



GETTLER-RYAN INC. (20221)

Alameda County
SEP 26 2002
Environmental Health

TRANSMITTAL

TO: Ms. Karen Streich
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94568

DATE: September 23, 2002
PROJ. #: DG90338H.4C01
SUBJECT: Report, Chevron SS# 9-0338
5500 Telegraph Avenue
Oakland, California

FROM:
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Delta Environmental Consultants Inc. network associate Gettler-Ryan Inc. will also be submitting a copy of the above referenced report to the following:

- Mr. Barney Chan, Alameda County Health Care Services Agency-Environmental Health Department, 1131 Harbor Bay Parkway, Ste. 250, Alameda, California, 94502
- Mr. James Brownell, Delta Environmental Consultants Inc., 3164 Gold Camp Dr., Ste. 200, Rancho Cordova, California 95670

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



Alameda County

SEP 26 2002

Environmental Health

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SOIL BORING SAMPLING REPORT

at
Chevron Service Station No. 9-0338
5500 Telegraph Avenue
Oakland, California

Report No. DG90338H.4C01
Delta Project No. DG90-338-H

Prepared for:

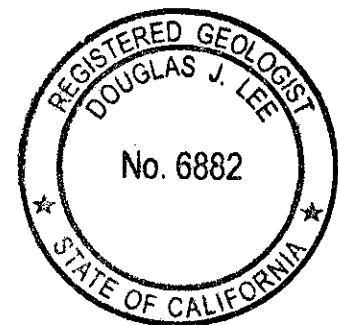
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September 20, 2002

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SOIL BORING SAMPLING REPORT

at

Chervon Service Station No. 9-0338
5500 Telegraph Avenue
Oakland, California

Report No. DG90338H.4C01
Delta Project No. DG90-338-H

INTRODUCTION

This report presents the results of additional site assessment performed by Delta Environmental Consultants Inc. network associate Gettler-Ryan Inc. (GR) at the above referenced site. The purpose of this work was to determine whether the utility trenches adjacent to the site are acting as preferential pathways, and to further delineate the petroleum hydrocarbon plume downgradient of the site. The scope of work performed included: updating the site safety plan; obtaining a drilling permit from the Alameda County Public Works Agency (ACPWA) and excavation permits from the City of Oakland; advancing four hand auger off-site soil borings; collecting soil and grab groundwater samples from the soil borings; analyzing selected soil and groundwater samples; and preparing a report documenting the work performed. The scope of work performed during this investigation was originally proposed in report #DG90338G.3C01, *Addendum to Plume Delineation Workplan*, dated December 3, 2001, and was subsequently approved by the Alameda County Health Care Services Agency-Environmental Health Department (ACHCSA-EHD) in a letter dated December 6, 2001.

SITE DESCRIPTION

The subject site is a Chevron service station located at the northeastern corner of Telegraph Avenue and 55th Street in Oakland, California (Figure 1). Site facilities consist of a station building, a car wash, six dispenser islands, and two gasoline underground storage tanks (USTs) that share a common pit near the northern site boundary. Pertinent site features are shown on Figure 2. The site vicinity is used for transportation, commercial, and residential purposes. The subject site is bordered to the north by State Route 24, to the east by residential housing, to the west by Telegraph Avenue, to the south by 55th Street. Beyond 55th Street to the south and southwest lie commercial buildings. West of Telegraph Avenue lies State Route 24.

The subject site is located on the East Bay Plain, approximately 2.5 miles east of San Francisco Bay and 2 miles north of Lake Merritt. The local topography is relatively flat at an elevation of approximately 125 feet above mean sea level.

SOIL BORING SAMPLING REPORT

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5500 Telegraph Avenue

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As mapped by E.J. Helley and others (1979, Flatland Deposits of the San Francisco Bay Region, California: U.S. Geological Survey Professional Paper 943), soil in the site vicinity consists of Holocene-age Bay Mud containing unconsolidated saturated dark plastic carbonaceous clay and silty clay. These materials are underlain by late Pleistocene-age alluvium consisting of weakly consolidated slightly weathered, poorly sorted and irregularly interbedded clay, silt, sand, and gravel.

The nearest surface water body is Glen Echo Creek located approximately 1 mile south of the site. Based on groundwater monitoring data, the groundwater flow direction in the vicinity of the site has fluctuated between the southwest and the southeast.

PREVIOUS ENVIRONMENTAL ACTIVITIES

- 1988: October — Chevron removed one 1,000-gallon waste oil UST. A soil sample was collected from the beneath the waste oil UST at a depth of 8 feet below ground surface (bgs) (Blaine Tech Services, *Soil Sampling Report*, dated January 13, 1989).
- 1989: July — Chevron replaced the product lines associated with the gasoline USTs. During the removal and replacement of the product lines, contaminated soil was discovered in the westernmost product line trench (closest to Telegraph Avenue). Ten compliance soil samples were collected from the westernmost product trench at depths between 4.0 and 6.75 feet bgs (Geotest Report No. 90686-01 dated July 1989).
November — GR installed groundwater monitoring wells C-1, C-2, and C-3. Petroleum hydrocarbons were not detected in the soil samples collected from the well borings. Initial groundwater samples from the wells did not contain dissolved petroleum hydrocarbons (GR report no. 7263-2, *Well Installation Report*, dated February 14, 1990).
- 1998: July — GR removed three 10,000-gallon gasoline USTs, one 1,000-gallon waste oil UST, product lines and dispenser islands, three hydraulic hoists, and an oil/water separator. Soil samples were collected from beneath the USTs, the product lines, the dispenser islands, the hydraulic hoists and the oil/water separator (GR report no. 1288.02, *Sampling During Tank and Product Line Replacement at Chevron Station #9-0338, 5500 Telegraph Ave., Oakland, California*, dated November 11, 1998).
October — GR supervised the destruction of monitoring well C-3. Following the destruction of well C-3, a grab groundwater sample was collected from a UST backfill well. Methyl tert-butyl ether was detected in the grab groundwater sample at a concentration of 15,000 parts per billion (ppb) (GR report no. 346456.01-2, *Well Destruction Letter Report*, dated October 5, 1998).
- 1999: May — GR supervised the installation of two groundwater monitoring wells (C-4 and C-5) and the replacement of two existing groundwater monitoring wells (C-1A and C-2A) (GR report no. 346456.02-2, *Monitoring Well Replacement and Installation Report*, dated July 1, 1999).
- 2001: September — 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

SOIL BORING SAMPLING REPORT

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work (Report no. DG90338B.4C01, *Site Conceptual Model Report*, dated September 26, 2001).

Discussion

Residual petroleum hydrocarbon impacted soil beneath the site is centered in the vicinity of the former USTs. Historical soil analytical data are presented in Table 1.

Boring logs from previous environmental investigations indicate that native soil beneath the site consists of sandy clays and silts underlain by clayey gravels and silty sands. Groundwater is first encountered at a depth of approximately 6 feet bgs.

Groundwater monitoring and sampling has been conducted quarterly since November 1989. During the latest monitoring and sampling event on June 25, 2002, MtBE was reported in wells C-1A, C-2A, C-4, and C-5 at concentrations of 7.5, 29, 21 and 180 ppb, respectively. Total Petroleum Hydrocarbons as gasoline (TPHg) were reported in wells C-1A, C-2A and C-5 at concentrations of 1,800, 1,100, and 79 ppb, respectively. Benzene was reported in wells C-2A and C-5 at concentrations of 17 and 7.7 ppb, respectively. Concentrations of dissolved petroleum hydrocarbons in the site wells appear to be stabilizing. Depth to water during this monitoring event ranged from 8.02 to 11.76 feet below top of casing, and groundwater flow was to the south at a gradient of approximately 0.02, which is consistent with historical data.

FIELD ACTIVITIES

To determine whether the utility trenches adjacent to the site are acting as preferential pathways, and to further delineate the petroleum hydrocarbon plume downgradient of the site, GR advanced four soil borings (HA-1 through HA-4) at the locations shown on Figure 2. Field work was performed in accordance with GR's Site Safety Plan dated August 6, 2002. GR Field Methods and Procedures are included in Appendix A. Underground Service Alert was notified prior to beginning site activities. The soil borings were advanced by GR (C57 #220793) under ACPWA permit no. 02-802 and City of Oakland excavation permit nos. X0200636 through X0200638 (Appendix B).

On August 12 and 13, 2002, four soil borings were advanced (HA-1 through HA-4) adjacent to the utility trenches in Telegraph Avenue and 55th Street. Borings HA-2 and HA-3 were advanced to a depth of 13.5 feet bgs. Boring HA-1 was advanced to a depth of 18.0 feet bgs. Boring HA-4 was advanced to a depth of 11.5 feet bgs. The borings were advanced using a 3.5-inch diameter hand auger. Soil samples were collected using a slide hammer. A GR geologist performed the field activities. Soil samples were collected from the borings for description and preparation of a log, and for possible chemical analysis. Grab groundwater samples were also collected from the borings. Boring logs are included in Appendix C. Borings were backfilled with pea gravel, compacted, then completed to ground surface per request of the City of Oakland Public Works Agency.

SOIL BORING SAMPLING REPORT

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RESULTS OF THE SUBSURFACE INVESTIGATION

Soil encountered during this investigation consisted of interbedded clay, clay with sand, and clay with gravel to the total depth explored. Groundwater was encountered in boring HA-1 at approximately 16 feet bgs, in boring HA-2 and HA-3 at 13 feet bgs, and in boring HA-4 at 11 feet bgs. Detailed descriptions of the soil encountered in the borings are presented on the boring logs in Appendix C.

CHEMICAL ANALYTICAL RESULTS

A total of four soil samples and four grab groundwater samples collected from the soil borings were submitted under chain-of-custody for chemical analysis. Analyses were performed by Lancaster Laboratories (ELAP #2116) of Lancaster, Pennsylvania. Copies of the laboratory reports and chain-of-custody form are included in Appendix D. Soil and groundwater chemical analytical data are summarized in Tables 2 and 3, respectively.

Chemical Analytical Procedures

The soil and groundwater samples were analyzed for TPHg by EPA Method 8015 Modified, and for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and MtBE by EPA Method 8021B. Groundwater samples were additionally analyzed for MtBE, ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), di-isopropyl ether (DIPE), and tert-butyl alcohol (TBA) by EPA Method 8260B.

Soil Analytical Results

Soil samples collected from borings HA-1 through HA-4 were non-detect for TPHg, BTEX, and MtBE.

Groundwater Analytical Results

The grab groundwater samples collected from borings HA-1 through HA-4 were non-detect for TPHg, BTEX, ETBE, DIPE, TAME, and TBA. MtBE was reported in grab groundwater samples from borings HA-3 and HA-2 at concentrations of 4.0 and 37 ppb, respectively, by EPA Method 8260B.

DISCUSSION

TPHg, BTEX or MtBE were not detected in soil during this investigation. Low levels of MtBE were

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reported in the grab groundwater samples from borings HA-2 (37 ppb) and HA-3 (4.0 ppb). Based on the depth to water encountered in the borings (11 to 16 feet bgs), the burial depth of sanitary sewer and storm drain lines in Telegraph Avenue and 55th Street (8.5 to 12 feet bgs), and that boring HA-4, which is located in the downslope direction for the sanitary sewer and storm drain lines, was non-detect for petroleum hydrocarbons, it appears that the utility trenches are mostly above the groundwater table and do not appear to be acting as preferential pathways for plume migration. Based on the results of this and previous investigations, no further subsurface assessment is warranted at this time. GR recommends that

the monitoring and sampling of the site wells be continued in order to further evaluate the dissolved hydrocarbon trends.

Table 1
 Historical Soil Chemical Analytical Results
 Chevron Service Station No. 9-0338
 5500 Telegraph Avenue
 Oakland, California

Sample ID	Sample Depth (feet)	Sample Date	TPHg (ppm)	TPHd (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)	MtBE (ppm)	Lead (ppm)	TOG (ppm)	Chromium (ppm)	Cadmium (ppm)	Zinc (ppm)	Nickel (ppm)	TPHho (ppm)
WOOP	8	10/5/88	NA	ND	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
1	--	7/7/89	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
2	--	7/7/89	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
3	--	7/7/89	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
4	--	7/7/89	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
5	--	7/7/89	340	NA	0.24	0.09	0.74	4.0	NA	NA	NA	NA	NA	NA	NA	NA
5B	--	7/7/89	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
6	--	7/7/89	800	NA	3.5	11	12	59	NA	NA	NA	NA	NA	NA	NA	NA
6C	--	7/7/89	49	NA	0.37	ND	0.72	3.0	NA	NA	NA	NA	NA	NA	NA	NA
7	--	7/7/89	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
8	--	7/7/89	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Southwest	6.75	7/11/89	130	NA	ND	ND	2.2	3.0	NA	NA	NA	NA	NA	NA	NA	NA
Southwest	4.5	7/14/89	73	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Northwest	6.25	7/11/89	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Northwest	4.0	7/14/89	1.5	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Southeast	6.75	7/11/89	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Southeast	5.0	7/14/89	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Northeast	6.25	7/11/89	480	NA	0.31	ND	10	28	NA	NA	NA	NA	NA	NA	NA	NA
Northeast	4.5	7/14/89	9.7	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
South	4.5	7/14/89	3	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
North	5.0	7/14/89	1.8	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA

Table 1
 Historical Soil Chemical Analytical Results
 Chevron Service Station No. 9-0338
 5500 Telegraph Avenue
 Oakland, California

Sample ID	Sample Depth (feet)	Sample Date	TPHg (ppm)	TPHd (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)	MtBE (ppm)	Lead (ppm)	TOG (ppm)	Chromium (ppm)	Cadmium (ppm)	Zinc (ppm)	Nickel (ppm)	TPHho (ppm)
C-1	10.5	11/13/89	<1	NA	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA
C-1	15.5	11/13/89	<1	NA	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA
C-1	25.5	11/13/89	<1	NA	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA
C-2	10.5	11/13/89	<1	NA	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA
C-2	15.5	11/13/89	<1	NA	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA
C-2	25.5	11/13/89	<1	NA	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA
C-3	10.5	11/13/89	<1	<10	<0.05	<0.05	<0.05	<0.05	NA	<10	<20	16	1.0	39	NA	NA
C-3	15.5	11/13/89	<1	<10	<0.05	<0.05	<0.05	<0.05	NA	<10	<20	12	0.6	60	NA	NA
C-3	25.5	11/13/89	<1	<10	<0.05	<0.05	<0.05	<0.05	NA	10	<20	27	1.4	74	NA	NA
CX-1-9	9.0	7/22/98	<1.0	NA	0.013	0.0058	0.044	0.067	0.46	5.1	NA	NA	NA	NA	NA	NA
CX-2-9	9.0	7/22/98	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	0.28	6.8	NA	NA	NA	NA	NA	NA
CX-3-9	9.0	7/22/98	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	0.21	5.1	NA	NA	NA	NA	NA	NA
CX-4-9	9.0	7/22/98	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	0.74	3.3	NA	NA	NA	NA	NA	NA
CX-5-9	9.0	7/22/98	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	6.4	NA	NA	NA	NA	NA	NA
CX-6-9	9.0	7/22/98	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	0.31	6.2	NA	NA	NA	NA	NA	NA
CT-1-3.5	3.5	7/27/98	<1.0	NA	<0.0050	<0.0050	<0.0050	0.012	<0.050	<1.0	NA	NA	NA	NA	NA	NA
CT-2-3.5	3.5	7/27/98	<1.0	NA	<0.0050	<0.0050	<0.0050	0.0057	<0.050	2.8	NA	NA	NA	NA	NA	NA
CT-3-4	4.0	7/27/98	<1.0	NA	<0.0050	<0.0050	<0.0050	0.0057	<0.050	1.0	NA	NA	NA	NA	NA	NA
CT-4-4	4.0	7/27/98	<1.0	NA	<0.0050	<0.0050	<0.0050	0.0057	<0.050	<1.0	NA	NA	NA	NA	NA	NA
CT-5-4	4.0	7/27/98	<1.0	NA	<0.0050	<0.0050	<0.0050	0.0057	<0.050	<1.0	NA	NA	NA	NA	NA	NA
CT-1-9	9.0	7/27/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10
CT-2-9	9.0	7/27/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10

Table 1
 Historical Soil Chemical Analytical Results
 Chevron Service Station No. 9-0338
 5500 Telegraph Avenue
 Oakland, California

Sample ID	Sample Depth (feet)	Sample Date	TPHg (ppm)	TPHd (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)	MtBE (ppm)	Lead (ppm)	TOG (ppm)	Chromium (ppm)	Cadmium (ppm)	Zinc (ppm)	Nickel (ppm)	TPHho (ppm)
CT-3-9	9.0	7/27/98	1.6	2,000	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<1.0	2,600	24	<0.50	47	23	2,800
CW-1-9	9.0	7/22/98	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<1.0	130	29.1	<0.50	35.2	18.9	NA
C4-6	6.0	5/12/99	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	NA	NA	NA	NA	NA	NA	NA
C4-11	11.0	5/12/99	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	NA	NA	NA	NA	NA	NA	NA
C5-6	6.0	5/12/99	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	NA	NA	NA	NA	NA	NA	NA
C5-11	11.0	5/12/99	1.3	NA	0.017	<0.0050	<0.0050	0.012	0.1	NA	NA	NA	NA	NA	NA	NA

EXPLANATIONS

NA = Not Analyzed
 ppm = parts per million
 TPHg = Total Petroleum Hydrocarbons as gasoline
 TPHd = Total Petroleum Hydrocarbons as diesel
 TOG = Total Oil and Grease
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 MtBE = Methyl tert-butyl ether
 TPHho = Total Petroleum Hydrocarbons as hydraulic oil

Table 2
 Soil Chemical Analytical Results
 Chevron Service Station No. 9-0338
 5500 Telegraph Avenue
 Oakland, California

Sample ID	Sample Depth (feet)	Sample Date	TPHg (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)	MtBE (ppm)
HA1-11.5	11.5	8/12/02	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050
HA2-12.0	12.0	8/12/02	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050
HA3-11.0	11.0	8/13/02	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050
HA4-11.0	11.0	8/13/02	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050

Explanation

ppm = parts per million
 MtBE = Methyl-tert Butyl Ether
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 TPHg = Total Petroleum Hydrocarbons as gasoline

Analytical Laboratory

Lancaster Laboratories (ELAP# 2116)

Analytical Methods

TPHg by LUFT Methods
 BTEX/MtBE by EPA 8021B

Table 3
 Groundwater Chemical Analytical Results
 Chevron Service Station No. 9-0338
 5500 Telegraph Avenue
 Oakland, California

Sample ID	Sample Date	TPHg (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	ETBE (ppb)	DIPE (ppb)	TAME (ppb)	TBA (ppb)
HA1-W	8/13/02	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5	<0.5	<0.5	<0.5	<5.0
HA2-W	8/12/02	<50	<0.50	<0.50	<0.50	<1.5	40/37	<0.5	<0.5	<0.5	<5.0
HA3-W	8/13/02	<50	<0.50	<0.50	<0.50	<1.5	3.9/4.0	<0.5	<0.5	<0.5	<5.0
HA4-W	8/13/02	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5	<0.5	<0.5	<0.5	<5.0

Explanation

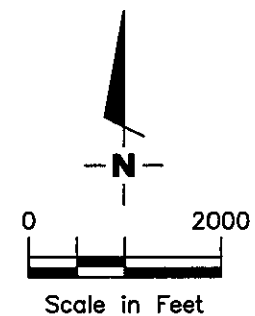
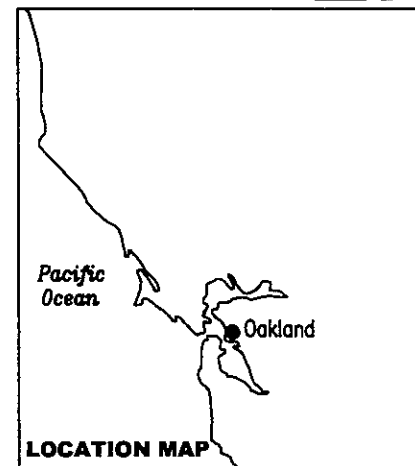
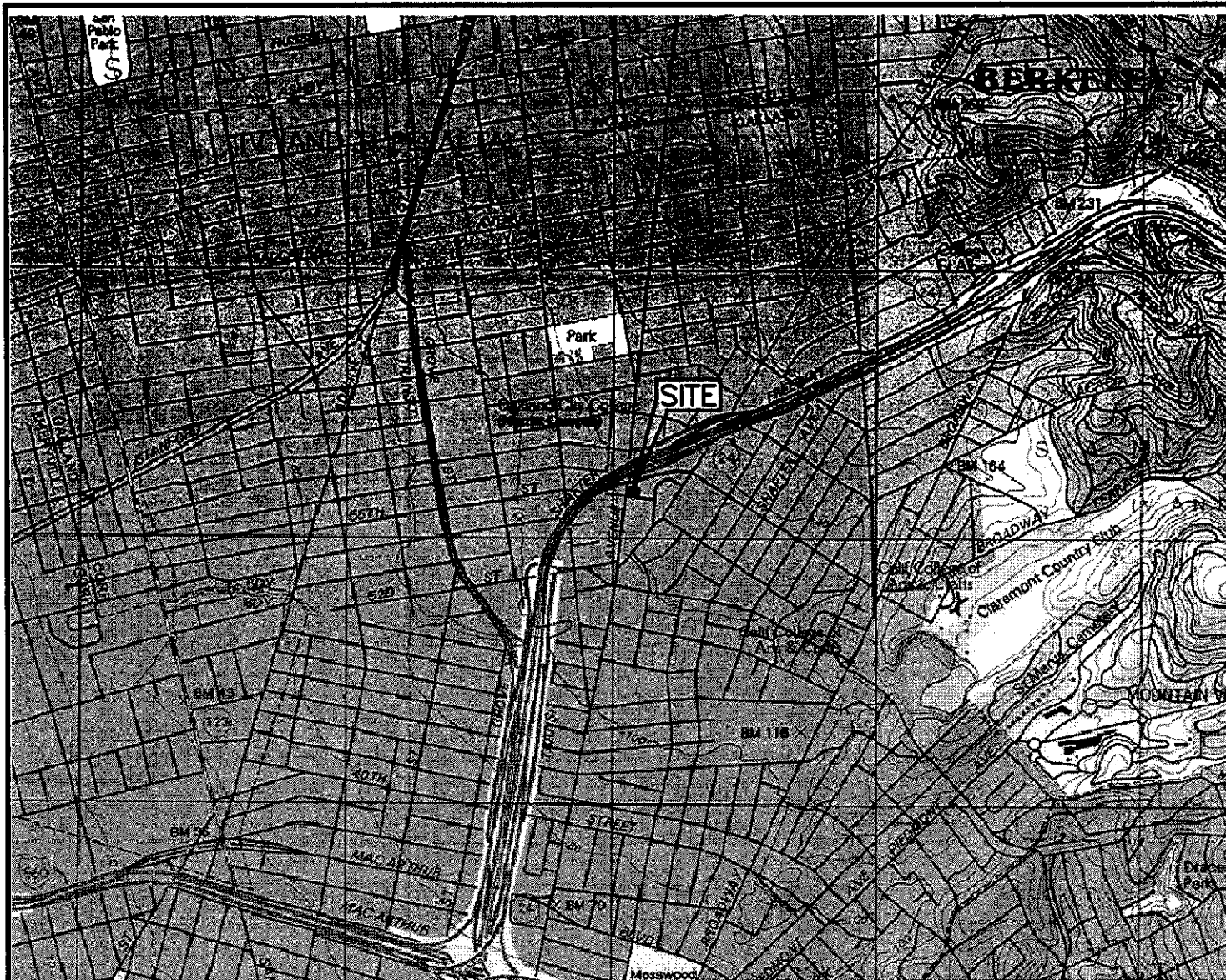
ppb = parts per billion
 TPHg = Total Petroleum Hydrocarbons as gasoline
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 MtBE = Methyl-tert butyl ether
 ETBE = Ethyl tert-butyl ether
 DIPE = Di-isopropyl ether
 TAME = Tert-amyl methyl ether
 TBA = Tert-butyl alcohol

Analytical Laboratory

Lancaster Laboratories (ELAP# 2116)

Analytical Methods

TPHg by DHS LUFT Methods
 BTEX by EPA Method 8021B
 ETBE/DIPE/TAME/TBA by EPA Method 8260B
 MtBE by EPA Method 8021B/MtBE by EPA Method 8260B



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

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VICINITY MAP
 Chevron Service Station No. 9-0338
 5500 Telegraph Avenue
 Oakland, California

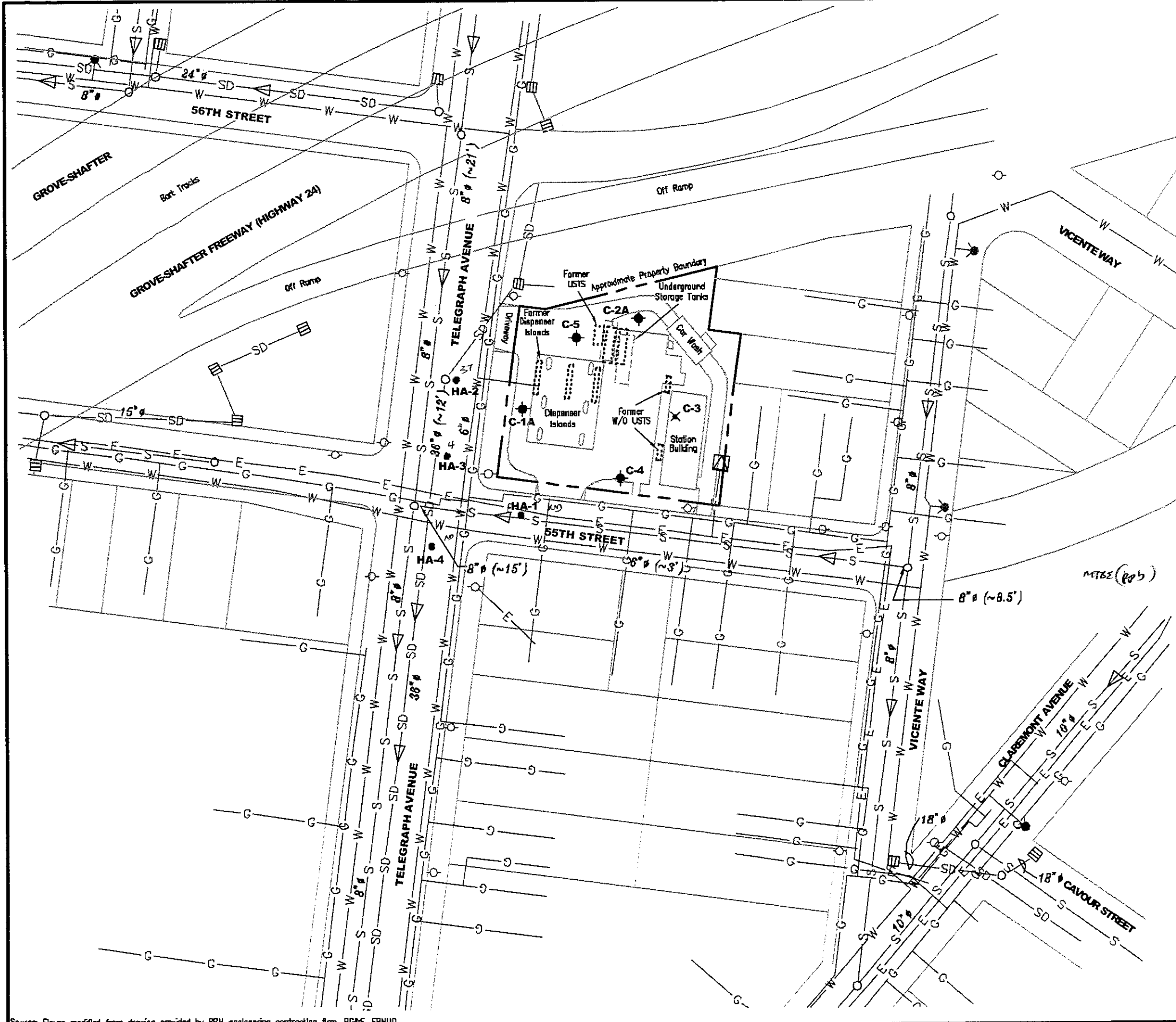
FIGURE
1

PROJECT NUMBER
 DG90338B.3C01

REVIEWED BY

DATE
 7/01

REVISED DATE



EXPLANATION

- ◆ Groundwater monitoring well
- ✕ Destroyed groundwater monitoring well
- Hand-augered soil boring
- ▣ Storm drain
- ⊙ Fire Hydrant
- ⊠ Electrical transformer
- Power pole
- ◇ Manhole
- ▽ Flow direction
- 8" # Pipe diameter
- (~6') Approximate pipe depth

UNDERGROUND UTILITIES

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

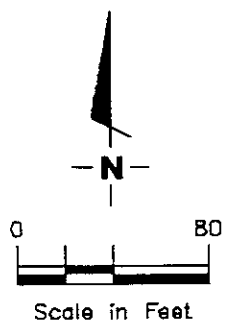


FIGURE 2

EXTENDED SITE PLAN
 Chevron Service Station No. 9-0338
 5500 Telegraph Avenue
 Oakland, California

GETTLER - RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94588
 (925) 551-7555

PROJECT NUMBER: DG90338H.4C01
 FILE NAME: P:\EMIRO\CHEVRON\9-0338\A01-9-0338.DWG | Layout Tab: Boring Rpt 8-02
 REVIEWED BY: [Signature]
 DATE: 8/02
 REVISED DATE: [Blank]

Source: Plans modified from drawing provided by BRH engineering consulting firm, PC&E, EBNUD.

GETTLER-RYAN INC.

FIELD METHODS AND PROCEDURES HAND-AUGERED BORINGS

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

Hand-augered soil borings are drilled by a California-licensed well driller. A GR geologist is present to observe the drilling, collect soil samples for description and chemical analysis, and prepare a log the exploratory soil boring. Soil samples are collected from the boring with a hand-driven sampling device fitted with a 2-inch diameter, clean brass tube or stainless steel liner. After removal from the sampling device, soil samples are covered on both ends with Teflon sheeting, capped, labeled, and place in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory.

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 placing a small amount of the soil to be screened in a sealed plastic bag. The bag is warmed in the sun to allow organic compounds in the soil sample to volatilize. The PID probe is inserted through the wall of the bag and into the headspace inside, and the meter reading is recorded in the field notes. Head-space screening is performed and results recorded as reconnaissance data only. GR does not consider field screening techniques to be verification of the presence or absence of hydrocarbons.

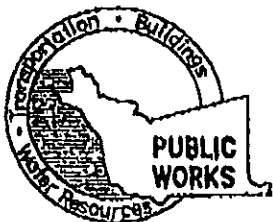
Grab Groundwater Sampling

Grab samples of groundwater are collected from the boring using a bailer. The groundwater sample is decanted into laboratory-supplied containers appropriate for the anticipated analyses. Sample bottles are then labeled and placed in chilled storage for transport to the analytical laboratory. A chain-of-custody form is initiated in the field and accompanies the groundwater samples to the analytical laboratory.

Storing and Sampling of Soil Stockpiles

Excavated material is stockpiled on and covered with plastic sheeting. Stockpile samples are collected and analyzed for disposal classification on the basis of one composite sample per 100 cubic yards of soil. Stockpile samples are composed of four discrete soil samples, each collected from an arbitrary location on the stockpile. The four discrete samples are then composited in the laboratory prior to analysis.

Each discrete stockpile sample is collected by removing the upper 12 to 18 inches of soil, and then driving the stainless steel or brass sample tube into the stockpiled material with a mallet or drive sampler. The sample tubes are then covered on both ends with Teflon sheeting, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Stockpiled soils are covered with plastic sheeting after completion of sampling.



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 5500 Telegraph Ave,
Oakland

Chevron service station 9-0338

CLIENT Name Chevron Products Company
Address P.O. Box 6004 Phone (925) 842-1584
City SUN RAMON Zip 94583

APPLICANT Name Gettler-Ryan INC
Address 3140 Gold Camp Dr. Ste 170 Phone (916) 631-1300
City Kawcha, Nevada Zip 89670

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input checked="" type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input checked="" type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	Hand Auger	

DRILLER'S NAME Gettler-Ryan INC

DRILLER'S LICENSE NO. 1-57 220793

WELL PROJECTS

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

GEOTECHNICAL PROJECTS

Number of Borings	<u>4</u>	Maximum	_____ ft.
Hole Diameter	<u>3.5</u> in.	Depth	<u>12</u> ft.

ESTIMATED STARTING DATE 8/17/02
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 [Signature] DATE 7/24/02

FOR OFFICE USE

PERMIT NUMBER W02-0802
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.

Check with City of Oakland to see if excavation permit is req'd

APPROVED [Signature] DATE 8/9/02

Provide clearer site map within

Job Site 5500 TELEGRAPH AV

Parcel#

Appl# X0200636

Descr BORING FOR SOIL & WATER SAMPLING ADJACENT TO ABOVE ADDRESS Permit Issued 06/21/02
(SEE ATTACHED PLAN FOR LOCATIONS)

Work Type EXCAVATION-PRIVATE P

USA #

Util Co. Job #
Util Fund #:

Acctg#:

Applcmt Phone# Lic# --License Classes--

Owner

Contractor GETTLER RYAN INC

X

(510)551-7555 220793 B C61 A C57 C10

Arch/Engr

Agent

Applic Addr 6747 SIERRA CT, DUBLIN CA, 94568

\$250.00 TOTAL FEES PAID AT ISSUANCE
\$45.00 Applic \$205.00 Permit
\$.00 Process \$.00 Rec Mgmt
\$.00 Gen Plan \$.00 Invstg
\$.00 Other

ADDRESS:

DIST:



EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL
ENGINEERING

PAGE 2 of 2

1007th 95th St.

PERMIT NUMBER X0200636		SITE ADDRESS/LOCATION 5500 Telegraph Ave
APPROX. START DATE 7/31/02	APPROX. END DATE 7/31/02	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number) (916)631-1300
CONTRACTOR'S LICENSE # AND CLASS C-57 220793		CITY BUSINESS TAX #

ATTENTION:

- 1- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # **332031**
- 2- 48 hours prior to starting work, you **MUST CALL** (510) 238-3651 to schedule an inspection. **+ 332036**
- 3- 48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than \$500):

- I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).
- I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).
- I, as owner of the property, am exclusively contracting with licensed contractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).
- I am exempt under Sec. _____, B&PC for this reason _____.

WORKER'S COMPENSATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # _____ Company Name _____

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars (\$100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

[Signature] _____ Date **6/21/02**
 Signature of Permittee Agent for Contractor Owner

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
ISSUED BY <i>[Signature]</i>	DATE ISSUED 6/21/02		

Job Site 5500 TELEGRAPH AV Parcel# Appl# X0200637

Descr BORING FOR SOIL & WATER SAMPLING ADJACENT TO ABOVE ADDRESS Permit Issued 06/21/02
(SEE ATTACHED PLAN FOR LOCATIONS)

Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # Acctg#:
Util Fund #:

Owner
Contractor GETTLER RYAN INC X (510)551-7555 220793 B C61 A C57 C10
Arch/Engr
Agent
Applic Addr 6747 SIERRA CT, DUBLIN CA, 94568

Applent Phone# Lic# --License Classes--

\$250.00 TOTAL FEES PAID AT ISSUANCE
\$45.00 Applic \$205.00 Permit
\$.00 Process \$.00 Rec Mgmt
\$.00 Gen Plan \$.00 Invstg
\$.00 Other

ADDRESS:

DIST:



EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERING

PAGE 2 of 2

SOULTH OF 55'

PERMIT NUMBER X 0 2 0 0637		SITE ADDRESS/LOCATION 5500 Telegraph Ave
APPROX. START DATE 7/31/02	APPROX. END DATE 7/31/02	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number) (916) 631-1300
CONTRACTOR'S LICENSE # AND CLASS (-57 220 793)		CITY BUSINESS TAX #

ATTENTION:

- 1- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # **332 014**
- 2- 48 hours prior to starting work, you **MUST CALL (510) 238-3651** to schedule an inspection.
- 3- 48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).

OWNER/BUILDER

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- I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).
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- I am exempt under Sec. _____, B&PC for this reason _____

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NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

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Signature of Permittee *[Signature]* Agent for Contractor Owner Date **6/21/02**

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
ISSUED BY <i>[Signature]</i>		DATE ISSUED 6/21/02	

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(SEE ATTACHED PLAN FOR LOCATIONS)

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USA # Util Co. Job # Acctg#:
Util Fund #:

Owner
Contractor GETTLER RYAN INC X (510)551-7555 220793 B C61 A C57 C10
Arch/Engr
Agent
Applic Addr 6747 SIERRA CT, DUBLIN CA, 94568

Applcnt Phone# Lic# --License Classes--

\$250.00 TOTAL FEES PAID AT ISSUANCE
\$45.00 Applic \$205.00 Permit
\$.00 Process \$.00 Rec Mgmt
\$.00 Gen Plan \$.00 Invstg
\$.00 Other

ADDRESS:

DIST:



EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERING

PAGE 2 of 2

e/o RECEIPT

PERMIT NUMBER X 0 2 0 0 6 9 8		SITE ADDRESS/LOCATION 5500 Telegraph Ave
APPROX. START DATE 7/31/02	APPROX. END DATE 7/31/02	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number) (916) 631-1300
CONTRACTOR'S LICENSE # AND CLASS C57 220793		CITY BUSINESS TAX #

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[Signature]
 Signature of Permittee Agent for Contractor Owner Date **6/2/02**

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
ISSUED BY		DATE ISSUED	

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

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

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



GETTLER - RYAN INC.

6747 Sierra Ct., Suite J
Dublin, CA 94568

(925) 551-7555

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

Gettler-Ryan, Inc.

Log of Boring HA-1

PROJECT: *Chevron Service Station No. 9-0338*

LOCATION: *5500 Telegraph Avenue, Oakland, California*

PROJECT NO.: *DG90338H.4C01*

SURFACE ELEVATION:

DATE STARTED: *08/12/02*

WL (ft. bgs): *16.0* DATE: *08/13/02* TIME: *07:52*

DATE FINISHED: *08/12/02*

WL (ft. bgs): DATE: TIME:

DRILLING METHOD: *3 1/2 in. Hand Auger*

TOTAL DEPTH: *18 feet*

DRILLING COMPANY: *Gettler-Ryan*

GEOLOGIST: *Geoffrey Risse*

DEPTH (feet)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
					Asphalt - 6 inches thick.	Boring backfilled with pea gravel to 6 inch below ground surface, then finish to surface grade with concrete.
					Base rock - 1.5 feet thick.	
3				CL	CLAY (CL) - black (6LEY 2.5/N), moist, low plasticity; 80% clay, 10% silt, 10% fine sand.	
6					CLAY WITH SAND (CL) - light brown (7.5YR 6/4), dry, low plasticity; 80% clay, 20% fine sand.	
9					CLAY WITH GRAVEL (CL) - light brown (7.5YR 6/4), dry; 80% clay, 15% fine gravel, 5% fine sand.	
12	HA1-11.5				CLAY (CL) - light brown (7.5YR 6/4), moist; 80% clay, 10% silt, 10% fine gravel.	
15					▽	
18	HA1-W				Bottom of boring at 18 feet bgs.	Grab groundwater sample HA1-W, taken at 18 feet bgs.
21						

Gettler-Ryan, Inc.

Log of Boring HA-2

PROJECT: *Chevron Service Station No. 9-0338*

LOCATION: *5500 Telegraph Avenue, Oakland, California*

PROJECT NO.: *DG90338H.4C01*

SURFACE ELEVATION:

DATE STARTED: *08/12/02*

WL (ft. bgs): *13.0* DATE: *08/12/02* TIME: *14:20*

DATE FINISHED: *08/12/02*

WL (ft. bgs): DATE: TIME:

DRILLING METHOD: *3 1/2 in. Hand Auger*

TOTAL DEPTH: *13.5 feet*

DRILLING COMPANY: *Gettler-Ryan*

GEOLOGIST: *Geoffrey Risse*

DEPTH (feet)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
					Asphalt - 6 inches thick. Base rock - 2.5 feet thick.	Boring backfilled with pea gravel to 6 inch below ground surface, then finish to surface grade with concrete.
3				CL	CLAY (CL) - black (GLEY 2.5/N), moist; 90% clay, 5% silt, 5% fine sand.	
6					Color changes to light brown (7.5YR 6/4), becomes dry; 80% clay, 10% silt, 10% fine sand.	
9					CLAY WITH SAND (CL) - greenish gray (5G 6/1), moist; 80% clay, 15% fine sand, 5% fine gravel.	
12	HA2-12.0				CLAY WITH GRAVEL (CL) - dark brown (7.5YR 3/4), moist; 80% clay, 20% fine gravel.	
	HA2-W			▽	Bottom of boring at 13.5 feet bgs.	Grab groundwater sample HA2-W, taken at 13.5 feet bgs.
15						
18						
21						

Gettler-Ryan, Inc.

Log of Boring HA-3

PROJECT: *Chevron Service Station No. 9-0338*

LOCATION: *5500 Telegraph Avenue, Oakland, California*

PROJECT NO.: *DG90338H.4C01*

SURFACE ELEVATION:

DATE STARTED: *08/12/02*

WL (ft. bgs): *13.0* DATE: *08/13/02* TIME: *10:42*

DATE FINISHED: *08/13/02*

WL (ft. bgs): DATE: TIME:

DRILLING METHOD: *3 1/2 in. Hand Auger*

TOTAL DEPTH: *13.5 feet*

DRILLING COMPANY: *Gettler-Ryan*

GEOLOGIST: *Geoffrey Risse*

DEPTH (feet)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
					Asphalt - 6 inches thick.	Boring backfilled with pea gravel to 6 inch below ground surface, then finish to surface grade with concrete.
					Base rock - 2.5 feet thick.	
3				CL	CLAY (CL) - black (GLEY 2.5/N), moist, low plasticity; 95% clay, 5% fine sand.	
6					Color changes to dark brown (7.5YR 3/4), becomes dry; 90% clay, 10% fine sand.	
9					CLAY WITH SAND (CL) - greenish gray (5G 6/1), moist, low plasticity; 15% fine to medium sand, 5% silt.	
12	HA3-11				CLAY (CL) - dark brown (7.5YR 3/4), moist; 80% clay, 10% fine gravel, 10% fine sand.	
13.5	HA3-W			▽	Bottom of boring at 13.5 feet bgs.	Grab groundwater sample HA3-W, taken at 13.5 feet bgs.
15						
18						
21						

Gettler-Ryan, Inc.

Log of Boring HA-4

PROJECT: *Chevron Service Station No. 9-0338*

LOCATION: *5500 Telegraph Avenue, Oakland, California*

PROJECT NO.: *DG90338H.4C01*

SURFACE ELEVATION:

DATE STARTED: *08/13/02*

WL (ft. bgs): *11.0* DATE: *08/13/02* TIME: *12:00*

DATE FINISHED: *08/13/02*

WL (ft. bgs): DATE: TIME:

DRILLING METHOD: *3 1/2 in. Hand Auger*

TOTAL DEPTH: *11.5 feet*

DRILLING COMPANY: *Gettler-Ryan*

GEOLOGIST: *Geoffrey Risse*

DEPTH (feet)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
					Asphalt - 6 inches thick.	Boring backfilled with pea gravel to 6 inch below ground surface, then finish to surface grade with concrete.
					Base rock - 2 feet thick.	
3				CL	CLAY (CL) - bluish black (5PB 2.5/1), moist, low plasticity; 95% clay, 5% silt.	
6					CLAY WITH SAND (CL) - greenish gray (5G 6/1), moist; 80% clay, 15% fine sand, 5% fine gravel.	
9					CLAY (CL) - dark brown (7.5YR 3/4), saturated; 80% clay, 10% fine to coarse gravel, 10% fine to medium sand.	
12	HA4-11 HA4-W			▽	Bottom of boring at 11.5 feet bgs.	Grab groundwater sample HA4-W, taken at 11.5 feet bgs.
15						
18						
21						

CASE NARRATIVE

Prepared For:

Karen Streich
~~Bob Cochran~~

ChevronTexaco
6001 Bollinger Canyon Road L4310
San Ramon, CA 94583-0904

Prepared By:

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

SAMPLE GROUP

The sample group for this submittal is 819126. Samples arrived at the laboratory on Thursday, August 15, 2002.

METHODOLOGY

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

COMMENTS

The HA2 vials from Facility 90338 submitted for the Oxygenates analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.



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 819126. Samples arrived at the laboratory on Thursday, August 15, 2002. The PO# for this group is 99011184 and the release number is STREICH.

<u>Client Description</u>		<u>Lancaster Labs Number</u>
HA1-S-11.5-020812	Grab Soil	3879949
HA2-W-020812	Grab Water	3879950
HA1-W-020813	Grab Water	3879951
HA2-S-12.0-020812	Grab Soil	3879952
HA3-S-11.0-020813	Grab Soil	3879953
HA3-W-020813	Grab Water	3879954
HA4-S-11.0-020813	Grab Soil	3879955
HA4-W-020813	Grab Water	3879956

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,

Robert E. Mellinger
Sr Chemist/Coordinator



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



Lancaster Laboratories Sample No. SW 3879949

Collected: 08/12/2002 10:10 by GDR

Account Number: 10992

Submitted: 08/15/2002 09:15
 Reported: 08/22/2002 at 20:18
 Discard: 08/30/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

HA1-S-11.5-020812 Grab Soil GRRC
 Facility# 90338
 5500 Telegraph Av-Oakland T0600100307 HA-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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		Analyst	Dilution Factor
				Date	Time		
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	08/16/2002	20:55	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	08/16/2002	20:55	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	08/16/2002	09:16	Steven A Skiles	n.a.



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 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. **WW 3879950**

Collected: 08/12/2002 14:23 by GDR

Account Number: 10992

Submitted: 08/15/2002 09:15
 Reported: 08/22/2002 at 20:18
 Discard: 08/30/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

HA2-W-020812 Grab Water GRRC
 Facility# 90338
 5500 Telegraph Av-Oakland T0600100307 HA-2

HA2--

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	40.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	37.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 4.						

State of California Lab Certification No. 2116

Laboratory Chronicle



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



Lancaster Laboratories Sample No. **WW 3879950**

Collected: 08/12/2002 14:23 by GDR

Account Number: 10992

Submitted: 08/15/2002 09:15

Reported: 08/22/2002 at 20:18

Discard: 08/30/2002

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

HA2-W-020812 Grab Water

Facility# 90338

GRRC

5500 Telegraph Av-Oakland T0600100307 HA-2

HA2--

CAT	No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
				Trial#	Date and Time		
	01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	08/17/2002 00:22	Melissa D Mann	1
	02159	BTEX, MTBE	SW-846 8021B	1	08/17/2002 00:22	Melissa D Mann	1
	01595	Oxygenates by 8260B	SW-846 8260B	1	08/20/2002 05:55	Kenneth L Boley Jr	1
	01146	GC VOA Water Prep	SW-846 5030B	1	08/17/2002 00:22	Melissa D Mann	n.a.
	01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/20/2002 05:55	Kenneth L Boley Jr	n.a.



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2425 New Holland Pike
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717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. **WW 3879951**

Collected: 08/13/2002 07:52 by GDR

Account Number: 10992

Submitted: 08/15/2002 09:15
 Reported: 08/22/2002 at 20:18
 Discard: 08/30/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

HA1-W-020813 Grab Water GRRC
 Facility# 90338
 5500 Telegraph Av-Oakland T0600100307 HA-1

HA1--

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01729	TPH-GRO - Waters	N. CA LUFT Gasoline	1	08/17/2002 00:58		Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	08/17/2002 00:58		Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	08/20/2002 06:21		Kenneth L Boley Jr	1



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Lancaster Laboratories Sample No. WW 3879951

Collected: 08/13/2002 07:52 by GDR

Account Number: 10992

Submitted: 08/15/2002 09:15
Reported: 08/22/2002 at 20:18
Discard: 08/30/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

HA1-W-020813 Grab Water
Facility# 90338
5500 Telegraph Av-Oakland T0600100307 HA-1

GRRC

HA1--							
01146	GC VOA Water Prep	SW-846 5030B	1	08/17/2002 00:58	Melissa D Mann	n.a.	
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/20/2002 06:21	Kenneth L Boley Jr	n.a.	





Lancaster Laboratories Sample No. SW 3879952

Collected: 08/12/2002 13:21 by GDR

Account Number: 10992

Submitted: 08/15/2002 09:15
 Reported: 08/22/2002 at 20:19
 Discard: 08/30/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

HA2-S-12.0-020812 Grab Soil GRRC
 Facility# 90338
 5500 Telegraph Av-Oakland T0600100307 HA-2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	08/16/2002 21:32	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	08/16/2002 21:32	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	08/16/2002 09:17	Steven A Skiles	n.a.



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 2425 New Holland Pike
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Lancaster Laboratories Sample No. SW 3879953

Collected: 08/13/2002 09:57 by GDR

Account Number: 10992

Submitted: 08/15/2002 09:15
 Reported: 08/22/2002 at 20:19
 Discard: 08/30/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

HA3-S-11.0-020813 Grab Soil
 Facility# 90338
 5500 Telegraph Av-Oakland T0600100307 HA-3

GRRC

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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		Analyst	Dilution Factor
				Date	Time		
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	08/16/2002	22:10	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	08/16/2002	22:10	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	08/16/2002	09:18	Steven A Skiles	n.a.



Lancaster Laboratories, Inc.
 2425 New Holland Pike
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Lancaster Laboratories Sample No. WW 3879954

Collected: 08/13/2002 10:42 by GDR

Account Number: 10992

Submitted: 08/15/2002 09:15
 Reported: 08/22/2002 at 20:19
 Discard: 08/30/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

HA3-W-020813 Grab Water
 Facility# 90338 GRRC
 5500 Telegraph Av-Oakland T0600100307 HA-3

HA3--

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	3.9	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	4.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Analyst	Dilution Factor
			Trial#	Date and Time			
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	08/17/2002 01:33		Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	08/17/2002 01:33		Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	08/20/2002 06:47		Kenneth L Boley Jr	1



Lancaster Laboratories Sample No. WW 3879954

Collected: 08/13/2002 10:42 by GDR

Account Number: 10992

Submitted: 08/15/2002 09:15

Reported: 08/22/2002 at 20:19

Discard: 08/30/2002

HA3-W-020813

Grab Water

Facility# 90338

5500 Telegraph Av-Oakland T0600100307 HA-3

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

GRRC

HA3--

01146 GC VOA Water Prep

SW-846 5030B

1

08/17/2002 01:33

Melissa D Mann

n.a.

01163 GC/MS VOA Water Prep

SW-846 5030B

1

08/20/2002 06:47

Kenneth L Boley Jr

n.a.



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



Lancaster Laboratories Sample No. SW 3879955

Collected: 08/13/2002 11:45 by GDR

Account Number: 10992

Submitted: 08/15/2002 09:15
 Reported: 08/22/2002 at 20:19
 Discard: 08/30/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

HA4-S-11.0-020813 Grab Soil GRRC
 Facility# 90338
 5500 Telegraph Av-Oakland T0600100307 HA-4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	08/16/2002 22:48	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	08/16/2002 22:48	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	08/16/2002 09:19	Steven A Skiles	n.a.



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



Lancaster Laboratories Sample No. WW 3879956

Collected: 08/13/2002 12:07 by GDR

Account Number: 10992

Submitted: 08/15/2002 09:15
 Reported: 08/22/2002 at 20:19
 Discard: 08/30/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

HA4-W-020813 Grab Water GRRC
 Facility# 90338
 5500 Telegraph Av-Oakland T0600100307 HA-4

HA4--

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	0.7	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	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	08/17/2002 02:09	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	08/17/2002 02:09	Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	08/20/2002 07:13	Kenneth L Boley Jr	1



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Lancaster Laboratories Sample No. WW 3879956

Collected: 08/13/2002 12:07 by GDR

Account Number: 10992

Submitted: 08/15/2002 09:15

Reported: 08/22/2002 at 20:19

Discard: 08/30/2002

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

HA4-W-020813 Grab Water

Facility# 90338

GRRC

5500 Telegraph Av-Oakland T0600100307 HA-4

HA4--

01146	GC VOA Water Prep	SW-846 5030B	1	08/17/2002 02:09	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/20/2002 07:13	Kenneth L Boley Jr	n.a.





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Quality Control Summary

Client Name: ChevronTexaco
Reported: 08/22/02 at 08:19 PM

Group Number: 819126

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 02228A34A	Sample number(s): 3879949,3879952-3879953,3879955							
TPH-GRO - Soils	N.D.	1.	mg/kg	89		69-112		
Benzene	N.D.	.005	mg/kg	102		93-123		
Toluene	N.D.	.005	mg/kg	104		93-122		
Ethylbenzene	N.D.	.005	mg/kg	104		87-127		
Total Xylenes	N.D.	.015	mg/kg	103		88-120		
MTBE	N.D.	.05	mg/kg	101		80-132		
Batch number: 02228A56A	Sample number(s): 3879950-3879951,3879954,3879956							
TPH-GRO - Waters	N.D.	50.	ug/l	90	90	74-116	0	30
Benzene	N.D.	.5	ug/l	99	95	80-118	4	30
Toluene	N.D.	.5	ug/l	107	103	82-119	4	30
Ethylbenzene	N.D.	.5	ug/l	106	102	81-119	4	30
Total Xylenes	N.D.	1.5	ug/l	108	104	82-120	4	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	103	99	79-127	4	30
Batch number: N022282AB	Sample number(s): 3879950-3879951,3879954,3879956							
Methyl t-butyl ether	N.D.	.5	ug/l	101		77-127		
di-Isopropyl ether	N.D.	.5	ug/l	104		74-125		
Ethyl t-butyl ether	N.D.	.5	ug/l	95		74-120		
t-Amyl methyl ether	N.D.	.5	ug/l	95		71-114		
t-Butyl alcohol	N.D.	5.	ug/l	95		59-139		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	BKG MAX	DUP CONC	DUP RPD	Dup RPD Max
Batch number: 02228A34A	Sample number(s): 3879949,3879952-3879953,3879955							
TPH-GRO - Soils	85	89	42-105	4	30			
Benzene	94	95	62-153	2	30			
Toluene	91	92	66-111	1	30			
Ethylbenzene	102	105	66-131	3	30			
Total Xylenes	95	98	62-120	3	30			
MTBE	102	102	43-186	0	30			
Batch number: 02228A56A	Sample number(s): 3879950-3879951,3879954,3879956							
TPH-GRO - Waters	99		74-132					
Benzene	103		83-130					
Toluene	106		87-129					
Ethylbenzene	111		86-133					
Total Xylenes	112		86-132					
Methyl tert-Butyl Ether	109		66-140					
Batch number: N022282AB	Sample number(s): 3879950-3879951,3879954,3879956							
Methyl t-butyl ether	103	103	69-134	0	30			
di-Isopropyl ether	107	105	68-133	2	30			
Ethyl t-butyl ether	94	96	73-123	2	30			
t-Amyl methyl ether	95	95	69-118	0	30			
t-Butyl alcohol	97	96	51-148	1	30			

Surrogate Quality Control

*- 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: 08/22/02 at 08:19 PM

Group Number: 819126

Surrogate Quality Control

Analysis Name: TPH-GRO - Soils

Batch number: 02228A34A

	Trifluorotoluene-F	Trifluorotoluene-P
3879949	90	96
3879952	84	98
3879953	88	102
3879955	88	101
Blank	96	103
LCS	108	99
MS	109	105
MSD	106	102

Limits: 58-118 68-122

Analysis Name: TPH-GRO - Waters

Batch number: 02228A56A

	Trifluorotoluene-F	Trifluorotoluene-P
3879950	84	94
3879951	84	95
3879954	83	95
3879956	84	94
Blank	86	95
LCS	94	94
LCSD	94	94
MS	94	97

Limits: 57-146 71-130

Analysis Name: Oxygenates by 8260B

Batch number: N022282AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3879950	102	96	97	93
3879951	104	96	97	94
3879954	104	95	98	94
3879956	103	95	98	93
Blank	102	94	98	95
LCS	97	96	101	99
MS	101	95	98	101
MSD	100	98	98	102

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



819126

Acct. #: 10992 For Lancaster Laboratories use only
 Sample #: 3879945-56 SCR#: _____

Facility #: <u>9-0338 (Global ID# T0600100307)</u> Site Address: <u>5500 Telegraph Avenue, Oakland</u> Chevron PM: <u>Karen Streich</u> Lead Consultant: Consultant/Office: <u>Gettler-Ryan Inc.</u> Consultant Prj. Mgr.: <u>Geoffrey V. Risse</u> Consultant Phone #: <u>(916) 631-1300</u> Fax #: <u>(916) 631-1317</u> Sampler: <u>Geoffrey V. Risse</u> Service Order #: _____ <input type="checkbox"/> Non SAR:				Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>		Analyses Requested Preservation Codes Total Number of Containers BTEX + MTBE 8260 <input type="checkbox"/> 8021 <input checked="" type="checkbox"/> TPH 8015 MOD GRO TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup 8260 full scan 8260 Oxygenates <input checked="" type="checkbox"/> Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits				
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	8260 Oxygenates	Lead 7420	7421	Comments / Remarks	
HA1-11.5	8/12/02	1010	✓		✓					✓	✓									
HA2-W	8/12/02	1423	✓			✓				✓	✓									
HA1-W	8/13/02	0752	✓			✓				✓	✓									
HA2-12.0	8/12/02	1321	✓		✓					✓	✓									
HA3-11.0	8/13/02	0957	✓		✓					✓	✓									
HA3-W	8/13/02	1042	✓			✓				✓	✓									
HA4-11	8/13/02	1145	✓		✓					✓	✓									
HA4-W	8/13/02	1207	✓			✓				✓	✓									

Turnaround Time Requested (TAT) (please circle) STD. TAT 72 hour 48 hour 24 hour 4 day 5 day			Relinquished by: <u>Geoffrey V. Risse</u> Date: <u>8/14/02</u> Time: <u>0800</u>		Received by: _____ Date: _____ Time: _____	
Data Package Options (please circle if required) QC Summary Type I — Full Type VI (Raw Data) <input type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) <input checked="" type="checkbox"/> Disk			Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____	
Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx Other: _____			Relinquished by Commercial Carrier: _____ Date: _____ Time: _____		Received by: <u>Devin [Signature]</u> Date: <u>8/15/02</u> Time: <u>0915</u>	
Temperature Upon Receipt <u>4.0 °C</u>			Custody Seals Intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		_____ Date: _____ Time: _____	