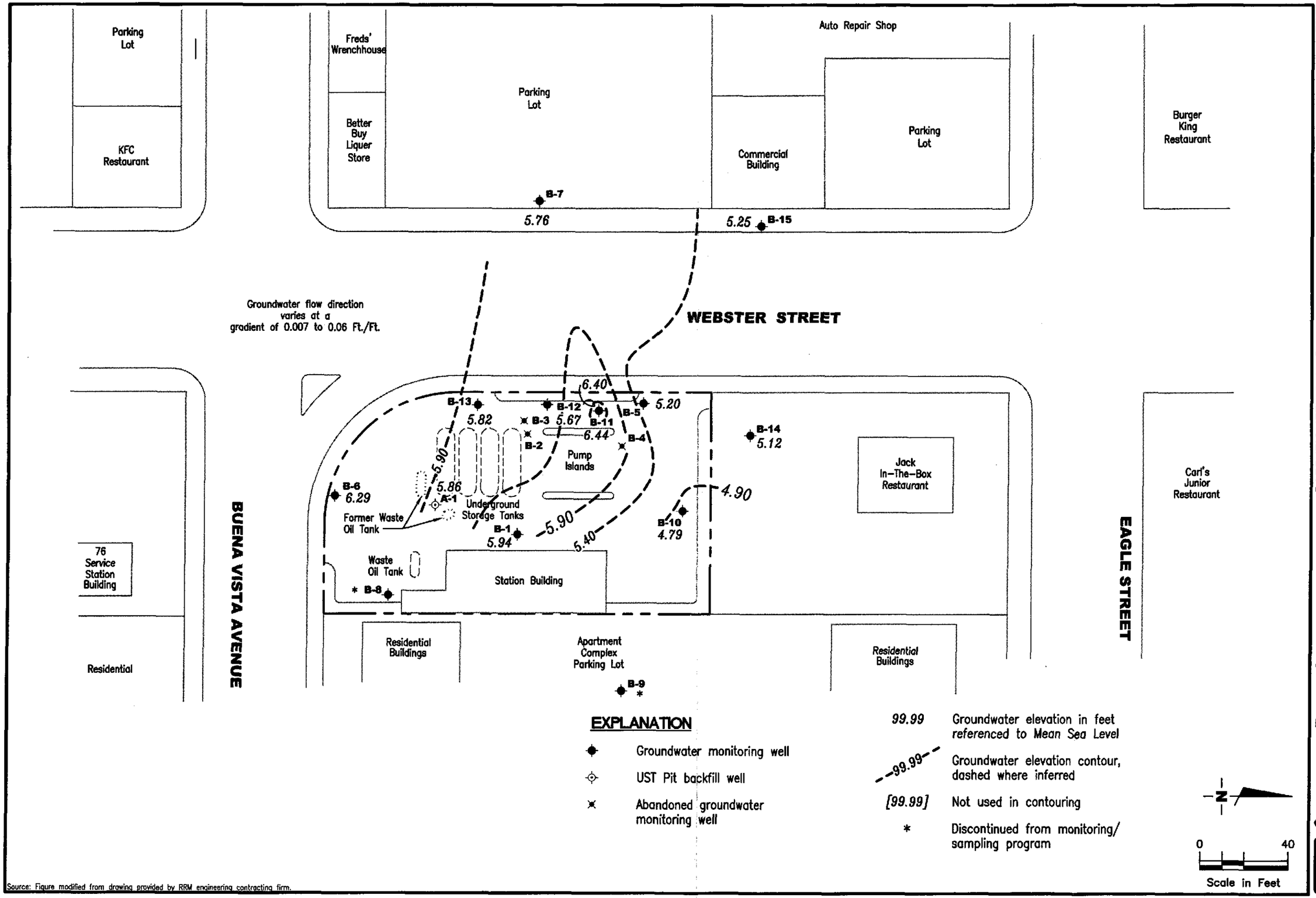
PROJECT NUMBER
DG90290C.4C02

REVIEWED BY

DATE
6/01

FILE NAME: P:\ENVIRO\CHEVRON\9-0290\A01-9-0290.DWG | Layout Tab: Well Install 10-02



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

FIGURE 3

POTENTIOMETRIC MAP
Chevron Service Station No. 9-0290
1802 Webster Street
Alameda, California

DATE August 29, 2002
REVISED DATE

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Dublin, CA 94568
(925) 551-7555

PROJECT NUMBER DG90290C.4C02
REVIEWED BY

FILE NAME: P:\ENVIRO\CHEVRON\9-0290\A01-9-0290.DWG | Layout Tab: Plot3 10-02

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

Soil 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. Soil samples are collected from the soil boring with a split-barrel sampling device fitted with 2-inch-diameter, clean brass tube 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 2488-84) and the Munsell Soil Color Chart.

After removal from the sampling device, soil samples for chemical analysis are covered on both ends with teflon sheeting or aluminum foil, capped, labeled, and place in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. 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 head-space 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. The PID probe is inserted into the headspace inside the tube through a hole in the plastic cap. Head-space screening results are recorded on the boring log. Head-space 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 exploratory soil 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). 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 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. Stockpile samples are composed of four discrete soil samples, each collected from an arbitrary location on the stockpile. The four discrete samples are then composited in the laboratory prior to analysis.

Each discrete stockpile sample is collected by removing the upper 3 to 6 inches of soil, and them driving the stainless steel or brass sample tube into the stockpiled material with a hand, mallet, or drive sampler. The sample tubes are then covered on both ends with Teflon sheeting or aluminum foil, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Stockpiled soils are covered with plastic sheeting after completion of sampling.

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 1902 Webster Street, Alameda, CA (Chevron Service Station No. 9-0291)

CLIENT
Name Chevron Products Company
Address P.O. Box 6004 Phone (925) 824-8898
City San Ramon Zip 94583

APPLICANT
Name Gettler-Ryan Inc
Fax (916) 631-1317
Address 3180 Gold Canal Dr Ste 110 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 and Testing
DRILLER'S LICENSE NO. C-57 485165

WELL PROJECTS
Drill Hole Diameter ____ in. Maximum
Casing Diameter ____ in. Depth ____ ft.
Surface Seal Depth ____ ft. Owner's Well Number ____

GEOTECHNICAL PROJECTS
Number of Borings 4 Maximum
Hole Diameter 8 in. Depth 14 ft.

ESTIMATED STARTING DATE 8-12-02
ESTIMATED COMPLETION DATE 8-13-02

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

APPLICANT'S SIGNATURE Geoffrey P. Kiesow DATE 7/23/02

FOR OFFICE USE

PERMIT NUMBER W02-0986
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. Logs only
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 [signature] DATE 7-31-02

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 1902 Webster Street, Alameda, CA (Chevron Service Station No. 9-0290)

CLIENT
Name Chevron Products Company
Address P.O. Box 6004 Phone (925) 842-8898
City San Ramon Zip 94568

APPLICANT
Name Gettler-Ryan Inc
Fax (916) 631-1317
Address 3140 Gold Camp Dr. Ste 200 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 Cascade Drilling and Testing
DRILLER'S LICENSE NO. 485165

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 18 ft.
Surface Seal Depth 2.5 ft. Owner's Well Number B-14

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

ESTIMATED STARTING DATE 8-12-02
ESTIMATED COMPLETION DATE 8-13-02

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

APPLICANT'S SIGNATURE Geoffrey D. Risse DATE 7/23/02
PLEASE PRINT NAME Geoffrey D. Risse

Rev.5-13-00

FOR OFFICE USE
PERMIT NUMBER W02-0784
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 7/31/02

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 1902 Webster Street
Alameda, CA
(Chevron service Station No. 9-0298)

CLIENT
Name Chevron Products Company
Address P.O. Box 6004 Phone (92-51824-8896
City San Ramon Zip 94569

APPLICANT
Name Gettler-Ryan INC
Fax (916)631-1317
Address 3140 Gold Camp Dr Ste 170 Phone (916) 631-1200
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 and Testing
DRILLER'S LICENSE NO. 485165

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum Depth 18 ft.
Casing Diameter 2 in. Owner's Well Number B-15
Surface Seal Depth 2.5 ft.

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

ESTIMATED STARTING DATE 8-12-02
ESTIMATED COMPLETION DATE 8-15-02

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

APPLICANT'S SIGNATURE [signature] DATE 7/23/02

FOR OFFICE USE

PERMIT NUMBER WR2-00785
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 [signature] DATE 7-31-02

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

ENCROACHMENT PERMIT

TR-0120

Permit No.	0402-6SV-0491
Dist/Co/Rte/PM	04-Ala-260-0.49
Date	May 6, 2002
Fee Paid	$160.00
Deposit	$80.00
Performance Bond Amount (1)	$2,000.00
Payment Bond Amount (2)	
Bond Company	Traveler Casualty and Surety Company of America
Bond Number (1)	103312819-0239
Bond Number (2)	

In compliance with (*Check one*):

☒ Your application of February 21, 2002

☐ Utility Notice No. _____ of _____

☐ Agreement No. _____ of _____

☐ R/W Contract No. _____ of _____

TO: CHEVRON PRODUCTS COMPANY
C/O Delta Engineering Consultants
3140 Gold Camp Drive, Suite 170
Rancho Cordova, CA 95670
Attn: Geoffrey D. Risse
Phone: (916) 631-1300 x12

, **PERMITTEE**

And subject to the following, **PERMISSION IS HEREBY GRANTED** to:

Install one underground water monitoring well on sidewalk area of State Highway 04-Ala-260, Post Mile 0.49, at west side of Webster Street, in the City of Alameda.

A minimum of one week prior to start work under this permit, notice shall be given to, and approval of construction details, operations, public safety, and traffic control shall be obtained from State Representative Ali Taheripour, 600 Lewelling Blvd., San Leandro, 94579, 510-614 5951, weekdays, between 7:30 AM and 4:00 PM.

Immediately following completion of the work permitted herein, the permittee shall fill out and mail the Notice of completion attached to this permit.

All personnel shall wear hard hats and lime green reflective vests, shirts, or jackets as appropriate .

The following attachments are also included as part of this permit (*Check applicable*):

☒ Yes	☐ No	General Provisions
☐ Yes	☒ No	Utility Maintenance Provisions
☐ Yes	☒ No	Special Previsions
☒ Yes	☐ No	A Cal-OSHA permit required prior to beginning work: # _____

In addition to fee, the permittee will be billed actual costs for:

☐ Yes	☒ No	Review
☒ Yes	☐ No	Inspection
☒ Yes	---------	Field Work

(If any Caltrans effort expended)

☐ Yes ☒ No The information in the environmental documentation has been reviewed and considered prior to approval of this permit.

This permit is void unless the work is completed before December 31, 2003

This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized.
No project work shall be commenced until all other necessary permits and environmental clearances have been obtained.

APPROVED:

RANDELL H. IWASAKI, Acting District Director

BY:

S. S. NOZZARI, District Permit Engineer

The location of the monitoring wells shall not be within the traveled way portion of the highway. Their location shall be reviewed and approved by the State's representative before starting the work.

Traffic control is authorized only between 9:00 A.M. and 3:00 P.M., Monday through Friday, holidays excluded.

Before any work is begun which will interrupt the normal flow of public traffic, approval shall be obtained from State's representative, and shoulder closures will be as shown on the attached copy of Standard Plan Sheet T-10 .

This permit does not authorize the closure of any traffic lane or ramp. The attached freeway traffic control plan shall be used for shoulder closures only.

Certain details of work authorized hereby are shown on permittee's plan submitted with request for permit.

No excavation shall be left open overnight without written permission from the Caltrans representative or unless otherwise specified herein.

Drainage of treated or untreated effluent into the State drainage system is not permitted.

Upon completion of observation and testing, the well shall be abandoned in compliance with the requirements the Department of Water Resources publication "California Well Standards"- Bulletin 74 –90 latest edition.

If an accident or other incident (related to or not related to the permitted activity) occurs within, or close to the permitted activity, the permittee shall immediately stop work and remove traffic controls from the highway unless public health, welfare and safety is endangered by unfinished work. Only traffic control to protect open excavations may remain in place. After free traffic flow is restored, work in accordance with the conditions of the permit may be returned.

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT GENERAL PROVISIONS
TR-0045 (REV. 8/98)

1. **AUTHORITY:** The Department's authority to issue encroachment permits is provided under, Div. 1, Chpt. 3, Art. 1, Sect. 660 to 734 of the Streets and Highways Code.

2. **REVOCATION:** Encroachment permits are revocable on five days notice unless otherwise stated on the permit and except as provided by law for public corporations, franchise holders, and utilities. These General Provisions and the Encroachment Permit Utility Provisions are subject to modification or abrogation at any time. Permittees' joint use agreements, franchise rights, reserved rights or any other agreements for operating purposes in State highway right of way are exceptions to this revocation.

3. **DENIAL FOR NONPAYMENT OF FEES:** Failure to pay permit fees when due can result in rejection of future applications and denial of permits.

4. **ASSIGNMENT:** No party other than the permittee or permittee's authorized agent is allowed to work under this permit.

5. **ACCEPTANCE OF PROVISIONS:** Permittee understands and agrees to accept these General Provisions and all attachments to this permit, for any work to be performed under this permit.

6. **BEGINNING OF WORK:** When traffic is not impacted (see Number 35), the permittee shall notify the Department's representative, two (2) days before the intent to start permitted work. Permittee shall notify the Department's Representative if the work is to be interrupted for a period of five (5) days or more, unless otherwise agreed upon. All work shall be performed on weekdays during regular work hours, excluding holidays, unless otherwise specified in this permit.

7. **STANDARDS OF CONSTRUCTION:** All work performed within highway right of way shall conform to recognized construction standards and current Department Standard Specifications, Department Standard Plans High and Low Risk Facility Specifications, and Utility Special Provisions. Where reference is made to "Contractor and Engineer," these are amended to be read as "Permittee and Department representative."

8. **PLAN CHANGES:** Changes to plans, specifications, and permit provisions are not allowed without prior approval from the State representative.

9. **INSPECTION AND APPROVAL:** All work is subject to monitoring and inspection. Upon completion of work, permittee shall request a final inspection for acceptance and approval by the Department. The local agency permittee shall not give final construction approval to its contractor until final acceptance and approval by the Department is obtained.

10. **PERMIT AT WORKSITE:** Permittee shall keep the permit package or a copy thereof, at the work site and show it upon request to any Department representative or law enforcement officer. If the permit package is not kept and made available at the work site, the work shall be suspended.

11. **CONFLICTING ENCROACHMENTS:** Permittee shall yield start of work to ongoing, prior authorized, work adjacent to or within the limits of the project site. When existing encroachments conflict with new work, the permittee shall bear all cost for rearrangements, (e.g., relocation, alteration, removal, etc.).

12. **PERMITS FROM OTHER AGENCIES:** This permit is invalidated if the permittee has not obtained all permits necessary and required by law, from the Public Utilities Commission of the State of California (PUC), California Occupational Safety and Health Administration (Cal-OSHA), or any other public agency having jurisdiction.

13. **PEDESTRIAN AND BICYCLIST SAFETY:** A safe minimum passageway of 1.21 meter (4') shall be maintained through the work area at existing pedestrian or bicycle facilities . At no time shall pedestrians be diverted onto a portion of the street used for vehicular traffic. At locations where safe alternate passageways cannot be provided, appropriate signs and barricades shall be installed at the limits of construction and in advance of the limits of construction at the nearest crosswalk or intersection to detour pedestrians to facilities across the street.

14. **PUBLIC TRAFFIC CONTROL:** As required by law, the permittee shall provide traffic control protection warning signs, lights, safety devices, etc., and take all other measures necessary for traveling public's safety. Day and night time lane closures shall comply with the Manuals of Traffic Controls, Standard Plans, and Standard Specifications for traffic control systems. These General Provisions are not intended to impose upon the permittee, by third parties, any duty or standard of care, greater than or different from, as required by law.

15. **MINIMUM INTERFERENCE WITH TRAFFIC:** Permittee shall plan and conduct work so as to create the least possible inconvenience to the traveling public; traffic shall not be unreasonably delayed. On conventional highways, permittee shall place properly attired flagger(s) to stop or warn the traveling public in compliance with the Manual of Traffic Controls and Instructions to Flaggers Pamphlet.

16. **STORAGE OF EQUIPMENT AND MATERIALS:** Equipment and material storage in State right of way shall comply with Standard Specifications, Standard Plans, and Special Provisions. Whenever the permittee places an obstacle within 3.63 m (12') feet of the traveled way, the permittee shall place temporary railing (Type K).

17. **CARE OF DRAINAGE:** Permittee shall provide alternate drainage for any work interfering with an existing drainage facility in compliance with the Standard Specifications, Standard Plans and/or as directed by the Department's representative.

18. **RESTORATION AND REPAIRS IN RIGHT OF WAY:** Permittee is responsible for restoration and repair of State highway right of way resulting from permitted work (State Streets and Highways Code, Sections 670 et. seq.).

19. **RIGHT OF WAY CLEAN UP:** Upon completion of work, permittee shall remove and dispose of all scraps, brush, timber, materials, etc. off the right of way. The aesthetics of the highway shall be as it was before work started.

20. **COST OF WORK:** Unless stated in the permit, or a separate written agreement, the permittee shall bear all costs incurred for work within the State right of way and waives all claims for indemnification or contribution from the State.

21. **ACTUAL COST BILLING:** When specified in the permit, the Department will bill the permittee actual costs at the currently set hourly rate for encroachment permits.

22 **AS-BUILT PLANS:** When required, permittee shall submit one (1) set of as-built plans in compliance with Department's requirements. Plans shall be submitted within thirty (30) days after completion and approval of work.

As-Built plans or accompanying correspondence shall not include disclaimer statements of any kind. Such statements shall constitute non-compliance with these provisions. Failure to provide complete and signed As-Built plans shall be cause for bond or deposit retention by the Department.

23. **PERMITS FOR RECORD PURPOSES ONLY:** When work in the right of way is within an area under a Joint Use Agreement (JUA) or a Consent to Common Use Agreement (CCUA), a fee exempt permit is issued to the permittee for the purpose of providing a notice and record of work. The Permittee's prior rights shall be preserved without the intention of creating new or different rights or obligations. "Notice and Record Purposes Only" shall be stamped across the face of the permit.

24. **BONDING:** The permittee shall file bond(s), in advance, in the amount set by the Department. Failure to maintain bond(s) in full force and effect will result in the Department stopping of all work and revoking permit(s). Bonds are not required of public corporations or privately owned utilities, unless permittee failed to comply with the provision and conditions under a prior permit. The surety company is responsible for any latent defects as provided in California Code of Civil Procedures, Section 337.15. Local agency permittee shall comply with requirements established as follows: In recognition that project construction work done on State property will not be directly funded and paid by State, for the purpose of protecting stop notice claimants and the interests of State relative to successful project completion, the local agency permittee agrees to require the construction contractor furnish both a payment and performance bond in the local agency's name with both bonds complying with the requirements set forth in Section 3-1.02 of State's current Standard Specifications before performing any project construction work. The local agency permittee shall defend, indemnify, and hold harmless the State, its officers and employees from all project construction related claims by contractors and all stop notice or mechanic's lien claimants. The local agency also agrees to remedy, in a timely manner and to State's satisfaction, any latent defects occurring as a result of the project construction work.

25. **FUTURE MOVING OF INSTALLATIONS:** Permittee understands and agrees to rearrange a permitted installation upon request by the Department, for State construction, reconstruction, or maintenance

BUILDING SERVICES
CITY OF ALAMEDA

City of Alameda
2263 Santa Clara Avenue, Room 190
Alameda, CA 94501
(510) 748-4530

JUN 11 2002

Submit in Duplicate

RIGHT-OF-WAY PERMIT APPLICATION

_____ SERVICE NUMBER DATE _____ 19___

Application is hereby made to occupy or perform work in the public right-of-way on the west side of
webster Ave/St sidewalk in 85 feet south
Of Eagle Street
House No. 1802 WEBSTER ST Owner
For the purpose of installation of one 2" groundwater Monitoring well to 20'
Name of Applicant Getter-Ryan INC. Address 3140 Gold Camp Dr ste170 ~~Rancho Cordova, CA 9560~~ City/State Rancho Cordova, CA 95670
Contractor's License No. C-57 485165 City Business License No. Phone Number (916) 631-1300

INDICATE LOCATION BELOW OR ATTACH SEPARATE SHEET SHOWING LOCATION

PLEASE NOTE THE FOLLOWING:

1. Urban runoff program requires that no contaminants, including dirt, enter the storm drain system. Contractor is required to protect inlets. ***Failure to comply is subject to $200/day fine.***
2. 48 hour advance notice is required for inspection. Contact Engineering Division, Construction Inspection office at 749-5840. Required inspections: Trenching, backfill, concrete, traffic/pedestrian detours, urban runoff, final inspection. ***Failure to obtain inspection prior to work may result in rejection of said work.***
3. All striping, painted graphics and pavement markers damaged or destroyed by street excavation work must be restored by the permittee.
4. All construction within the Public Right-of-Way must have barricades with flashers for night time protection.
5. All work involved is to be done in accordance with standard City of Alameda specifications and City of Alameda practices, all to the satisfaction of the City Engineer. Standard details are attached. Inspection charges shall be paid to the City monthly.
6. Processing time for routine permits is 5 days. Permits requiring extensive research may require up to 15 days.
7. ***FAILURE TO OBTAIN INSPECTIONS PRIOR TO COMPLETION OF WORK IS SUBJECT TO ADDITIONAL INSPECTION COSTS AT A RATE OF $32.70 PER HOUR.***

Acceptance of this permit constitutes acceptance of the conditions included.

G. Ryan Date 2/8/02
APPLICANT SIGNATURE

JOB SITE COPY

SPECIAL CONDITIONS

- ☐ NO OPEN TRENCH CUTTING
- ☐ STATE PERMIT REQUIRED
- ☐ ADDITIONAL SETS OF PLANS AND SPECIFICATIONS TO THE ENGINEERING DIVISION PRIOR TO CONSTRUCTION
  # ___ OF SETS
- ☐ OTHER _____

RECEIVED DATE 6/11/2002 SIGNED D. Sugg PERMIT NO. EX02-0089
APPROVED DATE 6-12-02 SIGNED
ISSUED DATE SIGNED

Applicant Notice - Right of Way Permits

In the past two years, the City has experienced a dramatic increase in the number of companies seeking permits to install telecommunications-related facilities in the rights-of-way, resulting in a proliferation of street cuts and the installation of associated equipment, which, among other things, have had an adverse impact on the life and quality of the rights-of-way within the City.

As a result, the City is currently re-evaluating its current right-of-way management policies, and is in the process of preparing a revised, comprehensive ordinance that will establish and/or reinforce policies and procedures designed to enable the City to more effectively manage and control its rights-of-ways.

The City does not wish to hold-up new permit applications during this process, thus, the City has decided not to issue a blanket moratorium on new street-cut permits at this time. However, effective immediately, each new street cut permit issued shall be contain the following condition:

> **By accepting this permit, the holder warrants and agrees that it shall comply with each and every provision of the right-of-way management ordinance that the City is currently preparing. The permit-holder further acknowledges and agrees that compliance with the provisions of the future right-of-way management ordinance is a condition to the continued effectiveness of the permit. Nothing herein is intended to prevent the permit-holder from claiming that a particular provision of the ordinance is prohibited by applicable law, provided that by accepting this permit, the permit-holder agrees that in the event that it raises such a claim, it will nevertheless comply with the subject ordinance provision unless and until permit-holder has been released from the obligation to comply by the City or by a court of competent jurisdiction.**

This condition shall be attached to and become a part of each new street-cut permit issued by the City, with the exception of permits for maintenance and/or repair requested by our existing franchised cable providers and the other utilities maintaining or repairing their existing facilities.

I have read the above and acknowledge the condition to the Permit No. EX02-0089

Company: Getter-Ryan INC

Authorized Agent:

Geoffrey P. Risse — Print Name

Geoffrey P. Risse — Signature

2/8/02 — Date

EX02-0089

INDEMNITY AND HOLD HARMLESS AGREEMENT

Gettler-Ryan Inc

whose address is 3140 Gold Camp Dr. Ste 170, Rancho Cordova, CA 95670 (hereinafter "Indemnitor") in consideration of INSTALLATION OF ONE 2" GROUNDWATER MONITORING WELL

agrees to the following terms and condition:

Indemnitor shall defend, indemnify, and hold harmless City, its City Council, Boards and Commissions, officers and employees from and against any and all loss, damages, liability, claims, suits, costs and expenses whatsoever, including reasonable attorneys' fees, regardless of the merit of outcome of any such claim or suit arising from or in any manner connected to the services or work conducted or performed pursuant to this Agreement.

Indemnitor shall defend, indemnify, and hold harmless City, its City Council, Boards and Commissions, officers and employees from and against any and all loss, damages, liability, claims, suits, costs and expenses whatsoever, including reasonable attorneys' fees, accruing or resulting to any and all persons, firms or corporations furnishing or supplying work, services, materials, equipment or supplies arising from or in any manner connected to the services or work conducted or performed pursuant to this Agreement.

By the signature below, Indemnitor agrees that it has read this Indemnity and Hold harmless Agreement and accepts and agrees to each and every term and condition herein.

INDEMNITOR:

BY: Geoffrey P. Rice

DATED: 2/8/02

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 Station #9-0290
Address:	6001 Bollinger Canyon Road	Address:	1802 Webster Street
	San Ramon, CA 94583		Alameda, CA
Contact:	Bob Cochran	Facility Contact:	Geofferey Risse, Gettler-Ryan
Phone:	925-842-9500	Phone:	916-631-1300

IWM Job #:	92453-SS
Description of Waste:	1.5 CY of Non-Hazardous Soil & Concrete
Removal Date:	12 September 2002
Ticket #:	SS59

Transporter Information

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

Disposal Facility Information

Name:	Republic Services VRL
Address:	4001 North Vasco Road
	Livermore, CA 94550
Phone:	925-477-0491

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 — 12 September 2002

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

FILE NAME: P:\PTYPES\BLOG-KEY.DWG | Layout Tab: Blog Key

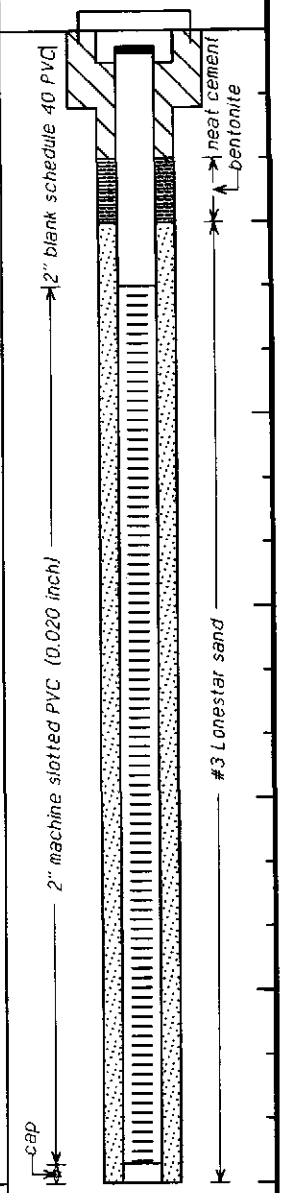
Gettler-Ryan, Inc.

Log of Boring B-14

PROJECT: *Chevron Service Station No. 9-0290*	LOCATION: *1802 Webster Street, Alameda, CA.*
PROJECT NO. : *DG90290H.4C01*	CASING ELEVATION:
DATE STARTED: *08/26/02*	WL (ft. bgs): *6.0* DATE: *08/26/02* TIME: *09:40*
DATE FINISHED: *08/26/02*	WL (ft. bgs): *5.45* DATE: *08/26/02* TIME: *17:10*
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *18 feet*
DRILLING COMPANY: *Gregg Drilling*	GEOLOGIST: *Geoffrey Risse*

DEPTH (feet)	PID (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
						Concrete – 8 inches thick.
					SP	POORLY GRADED SAND (SP) – brown (7.5YR 4/3), moist; 95% fine to medium sand, 5% clay.
3					SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) – dark brown (7.5YR 3/2), moist; 90% fine to medium sand, 10% silt, roots.
	10	B14-6				Becomes saturated.
6						
9						
	10	B14-11				
12						
15						
	23	B14-16				
	2	B14-17.5				
18						Bottom of boring at 18 feet bgs.
21						

WELL DIAGRAM



JOB NUMBER: *DG90290H.4C01*

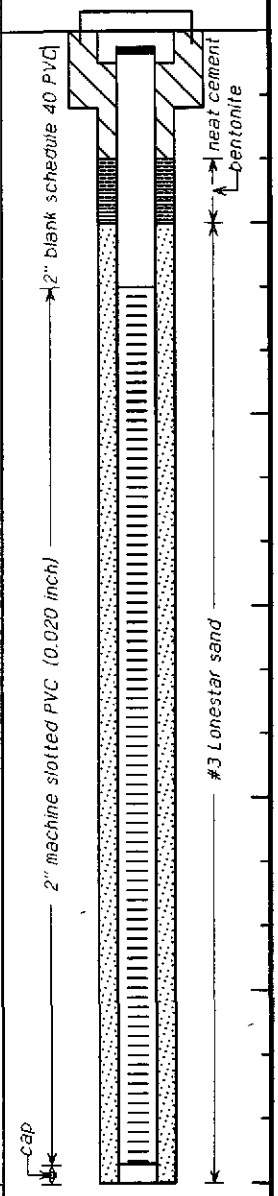
Gettler-Ryan, Inc.

Log of Boring B-15

PROJECT: *Chevron Service Station No. 9-0290*	LOCATION: *1802 Webster Street, Alameda, CA.*
PROJECT NO. : *DG90290H.4C01*	CASING ELEVATION:
DATE STARTED: *08/26/02*	WL (ft. bgs): *6.0* DATE: *08/26/02* TIME: *11:48*
DATE FINISHED: *08/26/02*	WL (ft. bgs): *5.4* DATE: *08/26/02* TIME: *17:20*
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *18 feet*
DRILLING COMPANY: *Gregg Drilling*	GEOLOGIST: *Geoffrey Risse*

DEPTH (feet)	PID (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
						Concrete – 4.5 inches thick.
					SP	POORLY GRADED SAND (SP) – black (7.5YR 2.5/1), moist; 95% fine to medium sand, 5% silt.
3						
						At 4 feet color changes to dark brown (7.5YR 3/2), becomes saturated.
						Becomes 95% medium to coarse sand, 5% silt.
6	10	B15-6				
9						
	0	B15-11				
12						
15						
	300	B15-16				
	10	B15-17.5				
18						Bottom of boring at 18 feet bgs.
21						

WELL DIAGRAM



Gettler-Ryan, Inc.

Log of Boring SB-12

PROJECT: *Chevron Service Station No. 9-0290*	LOCATION: *1802 Webster Street, Alameda, CA.*
PROJECT NO.: *DG90290H.4C01*	SURFACE ELEVATION:
DATE STARTED: *08/26/02*	WL (ft. bgs): *5.0* DATE: *08/26/02* TIME: *15:00*
DATE FINISHED: *08/26/02*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *3 1/2 in. Hand Auger*	TOTAL DEPTH: *10 feet*
DRILLING COMPANY: *Gregg Drilling*	GEOLOGIST: *Geoffrey Risse*

DEPTH (feet)	PID (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
						Concrete – 6.5 inches thick.	Boring backfilled with neat cement to ground surface.
					fill	Gravel (fill).	
3					SP	POORLY GRADED SAND (SP) – dark brown (7.5YR 3/2), moist; 95% fine to medium sand, 5% silt.	
						▽ Becomes saturated.	
6	0	SB-12-5					
9	0	SB-12 SB12-10				Bottom of boring at 10 feet bgs.	Grab groundwater sample SB-12 collected at 10 feet bgs.
12							
15							
18							
21							

JOB NUMBER: *DG90290H.4C01*

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

APPENDIX D

GETTLER-RYAN INC.

GROUNDWATER MONITORING SUMMARY SHEET

CLIENT/
FACILITY: ChevronTexaco #9-0290 JOB #: 385280

ADDRESS: 1802 Webster Street DATE: 8.29.02

CITY: Alameda, CA SAMPLER: FT

Well ID	Total Well Depth	Depth to Water	Product Thickness (ft)	List Item IN Well	Additional Comments
A-1	11.09	5.70	0		24.0
B-1	15.65	6.18			5.0
B-5	17.83	4.98			6.5
B-6	18.12	5.68			6.0
B-7	12.98	4.78			3.0
B-10	16.03	6.63			5.0
B-11	14.03	5.54			4.0
B-12	15.70	5.49			5.0
B-13	13.64	5.35			4.0
B-14	12.67 (14.39)	4.42			14.0 DEVELOPED
B-15	11.44 (14.69)	4.18			6.0 "
					82.5 TOTAL

Comments

WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-0290 Job Number: 385280
Site Address: 1802 Webster Street Event Date: 8.29.02
City: Alameda, CA Sampler: FT

Well ID: B-14 Well Condition: Good
Well Diameter: 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth: 12.67 ft.
Depth to Water: 4.42 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

8.25 xVF .17 = 1.40 x10 (case volume) = Estimated Purge Volume: 14.00 gal.

Purge Equipment: Disposable Bailer ____; Stainless Steel Bailer ✓; Stack Pump ✓; Suction Pump ____; Grundfos ____; Other: ____

Sampling Equipment: Disposable Bailer ✓; Pressure Bailer ____; Discrete Bailer ____; Other: ____

Start Time (purge): 11:54 Weather Conditions: SUNNY
Sample Time/Date: 7:26 / 8.29.02 Water Color: CLOUDY | BRN. Odor: YES
Purging Flow Rate: 1.5 gpm. Sediment Description: SILTY
Did well de-water? NO If yes, Time: ____ Volume: ____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
11:56	1.4	7.09	280	22.8		
11:59	2.8	7.10	273	22.7		
12:02	4.2	7.12	197	22.5		
12:05	5.6	7.13	185	22.4		
12:08	7.0	7.10	138	22.6		
12:11	8.4	7.14	199	22.8		
12:14	9.8	7.12	187	22.7		
12:17	11.2	7.11	182	22.5		
12:20	12.6	7.10	176	22.4		
12:23	14.0	7.09	170	22.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B-14	3 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX + MTBE(8021)
	2 x Ambers	YES	NP	LANCASTER	TPH-D

COMMENTS: *SLOW RECOVERY = Final well depth 14.32'
LOCATED IN "JACK IN THE BOX" PARKING LOT, NEXT TO THE HANDICAPPED PARKING STALL.

Add/Replaced Lock: ✓ Add/Replaced Plug: ____ Size: ____

WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-0290 Job Number: 385280
Site Address: 1802 Webster Street Event Date: 8.29.02
City: Alameda, CA Sampler: FT

Well ID: B-15 Well Condition: GOOD
Well Diameter: 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth: 11.44 ft.
Depth to Water: 4.18 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

7.26 xVF .17 = 1.23 x10 (case volume) = Estimated Purge Volume: 12.34 gal.

Purge Equipment:
- Disposable Bailer
- Stainless Steel Bailer ✓
- Stack Pump ✓
- Suction Pump
- Grundfos
- Other:

Sampling Equipment:
- Disposable Bailer ✓
- Pressure Bailer
- Discrete Bailer
- Other:

Start Time (purge): 11:10 Weather Conditions: SUNNY
Sample Time/Date: 7:07 / 8.29.02 Water Color: CLOUDY | BRN. Odor: NO
Purging Flow Rate: — gpm. Sediment Description: SILTY
Did well de-water? YES If yes, Time: 11:30 Volume: 6.0 gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
11:14	1.2	7.05	192	25.2		
11:18	2.4	7.11	170	21.9		
11:22	3.6	7.10	168	22.9		
11:26	4.8	7.04	165	23.1		
11:30	6.0	7.09	160	22.8		
	12.0					

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B-15	3 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX + MTBE(8021)
	2 x Ambers	YES	NP	LANCASTER	TPH-D

COMMENTS: FINAL WELL DEPTH 14.15 ft. LOCATED IN FRONT OF CAMBODIAN RESTAURANT ON THE SIDE WALK.

Add/Replaced Lock: ✓ Add/Replaced Plug: _____ Size: _____

WELL DE-WATERED UNABLE TO PURGE 10 CALC VOLUMES.

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

October 2, 2002
Project No.: 1104-26A

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

Subject: Monitoring Well Survey
Chevron Service Station No. 9-0290
1802 Webster Street
Alameda, CA

Dear Geoffrey:

This is to confirm that we have proceeded at your request to survey the new ground water monitoring wells located at the above referenced location. The survey was completed on September 26, 2002. The benchmark for this survey was a brass disk in a monument well at the mid return of the northwest corner of Webster St. and Buena Vista Ave. The latitude, longitude and coordinates are for top of casings and are based on the California State Coordinate System, Zone III (NAD83).
Benchmark Elevation = 11.09 feet (NGVD 29).

Latitude	Longitude	Northing	Easting	Elev.	Desc.
				9.96	RIM-B14
37.7778318	-122.2764548	2110560.80	6048283.59	9.54	TOC-B14
				9.78	RIM-B15
37.7778395	-122.2767503	2110565.20	6048198.26	9.43	TOC-B15

LICENSED LAND SURVEYOR
VIRGIL D. CHAVEZ
No. 6323
Exp. 12-31-02
STATE OF CALIFORNIA

Sincerely,

Virgil D. Chavez, PLS 6323

Lancaster Laboratories
Where quality is a science.

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 820575. Samples arrived at the laboratory on Wednesday, August 28, 2002. The PO# for this group is 99011184 and the release number is STREICH.

Client Description		Lancaster Labs Number
SP-1-A-D-S-020826	Composite Soil	3887058

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 3887058

Collected:08/26/2002 13:00 by GDR

Account Number: 10992

Submitted: 08/28/2002 09:10
Reported: 09/09/2002 at 13:31
Discard: 10/10/2002
SP-1-A-D-S-020826 Composite Soil
Facility# 90290 GRRC
1802 Webster St. Alameda T0600100307 NA

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SP1AD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05547	TPH - DRO CA LUFT (Soils)	n.a.	13.	10.	mg/kg	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).					
01655	Lead	7439-92-1	8.4	0.93	mg/kg	1
01726	TPH-GRO - Soils					
01727	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
05547	TPH - DRO CA LUFT (Soils)	CA LUFT Diesel Range Organics	1	09/05/2002 08:45	Tracy A Cole	1
01655	Lead	SW-846 6010B	1	08/30/2002 06:43	Joanne M Gates	1
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	08/29/2002 09:04	Stephanie A Selis	25
02160	BTEX/MTBE	SW-846 8021B	1	08/29/2002 09:04	Stephanie A Selis	25
01150	GC VOA Soil Prep	SW-846 5035	1	08/29/2002 03:07	Stephanie A Selis	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/29/2002 19:45	Annamaria Stipkovits	1
07004	Extraction - DRO (Soils)	TPH by CA LUFT	1	09/03/2002 17:45	Kelly E Brickley	1

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. SW 3887058

Collected:08/26/2002 13:00 by GDR

Account Number: 10992

Submitted: 08/28/2002 09:10
Reported: 09/09/2002 at 13:31
Discard: 10/10/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SP-1-A-D-S-020826 Composite Soil

GRRC

Facility# 90290
1802 Webster St. Alameda T0600100307 NA

SP1AD

Lancaster Laboratories
Where quality is a science.

Quality Control Summary

Client Name: ChevronTexaco
Reported: 09/09/02 at 01:31 PM

Group Number: 820575

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 02239A33B	Sample number(s): 3887058							
TPH-GRO - Soils	N.D.	1.	mg/kg	94		69-112		
Benzene	N.D.	.005	mg/kg	109		93-123		
Toluene	N.D.	.005	mg/kg	109		93-122		
Ethylbenzene	N.D.	.005	mg/kg	111		87-127		
Total Xylenes	N.D.	.015	mg/kg	110		88-120		
MTBE	N.D.	.05	mg/kg	94		80-132		
Batch number: 022415708003	Sample number(s): 3887058							
Lead	N.D.	.94	mg/kg	96		86-109		
Batch number: 022460004A	Sample number(s): 3887058							
TPH - DRO CA LUFT (Soils)	N.D.	10.	mg/kg	108		56-118		

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: 02239A33B	Sample number(s): 3887058								
TPH-GRO - Soils	82	86	42-105	4	30				
Benzene	96	97	62-153	0	30				
Toluene	95	97	66-111	2	30				
Ethylbenzene	107	110	66-131	2	30				
Total Xylenes	98	100	62-120	2	30				
MTBE	145	147	43-186	1	30				
Batch number: 022415708003	Sample number(s): 3887058								
Lead	98	98	75-125	0	20	10.3	8.9	15 (1)	20
Batch number: 022460004A	Sample number(s): 3887058								
TPH - DRO CA LUFT (Soils)	113	105	44-124	6	20				

Surrogate Quality Control

Analysis Name: TPH-GRO - Soils
Batch number: 02239A33B

	Trifluorotoluene-F	Trifluorotoluene-P
3887058	93	103
Blank	93	109
LCS	98	107
MS	94	108
MSD	94	107
Limits:	58-118	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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 10992 Sample #: 388058-59 GIP # 820575 SCR#:

Facility #: 9 90290
Site Address: 1802 Webster St
Chevron PM: Karen Street Lead Consultant:
Consultant/Office: Getter-Ryan Inc
Consultant Prj. Mgr.: Geoffrey D. Risse
Consultant Phone #: (916) 631-1300 Fax #: (916) 631-1317
Sampler: Geoffrey D. Risse
Service Order #: ☐ Non SAR:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water (Potable ☐ NPDES ☐)	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	Lead 7420 ☐ 7421 ☐	TOTAL Pb (6010)
SP1 A	8/26/02	1100			✓				X	X	X				1
SP1 B	↓	↓			✓				X	X	X				1
SP1 C					✓				X	X	X				1
SP1 D					✓				X	X	X				1

Composite 4 into 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
☐ Run ____ oxy s on highest hit
☐ Run ____ oxy s on all hits

Comments / Remarks
Send copy of Analytical Report to Jay DeLeon at IWM Inc
Fax (408) 942-1499
(408) 942-8955 Phone

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

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

Relinquished by:	Date	Time	Received by:	Date	Time
G. Risse	8/26/02	1322			
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:	8/27/02	0910
Temperature Upon Receipt 3.0 C°			Custody Seals Intact? (Yes) No		

3460 Rev. 7/30/01

Lancaster Laboratories
Where quality is a science.

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 820580. Samples arrived at the laboratory on Wednesday, August 28, 2002. The PO# for this group is 99011184 and the release number is STREICH.

Client Description			Lancaster Labs Number
B14-6.0-S-020826	NA	Soil	3887076
B14-16.0-S-020826	NA	Soil	3887077
B15-6.0-S-020826	NA	Soil	3887078
B15-16.0-S-020826	NA	Soil	3887079
SB12-5.0-S-020826	NA	Soil	3887080
SB12-10.0-S-020826	NA	Soil	3887081
SB12-W-020826	NA	Water	3887082

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

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

Respectfully Submitted,

Erik J. Frederiksen
Group Leader

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. SW 3887076

Collected:08/26/2002 09:40 by GDR

Account Number: 10992

Submitted: 08/28/2002 09:10
Reported: 09/11/2002 at 19:44
Discard: 10/12/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

B14-6.0-S-020826 NA Soil
Facility# 90290 GRRC
1802 Wesbster St Alameda T0600100307 B-14

B1460

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.					
02201	TPH-DRO CALUFT(Soils) w/Si Gel	n.a.	N.D.	10.	mg/kg	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).					
02446	TPH (gravimetric)	n.a.	N.D.	230.	mg/kg	1
02304	UST-Unleaded Soils by 8260B					
02016	Methyl t-butyl ether	1634-04-4	0.22	0.0010	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0010	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.0010	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.0010	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.0010	mg/kg	1

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	08/29/2002 09:41	Stephanie A Selis	25
02201	TPH-DRO CALUFT(Soils) w/Si Gel	CA LUFT Diesel Range Organics	1	09/05/2002 09:48	Tracy A Cole	1
02446	TPH (gravimetric)	SM 5520 D&E	1	09/09/2002 09:00	Yolunder Y Bunch	1
02304	UST-Unleaded Soils by 8260B	SW-846 8260B	1	08/29/2002 19:03	Ryan V Nolt	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	08/29/2002 17:20	Ryan V Nolt	n.a.
01150	GC VOA Soil Prep	SW-846 5035	1	08/29/2002 03:08	Stephanie A Selis	n.a.
07004	Extraction - DRO (Soils)	TPH by CA LUFT	1	09/03/2002 17:45	Kelly E Brickley	1

Analysis Report

Lancaster Laboratories
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Lancaster Laboratories Sample No. SW 3887077

Collected:08/26/2002 09:54 by GDR

Account Number: 10992

Submitted: 08/28/2002 09:10
Reported: 09/11/2002 at 19:44
Discard: 10/12/2002
B14-16.0-S-020826 NA Soil
Facility# 90290 GRRC
1802 Wesbster St Alameda T0600100307 B-14

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

B1416

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.					
02201	TPH-DRO CALUFT(Soils) w/Si Gel	n.a.	N.D.	10.	mg/kg	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).					
02446	TPH (gravimetric)	n.a.	N.D.	230.	mg/kg	1
02304	UST-Unleaded Soils by 8260B					
02016	Methyl t-butyl ether	1634-04-4	0.038	0.0010	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0010	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.0010	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.0010	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.0010	mg/kg	1

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	08/29/2002 10:18	Stephanie A Selis	25
02201	TPH-DRO CALUFT(Soils) w/Si Gel	CA LUFT Diesel Range Organics	1	09/05/2002 10:51	Tracy A Cole	1
02446	TPH (gravimetric)	SM 5520 D&E	1	09/09/2002 09:00	Yolunder Y Bunch	1
02304	UST-Unleaded Soils by 8260B	SW-846 8260B	1	08/29/2002 19:36	Ryan V Nolt	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	08/29/2002 17:21	Ryan V Nolt	n.a.
01150	GC VOA Soil Prep	SW-846 5035	1	08/29/2002 03:09	Stephanie A Selis	n.a.
07004	Extraction - DRO (Soils)	TPH by CA LUFT	1	09/03/2002 17:45	Kelly E Brickley	1

Lancaster Laboratories
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Lancaster Laboratories Sample No. SW 3887078

Collected:08/26/2002 11:48 by GDR

Account Number: 10992

Submitted: 08/28/2002 09:10
Reported: 09/11/2002 at 19:44
Discard: 10/12/2002
B15-6.0-S-020826 NA Soil GRRC
Facility# 90290
1802 Wesbster St Alameda T0600100307 B-15

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

B156W

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.					
02201	TPH-DRO CALUFT(Soils) w/Si Gel	n.a.	N.D.	10.	mg/kg	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).					
02446	TPH (gravimetric)	n.a.	N.D.	230.	mg/kg	1
02304	UST-Unleaded Soils by 8260B					
02016	Methyl t-butyl ether	1634-04-4	N.D.	0.0010	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0010	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.0010	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.0010	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.0010	mg/kg	1

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	08/29/2002 10:54	Stephanie A Selis	25
02201	TPH-DRO CALUFT(Soils) w/Si Gel	CA LUFT Diesel Range Organics	1	09/05/2002 11:12	Tracy A Cole	1
02446	TPH (gravimetric)	SM 5520 D&E	1	09/09/2002 09:00	Yolunder Y Bunch	1
02304	UST-Unleaded Soils by 8260B	SW-846 8260B	1	08/29/2002 20:08	Ryan V Nolt	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	08/29/2002 17:23	Ryan V Nolt	n.a.
01150	GC VOA Soil Prep	SW-846 5035	1	08/29/2002 03:10	Stephanie A Selis	n.a.
07004	Extraction - DRO (Soils)	TPH by CA LUFT	1	09/03/2002 17:45	Kelly E Brickley	1

Lancaster Laboratories
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Lancaster Laboratories Sample No. SW 3887079

Collected:08/26/2002 12:11 by GDR

Account Number: 10992

Submitted: 08/28/2002 09:10
Reported: 09/11/2002 at 19:44
Discard: 10/12/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

B15-16.0-S-020826 NA Soil
Facility# 90290 GRRC
1802 Wesbster St Alameda T0600100307 B-15

B1516

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.					
02201	TPH-DRO CALUFT(Soils) w/Si Gel	n.a.	N.D.	10.	mg/kg	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).					
02446	TPH (gravimetric)	n.a.	N.D.	230.	mg/kg	1
02304	UST-Unleaded Soils by 8260B					
02016	Methyl t-butyl ether	1634-04-4	N.D.	0.0010	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0010	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.0010	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.0010	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.0010	mg/kg	1

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	08/29/2002 11:31	Stephanie A Selis	25
02201	TPH-DRO CALUFT(Soils) w/Si Gel	CA LUFT Diesel Range Organics	1	09/05/2002 11:53	Tracy A Cole	1
02446	TPH (gravimetric)	SM 5520 D&E	1	09/09/2002 09:00	Yolunder Y Bunch	1
02304	UST-Unleaded Soils by 8260B	SW-846 8260B	1	08/29/2002 20:39	Ryan V Nolt	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	08/29/2002 17:24	Ryan V Nolt	n.a.
01150	GC VOA Soil Prep	SW-846 5035	1	08/29/2002 03:11	Stephanie A Selis	n.a.
07004	Extraction - DRO (Soils)	TPH by CA LUFT	1	09/03/2002 17:45	Kelly E Brickley	1

Lancaster Laboratories
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Lancaster Laboratories Sample No. SW 3887080

Collected:08/26/2002 15:00 by GDR

Account Number: 10992

Submitted: 08/28/2002 09:10
Reported: 09/11/2002 at 19:44
Discard: 10/12/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB12-5.0-S-020826 NA Soil
Facility# 90290 GRRC
1802 Wesbster St Alameda T0600100307 SB-12

SB125

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.					
02201	TPH-DRO CALUFT(Soils) w/Si Gel	n.a.	N.D.	10.	mg/kg	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).					
02446	TPH (gravimetric)	n.a.	N.D.	230.	mg/kg	1
02304	UST-Unleaded Soils by 8260B					
02016	Methyl t-butyl ether	1634-04-4	N.D.	0.0010	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0010	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.0010	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.0010	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.0010	mg/kg	1

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	08/29/2002 12:08	Stephanie A Selis	25
02201	TPH-DRO CALUFT(Soils) w/Si Gel	CA LUFT Diesel Range Organics	1	09/05/2002 12:14	Tracy A Cole	1
02446	TPH (gravimetric)	SM 5520 D&E	1	09/09/2002 09:00	Yolunder Y Bunch	1
02304	UST-Unleaded Soils by 8260B	SW-846 8260B	1	08/29/2002 21:12	Ryan V Nolt	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	08/29/2002 17:25	Ryan V Nolt	n.a.
01150	GC VOA Soil Prep	SW-846 5035	1	08/29/2002 03:12	Stephanie A Selis	n.a.
07004	Extraction - DRO (Soils)	TPH by CA LUFT	1	09/03/2002 17:45	Kelly E Brickley	1

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. SW 3887081

Collected:08/26/2002 15:10 by GDR

Account Number: 10992

Submitted: 08/28/2002 09:10
Reported: 09/11/2002 at 19:44
Discard: 10/12/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB12-10.0-S-020826 NA Soil
Facility# 90290 GRRC
1802 Wesbster St Alameda T0600100307 SB-12

SB121

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.					
02201	TPH-DRO CALUFT(Soils) w/Si Gel	n.a.	N.D.	10.	mg/kg	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).					
02446	TPH (gravimetric)	n.a.	N.D.	230.	mg/kg	1
02304	UST-Unleaded Soils by 8260B					
02016	Methyl t-butyl ether	1634-04-4	0.045	0.0010	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0010	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.0010	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.0010	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.0010	mg/kg	1

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	08/29/2002 12:44	Stephanie A Selis	25
02201	TPH-DRO CALUFT(Soils) w/Si Gel	CA LUFT Diesel Range Organics	1	09/05/2002 12:52	Tracy A Cole	1
02446	TPH (gravimetric)	SM 5520 D&E	1	09/09/2002 09:00	Yolunder Y Bunch	1
02304	UST-Unleaded Soils by 8260B	SW-846 8260B	1	08/29/2002 21:43	Ryan V Nolt	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	08/29/2002 17:26	Ryan V Nolt	n.a.
01150	GC VOA Soil Prep	SW-846 5035	1	08/29/2002 03:13	Stephanie A Selis	n.a.
07004	Extraction - DRO (Soils)	TPH by CA LUFT	1	09/03/2002 17:45	Kelly E Brickley	1

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3887082

Collected:08/26/2002 15:20 by GDR

Account Number: 10992

Submitted: 08/28/2002 09:10
Reported: 09/11/2002 at 19:44
Discard: 10/12/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB12-W-020826 NA Water GRRC
Facility# 90290
1802 Wesbster St Alameda T0600100307 SB-12

SB12W

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	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. Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
02202	TPH-DRO CALUFT(Water) w/Si Gel	n.a.	N.D.	50.	ug/l	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
00429	Oil & Grease	n.a.	N.D.	260.	ug/l	1
	Please note: USEPA Method 413.2 is not approved by New York State. Sufficient sample volume was not available to perform a MS/MSD for this analysis. Therefore, a LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01594	BTEX + Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/03/2002 21:09	Linda C Pape	1
02202	TPH-DRO CALUFT(Water) w/Si Gel	CA LUFT Diesel Range Organics	1	09/03/2002 19:34	Tracy A Cole	1
00429	Oil & Grease	EPA 413.2	1	09/05/2002 14:58	Yolunder Y Bunch	1
01594	BTEX + Oxygenates by 8260B	SW-846 8260B	1	09/03/2002 06:31	Kenneth L Boley Jr	1

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Lancaster Laboratories Sample No. WW 3887082

Collected:08/26/2002 15:20 by GDR

Account Number: 10992

Submitted: 08/28/2002 09:10
Reported: 09/11/2002 at 19:44
Discard: 10/12/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB12-W-020826 NA Water
Facility# 90290 GRRC
1802 Wesbster St Alameda T0600100307 SB-12

SB12W

01146	GC VOA Water Prep	SW-846 5030B	1	09/03/2002 21:09	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/03/2002 06:31	Kenneth L Boley Jr	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	08/30/2002 09:30	William P Stafford	1

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Quality Control Summary

Client Name: ChevronTexaco
Reported: 09/11/02 at 07:44 PM

Group Number: 820580

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 02239A33B	Sample number(s): 3887076-3887081							
TPH-GRO - Soils	N.D.	1.	mg/kg	94		69-112		
Batch number: 022410019A	Sample number(s): 3887082							
TPH-DRO CALUFT(Water) w/Si Gel	N.D.	50.	ug/l	108	89	54-120	19	20
Batch number: 02242042901A	Sample number(s): 3887082							
Oil & Grease	N.D.	.26	mg/l	79	74	60-106	6	12
Batch number: 02242A16B	Sample number(s): 3887082							
TPH-GRO - Waters	N.D.	50.	ug/l	103	104	74-116	1	30
Batch number: 022460004A	Sample number(s): 3887076-3887081							
TPH-DRO CALUFT(Soils) w/Si Gel	N.D.	10.	mg/kg	108		56-118		
Batch number: 02252244601A	Sample number(s): 3887076-3887081							
TPH (gravimetric)	N.D.	233.	mg/kg	101		89-107		
Batch number: K022402AB	Sample number(s): 3887076-3887081							
Methyl t-butyl ether	N.D.	1.	ug/kg	92		75-135		
Benzene	N.D.	1.	ug/kg	99		85-125		
Toluene	N.D.	1.	ug/kg	97		81-116		
Ethylbenzene	N.D.	1.	ug/kg	96		82-115		
Xylene (Total)	N.D.	1.	ug/kg	100		82-117		
Batch number: N022461AA	Sample number(s): 3887082							
Methyl t-butyl ether	N.D.	.5	ug/l	101		77-127		
Benzene	N.D.	.5	ug/l	109		85-117		
Toluene	N.D.	.5	ug/l	105		85-115		
Ethylbenzene	N.D.	.5	ug/l	104		82-119		
Xylene (Total)	N.D.	.5	ug/l	106		84-120		

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: 02239A33B	Sample number(s): 3887076-3887081								
TPH-GRO - Soils	82	86	42-105	4	30				
Batch number: 02242042901A	Sample number(s): 3887082					N.D.	N.D.	200* (1)	16
Oil & Grease									
Batch number: 022460004A	Sample number(s): 3887076-3887081								
TPH-DRO CALUFT(Soils) w/Si Gel	113	105	44-124	6	20				
Batch number: 02252244601A	Sample number(s): 3887076-3887081								
TPH (gravimetric)	86	89	24-140	3	20	N.D.	N.D.	27* (1)	20
Batch number: K022402AB	Sample number(s): 3887076-3887081								
Methyl t-butyl ether	76	87	52-150	14	30				
Benzene	87	103	52-141	16	30				
Toluene	90	105	41-147	15	30				
Ethylbenzene	85	98	44-142	15	30				
Xylene (Total)	86	100	47-139	15	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: ChevronTexaco
Reported: 09/11/02 at 07:44 PM

Group Number: 820580

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: N022461AA	Sample number(s): 3887082								
Methyl t-butyl ether	82	94	69-134	5	30				
Benzene	113	113	78-134	0	30				
Toluene	108	108	83-127	0	30				
Ethylbenzene	108	108	82-134	0	30				
Xylene (Total)	110	109	82-130	1	30				

Surrogate Quality Control

Analysis Name: TPH-GRO - Soils
Batch number: 02239A33B

	Trifluorotoluene-F
3887076	89
3887077	86
3887078	85
3887079	82
3887080	86
3887081	83
Blank	93
LCS	98
MS	94
MSD	94
Limits:	58-118

Analysis Name: TPH-DRO CALUFT(Water) w/Si Gel
Batch number: 022410019A

	Orthoterphenyl
3887082	146
Blank	129
LCS	108
LCSD	94
Limits:	59-157

Analysis Name: TPH-GRO - Waters
Batch number: 02242A16B

	Trifluorotoluene-F
3887082	99
Blank	100
LCS	114
LCSD	114
Limits:	57-146

Analysis Name: TPH-DRO CALUFT(Soils) w/Si Gel
Batch number: 022460004A

	Orthoterphenyl
3887076	105
3887077	103
3887078	104
3887079	87

*- 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: ChevronTexaco
Reported: 09/11/02 at 07:44 PM

Group Number: 820580

Surrogate Quality Control

3887080	93
3887081	103
Blank	111
LCS	105
MS	96
MSD	103
Limits:	35-143

Analysis Name: UST-Unleaded Soils by 8260B
Batch number: K022402AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3887076	95	87	97	92
3887077	95	89	96	91
3887078	97	92	95	92
3887079	94	87	97	92
3887080	96	88	97	91
3887081	97	90	97	92
Blank	94	95	100	91
LCS	98	94	98	95
MS	97	91	104	88
MSD	101	91	109	84
Limits:	80-120	80-120	81-117	74-121

Analysis Name: BTEX + Oxygenates by 8260B
Batch number: N022461AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3887082	99	94	95	93
Blank	98	95	96	93
LCS	97	95	98	98
MS	97	95	98	99
MSD	98	96	98	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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Global ID# 0600100307

For Lancaster Laboratories use only Grp # 820580
Acct. #: 10992 Sample #: 3887076-82 SCR#:

Facility #: 9-0290
Site Address: 1802 Webster St.
Chevron PM: Karen Streich Lead Consultant:
Consultant/Office: Gettler-Ryan INC
Consultant Prj. Mgr.: Geoffrey D. Risse
Consultant Phone #: (916) 631-1300 Fax #: (916) 631-1317
Sampler: Geoffrey D. Risse
Service Order #: ☐ Non SAR:

Analyses Requested / Preservation Codes

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐ (0/H)	TPH 8015 MOD GRO (0/H)	TPH 8015 MOD DRO ☐ Silica Gel Cleanup (0)	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐	Oil and Grease (5520 E+F)	Oil and Grease (5520 C and F) (H)			
B14-6.0	8/26/02	0940			✓			1	X	X	X				X				
B14-11.0 (Hold)	8/26/02	0949			✓			1	X	X	X				X				
B14-16.0	8/26/02	0954			✓			1	X	X	X				X				
B14-17.5 (Hold)	8/26/02	1003			✓			1	X	X	X				X				
B15-6	8/26/02	1148			✓			1	X	X	X				X				
B15-11 (Hold)	8/26/02	1157			✓			1	X	X	X				X				
B15-16	8/26/02	1211			✓			1	X	X	X				X				
B15-17.5 (Hold)	8/26/02	1216			✓			1	X	X	X				X				
SB12-5	8/26/02	1400			✓			1	X	X	X					X			
SB12-10	8/26/02	1510			✓			1	X	X	X					X			
SB12	8/26/02	1520				✓	Ø	10	X	X	X					X			

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

Comments / Remarks

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

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

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Geoffrey D. Risse	8/27/02	1322	Received by:		
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS (FedEx circled) Other ____			Received by: [signature]	8/28/02	0910
Temperature Upon Receipt 5.0 C°			Custody Seals Intact? (Yes circled) No		

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Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

3460 Rev. 7/30/01

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ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 821068. Samples arrived at the laboratory on Saturday, August 31, 2002. The PO# for this group is 99011184 and the release number is STREICH.

Client Description			Lancaster Labs Number
QA-T-020829	NA	Water	3889472
A-1-W-020829	Grab	Water	3889473
B-1-W-020829	Grab	Water	3889474
B-5-W-020829	Grab	Water	3889475
B-6-W-020829	Grab	Water	3889476
B-7-W-020829	Grab	Water	3889477
B-10-W-020829	Grab	Water	3889478
B-11-W-020829	Grab	Water	3889479
B-12-W-020829	Grab	Water	3889480
B-13-W-020829	Grab	Water	3889481
B-14-W-020829	Grab	Water	3889482
B-15-W-020829	Grab	Water	3889483

1 COPY TO Delta C/O Gettler-Ryan Attn: Deanna L. Harding

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

Respectfully Submitted,

Steven A. Skiles
Sr. Chemist

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Analysis Report

Lancaster Laboratories
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Lancaster Laboratories Sample No. WW 3889472

Collected:08/29/2002 00:00

Account Number: 10905

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:40
Discard: 10/18/2002
QA-T-020829 NA Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 QA

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.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/05/2002 08:36	Martha L Seidel	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/05/2002 08:36	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/05/2002 08:36	Martha L Seidel	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 3889473

Collected:08/29/2002 18:25 by FT

Account Number: 10905

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:40
Discard: 10/18/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

A-1-W-020829 Grab Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 A-1

WSA-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	13,000.	650.	ug/l	25
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	380.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	4.1	0.50	ug/l	1
00777	Toluene	108-88-3	3.3	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	2.1	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	31.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	42.	2.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilutio Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	09/06/2002 18:31	Tracy A Cole	25
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/05/2002 09:12	Martha L Seidel	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/05/2002 09:12	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/05/2002 09:12	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	09/04/2002 09:00	William P Stafford	1

#=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 3889474

Collected:08/29/2002 14:46 by FT

Account Number: 10905

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:40
Discard: 10/18/2002
B-1-W-020829 Grab Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 B-1

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

WSB-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	3,000.	250.	ug/l	10
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	770.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	7.3	0.50	ug/l	1
00777	Toluene	108-88-3	1.1	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	1.5	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	3.1	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	330.	2.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	09/06/2002 17:08	Tracy A Cole	10
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/05/2002 09:48	Martha L Seidel	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/05/2002 09:48	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/05/2002 09:48	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	09/04/2002 09:00	William P Stafford	1

#=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 3889475

Collected:08/29/2002 16:53 by FT

Account Number: 10905

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:41
Discard: 10/18/2002
B-5-W-020829 Grab Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 B-5

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

WSB-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	12,000.	510.	ug/l	20
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D. #	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. Due to dilution of the sample made necessary by the high level of MTBE, normal reporting limits were not attained.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	5.2	1.0	ug/l	5
00777	Toluene	108-88-3	N.D. #	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	N.D. #	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	N.D. #	3.0	ug/l	5
00780	Methyl tert-Butyl Ether	1634-04-4	18,000.	15.	ug/l	50
	Due to dilution of the sample made necessary by the high level of MTBE, normal reporting limits were not attained.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	09/09/2002 17:10	Tracy A Cole	20
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/05/2002 11:34	Martha L Seidel	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/05/2002 10:23	Martha L Seidel	50
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/05/2002 11:34	Martha L Seidel	5

#=Laboratory Method Detection Limit exceeded target detection limit
N.D.=Not detected above the Reporting Limit

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Lancaster Laboratories Sample No. WW 3889475

Collected:08/29/2002 16:53 by FT

Account Number: 10905

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:41
Discard: 10/18/2002
B-5-W-020829 Grab Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 B-5

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

WSB-5

01146	GC VOA Water Prep	SW-846 5030B	1	09/05/2002 10:23	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	09/04/2002 09:00	William P Stafford	1

#=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 3889476

Collected:08/29/2002 17:34 by FT

Account Number: 10905

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:41
Discard: 10/18/2002
B-6-W-020829 Grab Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 B-6

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

WSB-6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	490.	50.	ug/l	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00780	Methyl tert-Butyl Ether	1634-04-4	29,000.	30.	ug/l	100
	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	Dilutio Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	09/05/2002 22:12	Tracy A Cole	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/05/2002 16:11	Martha L Seidel	100
01146	GC VOA Water Prep	SW-846 5030B	1	09/05/2002 16:11	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	09/04/2002 09:00	William P Stafford	1

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not d[illegible]ove the Reporting Limit

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Lancaster Laboratories Sample No. WW 3889477

Collected:08/29/2002 10:17 by FT

Account Number: 10905

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:41
Discard: 10/18/2002
B-7-W-020829 Grab Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 B-7

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

WSB-7

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.					
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	1.8	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/05/2002 16:01	Martha L Seidel	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/05/2002 16:01	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/05/2002 16:01	Martha L Seidel	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 3889478

Collected:08/29/2002 15:50 by FT

Account Number: 10905

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:41
Discard: 10/18/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

B-10-W-020829 Grab Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 B-10

WSB10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	650.	50.	ug/l	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	120.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	38.	2.5	ug/l	1

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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilutio Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	09/05/2002 22:33	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/05/2002 16:36	Martha L Seidel	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/05/2002 16:36	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/05/2002 16:36	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	09/04/2002 09:00	William P Stafford	1

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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 3889479

Collected:08/29/2002 16:17 by FT

Account Number: 10905

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:42
Discard: 10/18/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

B-11-W-020829 Grab Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 B-11

WSB11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	3,500.	260.	ug/l	10
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	1,500.	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.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	5.4	1.0	ug/l	5
00777	Toluene	108-88-3	1.9	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	2.2	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	5.8	3.0	ug/l	5
00780	Methyl tert-Butyl Ether	1634-04-4	96,000.	30.	ug/l	100

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	09/06/2002 20:36	Tracy A Cole	10
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/05/2002 12:10	Martha L Seidel	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/05/2002 10:59	Martha L Seidel	100
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/05/2002 12:10	Martha L Seidel	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/05/2002 10:59	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	09/04/2002 09:00	William P Stafford	1

#=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 3889480

Collected:08/29/2002 15:14 by FT

Account Number: 10905

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:42
Discard: 10/18/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

B-12-W-020829 Grab Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 B-12

WSB12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	1,000.	50.	ug/l	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	1,700.	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.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	5.6	1.0	ug/l	5
00777	Toluene	108-88-3	3.9	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	4.2	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	N.D. #	15.	ug/l	5
00780	Methyl tert-Butyl Ether	1634-04-4	530.	2.5	ug/l	5
	Due to the presence of interferents near their retention time, normal reporting limits were not attained for total xylenes. 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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	09/05/2002 22:53	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/06/2002 03:34	Martha L Seidel	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/06/2002 03:34	Martha L Seidel	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/06/2002 03:34	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	09/04/2002 09:00	William P Stafford	1

#=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 3889481

Collected:08/29/2002 13:46 by FT

Account Number: 10905

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:42
Discard: 10/18/2002
B-13-W-020829 Grab Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 B-13

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

WSB13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	1,600.	50.	ug/l	1

According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).
Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	660.	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. #	2.0	ug/l	1
00777	Toluene	108-88-3	1.1	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	0.82	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	2.2	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	320.	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.

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for benzene. 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

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilutic Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	09/05/2002 23:14	Tracy A Cole	1

#=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 3889481

Collected:08/29/2002 13:46 by FT

Account Number: 10905

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:42
Discard: 10/18/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

B-13-W-020829 Grab Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 B-13

WSB13

01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/06/2002 18:56	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/06/2002 18:56	Anastasia Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/06/2002 18:56	Anastasia Papadoplos	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	09/04/2002 09:00	William P Stafford	1

#=Laboratory Method Detection 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 3889482

Collected:08/29/2002 19:26 by FT

Account Number: 10905

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:42
Discard: 10/18/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

B-14-W-020829 Grab Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 B-14

WSB14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	930.	130.	ug/l	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.					
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	1,400.	3.0	ug/l	10
	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
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	09/06/2002 16:47	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/06/2002 20:01	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/06/2002 20:01	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/06/2002 20:34	Anastasia Papadoplos	10

#=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 3889482

Collected:08/29/2002 19:26 by FT

Account Number: 10905

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:42
Discard: 10/18/2002
B-14-W-020829 Grab Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 B-14

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

WSB14

01146	GC VOA Water Prep	SW-846 5030B	1	09/06/2002 20:01	Anastasia Papadoplos	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	09/04/2002 09:00	William P Stafford	1

#=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 3889483

Collected:08/29/2002 19:07 by FT

Account Number: 10905

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:42
Discard: 10/18/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

B-15-W-020829 Grab Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 B-15

WSB15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D. #	130.	ug/l	1

According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).
Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.
Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

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
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	09/06/2002 00:38	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/06/2002 19:28	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/06/2002 19:28	Anastasia Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/06/2002 19:28	Anastasia Papadoplos	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 3889483

Collected:08/29/2002 19:07 by FT

Account Number: 10905

Submitted: 08/31/2002 09:40
Reported: 09/17/2002 at 08:42
Discard: 10/18/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

B-15-W-020829 Grab Water
Facility# 90290 Job# 385280 GRD
1802 Webster St-Alameda T0600100307 B-15

WSB15

07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	09/04/2002 09:00	William P Stafford	1

#=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: ChevronTexaco
Reported: 09/17/02 at 08:43 AM

Group Number: 821068

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 022460021A	Sample number(s): 3889473-3889476,3889478-3889483							
TPH - DRO CA LUFT (Waters)	N.D.	50.	ug/l	101	103	54-120	1	20
Batch number: 02247A01A	Sample number(s): 3889476							
Methyl tert-Butyl Ether	N.D.	.3	ug/l	97	93	79-127	4	30
Batch number: 02248A51A	Sample number(s): 3889481-3889483							
Benzene	N.D.	.2	ug/l	102	93	80-118	9	30
Toluene	N.D.	.2	ug/l	101	93	82-119	9	30
Ethylbenzene	N.D.	.2	ug/l	99	90	81-119	9	30
Total Xylenes	N.D.	.6	ug/l	102	93	82-120	10	30
Methyl tert-Butyl Ether	N.D.	.3	ug/l	88	84	79-127	4	30
TPH-GRO - Waters	N.D.	50.	ug/l	99	91	74-116	9	30
Batch number: 02248A56A	Sample number(s): 3889472-3889475,3889477-3889479							
Benzene	N.D.	.2	ug/l	97	93	80-118	4	30
Toluene	N.D.	.2	ug/l	99	95	82-119	5	30
Ethylbenzene	N.D.	.2	ug/l	99	95	81-119	5	30
Total Xylenes	N.D.	.6	ug/l	101	96	82-120	4	30
Methyl tert-Butyl Ether	N.D.	.3	ug/l	103	103	79-127	0	30
TPH-GRO - Waters	N.D.	50.	ug/l	101	92	74-116	9	30
Batch number: 02248A56B	Sample number(s): 3889480							
Benzene	N.D.	.2	ug/l	97	93	80-118	4	30
Toluene	N.D.	.2	ug/l	99	95	82-119	5	30
Ethylbenzene	N.D.	.2	ug/l	99	95	81-119	5	30
Total Xylenes	N.D.	.6	ug/l	101	96	82-120	4	30
Methyl tert-Butyl Ether	N.D.	.3	ug/l	103	103	79-127	0	30
TPH-GRO - Waters	N.D.	50.	ug/l	101	92	74-116	9	30

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: 02247A01A	Sample number(s): 3889476								
Methyl tert-Butyl Ether	83		66-140						
Batch number: 02248A51A	Sample number(s): 3889481-3889483								
Benzene	103		83-130						
Toluene	104		87-129						
Ethylbenzene	100		86-133						
Total Xylenes	102		86-132						
Methyl tert-Butyl Ether	89		66-140						
TPH-GRO - Waters	113		74-132						
Batch number: 02248A56A	Sample number(s): 3889472-3889475,3889477-3889479								
Benzene	89	89	83-130	0	30				
Toluene	96	94	87-129	2	30				
Ethylbenzene	102	99	86-133	2	30				
Total Xylenes	101	99	86-132	2	30				
Methyl tert-Butyl Ether	92	95	66-140	4	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.

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

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Where quality is a science.

Quality Control Summary

Client Name: ChevronTexaco
Reported: 09/17/02 at 08:43 AM

Group Number: 821068

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
TPH-GRO - Waters	90	94	74-132	4	30				
Batch number: 02248A56B	Sample number(s): 3889480								
Benzene	89	89	83-130	0	30				
Toluene	96	94	87-129	2	30				
Ethylbenzene	102	99	86-133	2	30				
Total Xylenes	101	99	86-132	2	30				
Methyl tert-Butyl Ether	92	95	66-140	4	30				
TPH-GRO - Waters	90	94	74-132	4	30				

Surrogate Quality Control

Analysis Name: TPH - DRO CA LUFT (Waters)
Batch number: 022460021A

	Orthoterphenyl
3889473	96
3889474	93
3889475	95
3889476	95
3889478	74
3889479	96
3889480	93
3889481	95
3889482	96
3889483	99
Blank	106
LCS	102
LCSD	100
Limits:	59-139

Analysis Name: BTEX, MTBE (8021)
Batch number: 02247A01A

	Trifluorotoluene-P
3889476	98
Blank	99
LCS	99
LCSD	98
MS	95
Limits:	71-130

Analysis Name: TPH-GRO - Waters
Batch number: 02248A51A

	Trifluorotoluene-F	Trifluorotoluene-P
3889481	99	88
3889482	104	91
3889483	103	93

*- 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: ChevronTexaco
Reported: 09/17/02 at 08:43 AM

Group Number: 821068

Surrogate Quality Control

Blank	96	91
LCS	112	94
LCSD	110	93
MS	110	96
Limits:	57-146	71-130

Analysis Name: TPH-GRO - Waters
Batch number: 02248A56A

	Trifluorotoluene-F	Trifluorotoluene-P
3889472	86	94
3889473	87	90
3889474	109	77
3889475	79	92
3889477	83	92
3889478	81	90
3889479	79	87
Blank	88	93
LCS	100	93
LCSD	100	93
MS	94	90
MSD	93	90
Limits:	57-146	71-130

Analysis Name: TPH-GRO - Waters
Batch number: 02248A56B

	Trifluorotoluene-F	Trifluorotoluene-P
3889480	94	79
Blank	80	93
LCS	100	93
LCSD	100	93
MS	94	90
MSD	93	90
Limits:	57-146	71-130

*- 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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083002-009

For Lancaster Laboratories use only
Acct. #: 10905 Sample #: 3889412-83 SCR#:
Group# 821068

Facility #9-0290 Job #385280 Globel ID#T0600100307
Site Address 1802 WEBSTER STREET, ALAMEDA, CA
Chevron PM Karen Streich Lead Consultant: Delta/G-R
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: FRANK TERRINONI
Service Order #: ☐ Non SAR:

Analyses Requested / Preservation Codes: H (BTEX + MTBE), H (TPH 8015 MOD GRO), H (MTBE (8021))

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (☐ Potable ☐ NPDES)	Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8260 ☒ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐	MTBE (8021)					
QA	8-29-02					W		2	X	X										
A-1	↓	1825	X			↓		5	X	X	X									
B-1		1446	X					5	X	X	X									
B-5		1653	X					5	X	X	X									
B-6		1734	X					5			X				X					
B-7		1017	X					3	X	X										
B-10		1550	X					5	X	X	X									
B-11		1617	X					5	X	X	X									
B-12		1514	X					5	X	X	X									
B-13		1346	X					5	X	X	X									
B-14		1926	X					5	X	X	X									
B-15		1907	X					5	X	X	X									

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

Comments / Remarks

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

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

Relinquished by:	Date	Time	Received by:	Date	Time
Frank Terrinoni	8-29-02		D Vargas	8/30	1215
D Vargas	8/21	1215	Andres Amaya	8-30-02	1215
Andres Amaya	8-30-02	1400	Airborne	8-30-02	
Relinquished by Commercial Carrier: UPS FedEx (Other) Airborne			Received by: Dennis [illegible]	8/31/02	0940

Temperature Upon Receipt 3-4 C°
Custody Seals Intact? (Yes) No

3460 Rev. 7/30/01

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