RO-195

GETTLER-RYAN INC.

SEP 13 2001

TRANSMITTAL

TO: Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 95627

DATE: September 7, 2001
PROJ. #: DG90290C.4C02
SUBJECT: Chevron Service Station #9-0290
1802 Webster Street
Alameda, California

FROM:
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Staff Geologist
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Ms. Eva Chu, Alameda County Health Care Services, Department of Environmental Health, 1131 Harbor Bay Parkway Way, Ste. 250, Alameda, CA 94502

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SEP 13 2001

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LIMITED SUBSURFACE INVESTIGATION REPORT

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

Delta Project No. DG90290C.4C02

Prepared for:

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LIMITED SUBSURFACE INVESTIGATION REPORT

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

Delta Report No. 90290C.4C02

INTRODUCTION

This report presents the results of a limited subsurface investigation performed by Delta Environmental Consultants Inc. network associate Gettler-Ryan Inc. (GR) at the above referenced site. The work was performed at the request of Alameda County Environmental Health Services (ACEHS) in a letter dated August 1, 2000. The scope of work performed during this investigation was originally proposed in GR report #345280.02-1, *Workplan for a Limited Subsurface Investigation*, dated February 1, 2001. The purpose of this work is to delineate the extent of the plume to the north of the site and to evaluate if utility trenches in the site vicinity are acting as preferential pathways for hydrocarbon migration. The scope of work performed included: updating the site safety plan; obtaining drilling permits from the Alameda County Public Works Agency (ACPWA) and encroachment permits from the California Department of Transportation (Caltrans) and the City of Alameda; hand augering eleven soil borings; collecting soil samples and grab groundwater samples from the soil borings; performing a well survey; analyzing selected soil and groundwater samples; and preparing a report documenting the work performed.

SITE DESCRIPTION

The subject site is an operating service station located at the northeastern corner of the intersection of Webster Street and Buena Vista Avenue in Alameda, California (Figure 1). Site topography is flat at the elevation of approximately 12 feet above mean sea level. Four 10,000 gallon gasoline underground storage tanks (USTs) are located in a common pit in the southwestern portion of the site. A waste oil UST is located south of the station building. Two former waste oil USTs were located near the southeastern corner of the gasoline UST pit. Pertinent site features are shown on Figure 3.

The site vicinity is used for residential, commercial, and transportation purposes. The subject site is bounded to the east by an apartment complex, to the north by a Jack In The Box restaurant, to the west by Webster Street, and to the south by Buena Vista Avenue. One of the residential buildings at the apartment complex is situated immediately southeast of the subject service station building. Another building is situated approximately 50 feet northeast of the northern site boundary. Single family houses and a 76 service station are located southeast and south of the site, respectively, across Buena Vista

Avenue. Commercial buildings (auto repair shop, Better Buy Liqueur Store, Fred's Wrenchhouse, KFC restaurant) and parking lots are located northwest, west, and southwest of the site, across Webster Street. The subject site vicinity is shown on Figure 3.

PREVIOUS ENVIRONMENTAL WORK

A hydrocarbon leak (approximately 50 gallons of gasoline) was documented at the subject site in 1981. Six groundwater monitoring wells (B-1 through B-6) were installed at the site in January 1982 by Kleinfelder & Associates to evaluate the extent of hydrocarbon impact to groundwater. Groundwater was encountered at a depth ranging from 3.5 to 4.5 feet below ground surface (bgs). No soil or groundwater samples were collected for laboratory analysis however, groundwater samples were analyzed for volatile hydrocarbons using a combustible gas meter. Hydrocarbons vapor concentrations were detected in wells B-1 through B-4 at concentrations ranging from 100 to >1,000 parts per million (ppm). The 10,000 gallon regular gasoline UST was removed from service after a hole was found near the tank fill pipe.

1982

In 1928, the UST system was replaced. A gauge stick hole was observed in the bottom of the regular gasoline UST. Samples were not collected. New gasoline, diesel and two waste oil USTs were installed. Two backfill monitoring wells (A-1 and A-2) were installed at the time of UST replacement. Monitoring well B-2 was destroyed to accommodate the new UST installation.

On September 19, 1991, approximately 1,400 gallons of diesel were accidentally pumped into tank backfill well A-1 during UST testing activities. Product removal commenced immediately. Approximately 1,600 gallons of separate-phase hydrocarbon (SPH) were removed from well A-1. Additional 346 gallons of SPH were removed during a SPH recovery program conducted by Pacific Environmental Group Inc. from September 1991 through July 1992. Laboratory analysis of the free product suggested that waste-oil must also have been inadvertently disposed of into well A-1. A groundwater sampling program was initiated in September 1991.

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

In April and May 1994, Touchstone Development collected samples during the removal of one 1,000 gallon waste oil UST, one 350 gallon waste oil UST, and fuel product lines. Hydrocarbons were detected in soil beneath the 1,000 gallon waste oil UST (up to 440 ppm TPHg, 410 ppm TPHd, and 77 ppm Total Oil and Grease [TOG]), beneath the 350 gallon waste oil UST (1,200 TPHg, 580 ppm TPHd, 580 ppm TOG and 0.64 ppm benzene), and beneath the product lines (up to 4,900 ppm TPHg, and 4.6 ppm benzene).

Volatile organic compounds (VOCs) or semivolatile organic compounds (SVOCs) were not detected in the samples collected from the waste oil UST excavation with the exception of trichloroethylene (0.017 ppm). Approximately 700 cubic yards of soil was excavated from the waste oil UST pits and from

beneath product lines and removed from the site. Monitoring wells A-2, B-3, and B-4 were destroyed during UST removal activities.

In March 1995, four additional on-site groundwater monitoring wells (B-10 through B-13) were installed at the site by GR to further assess the extent of hydrocarbons within the subsurface. Groundwater was encountered at approximately 7 feet bgs in borings B-10, B-12, and B-13 and at 1 foot bgs in boring B-11. TPHg were detected in the soil samples collected from boring B-10 through B-12 at concentrations ranging from 69ppm to 1,900 ppm, and were not detected in the soil sample from boring B-13. TPHd (1.1 ppm to 330 ppm) were detected in samples collected from all borings. Benzene (0.78 ppm) was detected in the soil sample collected from boring B-10, and was reported as not detected in samples collected from borings B-11 and B-12. Methyl-tert butyl ether (MtBE) was detected in the soil samples collected from borings B-11 (17 ppm) and B-12 (8.2 ppm).

Groundwater Monitoring and Sampling

Groundwater monitoring and sampling of site wells began in September 1991. Historical, depth to groundwater beneath the site has ranged from 2 to 8 feet bgs. Groundwater flowed to the southeast prior to January 1993. Recently, the flow direction has been fluctuating between northeast and northwest. The gradient has ranged from 0.005 to 0.02 foot per foot.

The groundwater sampling data indicates that groundwater beneath the site has been impacted by hydrocarbons at concentrations up to 40,000 parts per billion (ppb) of TPHg, 4,900 ppb of benzene, 88,000 ppb of MtBE, 22,000 ppb of TPHd, 8,000 ppb of TOG, and 68,400 ppb of motor oil. The highest dissolved hydrocarbon concentrations have been present in the vicinity of the dispenser islands. Hydrocarbons have not been detected in off-site wells except once (low concentrations).

SPH have been present in wells A-1 and A-2 (up to 1.58 feet just after the accidental diesel release), and on few occasions in wells B-3 and B-4 (up to 0.01 feet). SPH have been removed from the wells by bailing and use of absorbent pads.

Hydrocarbon concentrations in on-site wells have been decreasing, with the exception of well B-6. TPHg (655 ppb) was detected in this well in November 1998 after several quarters with nondetectable results. A TPHd concentration in this well has been increasing. Well B-6 also contains an elevated concentration of MtBE compared to nearest wells in the downgradient direction.

The May 1999 sampling data confirmed that groundwater beneath the site is not impacted by VOCs or SVOCs. Concentrations of metals in groundwater beneath the site were nondetectable (cadmium and lead), below maximum contaminant levels (MCLs) drinking water (zinc), or only slightly above MCLs (chromium and nickel).

WELL SURVEY

A review of Department of Water Resources (DWR) well logs and ACPWA Water Resources Section files was conducted to identify water supply wells within ½ mile of the site. Upon review of DWR well

logs and ACPWA Water Resources Section files, 14 well locations were identified within ½ mile of the site, with 3 well locations identified outside the ½ mile search radius. Twelve of the fourteen well locations are monitoring wells located north and south of the subject site along Webster Street. The remaining two wells are irrigation supply wells located approximately 1,400 feet west (well locations 3 and 4) of the subject site. An additional irrigation supply well was located approximately 2,800 feet southwest (well location 5) of the subject site, outside the ½ mile radius. The results of the well survey are depicted on Figure 2 and tabulated in Table 1.

FIELD ACTIVITIES

To delineate the extent of the plume to the north of the site and evaluate if the utility trenches act as preferential pathway for plume migration, GR hand augered eight off-site and three on-site soil borings. Field work was performed in accordance with GR's Site Safety Plan dated May 4, 2001. GR Field Methods and Procedures are included in Appendix A. Copies of Caltrans encroachment permit no. 0401-6SV-0994, City of Alameda right-of-way permit No. EX01-0023, and Alameda County Public Works Agency drilling permit No.W01-175 are included in Appendix B. Underground Service Alert was notified prior to beginning site activities.

On May, 15 and 16, 2001, eleven soil auger boring were advanced (SB-1 through SB-11). Refusal, due to a concrete obstruction at 4 feet bgs, was encountered in borings SB-5, SB-7, SB-9, SB-10, and SB-11. Refusal, due to pea gravel at 4 feet bgs, was encountered in soil boring SB-3. Borings SB-3, SB-5, SB-7, and SB-9 through SB-11 were not completed to groundwater. On-site borings SB-1 and SB-2 were advanced to depths of approximately 9.5 feet and 10 feet bgs, respectively. Off-site borings SB-4, SB-6, and SB-8 were advanced to depths between 7 feet and 8 feet bgs. The boring were advanced using a 3 inch diameter hand auger. Soil samples were collected using a hand-driven sampling device. A GR geologist observed the drilling activities. Soil samples were collected from the borings at three and five feet for description and preparation of a log, and for possible chemical analysis. Grab groundwater samples were also collected from borings SB-1, SB-2, SB-4, SB-6, and SB-8. In addition, a soil sample (SB2-6) was collected and analyzed for soil geotechnical analysis. Boring logs are included in Appendix B. Locations of the soil borings are shown on Figure 3. Borings were backfilled with neat cement containing 5% bentonite powder to ground surface and completed per encroachment permit requirements

Soil cuttings generated during drilling activities were placed on and covered with plastic. Composite disposal confirmation sample COMP 1(A-D) was collected from the stockpiled soil cuttings. Stockpile sampling procedures are presented in Appendix A.

RESULTS OF THE SUBSURFACE INVESTIGATION

Soil encountered during this investigation consisted of sand with silt and silty sand. Sand with silt was encountered in soil boring SB-4, SB-6 and SB-8 to total depth explored. Silty sand was encountered in soil boring SB-1 and SB-2 to total depth explored. Detailed descriptions of the soil encountered during drilling are presented on the boring logs in Appendix B.

CHEMICAL ANALYTICAL RESULTS

A total of five soil samples from the soil borings, five grab groundwater samples, and one composite soil sample from the stockpiled drill cuttings were submitted under chain-of-custody for chemical analysis. Analyses were performed by Sequoia Analytical (ELAP #1271 and #1624). Copies of the laboratory reports and chain-of-custody forms are included in Appendix C. Soil and groundwater chemical analytical data are summarized in Tables 2 and 3, respectively. Soil geotechnical analytical data is summarized in Table 4.

Chemical Analytical Procedures

The soil and groundwater samples were analyzed for TPHg by EPA Method 8015 modified, for TPHd by EPA Method 8015, and for BTEX and MtBE by EPA Method 8020. The composite stockpile soil sample was also analyzed for total lead by EPA Method 6010A. The geotechnical soil sample was analyzed for pH, total organic carbon, permeability, moisture content, porosity, natural density, dry density, matrix density, and particle size distribution.

Soil Analytical Results

Only MtBE (0.12 ppm) was detected in the soil sample collected from SB-8 at 5.5 feet bgs. TPHg was detected in four of the five soil samples analyzed at concentration ranging from 1.1 ppm (SB-2-6.5) to 81 ppm (SB-4-5.5). Only one soil sample SB-4-5.5 contained TPHd at a concentration of 2.4 ppm. Benzene was detected in soil samples SB-2-6.5 and SB-1-5 at concentrations of 0.0099 ppm and 0.023 ppm, respectively.

The composite stockpile sample COMP (A-D) contained TPHg, TPHd, benzene and total Pb at concentrations of 220 ppm, 73 ppm, 0.21 ppm and 5.5 ppm, respectively.

Groundwater Analytical Results

The grab groundwater sample collected from SB-8 did not contain TPHg, TPHd, or BTEX. TPHg was detected in four grab groundwater samples at concentrations ranging from 200 ppb (SB-6) to 910,000 ppb (SB-2). Concentrations of TPHd were detected in four grab groundwater samples collected ranging from 110 ppb (SB-6) to 5,600 ppb (SB-2). Benzene was detected in three grab groundwater samples at concentrations ranging from 0.51 ppb (SB-6) to 530 ppb (SB-2). Grab groundwater sample SB-6 and SB-8 contained MtBE at concentrations of 3,600 ppb and 4,300 ppb, respectively.

WASTE DISPOSAL

Soil cuttings generated during drilling activities were placed on and covered with plastic sheeting at the subject site and disposal confirmation sample SP-1(A-D) was collected (Table 1). Approximately 1 yard of soil cuttings was removed for disposal from the site by Integrated Wastestream Management (IWM).

DISCUSSION

Results of this investigation are inconclusive to whether the utility trenches are acting as a preferential migration pathway. Only three of the eight borings (SB4, SB6, SB8) proposed along the utility trenches were completed. The remaining borings (SB5, SB7, and SB9 through SB11) could not be advanced into groundwater due to the presence of a concrete obstruction at approximately 4 feet bgs. The lateral extent of this concrete beneath the street suggests that it is a part of Webster Street, and additional attempts to hand auger in the street are also likely to encounter it. The extent of the dissolved plume to the north remains undefined. Additional delineation of the dissolved plume beneath Webster Street may not be possible.

According to DWR logs and ACPWA Water Resources section files, known wells nearest the site are monitoring wells. The well search identified only two irrigation supply wells within ½ of the site. These wells are located over 1,400 feet west of the site. These wells are not likely to be impacted by dissolved hydrocarbons from the site.

The TPHg result of 910,000 ppb in the grab groundwater sample SB-2 seems anomalous when compared to the TPHg concentrations in groundwater from boring SB-1 (1,000 ppb) and well B-1 (570 ppb, 8/13/01 monitoring event). GR recommends a soil boring be placed in the vicinity of boring SB-2 to confirm the TPHg concentration detected in grab groundwater sample SB-2. Since the dissolved plume remains undefined, GR recommends two groundwater monitoring wells be installed north and northwest of the site. GR additionally recommends that the site-specific physical data collected during this investigation be utilized to perform a Risk-Based Corrective Action analysis (RBCA).

Boring log identifies strong petroleum odors at 6 feet bgs in both boring SB-1 and SB-2

TABLE 1 - WELL SEARCH DATA

Chevron Number 9-0290

1802 Webster Street, Alameda California

Half Mile Radius Around Site

Map ID	Well Owner	Well Location	Well Use	Number of Wells On Site	State Well #	Year Installed	AVG Well Depth (feet)	AVG Well Diameter (inches)	AVG DTW (feet)
1	Alameda Real Estate GMW	1020 Atlantic Avenue	MO	3	NA	NA	18	2	5
2	Former Texaco Gasoline Station	1127 Lincoln Avenue	Mo/EXT	18	NA	NA	21	2 and 4	10
3	John Cavallo	462 Buena Vista	IRR	1	NA	NA	36	8	9
4	G.S. Stagnaro	Pacific and 5th Street	IRR	1	NA	NA	315	6	71
5	A.E. Bryant	447 Taylor Avenue	IRR	1	NA	NA	36	8	9
6	Fire Station # 2	635 Pacific Avenue	MO	2	NA	NA	18	2	0
7	General Service Administrative	620 Central Ave	MO	3	NA	NA	14	2	5
8	John Ferrar	1435 Webster Street	MO	3	NA	NA	24	2	0
9	Bank Of America	1528 Webster Street	MO	5	NA	NA	20	2	7
10	Shell Oil Company	1601 Webster street	MO	1	NA	NA	20	4	16
11	Bernita Leskowski	1701 Webster Street	MO	3	NA	NA	19	2	8
12	BP Oil Co. Station Number 11104 M	1716 Webster Street	MO	3	NA	NA	17	2	9
13	Chevron	1802 Webster Street	MO	7	NA	NA	16	2	5
14	Dolan Foster Enterprise	1900 Webster Street	MO	4	NA	NA	18	4	0
15	Ms Jean Ratto Larkin	1916 Webster Street	MO	3	NA	NA	15	2	6
16	Alameda Housing Athority	1916 Webster Street	MO	2	NA	NA	11	2	5
17	College Of Alameda	Webster and Atlantic	MO	3	NA	NA	16	2	5

Explanation

Well location data supplied by the County of Alameda Public Works Agency

IND = Industrial Well
ABD = Abandoned Well
IRR = Irrigation Well
NA = Information Not Available
NA = Information Not Available
MO= Monitoring Well

TABLE 2 - SOIL SAMPLE CHEMICAL ANALYTICAL DATA

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

Sample No.	Sample Date	Sample Depth (in feet)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Total Xylenes (ppm)	MTBE[1] (ppm)	MTBE[2] (ppm)	TPHd (ppb)	Total Lead (ppm)
SB1-5	5/15/2001	5.0	6.7[3]	0.023	0.028	0.035	0.11	<0.50[4]	NA	<1.0	NA
SB2-6.5	5/15/2001	6.5	1.1[3]	0.0099	0.0072	0.0075	0.015	0.084[4]	<0.20[7]	<1.0	NA
SB4-5.5	5/16/2001	5.5	81[3]	<0.10	<0.10	0.13	0.31	<1.0[4]	NA	2.4[8]	NA
SB6-5.5	5/16/2001	5.5	1.8	<0.0050	<0.0050	<0.0050	<0.0050	<0.050[4]	NA	<1.0	NA
SB8-5.5	5/16/2001	5.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.12[4]	<0.20[7]	<1.0	NA
OMP 1 (A-D	5/16/2001	-	220[5]	0.21	0.34	0.46	0.97	NA	NA	73[6]	5.5

EXPLANATION:
ppb = parts per million
NA = Not Analyzed
[1]= MTBE by EPA Method 8020
[2]= MTBE by EPA Method 8260, for confirmation of MTBE detected by EPA Method 8020.
[3] = Chromatogram Pattern: Gasoline C6-C12
[4] = Continuing Calibration indicates that the quantitative results for this analyte includes a greater than 15% degree of uncertainty. The value as reported is within method acceptance.
[5]= Chromatogram pattern: Gasoline C6-C12 + unidentified hydrocarbon C6-C12.
[6]= Chromatogram Pattern: Unidentified Hydrocarbons <C16.
[7]= This sample was analyzed outside the EPA recommended holding time.
[8] = Chromatogram Pattern: Gasoline C9-C40

ANALYTICAL LABORATORY:
Sequoia Analytical Walnut Creek (ELAP #1271)
(see laboratory reports for detection limits)

ANALYTICAL METHOD:
TPHg = Total Petroleum Hydrocarbons as gasoline by EPA Method 8015 modified
TPHd = Total Petroleum Hydrocarbons as diesel by EPA Method 8015
Benzene, Toluene, Ethylbenzene and Total Xylenes by EPA method 8020
MtBE = Methyl tert-butyl ether by EPA Method 8020/8260
Total Lead by EPA Method 6010A

TABLE 3 - GRAB GROUNDWATER SAMPLE CHEMICAL ANALYTICAL DATA

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

Sample No.	Sample Date	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE[1] (ppb)	MTBE[b] (ppb)	TPHd (ppb)
SB1	5/16/2001	1000[3]	<5.0	<5.0	5.3	<5.0	<25[4]	NA	940[6]
SB2	5/15/2001	910000[5]	530	940	2300	5100	<2500	NA	5600[6]
SB4	5/16/2001	5100[3]	23	10	18	11	35[4]	<2.0[7]	330[6]
SB6	5/16/2001	200[3]	0.51	<0.50	<0.50	<0.50	3200[4]	3600[5]	110[6]
SB8	5/16/2001	<50	<0.50	<0.50	<0.50	<0.50	3000[4]	4300[7]	<62

Explanations:

ppb = parts per billion
NA = Not Analyzed
[1]= MTBE by EPA Method 8020
[2]= MTBE by EPA Method 8260, for confirmation of MTBE detected by EPA Method 8020.
[3] = Chromatogram Pattern: Gasoline C6-C12
[4] = Continuing Calibration indicates that the quantitative results for this analyte includes a greater than 15% degree of uncertainty. The value as reported is within method acceptance.
[5]= Chromatogram pattern: Gasoline C6-C12 + unidentified hydrocarbon C6-C12.
[6]= Chromatogram Pattern: Unidentified Hydrocarbons <C16.
[7]= This sample was analyzed outside the EPA recommended holding time.

Analytical Laboratory

Sequoia Analytical Walnut Creek (ELAP #1271)
(see laboratory reports for detection limits)

Analytical Methods:

TPHg = Total Petroleum Hydrocarbons as gasoline by EPA Method 8015 modified
TPHd = Total Petroleum Hydrocarbons as diesel by EPA Method 8015
Benzene, Toluene, Ethylbenzene and Total Xylenes by EPA method 8020
MtBE = Methyl tert-butyl ether by EPA Method 8020/8260

TABLE 4 - SOIL GEOTECHNICAL ANALYTICAL RESULTS

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

Sample ID	Sample Date	Depth (feet)	Moisture Content (%)	Moisture Content (%Pore Volume)	pH	Total Organic Carbon (ppm)	Intrinsic Permeability (md)	Intrinsic Permeability (cm/sec)	Intrinsic Permeability (cm^2)	Permeability to Air (md)
SB2-6	5/15/01	6	18.0	99.7	8.04	3,100	620	5.32E-04	5.43E-09	798

Sample ID	Sample Date	Depth (feet)	Permeability to Air (cm/sec)	Permeability to Air (cm^2)	Porosity (%Bulk Volume)	Dry Density (g/cc)	Natural Density (g/cc)	Matrix Density (g/cc)	Median Grain Size (mm)	Description
SB2-6	5/15/01	6	6.85E-04	6.98E-09	32.5	1.80	2.13	2.67	0.1847	gray very fine to medium grained sand

Explanations

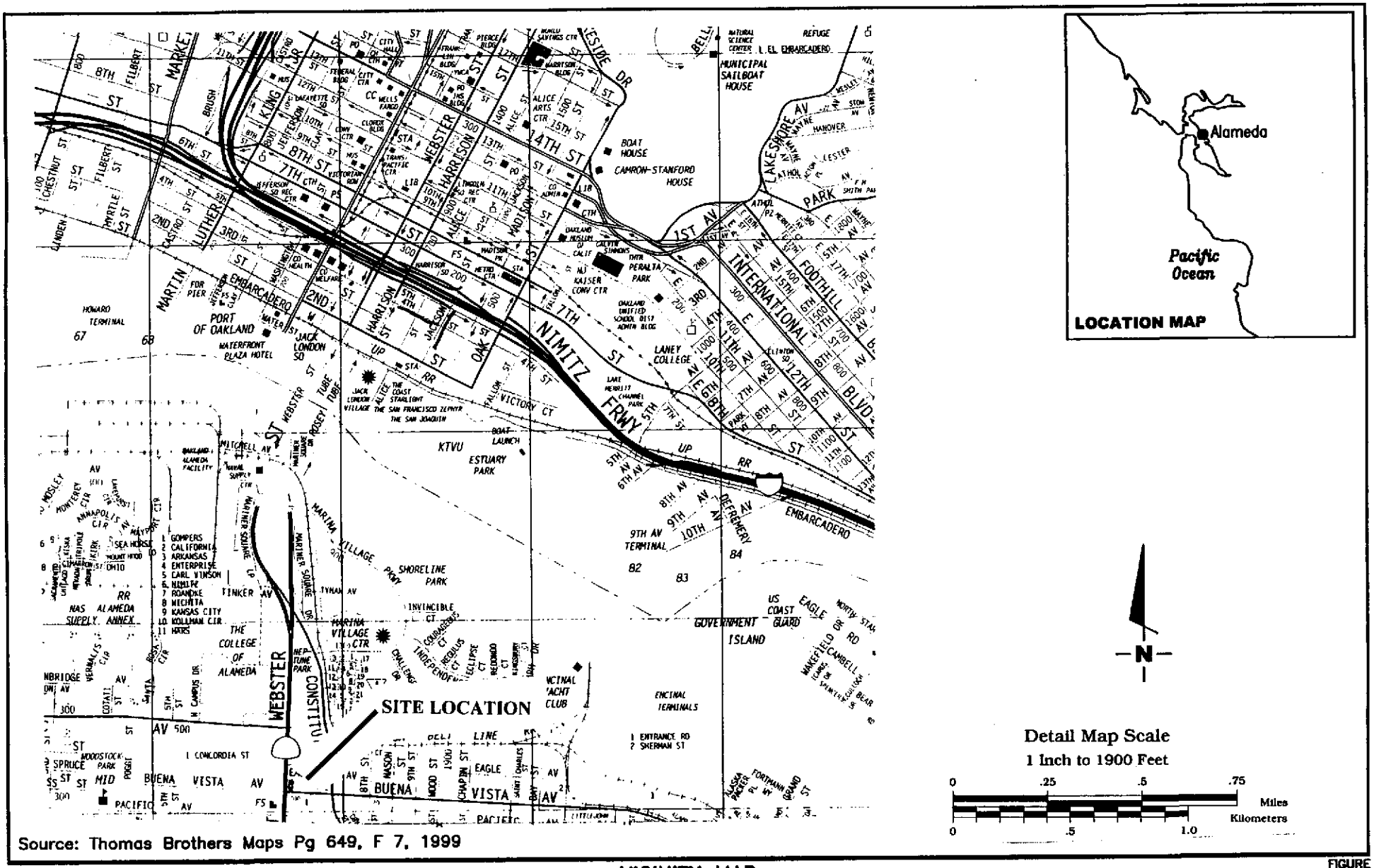
mm = millimeter
cm/sec = centimeter per second
g/cc = grams per cubic centimeter
cm = centimeter
ppm = parts per million

Analytical Laboratory:

pH/Total Organic Carbon: Sequoia Analytical (ELAP#1271)
Moisture content/permeability/porosity/densities/median grain size: Core Laboratory

Analytical Methods:

pH: EPA Method 9045B
Total Organic Carbon: ASA 90-3
Permeabiltiy to Air: Steady-state methods as described in API RP-40
Intrinsic Permeability: API RP 27
Moisture Content: ASTM D-2216
Total Porosity and Densities: API RP-40
Particle size distribution: ASTM D-422 and ASTM D-4464



Source: Thomas Brothers Maps Pg 649, F 7, 1999

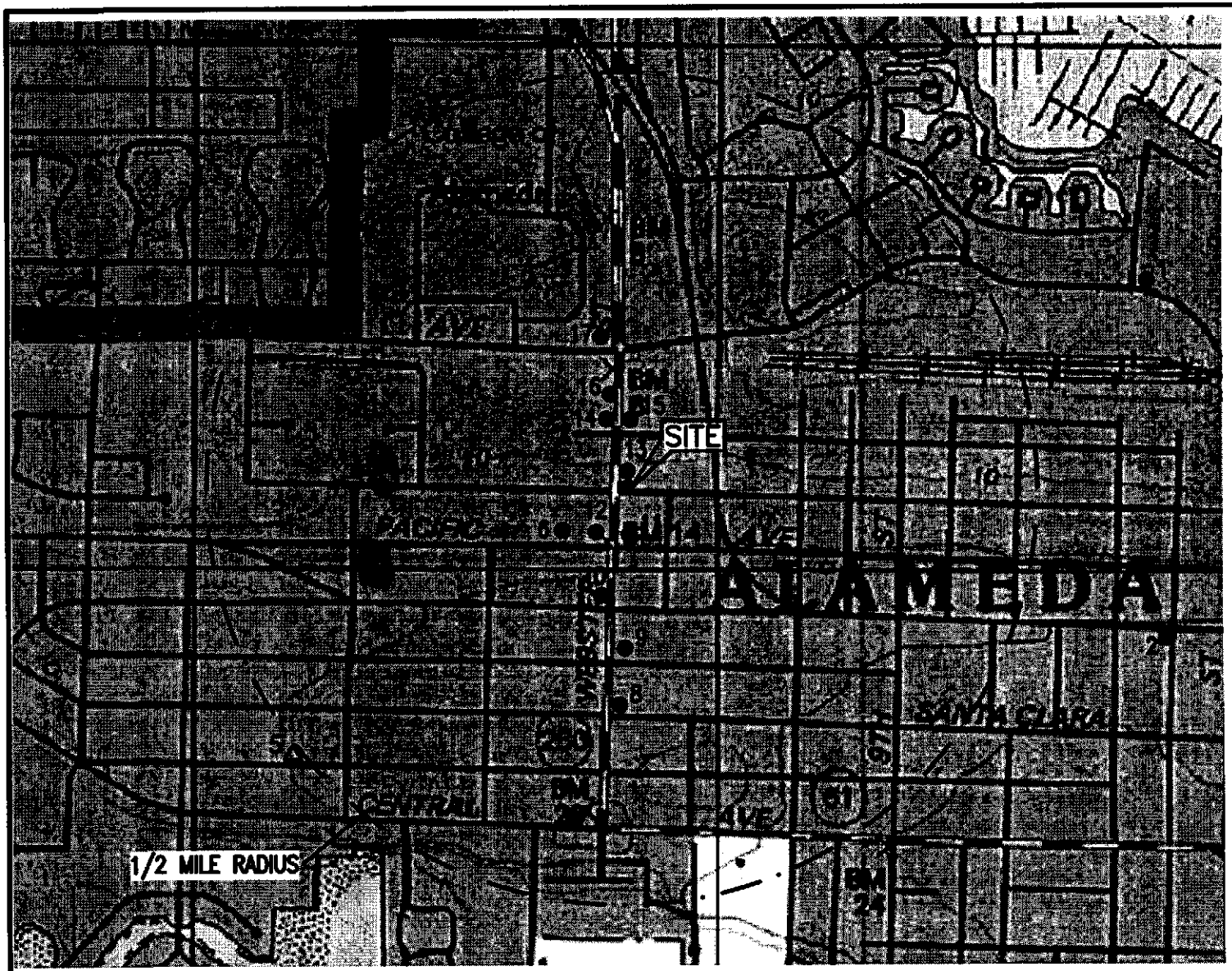
FIGURE 1

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

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

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
345280.02		02/01	

FILE NAME: P:\Enviro\Chevron\9-0290\VIC.dwg | Layout Tab: CA



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

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

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

FIGURE
2

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
DG90290C.4C02		6/01	

FILE NAME: P:\ENVIRO\CHEVRON\9-0290\VIC-9-0290.DWG | Layout Tab: Well Search 6-01

Parking Lot

KFC Restaurant

Freds' Wrenchhouse

Better Buy Liquer Store

Parking Lot

Auto Repair Shop

Commercial Building (Vacant)

Parking Lot

Burger King Restaurant

WEBSTER STREET

BUENA VISTA AVENUE

EAGLE STREET

B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-11 B-12 B-13

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8 SB9 SB10 SB11

A-1

Pump Islands

Underground Storage Tanks

Former Waste Oil Tank

Waste Oil Tank

Station Building

76 Service Station Building

Jack In-The-Box Restaurant

Carl's Junior Restaurant

Residential Buildings

Apartment Complex Parking Lot

Residential Buildings

Residential

EXPLANATION

- Groundwater monitoring well
- UST Pit backfill well
- Abandoned groundwater monitoring well
- Soil boring
- No boring due to auger refusal
- Storm drain
- Fire Hydrant
- Power pole
- Manhole
- Flow direction
- 8"ø Pipe diameter
- (~6') Approximate pipe depth

UNDERGROUND UTILITIES

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

N

0 40

Scale in Feet

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

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

REVISED DATE

DATE 6/01

REVIEWED BY

PROJECT NUMBER DG90290C.4C02

FILE NAME: P:\ENVIRO\CHEVRON\9-0290\X01-9-0290.DWG | Layout Tab: Boring Rpt 6-01

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

GETTLER-RYAN INC.

FIELD METHODS AND PROCEDURES

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 auger borings are advanced by GR personnel. A GR geologist is present to observe the drilling, collect soil samples for description, physical testing, and chemical analysis, and prepare a log of the exploratory soil boring. Soil samples are collected from the soil boring with hand driven sampling device. The encountered soils are described using the Unified Soil Classification System (ASTM 2488-84) and the Munsell Soil Color Chart.

After removal from the sampling device, soil samples for chemical analysis are covered on both ends with teflon sheeting or aluminum foil, capped, labeled, and place in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Samples are selected for chemical analysis based 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 head-space analysis in the field for the presence of organic vapors from the soil sample. This test procedure involves removing some soil from one of the sample tubes not retained for chemical analysis and immediately covering the end of the tube with a plastic cap. The PID probe is inserted into the headspace inside the tube through a hole in the plastic cap. Head-space screening results are recorded on the boring log. Head-space screening procedures are performed and results recorded as reconnaissance data. GR does not consider field screening techniques to be verification of the presence or absence of hydrocarbons.

Groundwater Sampling

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. The samples are labeled to include job number, sample identification, collection date and time, analyses, preservative (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4 ^{o}C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivery to the laboratory.

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

Storing and Sampling of Drill Cuttings

Drill cuttings are stockpiled on and covered with plastic sheeting or stored in drums depending on site conditions and regulatory requirements. 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 3 to 6 inches of soil, and then 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.

950 West Mall Square, #110
Alameda Point
Alameda, CA 94501

CITY OF ALAMEDA

Public Works Department

(510) 749-5840
Fax (510) 749-5867

Printed: ***05-10-2001***

Right-of-Way Permit

Permit #
EX01-0023

Applicant
GETTLER-RYAN INC
6747 SIERRA COURT, SUITE J
DUBLIN CA
94568
925-551-7555

Contractor Information

Owner Information
CHEVRON USA CX
PO BOX 285
HOUSTON TX
77001

Project Information
RTOFWAY - Right-of-Way Permit - ***APPROVED***
Sub-Type:

Applied: **03/26/2001**
Finaled:

Issued: **05/10/2001**
Expires: **05/10/2002**
Valuation: **$81.00**

Job Address: **1802 WEBSTER ST**
073 042600700
Suite / Unit:
Work Description: **(8) 3" HAND AUGER SOIL BORINGS 6" DEEP**

Parcel Number:

Total Fees:	$381.00
Total Payments:	$381.00
BALANCE DUE	**$0.00**

Payments Made: 05/10/2001 08:58 AM

RECEIPT

Receipt #: R01-002158

Total Payment: **$81.00**

Payee: GETTLER-RYAN INC.

Current Payment Made to the Following Items:

Account Code	Description	Amount
4225-37160 (6319)	Engineering Plan Check	75.00
99409-37900 (1464)	Records Mgmt./Microfiche	6.00

Payments Made for this Receipt:

Type	Method	Description	Amount
Payment	Check	56387	81.00

Account Summary for Fees and Payments:

Item#	Description	Account Code	Tot Fee	Paid	Prev. Pmts	Cur. Pmts
250	Permit Filing Fees	4520-37450 (1050)	36.00	36.00	36.00	.00
620	Records Mgmt./Microfiche	99409-37900 (1464)	6.00	6.00	.00	6.00
782	Engineering Plan Check	4225-37160 (6319)	75.00	75.00	.00	75.00
800	Concrete Permit Fee	4210-33700 (1315)	264.00	264.00	264.00	.00

**** See application for additional requirements ****

INSPECTIONS **510-749-5840**

NOTE: All construction within the public right of way must have barricades with flashers for night time protection.

This is to certify that the above work has been completed to my satisfaction and approval.

Date

Inspector

.TE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

.NCROACHMENT PERMIT

TR-0120

Permit No.	0401-6SV-0994
Dist/Co/Rte/PM	04-Ala-260-0.43
Date	May 1, 2001
Fee Paid	$160.00
Deposit	$160.00
Performance Bond Amount (1)	
Payment Bond Amount (2)	
Bond Company	
Bond Number (1)	
Bond Number (2)	

In compliance with (*Check one*):

☒ Your application of April 10, 2001

Utility Notice No. _____ of _____

☐ Agreement No. _____ of _____

☐ R/W Contract No. _____ of _____

TO: CHEVRON
P.O.Box 6004
San Ramon, CA 94583-0904

Attn: Thomas Banks
Phone: (925) 842-8898

, **PERMITTEE**

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

Perform soil borings using hand auger on Webster Street, State Highway 04-Ala-260, Post Mile 0.43, at Buena Vista and Eagle Streets, in the City of Alameda.

Two days before work is started under this permit, notice shall be given to, and approval of construction details, operations, public safety, and traffic control shall be obtained from State Representative N. Freitag, 600 Lewelling Blvd., San Leandro, 94579, 510-614-5951, weekdays, between 8:00 AM and 4:30 PM.

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

All personnel shall wear hard hats and orange vests, shirts, or jackets as appropriate during construction.

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

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

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

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

(If any Caltrans effort expended)

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

This permit is void unless the work is completed before December 31, 2001

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

APPROVED:

HARRY Y. YAHATA, District Director

BY:

S. S. NOZZARI, District Permit Engineer

The site of the work shall be enclosed by suitable barricades, signs and lights, as approved by State's representative, to warn and protect traffic effectively.

Traffic control is authorized only between 9:00 A.M. and 3:00 P.M., Monday through Friday, holidays excluded. Any traffic control which requires lane closure shall be in compliance with the appropriate traffic control plan. Where required by the plan, the use of a flashing arrow sign is MANDATORY.

Before any work is begun which will interrupt the normal flow of public traffic, approval shall be obtained from State's representative, and closures will be as shown on the attached copy of Standard Plan Sheet T-11.

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

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

Any collected survey data requested by Caltrans shall be furnished to Caltrans without charge.

The resulting holes shall be backfilled as per Caltrans requirements or as directed by the State representative.

When boring operations are being conducted , the permittee shall furnish, place and maintain signs and safety equipment in accordance with the latest edition of the "Manual of Traffic Controls for Construction and maintenance Work Zones".

All painted markings shall be made with water-soluble paint.

Permission is granted to park survey vehicles temporarily within the right of way, outside the shoulders , while work is in progress.

This permit does not authorize any excavation or trenching in State's right of way.

Any damage to existing facilities, landscaping or irrigation within the State's Right of Way shall be replaced in kind by the permittee at permittee's expense.

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

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

ENCROACHMENT PERMIT

TR-0120

Permit No.	0401-6SV-0994
Dist/Co/Rte/PM	04-Ala-260-0.43
Date	May 1, 2001
Fee Paid	$160.00
Deposit	$160.00
Performance Bond Amount (1)	
Payment Bond Amount (2)	
Bond Company	
Bond Number (1)	
Bond Number (2)	

In compliance with (*Check one*):

☒ Your application of April 10, 2001

Utility Notice No. _____ of _____

☐ Agreement No. _____ of _____

☐ R/W Contract No. _____ of _____

TO: ☐ CHEVRON
P.O.Box 6004
San Ramon, CA 94583-0904

Attn: Thomas Banks
Phone: (925) 842-8898

☐ , **PERMITTEE**

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

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

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

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

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

(If any Caltrans effort expended)

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

This permit is void unless the work is completed before December 31, 2001

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

APPROVED:

HARRY Y. YAHATA, District Director

BY:

S. S. Nozzari

S. S. NOZZARI, District Permit Engineer

BUILDING SERVICES
CITY OF ALAMEDA
City of Alameda
2263 Santa Clara Avenue, Room 190
Alameda, CA 94501
(510) 748-4520

Submit in Duplicate

RECEIVED
MAY 15 2001
GETTLER-RYAN INC.
GENERAL CONTRACTORS

RIGHT-OF-WAY PERMIT APPLICATION

SERVICE NUMBER _____ DATE 3/15 19 01

Application is hereby made to occupy or perform work in the public right-of-way on the Right side of Webster Ave/St 16 feet Max. from Curb Face
Of (See Site Map Attached)
House No. 1802 Webster St Owner Chevron
For the purpose of 8 3" ϕ hand Auger Soil Borings @ 6" Deep (Requested By Alameda County Health Servi
Name of Applicant Gettler-Ryan Inc. Address 6747 Sierra Ct Suite J City/State Dublin CA 94568
Contractor's License No. 220793 City Business License No. 1060 Phone Number (925) 551-7555

INDICATE LOCATION BELOW OR ATTACH SEPARATE SHEET SHOWING LOCATION

See Site Map Attached

PLEASE NOTE THE FOLLOWING:

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

Acceptance of this permit constitutes acceptance of the conditions included.

Date 3/23/01
APPLICANT SIGNATURE

SPECIAL CONDITIONS

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

RECEIVED DATE 3/26/01 SIGNED E Chase PERMIT NO. EX01-0023
APPROVED DATE 5-03-01 SIGNED _____
ISSUED DATE 5/10/2001 SIGNED _____

833

Revised: 07/20/98

G:\CENPERM.BI\FORMS\EXCAV.FRM

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 1802 Webster St. Alameda CA

CLIENT
Name Chevron
Address PO Box 6004 Phone
City San Ramon Zip 94583

APPLICANT
Name Gettler Ryan Inc
Fax
Address 6747 Sierra Ct Phone (925) 551-7555 ext 127
City Dublin CA Zip 94521

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	0	General	0
Water Supply	0	Contamination	0
Monitoring	0	Well Destruction	0

PROPOSED WATER SUPPLY WELL USE

New Domestic	0	Replacement Domestic	0
Municipal	0	Irrigation	0
Industrial	0	Other	0

DRILLING METHOD:

Mud Rotary	0	Air Rotary	0	Auger	0
Cable	0	Other	X Hand Auger		

DRILLER'S NAME

DRILLER'S LICENSE NO.

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 11 Maximum
Hole Diameter 3 in. Depth 7 ft.

ESTIMATED STARTING DATE 3/23/01
ESTIMATED COMPLETION DATE 3/30/01

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

APPLICANT'S SIGNATURE [signature] DATE 3/14/01

PLEASE PRINT NAME Andrew Smith

Rev.5-13-00

FOR OFFICE USE

PERMIT NUMBER W01-175
WELL NUMBER
APN

PERMIT CONDITIONS
Circled Permit Requirements Apply

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

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

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

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

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

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

G. SPECIAL CONDITIONS

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

APPROVED [signature] DATE 3-14-01

Gettler-Ryan, Inc.

Log of Boring SB1

PROJECT: *Chevron Service Station No. 9-0290*	LOCATION: *1802 Webster Street, Alameda, CA.*
GR PROJECT NO.: *DG90290C.4C02*	SURFACE ELEVATION:
DATE STARTED: *05/15/01*	WL (ft. bgs): *6* DATE: *05/15/01* TIME: *10:30*
DATE FINISHED: *05/15/01*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *3 in. Hand Auger*	TOTAL DEPTH: *9.5 feet*
DRILLING COMPANY: *Getter-Ryan, Inc.*	GEOLOGIST: *Andrew Smith*

DEPTH (feet)	PID (ppm)	BLOWS/FT.*	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
							Concrete - 6 inches thick.	
							Pea Gravel - 3 inches thick.	
	0.00					SM	SILTY SAND WITH GRAVEL (SM) - reddish brown (5YR 4/3), moist, loose; 65% sand, 20% angular gravel, 15% silt.	
2								Boring backfilled with neat cement to ground surface.
	0.00							
4								
	0.00		SB1-5					Grab groundwater sample SB1.
6			SB1				▽ SILTY SAND (SM) - dark greenish gray (Gley2 4/1), wet, medium dense; 85% fine sand, 15% silt, strong petroleum odor.	
8								
10							Bottom of boring at 9.5 feet bgs.	
12								
14								

JOB NUMBER: *DG90290C.4C02*

Gettler-Ryan, Inc.

Log of Boring SB2

PROJECT: *Chevron Service Station No. 9-0290*	LOCATION: *1802 Webster Street, Alameda, CA.*
GR PROJECT NO.: *DG90290C.4C02*	SURFACE ELEVATION:
DATE STARTED: *05/15/01*	WL (ft. bgs): *9* DATE: *05/15/01* TIME: *11:10*
DATE FINISHED: *05/15/01*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *3 in. Hand Auger*	TOTAL DEPTH: *10 feet*
DRILLING COMPANY: *Getter-Ryan, Inc.*	GEOLOGIST: *Andrew Smith*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
0							Concrete – 6 inches thick.	
							Pea Gravel – 3 inches thick.	
						SM	SILTY SAND (SM) – dark greenish gray (Gley1 3/1), moist, medium dense; 85% sand, 15% silt,	
2								Boring backfilled with neat cement to ground surface.
	0.00							
4								
6			RBCA				Includes strong petroleum odor.	
	0.00		SB2-6.5					
8							▼	
								Grab groundwater sample SB2.
10	0.00		SB2				Bottom of boring at 10 feet bgs.	
12								
14								

JOB NUMBER: *DG90290C.4C02*

Gettler-Ryan, Inc.

Log of Boring SB4

PROJECT: *Chevron Service Station No. 9-0290*	LOCATION: *1802 Webster Street, Alameda, CA.*
GR PROJECT NO.: *DG90290C.4C02*	SURFACE ELEVATION:
DATE STARTED: *05/15/01*	WL (ft. bgs): *5.5* DATE: *05/15/01* TIME: *09:00*
DATE FINISHED: *05/15/01*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *3 in. Hand Auger*	TOTAL DEPTH: *7 feet*
DRILLING COMPANY: *Getter-Ryan, Inc.*	GEOLOGIST: *Andrew Smith*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
							Concrete - 6 inches thick.	
	0.00					SW-SM	SAND WITH SILT (SW-SM) - dark reddish brown (5YR 3/2), moist, medium dense; 90% sand, 10% silt.	
2								Boring backfilled with neat cement to ground surface.
	0.00						Color changes to brown (7.5YR 4/3) at 3 feet.	
4								
							At 5 feet, color changes to dark greenish gray (Gley1 4/1); strong petroleum odor.	
6	0.00		SB4-5.5 SB4					Grab groundwater sample SB4.
							Bottom of boring at 7 feet bgs.	
8								
10								
12								
14								

Gettler-Ryan, Inc.

Log of Boring SB8

PROJECT: *Chevron Service Station No. 9-0290*	LOCATION: *1802 Webster Street, Alameda, CA.*
GR PROJECT NO.: *DG90290C.4C02*	SURFACE ELEVATION:
DATE STARTED: *05/16/01*	WL (ft. bgs): *6* DATE: *05/16/01* TIME: *19:40*
DATE FINISHED: *05/16/01*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *3 in. Hand Auger*	TOTAL DEPTH: *8 feet*
DRILLING COMPANY: *Getter-Ryan, Inc.*	GEOLOGIST: *Andrew Smith*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
							Concrete - 6 inches thick.	
						SW-SM	SAND WITH SILT (SW-SM) - brown (7.5YR 3/2), moist, medium dense; 90% sand, 10% silt.	
2								Boring backfilled with neat cement to ground surface.
4	0.00							
6	0.00		SB8-5.5				▽	Grab groundwater sample SB8.
	0.00		SB8					
8							Bottom of boring at 8 feet bgs.	
10								
12								
14								

JOB NUMBER: *DG90290C.4C02*

Gettler-Ryan, Inc.

Log of Boring SB6

PROJECT: *Chevron Service Station No. 9-0290*	LOCATION: *1802 Webster Street, Alameda, CA.*
GR PROJECT NO.: *DG90290C.4C02*	SURFACE ELEVATION:
DATE STARTED: *05/16/01*	WL (ft. bgs): *5.5* DATE: *05/16/01* TIME: *11:10*
DATE FINISHED: *05/16/01*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *3 in. Hand Auger*	TOTAL DEPTH: *7 feet*
DRILLING COMPANY: *Getter-Ryan, Inc.*	GEOLOGIST: *Andrew Smith*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
							Concrete - 6 inches thick.	
						SW-SM	SAND WITH SILT (SW-SM) - brown (7.5YR 3/2), moist, medium dense; 90% sand, 10% silt.	
2	0.00							Boring backfilled with neat cement to ground surface.
	0.00							
4								
							▽ Color changes to dark greenish gray (Gley1 4/1) at 5.5 feet.	Grab groundwater sample SB6.
6	0.00		SB6-5.5					
	0.00		SB6					
							Bottom of boring at 7 feet bgs.	
8								
10								
12								
14								

JOB NUMBER: *DG90290C.4C02*

Sequoia
Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

7 June, 2001

Andrew Smith
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Chevron
Sequoia Report: W105405

Enclosed are the results of analyses for samples received by the laboratory on 17-May-01 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater
Project Manager

CA ELAP Certificate #1271

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 08:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB1-5	W105405-01	Soil	15-May-01 00:00	17-May-01 16:40
SB2-6.5	W105405-02	Soil	15-May-01 00:00	17-May-01 16:40
SB4-5.5	W105405-03	Soil	16-May-01 00:00	17-May-01 16:40
SB6-5.5	W105405-04	Soil	16-May-01 00:00	17-May-01 16:40
SB8-5.5	W105405-05	Soil	16-May-01 00:00	17-May-01 16:40

Charlie Westwater, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 08:53

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB1-5 (W105405-01) Soil Sampled: 15-May-01 00:00 Received: 17-May-01 16:40									
Purgeable Hydrocarbons	**6.7**	1.0	mg/kg	20	1E21002	21-May-01	22-May-01	EPA 8015/8020	P-03
Benzene	**0.023**	0.0050	"	"	"	"	"	"	
Toluene	**0.028**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.035**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.11**	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*89.0 %*	*40-140*		"	"	"	"	
SB2-6.5 (W105405-02) Soil Sampled: 15-May-01 00:00 Received: 17-May-01 16:40									
Purgeable Hydrocarbons	**1.1**	1.0	mg/kg	20	1E21002	21-May-01	22-May-01	EPA 8015/8020	P-03
Benzene	**0.0099**	0.0050	"	"	"	"	"	"	
Toluene	**0.0072**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0075**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.015**	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	**0.084**	0.050	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*99.0 %*	*40-140*		"	"	"	"	
SB4-5.5 (W105405-03) Soil Sampled: 16-May-01 00:00 Received: 17-May-01 16:40									
Purgeable Hydrocarbons	**81**	20	mg/kg	400	1E21002	21-May-01	25-May-01	EPA 8015/8020	P-03
Benzene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	**0.13**	0.10	"	"	"	"	"	"	
Xylenes (total)	**0.31**	0.10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*40-140*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 08:53

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB6-5.5 (W105405-04) Soil Sampled: 16-May-01 00:00 Received: 17-May-01 16:40									
Purgeable Hydrocarbons	**1.8**	1.0	mg/kg	20	1E21002	21-May-01	22-May-01	EPA 8015/8020	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*94.0 %*	*40-140*		"	"	"	"	
SB8-5.5 (W105405-05) Soil Sampled: 16-May-01 00:00 Received: 17-May-01 16:40									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	1E21002	21-May-01	22-May-01	EPA 8015/8020	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	**0.12**	0.050	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*40-140*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 08:53

Diesel Hydrocarbons (C9-C24) with Silica Gel Cleanup by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB1-5 (W105405-01) Soil Sampled: 15-May-01 00:00 Received: 17-May-01 16:40									
Diesel Range Hydrocarbons	ND	1.0	mg/kg	1	1E29015	29-May-01	31-May-01	DHS LUFT	
Surrogate: n-Pentacosane		*59.1 %*	*50-150*		"	"	"	"	
SB2-6.5 (W105405-02) Soil Sampled: 15-May-01 00:00 Received: 17-May-01 16:40									
Diesel Range Hydrocarbons	ND	1.0	mg/kg	1	1E29015	29-May-01	31-May-01	DHS LUFT	
Surrogate: n-Pentacosane		*66.0 %*	*50-150*		"	"	"	"	
SB4-5.5 (W105405-03) Soil Sampled: 16-May-01 00:00 Received: 17-May-01 16:40									
Diesel Range Hydrocarbons	**2.4**	1.0	mg/kg	1	1E29015	29-May-01	31-May-01	DHS LUFT	D-02
Surrogate: n-Pentacosane		*51.1 %*	*50-150*		"	"	"	"	
SB6-5.5 (W105405-04) Soil Sampled: 16-May-01 00:00 Received: 17-May-01 16:40									
Diesel Range Hydrocarbons	ND	1.0	mg/kg	1	1E29015	29-May-01	31-May-01	DHS LUFT	
Surrogate: n-Pentacosane		*67.0 %*	*50-150*		"	"	"	"	
SB8-5.5 (W105405-05) Soil Sampled: 16-May-01 00:00 Received: 17-May-01 16:40									
Diesel Range Hydrocarbons	ND	1.0	mg/kg	1	1E29015	29-May-01	31-May-01	DHS LUFT	
Surrogate: n-Pentacosane		*68.0 %*	*50-150*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 08:53

MTBE Confirmation by EPA Method 8260B

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB2-6.5 (W105405-02) Soil Sampled: 15-May-01 00:00 Received: 17-May-01 16:40									**O-04**
Methyl tert-butyl ether	ND	0.20	mg/kg	100	1F01017	31-May-01	31-May-01	EPA 8260B	
Surrogate: Dibromofluoromethane		*110 %*		*50-150*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*112 %*		*50-150*	"	"	"	"	
SB8-5.5 (W105405-05) Soil Sampled: 16-May-01 00:00 Received: 17-May-01 16:40									**O-04**
Methyl tert-butyl ether	ND	0.20	mg/kg	100	1F01017	31-May-01	31-May-01	EPA 8260B	
Surrogate: Dibromofluoromethane		*108 %*		*50-150*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*		*50-150*	"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 08:53

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E21002 - EPA 5030B MeOH										
Blank (1E21002-BLK1)				Prepared & Analyzed: 21-May-01						
Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.050	"							
Surrogate: a,a,a-Trifluorotoluene	*0.684*		"	*0.600*		*114*	*40-140*			
LCS (1E21002-BS1)				Prepared & Analyzed: 21-May-01						
Benzene	0.726	0.0050	mg/kg	0.800		90.8	50-150			
Toluene	0.754	0.0050	"	0.800		94.2	50-150			
Ethylbenzene	0.792	0.0050	"	0.800		99.0	50-150			
Xylenes (total)	2.35	0.0050	"	2.40		97.9	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.706*		"	*0.600*		*118*	*40-140*			
Matrix Spike (1E21002-MS1)		**Source: W105395-02**		Prepared: 21-May-01 Analyzed: 22-May-01						
Benzene	0.756	0.0050	mg/kg	0.800	ND	94.5	50-150			
Toluene	0.796	0.0050	"	0.800	ND	99.5	50-150			
Ethylbenzene	0.838	0.0050	"	0.800	ND	105	50-150			
Xylenes (total)	2.53	0.0050	"	2.40	ND	105	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.612*		"	*0.600*		*102*	*40-140*			
Matrix Spike Dup (1E21002-MSD1)		**Source: W105395-02**		Prepared: 21-May-01 Analyzed: 22-May-01						
Benzene	0.748	0.0050	mg/kg	0.800	ND	93.5	50-150	1.06	20	
Toluene	0.790	0.0050	"	0.800	ND	98.8	50-150	0.757	20	
Ethylbenzene	0.826	0.0050	"	0.800	ND	103	50-150	1.44	20	
Xylenes (total)	2.46	0.0050	"	2.40	ND	102	50-150	2.81	20	
Surrogate: a,a,a-Trifluorotoluene	*0.616*		"	*0.600*		*103*	*40-140*			

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 08:53

Diesel Hydrocarbons (C9-C24) with Silica Gel Cleanup by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E29015 - EPA 3550A										
Blank (1E29015-BLK1)				Prepared: 29-May-01 Analyzed: 01-Jun-01						
Diesel Range Hydrocarbons	ND	1.0	mg/kg							
Surrogate: n-Pentacosane	*0.778*		"	*1.11*		*70.1*	*50-150*			
LCS (1E29015-BS1)				Prepared: 29-May-01 Analyzed: 01-Jun-01						
Diesel Range Hydrocarbons	12.4	1.0	mg/kg	15.0		82.7	60-140			
Surrogate: n-Pentacosane	*0.889*		"	*1.11*		*80.1*	*50-150*			
LCS Dup (1E29015-BSD1)				Prepared: 29-May-01 Analyzed: 02-Jun-01						
Diesel Range Hydrocarbons	11.7	1.0	mg/kg	15.0		78.0	60-140	5.81	40	
Surrogate: n-Pentacosane	*0.933*		"	*1.11*		*84.1*	*50-150*			
Matrix Spike (1E29015-MS1)		**Source: W105405-01**		Prepared: 29-May-01 Analyzed: 31-May-01						
Diesel Range Hydrocarbons	12.4	1.0	mg/kg	15.0	ND	82.7	50-150			
Surrogate: n-Pentacosane	*1.12*		"	*1.11*		*101*	*50-150*			
Matrix Spike Dup (1E29015-MSD1)		**Source: W105405-01**		Prepared: 29-May-01 Analyzed: 31-May-01						
Diesel Range Hydrocarbons	10.1	1.0	mg/kg	15.0	ND	67.3	50-150	20.4	50	
Surrogate: n-Pentacosane	*0.889*		"	*1.11*		*80.1*	*50-150*			

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 08:53

MTBE Confirmation by EPA Method 8260B - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1F01017 - EPA 5030B (MeOH)										
Blank (1F01017-BLK1)				Prepared & Analyzed: 31-May-01						
Methyl tert-butyl ether	ND	0.20	mg/kg							
Surrogate: Dibromofluoromethane	*2.60*		"	*2.50*		*104*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*2.85*		"	*2.50*		*114*	*50-150*			
LCS (1F01017-BS1)				Prepared & Analyzed: 31-May-01						
Methyl tert-butyl ether	2.55	0.20	mg/kg	2.50		102	70-130			
Surrogate: Dibromofluoromethane	*2.60*		"	*2.50*		*104*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*2.75*		"	*2.50*		*110*	*50-150*			
LCS Dup (1F01017-BSD1)				Prepared & Analyzed: 31-May-01						
Methyl tert-butyl ether	2.52	0.20	mg/kg	2.50		101	70-130	1.18	25	
Surrogate: Dibromofluoromethane	*2.50*		"	*2.50*		*100*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*2.80*		"	*2.50*		*112*	*50-150*			

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 08:53

Notes and Definitions

CC-3	Continuing Calibration indicates that the quantitative result for this analyte includes a greater than 15% degree of uncertainty. The value as reported is within method acceptance.
D-02	Chromatogram Pattern: Unidentified Hydrocarbons C9-C40.
O-04	This sample was analyzed outside the EPA recommended holding time.
P-03	Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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

Chain-of-Custody-Record

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

Chevron Facility Number #9-0290
Facility Address 1802 Webster Street Alameda CA.
Consultant Project Number 345280.02
Consultant Name Gettler Ryan Inc.
Address 6747 Sierra Ct.
Project Contact (Name) Andrew Smith ext 127
(Phone) (925)551-7444 (Fax Number) (925)551-7555

Chevron Contact (Name) Tom Bauhs
(Phone)
Laboratory Name Sequoia Analytical
Laboratory Release Number W105405
Samples Collected by (Name) Andrew Smith
Collection Date 5/15/01 & 5/16/01
Signature Andrew Smith

Sample Number	Lab Sample Number	Number of Containers	Matrix (S = Soil, W = Water, A = Air, C = Charcoal)	Type (G = Grab, C = Composite, D = Discrete)	Time / Date	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015) *	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	(EPA) MTBE 8020	confirm MTBE hits by (EPA 8260)				Remarks
SB1-5	01A	1	S	D	5/15/01		Yes	✓	✓							✓	✓				* with Silica Gel Clean-up
SB2-6.5	02A	1	↓	↓	5/15/01		↓	↓	↓							↓	↓				
SB4-5.5	03A	1			5/16/01																
SB6-5.5	04A	1			5/16/01																
SB8-5.5	05A	1	↓	↓	5/16/01		↓	↓	↓							↓	↓				

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Andrew Smith	GRI	5/17/01	Mark Gollan	Sequoia	5-17-01/1530
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Mark Gollan	Sequoia	5-17-01/1640			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			Mike Gosin		5/17/01 1640

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
(10 Days)
As Contracted

COC-3.DWG/03 01/MCH

Sequoia
Analytical

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7 June, 2001

Andrew Smith
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Chevron
Sequoia Report: W105481

Enclosed are the results of analyses for samples received by the laboratory on 17-May-01 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater
Project Manager

CA ELAP Certificate #1271

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 07:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB1	W105481-01	Water	16-May-01 00:00	17-May-01 16:40
SB2	W105481-02	Water	15-May-01 00:00	17-May-01 16:40
SB4	W105481-03	Water	16-May-01 00:00	17-May-01 16:40
SB6	W105481-04	Water	16-May-01 00:00	17-May-01 16:40
SB8	W105481-05	Water	16-May-01 00:00	17-May-01 16:40

Charlie Westwater, Project Manager

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 07:44

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB1 (W105481-01) Water	**Sampled: 16-May-01 00:00**	**Received: 17-May-01 16:40**							
Purgeable Hydrocarbons	**1000**	500	ug/l	10	1E29002	30-May-01	30-May-01	EPA 8015M/8020	P-01
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**5.3**	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*92.7 %*		*70-130*		"	"	"	
SB2 (W105481-02) Water	**Sampled: 15-May-01 00:00**	**Received: 17-May-01 16:40**							
Purgeable Hydrocarbons	**910000**	50000	ug/l	1000	1E29002	29-May-01	29-May-01	EPA 8015M/8020	P-04
Benzene	**530**	500	"	"	"	"	"	"	
Toluene	**940**	500	"	"	"	"	"	"	
Ethylbenzene	**2300**	500	"	"	"	"	"	"	
Xylenes (total)	**5100**	500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*72.7 %*		*70-130*		"	"	"	
SB4 (W105481-03) Water	**Sampled: 16-May-01 00:00**	**Received: 17-May-01 16:40**							
Purgeable Hydrocarbons	**5100**	500	ug/l	10	1E29002	30-May-01	30-May-01	EPA 8015M/8020	P-01
Benzene	**23**	5.0	"	"	"	"	"	"	
Toluene	**10**	5.0	"	"	"	"	"	"	
Ethylbenzene	**18**	5.0	"	"	"	"	"	"	
Xylenes (total)	**11**	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**35**	25	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*85.7 %*		*70-130*		"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 07:44

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB6 (W105481-04) Water Sampled: 16-May-01 00:00 Received: 17-May-01 16:40									
Purgeable Hydrocarbons	**200**	50	ug/l	1	1E29002	30-May-01	30-May-01	EPA 8015M/8020	P-01
Benzene	**0.51**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85.3 %*	*70-130*		"	"	"	"	
SB6 (W105481-04RE1) Water Sampled: 16-May-01 00:00 Received: 17-May-01 16:40									
Methyl tert-butyl ether	**3200**	500	ug/l	200	1E29002	30-May-01	30-May-01	EPA 8015M/8020	CC-3
Surrogate: a,a,a-Trifluorotoluene		*94.7 %*	*70-130*		"	"	"	"	
SB8 (W105481-05) Water Sampled: 16-May-01 00:00 Received: 17-May-01 16:40									
Purgeable Hydrocarbons	ND	50	ug/l	1	1E29002	30-May-01	30-May-01	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.3 %*	*70-130*		"	"	"	"	
SB8 (W105481-05RE1) Water Sampled: 16-May-01 00:00 Received: 17-May-01 16:40									
Methyl tert-butyl ether	**3000**	2500	ug/l	1000	1E29002	30-May-01	30-May-01	EPA 8015M/8020	CC-3
Surrogate: a,a,a-Trifluorotoluene		*96.3 %*	*70-130*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 07:44

Diesel Hydrocarbons (C9-C24) with Silica Gel Cleanup by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB1 (W105481-01) Water	**Sampled: 16-May-01 00:00**	**Received: 17-May-01 16:40**							
Diesel Range Hydrocarbons	**940**	50	ug/l	1	1E25007	25-May-01	31-May-01	EPA 8015M	D-11
Surrogate: n-Pentacosane		*62.2 %*	*50-150*		"	"	"	"	
SB2 (W105481-02) Water	**Sampled: 15-May-01 00:00**	**Received: 17-May-01 16:40**							
Diesel Range Hydrocarbons	**5600**	590	ug/l	10	1E25007	25-May-01	01-Jun-01	EPA 8015M	D-11
Surrogate: n-Pentacosane		*130 %*	*50-150*		"	"	"	"	
SB4 (W105481-03) Water	**Sampled: 16-May-01 00:00**	**Received: 17-May-01 16:40**							
Diesel Range Hydrocarbons	**330**	50	ug/l	1	1E25007	25-May-01	31-May-01	EPA 8015M	D-11
Surrogate: n-Pentacosane		*99.1 %*	*50-150*		"	"	"	"	
SB6 (W105481-04) Water	**Sampled: 16-May-01 00:00**	**Received: 17-May-01 16:40**							
Diesel Range Hydrocarbons	**110**	50	ug/l	1	1E25007	25-May-01	31-May-01	EPA 8015M	D-11
Surrogate: n-Pentacosane		*99.1 %*	*50-150*		"	"	"	"	
SB8 (W105481-05) Water	**Sampled: 16-May-01 00:00**	**Received: 17-May-01 16:40**							
Diesel Range Hydrocarbons	ND	62	ug/l	1	1E25007	25-May-01	31-May-01	EPA 8015M	
Surrogate: n-Pentacosane		*70.2 %*	*50-150*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 07:44

MTBE Confirmation by EPA Method 8260B

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB4 (W105481-03) Water Sampled: 16-May-01 00:00 Received: 17-May-01 16:40									**O-04**
Methyl tert-butyl ether	ND	2.0	ug/l	1	1F01016	31-May-01	31-May-01	EPA 8260B	
Surrogate: Dibromofluoromethane		*90.0 %*		*50-150*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*		*50-150*	"	"	"	"	
SB6 (W105481-04) Water Sampled: 16-May-01 00:00 Received: 17-May-01 16:40									**O-04**
Methyl tert-butyl ether	**3600**	100	ug/l	50	1F01016	31-May-01	31-May-01	EPA 8260B	
Surrogate: Dibromofluoromethane		*92.0 %*		*50-150*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*		*50-150*	"	"	"	"	
SB8 (W105481-05) Water Sampled: 16-May-01 00:00 Received: 17-May-01 16:40									**O-04**
Methyl tert-butyl ether	**4300**	200	ug/l	100	1F01016	31-May-01	31-May-01	EPA 8260B	
Surrogate: Dibromofluoromethane		*9160 %*		*50-150*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*9740 %*		*50-150*	"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 07:44

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E29002 - EPA 5030B P/T										
Blank (1E29002-BLK1)				Prepared & Analyzed: 29-May-01						
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*31.3*		"	*30.0*		*104*	*70-130*			
Blank (1E29002-BLK2)				Prepared & Analyzed: 30-May-01						
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*30.1*		"	*30.0*		*100*	*70-130*			
Blank (1E29002-BLK3)				Prepared & Analyzed: 31-May-01						
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*29.2*		"	*30.0*		*97.3*	*70-130*			
LCS (1E29002-BS1)				Prepared & Analyzed: 29-May-01						
Benzene	19.8	0.50	ug/l	20.0		99.0	70-130			
Toluene	20.7	0.50	"	20.0		104	70-130			
Ethylbenzene	21.4	0.50	"	20.0		107	70-130			
Xylenes (total)	63.9	0.50	"	60.0		106	70-130			
Surrogate: a,a,a-Trifluorotoluene	*30.5*		"	*30.0*		*102*	*70-130*			

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 07:44

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E29002 - EPA 5030B P/T										
LCS (1E29002-BS2)				Prepared & Analyzed: 30-May-01						
Benzene	18.1	0.50	ug/l	20.0		90.5	70-130			
Toluene	19.1	0.50	"	20.0		95.5	70-130			
Ethylbenzene	19.8	0.50	"	20.0		99.0	70-130			
Xylenes (total)	59.2	0.50	"	60.0		98.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	*29.0*		"	*30.0*		*96.7*	*70-130*			
LCS (1E29002-BS3)				Prepared & Analyzed: 31-May-01						
Benzene	16.7	0.50	ug/l	20.0		83.5	70-130			
Toluene	17.6	0.50	"	20.0		88.0	70-130			
Ethylbenzene	18.4	0.50	"	20.0		92.0	70-130			
Xylenes (total)	55.0	0.50	"	60.0		91.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	*28.8*		"	*30.0*		*96.0*	*70-130*			
LCS Dup (1E29002-BSD1)				Prepared & Analyzed: 29-May-01						
Benzene	18.6	0.50	ug/l	20.0		93.0	70-130	6.25	20	
Toluene	19.5	0.50	"	20.0		97.5	70-130	5.97	20	
Ethylbenzene	20.0	0.50	"	20.0		100	70-130	6.76	20	
Xylenes (total)	60.8	0.50	"	60.0		101	70-130	4.97	20	
Surrogate: a,a,a-Trifluorotoluene	*29.7*		"	*30.0*		*99.0*	*70-130*			

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 07:44

Diesel Hydrocarbons (C9-C24) with Silica Gel Cleanup by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E25007 - EPA 3510B										
Blank (1E25007-BLK1)				Prepared: 25-May-01 Analyzed: 30-May-01						
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	*27.3*		"	*33.3*		*82.0*	*50-150*			
LCS (1E25007-BS1)				Prepared: 25-May-01 Analyzed: 30-May-01						
Diesel Range Hydrocarbons	312	50	ug/l	500		62.4	50-125			
Surrogate: n-Pentacosane	*20.3*		"	*33.3*		*61.0*	*50-150*			
LCS Dup (1E25007-BSD1)				Prepared: 25-May-01 Analyzed: 30-May-01						
Diesel Range Hydrocarbons	266	50	ug/l	500		53.2	50-125	15.9	50	
Surrogate: n-Pentacosane	*21.3*		"	*33.3*		*64.0*	*50-150*			

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 07:44

MTBE Confirmation by EPA Method 8260B - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1F01016 - EPA 5030B (P/T)										
Blank (1F01016-BLK1)				Prepared & Analyzed: 31-May-01						
Methyl tert-butyl ether	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*44.9*		"	*50.0*		*89.8*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*47.2*		"	*50.0*		*94.4*	*50-150*			
Blank (1F01016-BLK2)				Prepared & Analyzed: 01-Jun-01						
Methyl tert-butyl ether	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*46.2*		"	*50.0*		*92.4*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*46.5*		"	*50.0*		*93.0*	*50-150*			
LCS (1F01016-BS1)				Prepared & Analyzed: 31-May-01						
Methyl tert-butyl ether	46.3	2.0	ug/l	50.0		92.6	70-130			
Surrogate: Dibromofluoromethane	*45.3*		"	*50.0*		*90.6*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*45.1*		"	*50.0*		*90.2*	*50-150*			
LCS Dup (1F01016-BSD1)				Prepared & Analyzed: 01-Jun-01						
Methyl tert-butyl ether	48.5	2.0	ug/l	50.0		97.0	70-130	4.64	25	
Surrogate: Dibromofluoromethane	*46.4*		"	*50.0*		*92.8*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*46.4*		"	*50.0*		*92.8*	*50-150*			

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	07-Jun-01 07:44

Notes and Definitions

CC-3	Continuing Calibration indicates that the quantitative result for this analyte includes a greater than 15% degree of uncertainty. The value as reported is within method acceptance.
D-11	Chromatogram Pattern: Unidentified Hydrocarbons < C16
O-04	This sample was analyzed outside the EPA recommended holding time.
P-01	Chromatogram Pattern: Gasoline C6-C12
P-04	Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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

Chain-of-Custody-Record

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

Chevron Facility Number #9-0290
Facility Address 1802 Webster Street Alameda CA.
Consultant Project Number 345280.02
Consultant Name Gettler Ryan Inc.
Address 6747 Sierra Ct
Project Contact (Name) Andrew Smith ext 127
(Phone) (925)551-7444 (Fax Number) (925)551-7555

Chevron Contact (Name) Tom Bauhs
(Phone) WL05481
Laboratory Name Sequoia Analytical
Laboratory Release Number
Samples Collected by (Name) Andrew Smith
Collection Date 5/15/01 & 5/16/01
Signature Andrew Smith

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time Date	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015) *	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	MTBE EPA 8020 Confirm MTBE with EPA 8260				Remarks
								Analyses To Be Performed												* with Silica Gel Clean-up
SB1		7	W	G	5/16/01			✓	✓							✓	✓			
SB2		7	↓	↓	5/15/01			↓	↓							↓	↓			
SB4		7			5/16/01															
SB6		7			5/16/01															
SB8		7	↓	↓	5/16/01			↓	↓							↓	↓			

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Andrew Smith	GRI	5/17/01	Mark Coll	Sequoia	5/17/01 1550
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Mark Coll	Sequoia	5/17/01 1640			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			Mike Gonin		5/17/01 1640

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 91/MCH

Sequoia Analytical

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20 June, 2001

Deanna L. Harding
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Chevron
Sequoia Report: W106074

Enclosed are the results of analyses for samples received by the laboratory on 22-May-01 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater
Project Manager

CA ELAP Certificate #1271

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	20-Jun-01 07:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB2-6	W106074-01	Soil	15-May-01 00:00	22-May-01 16:00

Sequoia Analytical - Walnut Creek

Charlie Westwater, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	20-Jun-01 07:52

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB2-6 (W106074-01) Soil Sampled: 15-May-01 00:00 Received: 22-May-01 16:00									
pH	**8.04**	0.100	pH Units	1	1F08004	08-Jun-01	08-Jun-01	EPA 9045B	

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	20-Jun-01 07:52

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB2-6 (W106074-01) Soil	**Sampled: 15-May-01 00:00**	**Received: 22-May-01 16:00**							
Total Organic Carbon	**3100**	200	mg/kg	1	1060223	08-Jun-01	08-Jun-01	ASA 90-3	

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	20-Jun-01 07:52

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1F08004 - General Preparation										
Duplicate (1F08004-DUP1)		**Source: W105611-01**		Prepared & Analyzed: 08-Jun-01						
pH	12.2	0.100	pH Units		12.2			0.00	30	

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	20-Jun-01 07:52

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1060223 - General Preparation										
Blank (1060223-BLK1)				Prepared & Analyzed: 08-Jun-01						
Total Organic Carbon	ND	200	mg/kg							
LCS (1060223-BS1)				Prepared & Analyzed: 08-Jun-01						
Total Organic Carbon	10300	200	mg/kg	10000		103	80-120			
Matrix Spike (1060223-MS1)	**Source: W106074-01**			Prepared & Analyzed: 08-Jun-01						
Total Organic Carbon	9040	200	mg/kg	5000	3100	119	75-125			
Matrix Spike Dup (1060223-MSD1)	**Source: W106074-01**			Prepared & Analyzed: 08-Jun-01						
Total Organic Carbon	9040	200	mg/kg	5000	3100	119	75-125	0.00	35	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	20-Jun-01 07:52

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SUBCONTRACT ORDER

Sequoia Analytical - Walnut Creek

W106074

SENDING LABORATORY:

Sequoia Analytical - Walnut Creek
404 N. Wiget Lane
Walnut Creek, CA 94598
Phone: (925) 988-9600
Fax: (925) 988-9673
Project Manager: Charlie Westwater

RECEIVING LABORATORY:

Core Laboratory
3430 Unicorn Road
Bakersfield, CA 93308
Phone :661-392-8600
Fax: -

Received: 22-May-01 16:00

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: W106074-01	**Soil**	**Sampled: 15-May-01 00:00**	[redacted]	
Bulk Density	~~06-Jun-01~~ 15:00	12-Oct-01 00:00		ASTM D-2937
Misc. Subcontract	~~06-Jun-01~~ 15:00	11-Nov-01 00:00		particle size D-422-63, water cont. D-2216, permeabi06-Jun-01 15:00
Porosity	~~06-Jun-01~~ 15:00	12-Oct-01 00:00		

standard TAT on all analyses

CLF# 01126

Mike Gosin	6-5-01	[signature] C. Calabor	6/7/01
Released By	Date	Received By	Date
Released By	Date	Received By	Date

Core Lab
PETROLEUM SERVICES

Petroleum Services
3430 Unicorn Road
Bakersfield, California 93308
Tel: 661-392-8600
Fax: 661-392-0824
www.corelab.com

June 26, 2001

Sequoia Analytical
404 N. Wiget Lane
Walnut Creek, CA 94598
Attn: Charlie Westwater

Subject: Transmittal of Geotechnical Analysis Results
Project: W106074
Core Lab File No.: 57111-01126

A soil sample was submitted to our Bakersfield laboratory for geotechnical testing. Moisture content, porosity, permeability, bulk density and Particle Size were the requested geotechnical analyses. Accompanying this letter, please find the results of this study.

Moistue content was determined using standard ASTM methods D-2216. Porosity, permeability and density were measured and calculated as described in API RP-40, API Recommended Practice for Core-Analysis Procedure, 1960. Particle Size distribution was determined using standard sieves in combination with laser diffraction techniques.

We appreciate this opportunity to be of service to you. Should you have any questions, or if we may be of further help in the future, please do not hesitate to contact us.

Very truly yours,

Jeff Smith

Jeffry L. Smith
Laboratory Supervisor - Rock Properties

JLS:nw
1 original report: Addressee

Sequoia ANALYTICAL
W-106074

CL File No. : 57111-01126

GEOTECHNICAL ANALYSIS RESULTS

Sample ID	Permeability (Kair)			Permeability (Kinf)			Moisture Content		Porosity Total	Bulk Density		Matrix Dens.	Median Gr. Size	Description
	md	cm/sec	cm2	md	cm/sec	cm2	%	%PV	%BV	Dry g/cc	Nat. g/cc	g/cc	mm	
W106074-01	798	6.85E-04	6.98E-09	620	5.32E-04	5.43E-09	18.0	99.7	32.5	1.80	2.13	2.67	0.1847	Gray vf-mgr silty sand

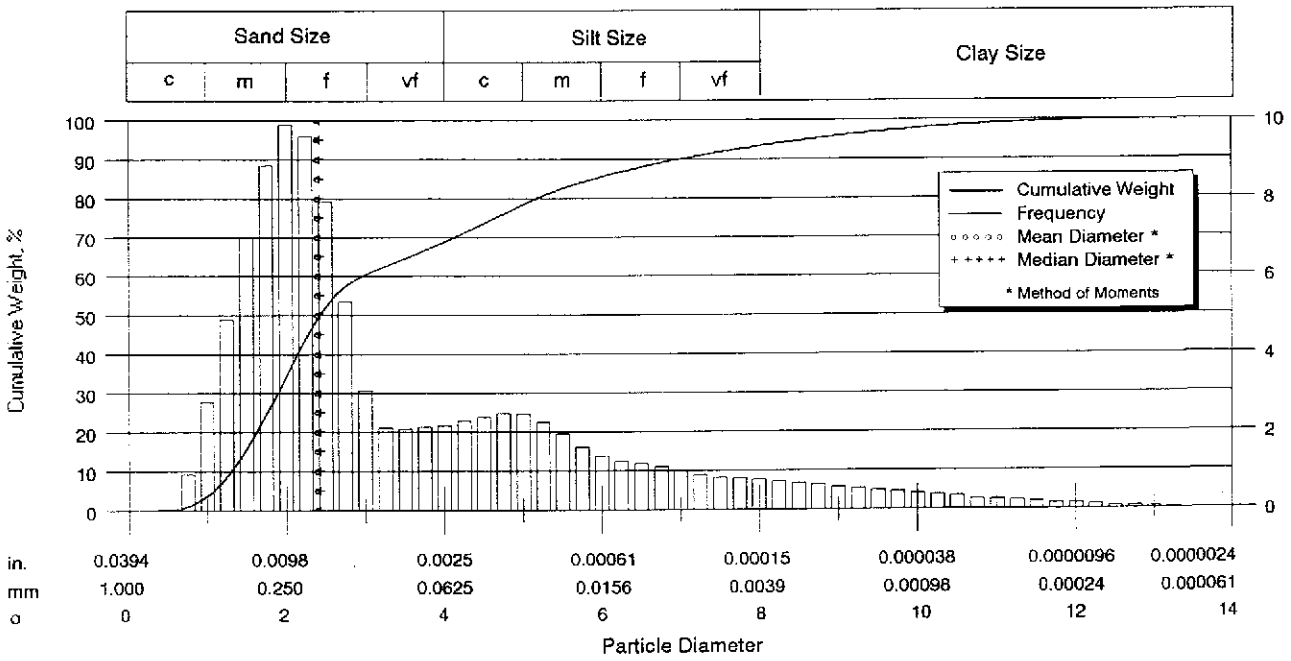
Permeability to air determined using steady-state methods as described in **API RP-40**.
Intrinsic permeability was determined empirically as per **API RP-27**.
Moisture content determined by **ASTM D-2216** standard methods.
Total porosity and sample densities determined as per **API RP-40**.
Particle size distribution determined using ASTM D-422 and ASTM D-4464.

CORE LABORATORIES

Core Lab
RESERVOIR OPTIMIZATION

Company	Sequoia Analytical	Smpl ID	W106074-1	File Number	57111-01126
Proj.#	W106074	Field		Date	11-June-2001
County		State		Analysts	NA

Laser Particle Size Analysis



Particle Size Distribution

	[U.S. Sieve]	Diameter [in]	[mm]	[phi]	Weight, % [Inc.]	[Cum.]
Coarse Sand	20	0.0331	0.84	0.25	0.00	0.00
	25	0.0280	0.71	0.50	0.03	0.03
	30	0.0232	0.59	0.75	0.92	0.95
	35	0.0197	0.50	1.00	2.77	3.72
Medium Sand	40	0.0165	0.42	1.25	4.88	8.60
	45	0.0138	0.35	1.50	6.99	15.59
	50	0.0118	0.30	1.75	8.85	24.44
	60	0.0098	0.25	2.00	9.87	34.31
Fine Sand	70	0.0083	0.210	2.25	9.59	43.90
	80	0.0070	0.177	2.50	7.91	51.81
	100	0.0059	0.149	2.75	5.34	57.15
	120	0.0049	0.125	3.00	3.07	60.22
Very Fine Sand	140	0.0041	0.105	3.25	2.10	62.32
	170	0.0035	0.088	3.50	2.08	64.40
	200	0.0029	0.074	3.75	2.13	66.53
	230	0.0025	0.063	4.00	2.17	68.70
Silt	270	0.0021	0.053	4.25	2.27	70.97
	325	0.0017	0.044	4.50	2.39	73.36
	400	0.0015	0.037	4.75	2.46	75.82
	450	0.0012	0.031	5.00	2.46	78.28
	500	0.0010	0.025	5.32	2.82	81.10
	635	0.0008	0.020	5.64	2.30	83.40
		0.00061	0.0156	6.00	2.04	85.44
		0.00031	0.0078	7.00	4.50	89.94
		0.00015	0.0039	8.00	3.27	93.21
Clay		0.000079	0.0020	9.00	2.60	95.81
		0.000039	0.00098	10.0	1.90	97.71
		0.000019	0.00049	11.0	1.24	98.95
		0.0000094	0.00024	12.0	0.71	99.66
		0.0000047	0.00012	13.0	0.30	99.96
		0.0000039	0.00010	13.3	0.04	100.00

Sorting Statistics

Parameter	[Moment]	[Trask]	[Inman]	[Folk]
Mean, in	0.0074	0.0042	0.0032	0.0042
Mean, mm	0.1902	0.1077	0.0810	0.1066
Mean, phi	2.3944	3.2147	3.6254	3.2291
Median, in	0.0072	0.0072	0.0072	0.0072
Median, mm	0.1847	0.1847	0.1847	0.1847
Median, phi	2.4367	2.4366	2.4366	2.4366
Std Deviation, in	0.0060	0.0126	0.0090	0.0085
Std Deviation, mm	0.1542	0.3239	0.2311	0.2169
Std Deviation, phi	2.6971	1.6262	2.1132	2.2046
Skewness	0.5730	1.3862	1.1512	0.6023
Kurtosis	-0.4150	0.2541	0.7928	1.0703
Mode, mm	0.2633			
95% Confidence	0.1600			
Limits, mm	0.2204			
Variance, mm2	0.0238			
Coef. of Variance, %	81.07			

Percentiles [Weight, %]	Particle Diameter [in]	[mm]	[phi]
5	0.0184	0.4728	1.0807
10	0.0158	0.4039	1.3078
16	0.0137	0.3506	1.5122
25	0.0115	0.2944	1.7640
50	0.0072	0.1847	2.4366
75	0.0015	0.0394	4.6653
84	0.0007	0.0187	5.7386
90	0.0003	0.0077	7.0166
95	0.0001	0.0025	8.6578

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

Chain-of-Custody-Record

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

Chevron Facility Number #9-0290
Facility Address 1802 Webster Street
Consultant Project Number 345280.02
Consultant Name Gettler-Ryan Inc
Address 6747 Sierra Ct Suite J
Project Contact (Name) Andrew Smith
(Phone) (925) 551-7444 Ext 127 (Fax Number) (925) 551-7888

Chevron Contact (Name) Tom Bauhs
(Phone)
Laboratory Name Sequoia Analytical
Laboratory Release Number
Samples Collected by (Name) Andrew Smith
Collection Date 5/15/01
Signature [signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	~~Extractable Organics (8270)~~ Bulk Density *	~~Metals~~ Soil Water Content *	Soil Porosity	Permeability ASTM D-2434	Soil PH (EPA 150.1/9045)	TOC EPA (415.1)	Partical Size (ASTM D-422-63)	Remarks
SB2-6	01A	1	S	D			Y							✓	✓	✓	✓	✓	✓	✓	

*(ASTM D-2937)
Water Content By ASTM D-2216

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Andrew Smith	GRT	5/22/01	Mark Collins	Sequoia	5-22-01/1455
Mark Collins	Sequoia	5-22-01/1600			
			Received For Laboratory By (Signature): Mike Goin		5/22 1600

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
~~5 Days~~
(10 Days) (circled)
As Contracted

COC-3.DWG/03 91/HCH

Sequoia
Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
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FAX (925) 988-9673
www.sequoialabs.com

21 May, 2001

Andrew Smith
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Chevron
Sequoia Report: W105365

Enclosed are the results of analyses for samples received by the laboratory on 17-May-01 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne Fegley For Charlie Westwater
Project Manager

CA ELAP Certificate #1271

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	21-May-01 15:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COMP 1 (A-D)	W105365-01	Soil	16-May-01 00:00	17-May-01 16:40

Julianne Fegley For Charlie Westwater, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	21-May-01 15:54

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
COMP 1 (A-D) (W105365-01) Soil	**Sampled: 16-May-01 00:00**		**Received: 17-May-01 16:40**						
Purgeable Hydrocarbons	**220**	10	mg/kg	200	1E16002	18-May-01	19-May-01	DHS LUFT	P-04
Benzene	**0.21**	0.050	"	"	"	"	"	"	
Toluene	**0.34**	0.050	"	"	"	"	"	"	
Ethylbenzene	**0.46**	0.050	"	"	"	"	"	"	
Xylenes (total)	**0.97**	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.7 %*		*40-140*		"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	21-May-01 15:54

Diesel Hydrocarbons (C9-C24) by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
COMP 1 (A-D) (W105365-01) Soil	**Sampled: 16-May-01 00:00**		**Received: 17-May-01 16:40**						
Diesel Range Hydrocarbons	**73**	10	mg/kg	10	1E21005	21-May-01	21-May-01	DHS LUFT	D-11
Surrogate: n-Pentacosane		*60.1 %*	*50-150*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	21-May-01 15:54

Total Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
COMP 1 (A-D) (W105365-01) Soil Sampled: 16-May-01 00:00 Received: 17-May-01 16:40									
Lead	5.5	1.0	mg/kg	1	1E17010	17-May-01	18-May-01	EPA 6010A	

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	21-May-01 15:54

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E16002 - EPA 5030B MeOH										
Blank (1E16002-BLK1)				Prepared & Analyzed: 16-May-01						
Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Surrogate: a,a,a-Trifluorotoluene	*0.662*		"	*0.600*		*110*	*40-140*			
Blank (1E16002-BLK2)				Prepared: 18-May-01 Analyzed: 19-May-01						
Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Surrogate: a,a,a-Trifluorotoluene	*0.712*		"	*0.600*		*119*	*40-140*			
LCS (1E16002-BS1)				Prepared: 16-May-01 Analyzed: 17-May-01						
Benzene	0.624	0.0050	mg/kg	0.800		78.0	50-150			
Toluene	0.686	0.0050	"	0.800		85.7	50-150			
Ethylbenzene	0.734	0.0050	"	0.800		91.8	50-150			
Xylenes (total)	2.22	0.0050	"	2.40		92.5	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.660*		"	*0.600*		*110*	*40-140*			
LCS (1E16002-BS2)				Prepared: 18-May-01 Analyzed: 19-May-01						
Benzene	0.720	0.0050	mg/kg	0.800		90.0	50-150			
Toluene	0.758	0.0050	"	0.800		94.8	50-150			
Ethylbenzene	0.788	0.0050	"	0.800		98.5	50-150			
Xylenes (total)	2.45	0.0050	"	2.40		102	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.704*		"	*0.600*		*117*	*40-140*			

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
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www.sequoialabs.com

Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	21-May-01 15:54

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E16002 - EPA 5030B MeOH										
Matrix Spike (1E16002-MS1)	**Source: W105362-01**			Prepared: 16-May-01 Analyzed: 21-May-01						
Benzene	ND	0.0050	mg/kg	0.800	ND		50-150			
Toluene	ND	0.0050	"	0.800	ND		50-150			
Ethylbenzene	ND	0.0050	"	0.800	ND		50-150			
Xylenes (total)	ND	0.0050	"	2.40	ND		50-150			
Surrogate: a,a,a-Trifluorotoluene	*0*		"	*0.600*			*40-140*			
Matrix Spike Dup (1E16002-MSD1)	**Source: W105362-01**			Prepared: 16-May-01 Analyzed: 21-May-01						
Benzene	ND	0.0050	mg/kg	0.800	ND		50-150		20	
Toluene	ND	0.0050	"	0.800	ND		50-150		20	
Ethylbenzene	ND	0.0050	"	0.800	ND		50-150		20	
Xylenes (total)	ND	0.0050	"	2.40	ND		50-150		20	
Surrogate: a,a,a-Trifluorotoluene	*0*		"	*0.600*			*40-140*			

Sequoia Analytical

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www.sequoialabs.com

Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	21-May-01 15:54

Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E21005 - EPA 3550B										
Blank (1E21005-BLK1)				Prepared & Analyzed: 21-May-01						
Diesel Range Hydrocarbons	ND	1.0	mg/kg							
Surrogate: n-Pentacosane	*0.622*		"	*1.11*		*56.0*	*50-150*			
LCS (1E21005-BS1)				Prepared & Analyzed: 21-May-01						
Diesel Range Hydrocarbons	11.6	1.0	mg/kg	15.0		77.3	60-140			
Surrogate: n-Pentacosane	*0.755*		"	*1.11*		*68.0*	*50-150*			

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	21-May-01 15:54

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E17010 - EPA 3050B										
Blank (1E17010-BLK1)				Prepared: 17-May-01 Analyzed: 18-May-01						
Lead	ND	1.0	mg/kg							
LCS (1E17010-BS1)				Prepared: 17-May-01 Analyzed: 18-May-01						
Lead	53.1	1.0	mg/kg	50.0		106	80-120			
LCS Dup (1E17010-BSD1)				Prepared: 17-May-01 Analyzed: 18-May-01						
Lead	51.1	1.0	mg/kg	50.0		102	80-120	3.84	20	
Matrix Spike (1E17010-MS1)		**Source: W105340-01**		Prepared: 17-May-01 Analyzed: 18-May-01						
Lead	56.8	1.0	mg/kg	50.0	8.1	97.4	80-120			
Matrix Spike Dup (1E17010-MSD1)		**Source: W105340-01**		Prepared: 17-May-01 Analyzed: 18-May-01						
Lead	55.3	1.0	mg/kg	50.0	8.1	94.4	80-120	2.68	20	

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-0290	**Reported:**
Dublin CA, 94568	Project Manager: Andrew Smith	21-May-01 15:54

Notes and Definitions

D-11	Chromatogram Pattern: Unidentified Hydrocarbons < C16
P-04	Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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

Chain-of-Custody-Record

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

Chevron Facility Number #9-0290
Facility Address 1802 Webster Street Alameda CA.
Consultant Project Number 345280.02
Consultant Name Gettler Ryan Inc.
Address 6747 Sierra Ct
Project Contact (Name) Andrew Smith EXT 127
(Phone) (925)551-7444 (Fax Number) (925)551-7555

Chevron Contact (Name) Tom Bowhs
(Phone) WIO5365
Laboratory Name Sequoia Analytical
Laboratory Release Number
Samples Collected by (Name) Andrew Smith
Collection Date 5/16/01
Signature Andrew Smith

Sample Number	Lab Sample Number	Number of Containers	Matrix (S = Soil, W = Water) (A = Air, C = Charcoal)	Type (G = Grab, C = Composite, D = Discrete)	Date	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (TCLP or AA)	Total Lead (6010)					Remarks
Comp-1 (ABCD)	01A-D	4	S	C	5/16/01	None	Yes	✓	✓							✓					

Relinquished By (Signature) Andrew Smith — Organization GRI — Date/Time 5/17/01
Relinquished By (Signature) Mark Coll — Organization Sequoia — Date/Time 5-14-01/1610
Relinquished By (Signature) — Organization — Date/Time
Received By (Signature) Mark Coll — Organization Sequoia — Date/Time 5-17-01/1530
Received By (Signature) — Organization — Date/Time
Received For Laboratory By (Signature) Mike Gonin — Date/Time 5/17/01 1640

Turn Around Time (Circle Choice)
24 Hrs.
(48 Hrs.)
5 Days
10 Days
As Contracted

COC-3.DWG 6/03 01/MCH