Chevron

**Chevron Products Company**
6001 Bollinger Canyon Rd. Bldg. V
P. O. Box 6004
San Ramon, CA 94583-0904

**Site Assessment & Remediation**
Phone (925) 842-9500
Fax (925) 842-8370

December 19, 2000

4060

Environmental Health Services
Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Re: Chevron Service Station 9-3600
2200 Telegraph Avenue, Oakland, CA

Dear Sir:

Please find attached the *Baseline Evaluation* prepared by Gettler-Ryan, Inc. for the subject site dated November 21, 2000, for the referenced site. This report was prepared for Chevron Products Company in preparation for the possible sale of the property. The evaluation included the performance of 7 soil borings. Soil samples were submitted for analysis from the 7 borings and water samples were collected and submitted from two of the borings.

All borings were performed by hand because of the proximity of the BART tunnel to the site. Boring depths and locations were restricted by BART.

Soil analytical results did not report any detectable concentrations with the exception of low concentrations of lead. Water analytical results did report TPH-gas, benzene, and MTBE concentrations as high as 29,000 ppb, 180 ppb and 730 ppb, respectively.

It is our understanding that the reported sample results do not represent a new release at the site, but rather confirm results previously reported during sampling activities performed in 1986 and 1994. Pending any agency directives, Chevron does not propose to perform additional remedial activities at the site.

If you have any questions regarding this site, please feel free to contact me at (925) 842-8898.

Sincerely,

Thomas K. Bauhs
Project Manager

Attachment

cc: Jim Brownell, Delta Environmental Consultants (w/o attachment)
3164 Gold Camp Drive, Suite 200, Rancho Cordova, CA 95670
File (93600r01.doc)

# GETTLER-RYAN INC.

**BASELINE EVALUATION**

at

Chevron Service Station #9-3600
2200 Telegraph Avenue
Oakland, California

Report No. 346895.01

**Prepared for:**

Mr. Tom Bauhs
Chevron Products Company
P.O. Box 5004
San Ramon, California 94583

**Prepared by:**

Gettler-Ryan Inc.
3164 Gold Camp Drive, Suite 240
Rancho Cordova, California 95670

Tony P. Mikacich
Project Geologist

Stephen J. Carter
Senior Geologist
R.G. 5577

REGISTERED GEOLOGIST
STEPHEN J. CARTER
No. 5577
STATE OF CALIFORNIA

November 21, 2000

## TABLE OF CONTENTS



### TABLES



### FIGURES



### APPENDICES

**BASELINE EVALUATION**

at

Chevron Service Station #9-3600
2200 Telegraph Avenue
Oakland, California

Report No. 346895.01

## INTRODUCTION

At the request of Chevron Products Company (Chevron), Gettler-Ryan Inc. (GR) performed a subsurface investigation of the soil and groundwater beneath the subject site. This report summarizes the procedures and results of the subsurface investigation to establish baseline conditions pending property transfer. The work was not performed at the request of a regulatory agency. The scope of work performed included: obtaining the necessary encroachment permit from Bay Area Rapid Transit (BART); obtaining the necessary soil boring permits from Alameda County Public Works Agency; advancing soil borings and collect soil and grab groundwater samples for chemical analysis; arranging for Chevron's contractor to dispose of the drill cuttings; and preparing this report.

## SITE DESCRIPTION

The site is an active retail gasoline station located on the southeast corner of the intersection of Telegraph Avenue and West Grand Avenue in Oakland, California (Figure 1). The current facilities consist of a kiosk building, five dispenser islands, and three gasoline underground storage tanks (USTs) that share a common pit near the northeastern site boundary. Current site features are shown on Figure 2. A former Exxon service station, currently Valero gasoline station, is located west of the site on the southwest corner of Telegraph Avenue and West Grand Avenue. Additionally, a auto repair facility utilizes the property north of the subject site across West Grand Avenue, and it appears that the property may have been utilized for a retail gasoline station at one time.

## PREVIOUS ENVIRONMENTAL WORK

In October 1986, Blaine Tech Services Inc. of San Jose, California collected and analyzed soil and groundwater samples from a re-excavated backfilled tank pit from which a tank had been previously removed. This former tank was located in the same area that the current USTs are located. Total petroleum hydrocarbons quantified as gasoline (TPHg) were detected at concentrations as high as 44 parts per million (ppm) in soil sample #2 from a depth between 2 and 3 feet below grade surface (bgs). TPHg was detected at a concentration of 4.5 ppm from an additional soil sample also identified as #2 collected from a depth of approximately 13 feet bgs in the former tank pit area. On October 24, 1986 one water sample was collected from the re-excavated backfilled tank pit location. TPHg and benzene were detected in groundwater sample #1 at concentrations of 480,000 parts per billion (ppb) and 10,000 ppb, respectively. Samples collected were

not analyzed for fuel oxygenate compounds by the laboratory. During the station reconstruction around 1986-87 sixteen vapor wells equipped with vapor sensors were installed because Bay Area Regional Transit (BART) tracks run beneath the site in an underground tunnel.

On October 13, 1992, Groundwater Technology, Inc. collected and analyzed one groundwater sample from vadose well (VW-2-1). TPHg and benzene were detected at concentrations of 42,000 parts per billion (ppb) and 3,300 ppb, respectively. Depth to groundwater was 4.43 feet below grade surface (bgs) during the October 13, 1992 sampling event. Groundwater samples collected were not analyzed for fuel oxygenate compounds.

On July 25, 1994 gasoline product lines were removed from the three USTs to the dispenser islands in order to upgrade the equipment. Touchstone Developments of Santa Rosa, California was onsite to observe the removal of product piping and collect soil samples from product line trenches from depths between 4.5 and 5.5 feet bgs during upgrade procedures. TPHg and xylenes were detected at concentrations as high as 3.6 ppm and 1.3 ppm, respectively, in soil sample P-6 from a depth of 5.5 feet bgs. Samples collected were not analyzed for fuel oxygenate compounds.

Based on the available analytical soil data relatively low concentrations of hydrocarbons were detected in soil samples collected from beneath the former product piping at depths up to 5.5 feet bgs. Additionally, soil samples collected from the former UST re-excavation area indicate a decrease in TPHg concentrations with depth. The area of highest hydrocarbon impact detected onsite is in the area of the former USTs. The vertical delineation of hydrocarbon-impacted soil has not been determined onsite. Lateral extent of hydrocarbon-impacted groundwater was not delineated onsite.

## FIELD ACTIVITIES

Field work was performed in accordance with the GR Site Safety Plan #346895.01, dated November 5, 2000. GR Field Methods and Procedures are included in Appendix A. Underground Service Alert (USA) was notified prior to soil boring activities.

### Soil Borings

Eight soil borings were advanced on November 8, 2000, to depths between 4 feet bgs and 16 feet bgs. The borings were drilled under Alameda County Public Works Agency (PWA) permit #WOO-671 (Appendix B). Borings advanced within the BART right-of-way (B-2 through B-6) were performed under BART encroachment permit No. K-014-2-OK. A copy of the BART Encroachment Permit and letter are presented in Appendix B. The soil borings were advanced by Bay Area Exploration Inc. personnel using a 3-inch diameter hand auger. Due to encroachment permit restrictions, none of the borings drilled in the BART right-of-way (borings B-2 through B-6) could be advanced deeper than 10 feet bgs. At BART's request, borings outside of their right-of-way were advanced to depths below 10 feet bgs by hand auger only.

A GR geologist observed the boring activities, described the encountered soil, collected soil samples for possible chemical analysis, and prepared a log of each boring. Soil samples were screened in the field for the presence of volatile organic compounds using a photoionization detector (PID). Screening data were recorded on the boring logs. The borings were abandoned by backfilling with neat cement containing approximately 5% bentonite powder and placed with a tremmie pipe. Boring logs are included in Appendix

B. Location of the soil borings are shown on Figure 2. Soil cuttings generated during drilling activities were placed on and covered with plastic sheeting at the site pending disposal. Approximately 1/2 cubic yard of cuttings were generated. Four soil samples (SP-1 through SP-4) were collected for disposal characterization.

### Soil and Grab Groundwater Sampling

Soil samples were collected for chemical analysis from each boring, excluding boring B-8 where auger refusal was encountered at 4 feet bgs. Soil samples were collected directly from auger returns for all samples from less than 5 feet bgs. Soil samples were collected by pushing a clean 2-inch diameter by 6-inch long brass sleeve into the soil-filled auger. Soil samples collected from depths greater than 5 feet bgs were collected utilizing hand-driven sampling device fitted with a clean brass sleeve. The sampler was advanced into undisturbed native soil at the base of the boring to obtain the sample. Sample handling procedures are discussed in Appendix A.

Grab groundwater samples were collected by advancing the auger into saturated soil. The auger was then removed from the boring to allow groundwater to flow into the borehole. New disposable bailers were utilized to collect grab groundwater samples. Samples were then put into laboratory-supplied 40-ml VOAs that had been prepared with the appropriate preservative by the laboratory. Grab groundwater samples were collected from borings B-1 and B-7. Grab groundwater samples were not collected from borings B-2 through B-6 due to the BART encroachment permit restrictions specifying a maximum depth of the borings within the right-of-way.

## RESULTS OF THE SUBSURFACE INVESTIGATION

Soil encountered during this investigation consisted predominately of silty sand, sandy clay, and poorly graded sand. During drilling, groundwater was encountered in borings B-1 and B-7 at depths of approximate 12 feet below grade surface (bgs) and 16 feet bgs, respectively. Detailed descriptions of the subsurface materials encountered during boring advancement are presented on the boring logs (Appendix C).

## CHEMICAL ANALYTICAL RESULTS

Thirteen soil samples, two grab groundwater samples, and one composite soil sample from the cuttings stockpile were submitted for chemical analysis. Analyses were performed by Kiff Analytical (ELAP #2236) of Davis, California. Copies of the laboratory reports and chain-of-custody forms are included in Appendix C. Soil chemical analytical data are summarized in Table 1. Groundwater monitoring and chemical analytical data are summarized in Table 2.

### Chemical Analytical Procedures

Soil and groundwater samples were analyzed for TPHg, benzene, toluene, ethylbenzene and xylenes (BTEX), and methyl tert-butyl ether (MtBE) by EPA Method 8260. The soil samples were also analyzed for Total Lead by EPA Method 6010. The groundwater samples were also analyzed for methanol, ethanol, 1,2-Dichloroethane (1,2-DCA), 1,2-Dibromoethane (EDB), tert-butanol alcohol (TBA), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), and tert-amyl methyl ether (TAME) by EPA Method 8260. The stockpile soil sample was analyzed for TPHg, BTEX, MtBE and Total Lead.

**Soil Chemical Analytical Results**

TPHg or fuel oxygenates were not detected above the laboratory reporting limits in any of the soil samples analyzed. Xylenes were detected at a concentration of 0.0077 ppm in the composite stockpile sample SP-1, 2, 3, 4. Total lead was detected in soil samples at a concentrations ranging from 3.2 ppm to 32 ppm.

**Groundwater Chemical Analytical Results**

TPHg, BTEX, or fuel oxygenate compounds were not detected above the laboratory reporting limit in the grab groundwater sample from boring B-7. The grab groundwater sample from boring B-1 contained 29,000 parts per billion (ppb) of TPHg, 180 ppb of benzene, 730 ppb of MtBE and 380 ppb of TBA.

**Waste Disposal**

All soil generated during drilling activities were stored on and covered with plastic sheeting at the site pending analytical characterization before disposal to an appropriately facility. GR is in the process of scheduling removal of the stockpile soil.

## CONCLUSIONS

Based upon the data collected during this investigation, hydrocarbon-impacted soil was not encountered in any of the soil borings. Hydrocarbon-impacted soil identified during previous environmental investigations does not appear to be laterally extensive. Groundwater south of the existing UST pit has been impacted by TPHg, benzene, MtBE and TBA. The lateral extent of this impact was not delineated during this investigation.

# TABLE 1 - SOIL CHEMICAL ANALYTICAL DATA
## Chevron Service Station, #9-3600
## 2200 Telegraph Avenue
## Oakland, California

| Boring Number | Sample Date | Sample Depth (feet bgs) | TPHg (ppm) | Pb (ppm) | Benzene (ppm) | Toluene (ppm) | Ethyl-benzene (ppm) | Total Xylenes (ppm) | MtBE (ppm) | TBA (ppm) | DIPE (ppm) | EtBE (ppm) | TAME (ppm) | EDB (ppm) | 1,2-DCA (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B-1** | | | | | | | | | | | | | | | |
| B-1-6' | 11/08/00 | 6.0 | <1.0 | 32 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | ---- | ---- | ---- | ---- | ---- | ---- |
| B-1-10' | 11/08/00 | 10.0 | <1.0 | 10 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | ---- | ---- | ---- | ---- | ---- | ---- |
| **B-2** | | | | | | | | | | | | | | | |
| B-2-6' | 11/08/00 | 6.0 | <1.0 | 9.6 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | ---- | ---- | ---- | ---- | ---- | ---- |
| B-2-10' | 11/08/00 | 10.0 | <1.0 | 6.2 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | ---- | ---- | ---- | ---- | ---- | ---- |
| **B-3** | | | | | | | | | | | | | | | |
| B-3-5' | 11/08/00 | 5.0 | <1.0 | 27 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | ---- | ---- | ---- | ---- | ---- | ---- |
| **B-4** | | | | | | | | | | | | | | | |
| B-4-5' | 11/08/00 | 5.0 | <1.0 | 26 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | ---- | ---- | ---- | ---- | ---- | ---- |
| B-4-10' | 11/08/00 | 10.0 | <1.0 | 27 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | ---- | ---- | ---- | ---- | ---- | ---- |
| **B-5** | | | | | | | | | | | | | | | |
| B-5-5' | 11/08/00 | 5.0 | <1.0 | 17.0 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | ---- | ---- | ---- | ---- | ---- | ---- |
| B-5-10' | 11/08/00 | 10.0 | <1.0 | 8.9 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | ---- | ---- | ---- | ---- | ---- | ---- |
| **B-6** | | | | | | | | | | | | | | | |
| B-6-5' | 11/08/00 | 5.0 | <1.0 | 27 | <0.005 | <0.005 | <0.005 | <0.00500 | <0.005 | ---- | ---- | ---- | ---- | ---- | ---- |
| B-6-10' | 11/08/00 | 10.0 | <1.0 | 3.6 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | ---- | ---- | ---- | ---- | ---- | ---- |
| **B-7** | | | | | | | | | | | | | | | |
| B-7-5' | 11/08/00 | 5.0 | <1.0 | 6.5 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | ---- | ---- | ---- | ---- | ---- | ---- |
| B-7-10' | 11/08/00 | 10.0 | <1.0 | 6.8 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | ---- | ---- | ---- | ---- | ---- | ---- |
| **Stockpile Samples** | | | | | | | | | | | | | | | |
| SP(1-4)[1] | 11/08/00 | ---- | <1.0 | 11.0 | <0.005 | <0.005 | <0.005 | 0.0077 | <0.005 | ---- | ---- | ---- | ---- | ---- | ---- |

| Boring Number | Sample Date | Sample Depth (feet bgs) | TPHg (ppm) | Pb (ppm) | Benzene (ppm) | Toluene (ppm) | Ethyl-benzene (ppm) | Total Xylenes (ppm) | MtBE (ppm) | TBA (ppm) | DIPE (ppm) | EtBE (ppm) | TAME (ppm) | EDB (ppm) | 1,2-DCA (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Explanation:
TPHg = Total Petroleum Hydrocarbons as gasoline
TPHd = Total Petroleum Hydrocarbons as diesel
BTEX = benzene, toluene, ethyl-benzene, total xylenes
MtBE = methyl tertiary-butyl ether
TBA = tertiary-butyl alcohol
DIPE = di-isopropyl ether
EtBE = ethyl tertiary-butyl ether
TAME = tertiary-amyl methyl ether
EDB = ethylene dibromide
DCA = dichloroethane
feet bgs = feet below ground surface
(ppm) = parts per million
---- = not applicable
Pb = total lead

Kiff Analytical (#2236)

Analytical Methods
TPHg/TPHd/BTEX: DHS LUFT
Oxygenates: EPA Method 8260A
Total Lead by EPA Method 6010

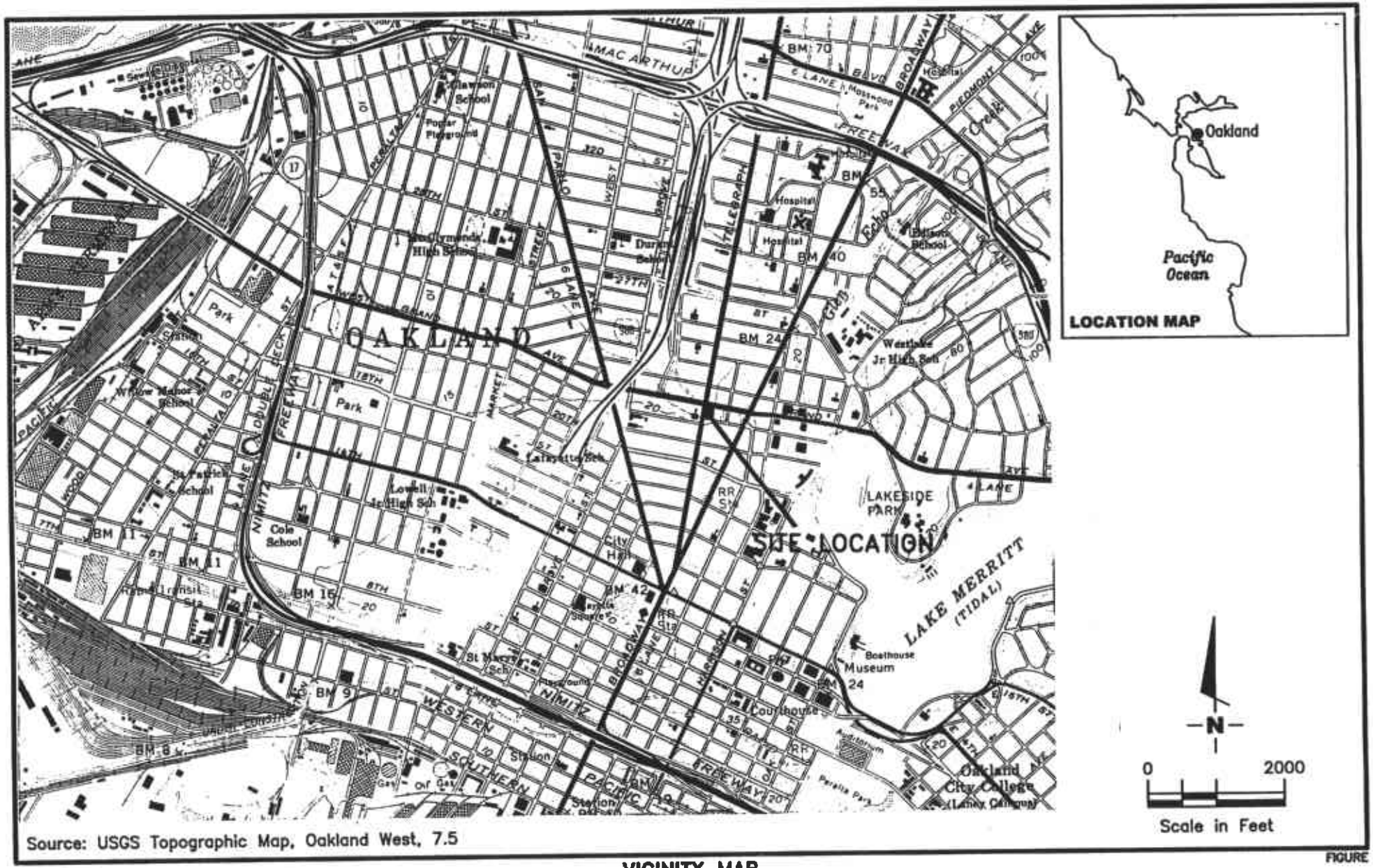
# TABLE 2 - GROUNDWATER CHEMICAL ANALYTICAL DATA
## Chevron Service Station #9-3600
## 2200 Telegraph Avenue
## Oakland, California

| Boring Number | Sample Date | Depth to Water (ft.) | TPHg (ppb) | Ethanol (ppb) | ethano (ppb) | Benzene (ppb) | Toluene (ppb) | Ethyl-benzene (ppb) | Total Xylenes (ppb) | MtBE* (ppb) | TBA (ppb) | DIPE (ppb) | EtBE (ppb) | TAME (ppb) | EDB/ 1,2-DCA (ppb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B-1** | | | | | | | | | | | | | | | |
| B-1-11/08/00(W) | 11/08/00 | 12.50 | 29,000 | <200 | <2,000 | 180 | <20 | 2,200 | 1,100 | 730 | 380 | <20 | <20 | <20 | <20/<20 |
| **B-7** | | | | | | | | | | | | | | | |
| B-7-11/08/00(W) | 11/08/00 | 15.00 | <50 | <5.0 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | <0.50 | <0.5/<0.5 |

**Explanation:**
TOC = top of casing
TPHg = total petroleum hydrocarbons as gasoline (includes MtBE)
TPHd = total petroleum hydrocarbons as diesel
BTEX = benzene, toluene, ethylbenzene, total xylenes
MtBE = methyl tertiary-butyl ether
TBA = tertiary-butyl alcohol
DIPE = di-isopropyl ether
EtBE = ethyl tertiary-butyl ether
TAME = tertiary-amyl methyl ether
DCA = dichloroethane
(ppb) = parts per billion
NA = not applicable
ND = analytes not detected above laboratory reporting limits
ft = feet

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

**Analytical Methods**
TPHg/TPHd/BTEX: DHS LUFT
Oxygenates: EPA Method 8260A
* = EPA Method 8020/EPA Method 8260




Source: USGS Topographic Map, Oakland West, 7.5

FIGURE 1

**Gettler - Ryan Inc.**
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

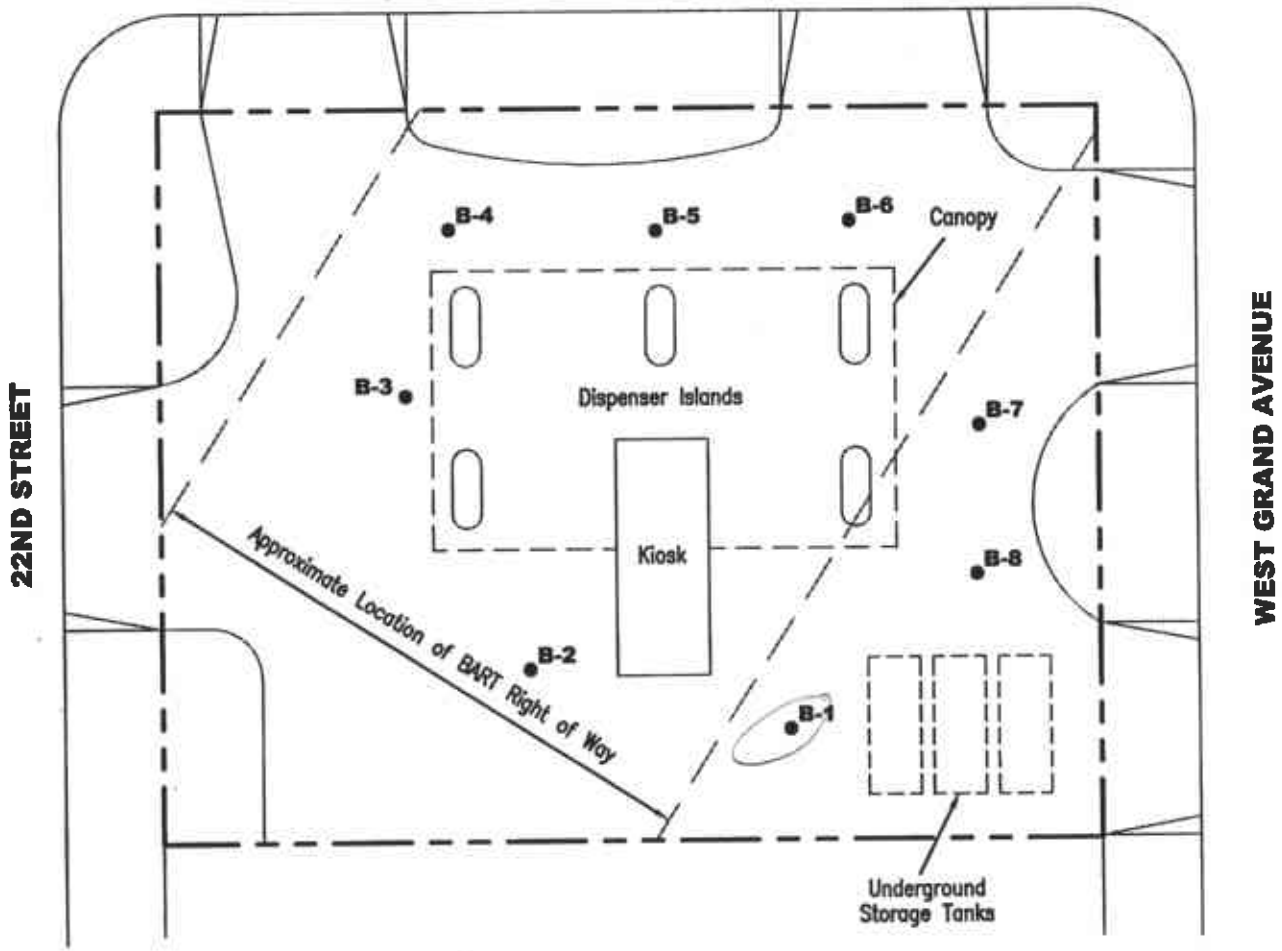
**VICINITY MAP**
Chevron Service Station No. 9-3600
2200 Telegraph Avenue
Oakland, California

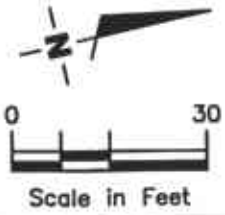
JOB NUMBER 346895
REVIEWED BY
DATE 11/00
REVISED DATE

FILE NAME: P:\ENVIRO\CHEVRON\9-3600\VIC-9-3600.DWG | Layout Tab: CA

## EXPLANATION

● Soil boring




Source: Figure modified from drawing provided by Touchstone Developments Environmental Management.

FIGURE 2

**SITE PLAN**
Chevron Service Station No. 9-3600
2200 Telegraph Avenue
Oakland, California


**Gettler - Ryan Inc.**
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555


PROJECT NUMBER 346895
REVIEWED BY
DATE 11/00
REVISED DATE

FILE NAME: P:\ENVIRO\CHEVRON\9-3600\A00-9-3600.DWG | Layout Tab: Boring Rpt 11-00

# GETTLER-RYAN INC.

# FIELD METHODS AND PROCEDURES

## Site Safety Plan

Fieldwork performed by Gettler-Ryan Inc. (G-R) is conducted in accordance with G-R's Health and Safety Plan (revised January 16, 1995) and the Site Safety Plan. G-R personnel and subcontractors who perform work at the site are briefed on the contents of these plans prior to initiating site work. The G-R geologist or engineer at the site when the work is performed acts as the Site Safety Officer. G-R 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 G-R 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 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. Samples are selected for chemical analysis based on:

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

## Field Screening of Soil Samples

A PID is used to perform headspace analysis in the field for the presence of organic vapors from the soil sample. A small volume of sample (20-30 $cm^3$) is placed in a Ziplock®-type plastic bag with headspace. After allowing the sample to warm for approximately 10 minutes, the PID sample tube is inserted into the headspace above the sample and a measurement taken. PID screening results are recorded on the boring log as reconnaissance data. G-R 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 that generally extends from the total well depth to a point above the groundwater. An appropriately sized sorted sand is placed in the annular adjacent to the entire screened interval. A bentonite 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. After the wells have been developed, groundwater samples are collected. Well development and sampling is performed by Gettler-Ryan Inc. of Dublin, California.

## Storing and Sampling of Drill Cuttings

Drill cuttings are stockpiled on plastic sheeting and samples are collected and analyzed 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.

# ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6554
FAX (510)782-1939

## DRILLING PERMIT APPLICATION

**FOR APPLICANT TO COMPLETE**

LOCATION OF PROJECT 2200 TELEGRAPH AVE., OAKLAND, CA.

CLIENT
Name CHEVRON Products Company
Address P.O. Box 5004 Phone
City SAN RAMON Zip 94583

APPLICANT
Name Tony Mikacich
Address 3164 Gold Camp Dr. Phone 916 631-1317
City Rancho Cordova Zip 95670

TYPE OF PROJECT

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

PROPOSED WATER SUPPLY WELL USE

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

DRILLING METHOD:

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

DRILLER'S NAME Bay Area Exploration Inc. (BAE)

DRILLER'S LICENSE NO 522125
exp. 2-28-01

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 10 Maximum
Hole Diameter 8 in. Depth 12 ft.

ESTIMATED STARTING DATE 10/25/00
ESTIMATED COMPLETION DATE 10/26/00

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

APPLICANT'S SIGNATURE Tony Mikacich DATE 10/19/00

PLEASE PRINT NAME Tony Mikacich

Rev.4-3.00

**FOR OFFICE USE**

PERMIT NUMBER WO0-671
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 feet replaced in kind or with compatible material.

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

F. WELL DESTRUCTION
See attached requirements for destruction of shallow wells. Send a copy of well completion report. A different permit application 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 10-19-00

SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT
800 Madison Street - Lake Merritt Station
P.O. Box 12688
Oakland, CA 94604-2688
Telephone (510) 464-6000

GETTLER – RYAN INC.
3164 Gold Camp Drive, Suite 240
Rancho Cordova, CA 95670

PERMIT NO.K-014-2-OK



## PERMIT TO ENTER

Subject to the following covenants, terms, conditions and restrictions, the San Francisco Bay Area Rapid Transit District (hereinafter "District") hereby grants permission to Gettler-Ryan, Inc. (hereinafter "Permittee") to perform 10 soil borings, (hereinafter the "Work") partly within District right of way located between Telegraph Avenue and West Grand Avenue and in the City of Oakland, County of Alameda, (hereinafter "Premises"), as and described shown on Exhibit "A" (Sheets 1 and 2 of 2), attached hereto and incorporated herein by reference.

1. Subject to Section 15 below, the term of this Permit shall commence on November 6, 2000, and end on November 10, 2000, provided, however, that at any time during the term, the Permit may be terminated by either party upon thirty (30) days prior written notice to the other party. The notice shall be sent certified mail, return receipt requested, to either: Permittee at the above address, Attention: Tony Mikacich, Project Manager; or to:

Real Estate Services
San Francisco Bay Area Rapid Transit District
1330 Broadway, Suite 1800
Oakland, California 94612-2517

Attention: Desha R. Hill, Department Manager

The notice period shall begin to run upon receipt of the notice.

2. The fee for this permit shall be calculated per the Fee Schedule in Resolution No. 4515, adopted by the District's Board of Directors. A permit application fee of $200.00 has been provided prior to approval of this Permit. Fees which are expended on plan review and inspection will be billed to Permittee upon completion of the Work.

3. Permittee's right to use this area shall be non-exclusive and non-transferable, and shall be for the sole purpose of the Work. In no event shall District's property be deemed to be a public right-of-way. Overnight parking is prohibited on District's property.

4. In order to protect BART's waterproofing membrane, Permittee shall not advance more than 10 feet deep at any location. The auger/boring machine shall be marked in such a way that the 10 foot depth is not exceeded. Permittee shall proceed with extreme caution from the 7-foot to 10-foot depth. Should any resistance occur, Permittee shall stop drilling immediately and notify the BART inspector. Work shall not proceed without the inspector's approval. If waterproofing membrane is damaged, it shall be repaired to BART's specifications at Permittee's sole expense. A BART inspector shall be present during the first boring within the BART right of way.

5. Permittee shall provide BART with a copy of the soil/water report when completed. Permittee shall contact Mr. Hamed Tafaghodi at (510) 464-6434 regarding the report.

6. Permittee shall have the duty and agrees to exercise reasonable care to properly maintain District's property pursuant to this Permit, including, but not limited to, removing debris dumped or placed on the Premises during the term of this Permit, from any source, and to exercise reasonable care inspecting for and preventing any damage to any portion of District's property.

7. Permittee acknowledges that said Work constitutes an encroachment upon District's property and agrees to perform said Work in accordance with and subject to the provisions of this Permit, applicable provisions of the "General Terms and Conditions Relating to Utility Permits," attached hereto and incorporated herein by reference, and applicable state laws and local ordinances. Where there is a conflict between the provisions of this Permit and the "General Terms and Conditions Relating to Utility Permits," this Permit shall prevail.

8. Permittee agrees to notify District's Construction Liaison, Edwin Kung at (510) 464-6445, at least 14 calendar days prior to any use of the Premises. Should Permittee require any utility hook-ups, Permittee will obtain all necessary permits and

pay all fees in connection therewith. Permittee shall not perform any work on District property until all necessary permits, licenses and environmental clearances have been obtained.

9. Permittee shall not use, create, store, or allow any hazardous materials and/or waste on the Premises. Hazardous materials are those substances listed in the Hazardous Substances List, Title 8, California Code of Regulations, G.I.S.O. Section 337-339, as may be amended from time to time, or those which meet the toxicity, reactivity, corrosivity or flammability criteria of the above Code, as well as any other substance which poses a hazard to health or environment.

10. District shall at all times have the right to go upon and inspect the Premises and the operations conducted thereon to assure compliance with any of the requirements in this Permit. This inspection may include, but is not limited to, taking samples of substances and materials present for testing.

11. It is the intent of the parties hereto that the Permittee shall be responsible for and bear the entire cost of removal and disposal for hazardous materials or waste introduced to the Premises during Permittee's period of use and possession of the Premises. Permittee shall also be responsible for any cleanup and decontamination on or off the Premises necessitated by such materials or waste.

12. Permittee shall further hold District, its directors, officers, employees, agents or representatives harmless from all responsibility, liability and/or claim for damages resulting from the presence or use of hazardous waste or materials on the Premises during the Permittee's use or possession of the Premises.

13. Permittee agrees to assume responsibility and liability for all damages, loss or injury of any kind or nature whatever to persons or property, caused by or resulting from or in connection with this Permit, or which may arise out of failure of Permittee's performance of its obligations hereunder.

14. Permittee shall defend, indemnify and hold harmless District, its directors, officers, agents and employees, from all claims, demands, suits, loss, damages, injury and liability, direct or indirect (including any and all costs and expenses in connection therewith), incurred by reason of or in connection with this Permit, or any act, or failure to act, of Permittee, its officers, agents, employees and contractors or any of them, under or in connection with this Permit. Permittee agrees at its own cost, expense and risk to defend any and all claims, actions, suits, or other legal proceedings brought or instituted against District, its directors, officers, agents and employees arising out of this Permit, and to pay and satisfy any resulting judgments.

15. Permittee agrees that no easement, lease or other property right is acquired by Permittee through this Permit.

16. Upon any use of District property by Permittee other than that authorized by this Permit, or upon failure of the Permittee to conform to any of the terms and conditions of this Permit, the District may terminate this Permit immediately.

17. Within 30 days of the expiration or earlier termination of a Permit, Permittee shall, at its sole expense, restore to its former condition all District property which has been disturbed by the Permittee, except as provided otherwise in the Permit. Restoration shall include, but not be limited to, removal of improvements, equipment, materials, debris, and the like, and repair of any damage. If Permittee fails to restore District property as required herein, the District may perform such restoration at Permittee's sole expense.

18. Permittee agrees to reimburse the District promptly for any damage done to District property in connection with the Work, or with the restoration of the property.

19. Insurance has been approved as stated in Exhibit B attached hereto and incorporated herein by reference.

SAN FRANCISCO BAY AREA
RAPID TRANSIT DISTRICT

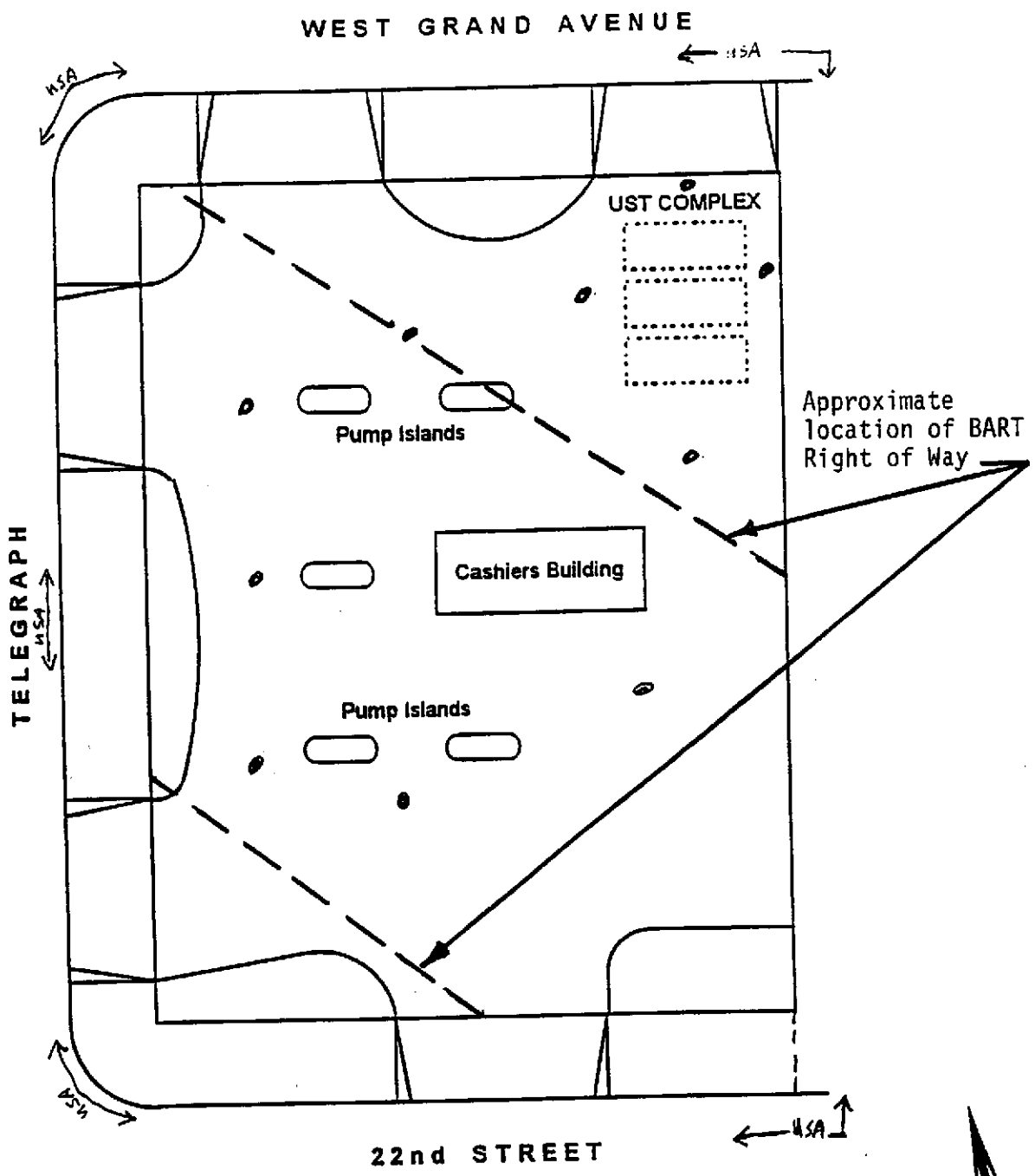
By D H Hill for Desha R. Hill Date 11/7/00
Desha R. Hill
Department Manager, Real Estate Services

ACCEPTED
GETTLER – RYAN INC.

By Tony Mikkelsen (Gettler-Ryan Inc.) Date 11/08/00

Title Project Geologist

\\IBB-01\DATA\GROUP\REAL_EST\GARY\PERMITS\K-014-2-OK.PTE.doc




**SITE PLAN**

CHEVRON SERVICE STATION # 9-3600
2200 Telegraph Avenue
Oakland, California

FIGURE 1

Touchstone Developments
Environmental Management

| PROJECT NO. | DATE | DRAWN BY: | BASE MAP: |
|---|---|---|---|
| | 5/94 | WTJ | Chevron Site Plan 8/90 |

EXHIBIT "A" (2 of 2)

# GETTLER-RYAN INC.

November 1, 2000

Mr. Gary Anderson
Bay Area Rapid Transit District
via fax 510.464.7583

**Subject:** **Subsurface Investigation at Chevron Station #9-3600, 2200 Telegraph Avenue, Oakland, California**

Mr. Anderson:

This letter is to provide you with the information requested in our telephone conversation of October 31, 2000.

1. The proposed subsurface investigation will be conducted using hollow-stem augers. Soil samples will be collected using a split-spoon sampler. As we discussed, neither the augers or the sampling device will not be advanced deeper than 10 feet below surface grade (bsg). This permit condition should not affect our proposed scope of work. We expect to encounter water at approximately 5 to 8 feet bsg. We plan to drill to a maximum of 10 feet bsg to collect a grab water sample, then properly abandon the boring.

2. On completion of the drilling and sampling activities, each soil boring will be backfilled to surface grade with neat cement containing approximately 5% bentonite powder. Because we expect to encounter groundwater in each of the borings, the neat cement will be placed with a tremie pipe and pump. If the neat cement shrinks while setting, the borings will be topped off with additional neat cement so that when competed it is flush with grade.

This should answer the questions you had during our conversation. Please call me at 916.631.1300 if I may be of further assistance. Please note that we plan to perform this subsurface investigation on Wednesday, November 8, 2000.

Sincerely,
**Gettler-Ryan Inc.**

Stephen J. Carter, R.G.
Senior Geologist

# Gettler-Ryan, Inc.

## Log of Boring B-1

| | |
|---|---|
| PROJECT: *Chevron Service Station No. 9-3600* | LOCATION: *2200 Telegraph Avenue, Oakland, CA.* |
| GR PROJECT NO.: *346895.01* | SURFACE ELEVATION: |
| DATE STARTED: *11/08/00* | WL (ft. bgs): DATE: TIME: |
| DATE FINISHED: *11/08/00* | WL (ft. bgs): DATE: TIME: |
| DRILLING METHOD: *3 1/2 in. Hand Auger* | TOTAL DEPTH: *15 feet* |
| DRILLING COMPANY: *Bay Area Exploration* | GEOLOGIST: *Tony Mikacich* |

| DEPTH (feet) | PID (ppm) | BLOWS/F T. M | SAMPLE INT. | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | ASPHALT - 6 inches thick. | |
| | | | | | SC | CLAYEY SAND (SC) - brown to dark brown (7.5YR 3/3), moist; 60% fine to medium sand, 30% clay, 20% gravel (<1 inch diameter). | Boring backfilled with neat cement from the bottom to ground surface. |
| 3 | 1.1 | | | | | | |
| 6 | 2.1 | | | | CL | Color changes to dark brown (7.5YR 3/3), becomes 70% fine to medium sand, 30% clay, trace of gravel (<1 inch diameter). | |
| | 2.8 | | | | | CLAY (CL) - black (N2 5Y), moist; 90% clay, 10% fine sand, trace of silt, faint organic odor. | |
| 9 | 340 | | | | | SILTY CLAY (CL) - brown (7.5YR 3/3) mottled with gray to green; moist; 80% clay, 20% silt, abundant iron oxide staining, trace of fine sand. | |
| | 639 | | | | | | |
| 12 | 850 | | | | | CLAY (CL) - brown to green (2.5Y 5/3), wet; 60% clay, 20% silt, 20% fine sand, trace of silt, strong hydrocarbon odor. | Grab groundwater sample B-1-11/08/00 (W) collected at 12.5 feet |
| 15 | .. | | | | | Bottom of boring at 15 feet bgs. | |
| 18 | | | | | | | |
| 21 | | | | | | | |



JOB NUMBER: *346895.01*

# Gettler-Ryan, Inc.

## Log of Boring B-2

| | |
|---|---|
| PROJECT: Chevron Service Station No. 9-3600 | LOCATION: 2200 Telegraph Avenue, Oakland, CA. |
| GR PROJECT NO.: 346895.01 | SURFACE ELEVATION: |
| DATE STARTED: 11/08/00 | WL (ft. bgs): DATE: TIME: |
| DATE FINISHED: 11/08/00 | WL (ft. bgs): DATE: TIME: |
| DRILLING METHOD: 3 1/2 in. Hand Auger | TOTAL DEPTH: 10 feet |
| DRILLING COMPANY: Bay Area Exploration | GEOLOGIST: Tony Mikacich |

| DEPTH (feet) | PID (ppm) | BLOWS/FT.* | SAMPLE INT. | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | ASPHALT – 6 inches thick. | Boring backfilled with neat cement from the bottom to ground surface |
| | | | | | SM | SILTY SAND (SM) – olive brown (2.5Y 4/4), moist; 70% fine to medium sand, 30% silt, hydrocarbon odor. | |
| 3 | | | | | SC | CLAYEY SAND (SC) – olive brown (2.5Y 4/4), moist; 70% fine to medium sand, 30% clay. | |
| | 1.8 | | | | | | |
| | | | | | SM | SILTY SAND (SM) – brown (7.5YR 4/3), moist; 80% fine to medium sand, 20% silt. | |
| 6 | 1.1 | | | | | | |
| | | | | | SP | POORLY GRADED SAND (SP) – brown (7.5YR 4/3), moist; 100% fine to medium sand, trace of coarse sand, trace of shell fragments, no hydrocarbon odor. | |
| 9 | | | | | | | |
| | 23.6 | | | | | Bottom of boring at 10 feet bgs. | |
| 12 | | | | | | | |
| 15 | | | | | | | |
| 18 | | | | | | | |
| 21 | | | | | | | |



JOB NUMBER: 346895.01

# Gettler-Ryan, Inc.

## Log of Boring B-3

| | |
|---|---|
| PROJECT: *Chevron Service Station No. 9-3600* | LOCATION: *2200 Telegraph Avenue, Oakland, CA.* |
| GR PROJECT NO.: *346895.01* | SURFACE ELEVATION: |
| DATE STARTED: *11/08/00* | WL (ft. bgs): DATE: TIME: |
| DATE FINISHED: *11/08/00* | WL (ft. bgs): DATE: TIME: |
| DRILLING METHOD: *3 1/2 in. Hand Auger* | TOTAL DEPTH: *5.5 feet* |
| DRILLING COMPANY: *Bay Area Exploration* | GEOLOGIST: *Tony Mikacich* |

| DEPTH (feet) | PID (ppm) | BLOWS/FT. # | SAMPLE INT. | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | ASPHALT - 8 inches thick. | Boring backfilled with neat cement from the bottom to ground surface. |
| | | | | | SM | SILTY SAND (SM) - brown (7.5YR 4/3), moist; 80% fine to medium sand, 20% silt. | |
| 3 | | | | | SP | POORLY GRADED SAND (SP) - brown (7.5YR 4/3), moist; 100% fine to medium sand, no hydrocarbon odor. | |
| | 0.4 | | | | | | |
| 6 | | | | | | Bottom of boring at 5.5 feet bgs. | |
| 9 | | | | | | | |
| 12 | | | | | | | |
| 15 | | | | | | | |
| 18 | | | | | | | |
| 21 | | | | | | | |

JOB NUMBER: *346895.01*

# Gettler-Ryan, Inc.

## Log of Boring B-4

| | |
|---|---|
| PROJECT: *Chevron Service Station No. 9-3600* | LOCATION: *2200 Telegraph Avenue, Oakland, CA.* |
| GR PROJECT NO.: *346895.01* | SURFACE ELEVATION: |
| DATE STARTED: *11/08/00* | WL (ft. bgs): DATE: TIME: |
| DATE FINISHED: *11/08/00* | WL (ft. bgs): DATE: TIME: |
| DRILLING METHOD: *3 1/2 in. Hand Auger* | TOTAL DEPTH: *10 feet* |
| DRILLING COMPANY: *Bay Area Exploration* | GEOLOGIST: *Tony Mikacich* |

| DEPTH (feet) | PID (ppm) | BLOWS/FT. * | SAMPLE INT. | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | ASPHALT – 6 inches thick. | Boring backfilled with neat cement from the bottom to ground surface. |
| | | | | | SM | SILTY SAND (SM) – brown (7.5YR 4/3), moist; 70% fine to medium sand, 30% silt. | |
| 3 | | | | | SP | POORLY GRADED SAND (SP) – brown (7.5YR 4/3), moist; 100% fine to medium sand, trace of coarse sand, trace of clay, trace of shell fragments. | |
| | 0.8 | | | | | | |
| 6 | | | | | | | |
| | 0.4 | | | | | Becomes 100% fine to medium sand, 20% gravel. | |
| 9 | | | | | SM/SC | SILTY AND CLAYEY SAND (SM/SC) – dark brown (7.5YR 3/3), moist; 60% fine to medium sand, 20% silt, 20% clay. | |
| | 0 | | | | | Bottom of boring at 10 feet bgs. | |
| 12 | | | | | | | |
| 15 | | | | | | | |
| 18 | | | | | | | |
| 21 | | | | | | | |



JOB NUMBER: *346895.01*

# Gettler-Ryan, Inc.

## Log of Boring B-5

| | |
|---|---|
| PROJECT: *Chevron Service Station No. 9-3600* | LOCATION: *2200 Telegraph Avenue, Oakland, CA.* |
| GR PROJECT NO.: *346895.01* | SURFACE ELEVATION: |
| DATE STARTED: *11/08/00* | WL (ft. bgs): DATE: TIME: |
| DATE FINISHED: *11/08/00* | WL (ft. bgs): DATE: TIME: |
| DRILLING METHOD: *3 1/2 in. Hand Auger* | TOTAL DEPTH: *10 feet* |
| DRILLING COMPANY: *Bay Area Exploration* | GEOLOGIST: *Tony Mikacich* |

| DEPTH (feet) | PID (ppm) | BLOWS/FT. # | SAMPLE INT. | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | ASPHALT - 6 inches thick. | |
| | | | | | SC | CLAYEY SAND WITH SILT (SC) - olive brown (2.5Y 4/4), moist; 60% fine to medium sand, 30% clay, 10% silt. | Boring backfilled with neat cement from the bottom to ground surface |
| 3 | 1.5 | | | | | | |
| | 1.3 | | | | | | |
| 6 | | | | | SP | POORLY GRADED SAND (SP) - brown (7.5YR 4/3), moist; 90% fine to medium sand, 10% silt, trace of shell fragments. | |
| | 1.0 | | | | CL | SANDY CLAY (CL) - dark brown (7.5YR 3/3) mottled with brown, moist; 80% clay, 20% sand, no hydrocarbon odor. | |
| | 0.9 | | | | | | |
| 9 | | | | | SP | POORLY GRADED SAND (SP) - brown (7.5YR 4/3), moist; 100% fine to medium sand, trace of shell fragments. | |
| | 0.8 | | | | | | |
| | | | | | | Bottom of boring at 10 feet bgs. | |
| 12 | | | | | | | |
| 15 | | | | | | | |
| 18 | | | | | | | |
| 21 | | | | | | | |



JOB NUMBER: *346895.01*

# Gettler-Ryan, Inc.

## Log of Boring B-6

| | |
|---|---|
| PROJECT: *Chevron Service Station No. 9-3600* | LOCATION: *2200 Telegraph Avenue, Oakland, CA.* |
| GR PROJECT NO.: *346895.01* | SURFACE ELEVATION: |
| DATE STARTED: *11/08/00* | WL (ft. bgs): DATE: TIME: |
| DATE FINISHED: *11/08/00* | WL (ft. bgs): DATE: TIME: |
| DRILLING METHOD: *3 1/2 in. Hand Auger* | TOTAL DEPTH: *10 feet* |
| DRILLING COMPANY: *Bay Area Exploration* | GEOLOGIST: *Tony Mikacich* |

| DEPTH (feet) | PID (ppm) | BLOWS/FT. * | SAMPLE INT. | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | ASPHALT – 6 inches thick. | Boring backfilled with neat cement from the bottom to ground surface |
| | | | | | SP | POORLY GRADED SAND (SP) – brown (7.5YR 4/3), moist; 100% fine sand, trace of shell fragments. | |
| 3 | 0.3 | | | | | | |
| 6 | | | | | | | |
| 9 | | | | | | | |
| | | | | | | Bottom of boring at 10 feet bgs. | |
| 12 | | | | | | | |
| 15 | | | | | | | |
| 18 | | | | | | | |
| 21 | | | | | | | |



JOB NUMBER: *346895.01*

# Gettler-Ryan, Inc.

## Log of Boring B-7

| | |
|---|---|
| PROJECT: *Chevron Service Station No. 9-3600* | LOCATION: *2200 Telegraph Avenue, Oakland, CA.* |
| GR PROJECT NO.: *346895.01* | SURFACE ELEVATION: |
| DATE STARTED: *11/08/00* | WL (ft. bgs): DATE: TIME: |
| DATE FINISHED: *11/08/00* | WL (ft. bgs): DATE: TIME: |
| DRILLING METHOD: *3 1/2 in. Hand Auger* | TOTAL DEPTH: *18 feet* |
| DRILLING COMPANY: *Bay Area Exploration* | GEOLOGIST: *Tony Mikacich* |

| DEPTH (feet) | PID (ppm) | BLOWS/FT. # | SAMPLE INT. | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | ASPHALT – 6 inches thick. | |
| | | | | | CL | SILTY CLAY (CL) – black (N2.5), moist; 80% clay, 20% silt, trace of fine sand. | Boring backfilled with neat cement from the bottom to ground surface |
| 3 | | | | | | | |
| | 339 | | | | | | |
| 6 | | | | | | Color changes to dark brown (2.5Y 4/3), becomes 70% clay, 20% silt, 10% fine sand, trace of iron oxide staining, trace of black organic matter. | |
| 9 | | | | | | | |
| | 5.6 | | | | | | |
| 12 | | | | | | | |
| 15 | | | | | | | Grab groundwater sample B-7-W-11/08/00 (W) collected at 16 feet. |
| | | | | | | Bottom of boring at 18 feet bgs. | |
| 18 | | | | | | | |
| 21 | | | | | | | |

JOB NUMBER: *346895.01*

# Gettler-Ryan, Inc.

## Log of Boring B-8

| | |
|---|---|
| PROJECT: Chevron Service Station No. 9-3600 | LOCATION: 2200 Telegraph Avenue, Oakland, CA. |
| GR PROJECT NO.: 346895.01 | SURFACE ELEVATION: |
| DATE STARTED: 11/08/00 | WL (ft. bgs): DATE: TIME: |
| DATE FINISHED: 11/08/00 | WL (ft. bgs): DATE: TIME: |
| DRILLING METHOD: 3 1/2 in. Hand Auger | TOTAL DEPTH: 4 feet |
| DRILLING COMPANY: Bay Area Exploration | GEOLOGIST: Tony Mikacich |

| DEPTH (feet) | PID (ppm) | BLOWS/FT. * | SAMPLE INT. | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | ASPHALT - 6 inches thick. | Boring backfilled with neat cement from the bottom to ground surface |
| 3 | | | | | SN | SILTY SAND (SM) - brown (7.5YR 4/3), moist; 70% sand, 30% silt. | |
| | | | | | | Bottom of boring at 4 feet bgs. | |
| 6 | | | | | | | |
| 9 | | | | | | | |
| 12 | | | | | | | |
| 15 | | | | | | | |
| 18 | | | | | | | |
| 21 | | | | | | | |



JOB NUMBER: 346895.01

KIFF ANALYTICAL LLC

Report Number : 18300
Date : 11/12/00

Tom Bauhs
Gettler-Ryan Inc.
3164 Gold Camp Dr., Suite 240
Rancho Cordova, CA 95670

Subject : 2 Water Samples and 15 Soil Samples
Project Name : Chevron #9-3600
Project Number : GR#346895.01

Dear Mr. Bauhs

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 18300
Date : 11/12/00

Project Name : **Chevron #9-3600**
Project Number : **GR#346895.01**

Sample : **B-1-6'** Matrix : Soil Lab Number : 18300-01
Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Toluene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Ethylbenzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Total Xylenes** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Methyl-t-butyl ether** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **TPH as Gasoline** | **< 1.0** | 1.0 | mg/Kg | EPA 8260B | 11/10/00 |
| Toluene - d8 (Surr) | 97.6 | | % Recovery | EPA 8260B | 11/10/00 |
| 4-Bromofluorobenzene (Surr) | 103 | | % Recovery | EPA 8260B | 11/10/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 18300
Date : 11/12/00

Project Name : **Chevron #9-3600**
Project Number : **GR#346895.01**

Sample : **B-1-10'** Matrix : Soil Lab Number : 18300-02
Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Toluene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Ethylbenzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Total Xylenes** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Methyl-t-butyl ether** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **TPH as Gasoline** | **< 1.0** | 1.0 | mg/Kg | EPA 8260B | 11/10/00 |
| Toluene - d8 (Surr) | 99.9 | | % Recovery | EPA 8260B | 11/10/00 |
| 4-Bromofluorobenzene (Surr) | 103 | | % Recovery | EPA 8260B | 11/10/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 18300

Date : 11/12/00

Project Name : **Chevron #9-3600**

Project Number : **GR#346895.01**

Sample : **B-1-11/08/00(W)** Matrix : Water Lab Number : 18300-04

Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **180** | 20 | ug/L | EPA 8260B | 11/11/00 |
| **Toluene** | **< 20** | 20 | ug/L | EPA 8260B | 11/11/00 |
| **Ethylbenzene** | **2200** | 20 | ug/L | EPA 8260B | 11/11/00 |
| **Total Xylenes** | **1100** | 20 | ug/L | EPA 8260B | 11/11/00 |
| **Methyl-t-butyl ether (MTBE)** | **730** | 20 | ug/L | EPA 8260B | 11/11/00 |
| **Diisopropyl ether (DIPE)** | **< 20** | 20 | ug/L | EPA 8260B | 11/11/00 |
| **Ethyl-t-butyl ether (ETBE)** | **< 20** | 20 | ug/L | EPA 8260B | 11/11/00 |
| **Tert-amyl methyl ether (TAME)** | **< 20** | 20 | ug/L | EPA 8260B | 11/11/00 |
| **Tert-Butanol** | **380** | 200 | ug/L | EPA 8260B | 11/11/00 |
| **Methanol** | **< 2000** | 2000 | ug/L | EPA 8260B | 11/11/00 |
| **Ethanol** | **< 200** | 200 | ug/L | EPA 8260B | 11/11/00 |
| **1,2-Dichloroethane** | **< 20** | 20 | ug/L | EPA 8260B | 11/11/00 |
| **1,2-Dibromoethane** | **< 20** | 20 | ug/L | EPA 8260B | 11/11/00 |
| **TPH as Gasoline** | **29000** | 2000 | ug/L | EPA 8260B | 11/11/00 |
| Toluene - d8 (Surr) | 95.5 | | % Recovery | EPA 8260B | 11/11/00 |
| 4-Bromofluorobenzene (Surr) | 105 | | % Recovery | EPA 8260B | 11/11/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 18300
Date : 11/12/00

Project Name : **Chevron #9-3600**
Project Number : **GR#346895.01**

Sample : **B-2-6'** Matrix : Soil Lab Number : 18300-05
Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Toluene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Ethylbenzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Total Xylenes** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Methyl-t-butyl ether** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **TPH as Gasoline** | < 1.0 | 1.0 | mg/Kg | EPA 8260B | 11/10/00 |
| Toluene - d8 (Surr) | 91.2 | | % Recovery | EPA 8260B | 11/10/00 |
| 4-Bromofluorobenzene (Surr) | 85.8 | | % Recovery | EPA 8260B | 11/10/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 18300
Date : 11/12/00

Project Name : **Chevron #9-3600**
Project Number : **GR#346895.01**

Sample : **B-2-10'** Matrix : Soil Lab Number : 18300-06
Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Toluene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Ethylbenzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Total Xylenes** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Methyl-t-butyl ether** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **TPH as Gasoline** | **< 1.0** | 1.0 | mg/Kg | EPA 8260B | 11/10/00 |
| Toluene - d8 (Surr) | 99.5 | | % Recovery | EPA 8260B | 11/10/00 |
| 4-Bromofluorobenzene (Surr) | 103 | | % Recovery | EPA 8260B | 11/10/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 18300

Date : 11/12/00

Project Name : **Chevron #9-3600**

Project Number : **GR#346895.01**

Sample : **B-3-5'** Matrix : Soil Lab Number : 18300-07

Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Toluene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Ethylbenzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Total Xylenes** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Methyl-t-butyl ether** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **TPH as Gasoline** | **< 1.0** | 1.0 | mg/Kg | EPA 8260B | 11/10/00 |
| Toluene - d8 (Surr) | 92.7 | | % Recovery | EPA 8260B | 11/10/00 |
| 4-Bromofluorobenzene (Surr) | 85.2 | | % Recovery | EPA 8260B | 11/10/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 18300
Date : 11/12/00

Project Name : **Chevron #9-3600**
Project Number : **GR#346895.01**

Sample : **B-4-5'** Matrix : Soil Lab Number : 18300-08

Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Toluene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Ethylbenzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Total Xylenes** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Methyl-t-butyl ether** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **TPH as Gasoline** | **< 1.0** | 1.0 | mg/Kg | EPA 8260B | 11/10/00 |
| Toluene - d8 (Surr) | 93.3 | | % Recovery | EPA 8260B | 11/10/00 |
| 4-Bromofluorobenzene (Surr) | 87.3 | | % Recovery | EPA 8260B | 11/10/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 18300

Date : 11/12/00

Project Name : **Chevron #9-3600**

Project Number : **GR#346895.01**

Sample : **B-4-10'** Matrix : Soil Lab Number : 18300-09

Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Toluene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Ethylbenzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Total Xylenes** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Methyl-t-butyl ether** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **TPH as Gasoline** | **< 1.0** | 1.0 | mg/Kg | EPA 8260B | 11/10/00 |
| Toluene - d8 (Surr) | 93.1 | | % Recovery | EPA 8260B | 11/10/00 |
| 4-Bromofluorobenzene (Surr) | 85.9 | | % Recovery | EPA 8260B | 11/10/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 18300

Date : 11/12/00

Project Name : **Chevron #9-3600**

Project Number : **GR#346895.01**

Sample : **B-5-5'** Matrix : Soil Lab Number : 18300-10

Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Toluene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Ethylbenzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Total Xylenes** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Methyl-t-butyl ether** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **TPH as Gasoline** | **< 1.0** | 1.0 | mg/Kg | EPA 8260B | 11/10/00 |
| Toluene - d8 (Surr) | 94.7 | | % Recovery | EPA 8260B | 11/10/00 |
| 4-Bromofluorobenzene (Surr) | 87.4 | | % Recovery | EPA 8260B | 11/10/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 18300
Date : 11/12/00

Project Name : **Chevron #9-3600**
Project Number : **GR#346895.01**

Sample : **B-5-10'** Matrix : Soil Lab Number : 18300-11
Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Toluene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Ethylbenzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Total Xylenes** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Methyl-t-butyl ether** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **TPH as Gasoline** | **< 1.0** | 1.0 | mg/Kg | EPA 8260B | 11/10/00 |
| Toluene - d8 (Surr) | 94.7 | | % Recovery | EPA 8260B | 11/10/00 |
| 4-Bromofluorobenzene (Surr) | 88.7 | | % Recovery | EPA 8260B | 11/10/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 18300

Date : 11/12/00

Project Name : **Chevron #9-3600**

Project Number : **GR#346895.01**

Sample : **B-6-5'** Matrix : Soil Lab Number : 18300-12

Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Toluene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Ethylbenzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Total Xylenes** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Methyl-t-butyl ether** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **TPH as Gasoline** | **< 1.0** | 1.0 | mg/Kg | EPA 8260B | 11/10/00 |
| Toluene - d8 (Surr) | 94.1 | | % Recovery | EPA 8260B | 11/10/00 |
| 4-Bromofluorobenzene (Surr) | 86.0 | | % Recovery | EPA 8260B | 11/10/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 18300

Date : 11/12/00

Project Name : **Chevron #9-3600**

Project Number : **GR#346895.01**

Sample : **B-6-10'** Matrix : Soil Lab Number : 18300-13

Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Toluene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Ethylbenzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Total Xylenes** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Methyl-t-butyl ether** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **TPH as Gasoline** | **< 1.0** | 1.0 | mg/Kg | EPA 8260B | 11/10/00 |
| Toluene - d8 (Surr) | 99.6 | | % Recovery | EPA 8260B | 11/10/00 |
| 4-Bromofluorobenzene (Surr) | 104 | | % Recovery | EPA 8260B | 11/10/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 18300

Date : 11/12/00

Project Name : **Chevron #9-3600**

Project Number : **GR#346895.01**

Sample : **B-7-5'** Matrix : Soil Lab Number : 18300-14

Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/11/00 |
| **Toluene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/11/00 |
| **Ethylbenzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/11/00 |
| **Total Xylenes** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/11/00 |
| **Methyl-t-butyl ether** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/11/00 |
| **TPH as Gasoline** | **< 1.0** | 1.0 | mg/Kg | EPA 8260B | 11/11/00 |
| Toluene - d8 (Surr) | 91.4 | | % Recovery | EPA 8260B | 11/11/00 |
| 4-Bromofluorobenzene (Surr) | 91.5 | | % Recovery | EPA 8260B | 11/11/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 18300

Date : 11/12/00

Project Name : **Chevron #9-3600**

Project Number : **GR#346895.01**

Sample : **B-7-10'** Matrix : Soil Lab Number : 18300-15

Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Toluene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Ethylbenzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Total Xylenes** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Methyl-t-butyl ether** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **TPH as Gasoline** | **< 1.0** | 1.0 | mg/Kg | EPA 8260B | 11/10/00 |
| Toluene - d8 (Surr) | 99.1 | | % Recovery | EPA 8260B | 11/10/00 |
| 4-Bromofluorobenzene (Surr) | 91.0 | | % Recovery | EPA 8260B | 11/10/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 18300

Date : 11/12/00

Project Name : **Chevron #9-3600**

Project Number : **GR#346895.01**

Sample : **B-7-11/08/00(W)** Matrix : Water Lab Number : 18300-16

Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 11/11/00 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 11/11/00 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 11/11/00 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 11/11/00 |
| **Methyl-t-butyl ether (MTBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 11/11/00 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 11/11/00 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 11/11/00 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 11/11/00 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 11/11/00 |
| **Methanol** | **< 50** | 50 | ug/L | EPA 8260B | 11/11/00 |
| **Ethanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 11/11/00 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 11/11/00 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 11/11/00 |
| **TPH as Gasoline** | **< 50** | 50 | ug/L | EPA 8260B | 11/11/00 |
| Toluene - d8 (Surr) | 97.1 | | % Recovery | EPA 8260B | 11/11/00 |
| 4-Bromofluorobenzene (Surr) | 108 | | % Recovery | EPA 8260B | 11/11/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 18300

Date : 11/12/00

Project Name : **Chevron #9-3600**

Project Number : **GR#346895.01**

Sample : **SP-1,2,3,4** Matrix : Soil Lab Number : 18300-17

Sample Date :11/8/00

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Toluene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Ethylbenzene** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Total Xylenes** | **0.0077** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **Methyl-t-butyl ether** | **< 0.0050** | 0.0050 | mg/Kg | EPA 8260B | 11/10/00 |
| **TPH as Gasoline** | < 1.0 | 1.0 | mg/Kg | EPA 8260B | 11/10/00 |
| Toluene - d8 (Surr) | 99.8 | | % Recovery | EPA 8260B | 11/10/00 |
| 4-Bromofluorobenzene (Surr) | 104 | | % Recovery | EPA 8260B | 11/10/00 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Analysis Report: Lead, EPA Method 6010

Client: Joel Kiff
720 Olive Drive,
Suite D
Davis, CA 95616

Project: Chevron #9-3600

Date Sampled: 11/08/2000
Date Received: 11/13/2000
Date Extracted: 11/14/2000
Date Analyzed: 11/14/2000
Date Reported: 11/15/2000

Project No.: GR3346895.01
Contact: Joel Kiff
Phone: (530)297-4800

Lab Contact: James Liang
Lab ID No.: S4119
Job No.: 834119
COC Log No.: 18300
Batch No.: MZK1114A
Instrument ID: IP004
Analyst ID: JEFFD
Matrix: SOIL

## ANALYTICAL RESULTS

| Lab / Client ID<br>Analyte | CAS No. | Results (mg/kg) | Rep. Limit (mg/kg) | Dilution (factor) |
|---|---|---|---|---|
| 1A / B-2-10'<br>Pb (Lead) | 7439921 | 6.2 | 2.5 | 1.0 |
| 2A / B-1-10'<br>Pb (Lead) | 7439921 | 10 | 2.5 | 1.0 |
| 3A / B-4-5'<br>Pb (Lead) | 7439921 | 26 | 2.5 | 1.0 |
| 4A / B-1-6'<br>Pb (Lead) | 7439921 | 32 | 2.5 | 1.0 |
| 5A / B-2-6'<br>Pb (Lead) | 7439921 | 9.6 | 2.5 | 1.0 |
| 6A / B-3-5'<br>Pb (Lead) | 7439921 | 27 | 2.5 | 1.0 |
| 7A / B-4-10'<br>Pb (Lead) | 7439921 | 27 | 2.5 | 1.0 |
| 8A / B-6-5'<br>Pb (Lead) | 7439921 | 3.2 | 2.5 | 1.0 |
| 9A / B-6-10'<br>Pb (Lead) | 7439921 | 3.6 | 2.5 | 1.0 |
| 10A / B-5-10'<br>Pb (Lead) | 7439921 | 8.9 | 2.5 | 1.0 |
| 11A / B-7-5'<br>Pb (Lead) | 7439921 | 6.5 | 2.5 | 1.0 |
| 12A / B-5-5'<br>Pb (Lead) | 7439921 | 17 | 2.5 | 1.0 |
| 13A / B-7-10'<br>Pb (Lead) | 7439921 | 6.8 | 2.5 | 1.0 |

CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Lead, EPA Method 6010

Client: Joel Kiff
720 Olive Drive,
Suite D
Davis, CA 95616

Project: Chevron #9-3600

Date Sampled: 11/08/2000
Date Received: 11/13/2000
Date Extracted: 11/14/2000
Date Analyzed: 11/14/2000
Date Reported: 11/15/2000

Project No.: GR3346895.01
Contact: Joel Kiff
Phone: (530)297-4800

Lab Contact: James Liang
Lab ID No.: S4119
Job No.: 834119
COC Log No.: 18300
Batch No.: M2K1114A
Instrument ID: IP004
Analyst ID: JEFFD
Matrix: SOIL

ANALYTICAL RESULTS

| Lab / Client ID<br>Analyte | CAS No. | Results<br>(mg/kg) | Rep. Limit<br>(mg/kg) | Dilution<br>(factor) |
|---|---|---|---|---|
| 14A / SP-1,2,3,4<br>Pb (Lead) | 7439921 | 11 | 2.5 | 1.0 |

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

**KIFF ANALYTICAL LLC**

720 Olive Drive, Suite D
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4803

Lab No. 18300 Page 1 of 2

# Chain-of-Custody Record and Analysis Request

| | |
|---|---|
| Project Manager: MR. Tom Bauhs Suite 240 | Phone No.: (916) 631-1300 |
| Company/Address: Getler-Ryan Inc. / 3164 Gold Camp Dr Rancho Cordova, CA. | FAX No.: (916) 631-1317 |
| Project Number: GR#346895.01 | P.O. No.: |
| Project Name: Chevron #9-3600 | |
| Project Location: 2200 Telegraph Ave., Oakland, CA | Sampler Signature: Tony Thurmond |

| Sample Designation | Sampling Date | Sampling Time | Container (Type/Amount) 40 ml VOA | SLEEVE | 1L GLASS | 500 ml GLASS | Method Preserved HCl | $HNO_3$ | ICE | NONE | Matrix WATER/SOIL | BTEX (8020) (Tank) | BTEX/TPH Gas/MTBE (8020/M8015) | TPH as Diesel (M8015) | TPH as Motor Oil (M8015) | 5 Oxygenates/TPH Gas/BTEX (8260) | 7 Oxygenates/TPH Gas/BTEX (8260) | 5 Oxygenates (8260) | 7 Oxygenates (8260) + 1,2-DCA, EDB | EPA 8260 | EPA 8270 | W.E.T. (X) TOTAL (X) Lead (7421/239.2) | Cd, Cr, Pb, Zn, Ni | TOTAL Pb - (6010) | | | TAT 12 hr/24 hr/48 hr/72 hr/1 wk/2 wk | For Lab Use Only | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-1-6' | 11/08/00 | 11:00 | | 1 | | | | | X | | S | | | | | | | | | | | | | X | | | | -01 |
| B-1-10' | | 11:37 | | 1 | | | | | X | | S | | | | | | | | | | | | | | | | | -02 |
| B-1-12.5' | | 3:44 | | 1 | | | | | X | | S | | | | | | | | | | | | | | | | Hold | -03 |
| B-1-11/08/00(W) | | 4:15 | 9 | | | 1 | X | X | X | | W | | | | | | | | | | | | | | | | | -04 |
| B-2-6' | | 12:40 | | 1 | | | | | | | S | | | | | | | | | | | | | | | | | -05 |
| B-2-10' | | 12:43 | | 1 | | | | | | | S | | | | | | | | | | | | | | | | | -06 |
| B-3-5' | | 1:09 | | 1 | | | | | | | S | | | | | | | | | | | | | | | | | -07 |
| B-4-5' | | 1:38 | | 1 | | | | | | | S | | | | | | | | | | | | | | | | | -08 |
| B-4-10' | | 1:55 | | 1 | | | | | | | S | | | | | | | | | | | | | | | | | -09 |
| B-5-5' | | 2:15 | | 1 | | | | | | | S | | | | | | | | | | | | | | | | | -10 |

| | Date | Time | | |
|---|---|---|---|---|
| Relinquished by: Tony Thurmond | | | Received by: | Remarks: |
| Relinquished by: | | | Received by: | Email address: ☐ .doc ☐ .xls ☐ .txt ☐ other |
| Relinquished by: | Date 110900 | Time 1525 | Received by Laboratory: Oxana Abalaan / Kiff Analytical | Bill to: |

Distribution: White - Lab, Yellow - File, Pink - Originator

COC.frm (9/99)

FROM: JOEL KIFF TO: TOM BAUHS
DATE: 11/13/00 TIME: 10:20:36 AM

**KIFF ANALYTICAL LLC**

720 Olive Drive, Suite D
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4803

Lab No 18300 Page 2 of 2

# Chain-of-Custody Record and Analysis Request

Project Manager: MR. TOM BAUHS suite 240
Company/Address: Gettler-Ryan Inc. / 3164 Gold Camp Dr. Rancho Cordova, CA.
Project Number: GR# 346895.01
P.O. No.:
Project Location: 2200 Telegraph Ave., Oakland, CA.
Phone No.: (916) 631-1300
FAX No.: (916) 631-1317
Project Name: Chevron #9-3600
Sampler Signature: Tony Mikucki

| Sample Designation | Sampling Date | Sampling Time | Container (Type/Amount) 40 ml VOA | SLEEVE | 1L GLASS | 500 ml GLASS | Method Preserved HCl | $HNO_3$ | ICE | NONE | Matrix WATER/SOIL | BTEX (8020) | BTEX/TPH Gas/MTBE (8020/M8016) | TPH as Diesel (M8015) | TPH as Motor Oil (M8015) | 5 Oxygenates/TPH Gas/BTEX (8260) | 7 Oxygenates/TPH Gas/BTEX (8260) | 5 Oxygenates (8260) | 7 Oxygenates (8260)+1,2-DCA, EDB | EPA 8260 | EPA 8270 | Lead (7421/239.2) | Cd, Cr, Pb, Zn, Ni | W.E.T. (X) / TOTAL (X) Total Pb - (6010) | TAT 12 hr/24 hr/48 hr/72 hr/1 wk/2 wk | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-5-10' | 11/08/00 | 2:40 | | 1 | | | | | | | S | | | | | | | | | | | | | | | |
| B-6-5' | | 2:59 | | 1 | | | | | | | S | | | | | | | | | | | | | | | |
| B-6-10' | | 3:09 | | 1 | | | | | | | S | | | | | | | | | | | | | | | |
| B-7-5' | | 5:00 | | 1 | | | | | | | S | | | | | | | | | | | | | | | |
| B-7-10' | | 5:20 | | 1 | | | | | | | S | | | | | | | | | | | | | | | |
| B-7-11/08/00(W) | | 6:27 | 8 | | | 1 | X | X | | | W | | | | | | | | X | | | | | | | |
| SP-1 | | 5:35 | | 1 | | | | | X | | S | | | | | | | | | | | | | | | Composite 4:1 |
| SP-2 | | 5:35 | | 1 | | | | | X | | S | | | | | | | | | | | | | | | |
| SP-3 | | 5:35 | | 1 | | | | | X | | S | | | | | | | | | | | | | | | |
| SP-4 | | 5:35 | | 1 | | | | | X | | S | | | | | | | | | | | | | | | |

-11 -12 -13 -14 -15 -16 -17 -18 -19 -20

| Relinquished by: | Date | Time | Received by: |
|---|---|---|---|
| Tony Mikucki | | | |
| Relinquished by: | Date | Time | Received by: |
| | | | |
| Relinquished by: | Date | Time | Received by Laboratory: |
| | 110900 | 1525 | Osana Albalang / Kiff Analytical |

Remarks:

Email address:
☐ .doc ☐ .xls ☐ .txt ☐ other

Bill to:

COC.ihs (9/98)

Distribution: White - Lab, Yellow - File, Pink - Originator

FROM: JOEL KIFF TO: TOM BAUHS

DATE: 11/13/00 TIME: 10:45:00 AM