

GETTLER-RYAN INC.



TRANSMITTAL

TO: Mr. Thomas Bauhs

Chevron Products Company

P.O. Box 6004

San Ramon, CA 94583

DATE:

February 22, 2001

PROJ #:

20-9339

SUBJECT: Well Installation Report

Former Chevron Service Station #20-9339

5940 College Avenue Oakland, California

FROM:

Stephen J Carter Senior Geologist Gettler-Ryan Inc. 3140 Gold Camp Drive Suite 170 Rancho Cordova, CA 95670

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION	
1	February 20, 2001	Well Installation Report	

THESE ARE TRANSMITTED as checked below:

[] For review and comment	[] Approved as submitted	[] Resubmit _ copies for approva
[] As requested	[] Approved as noted	[] Submit _ copies for distributio
[] For approval	[] Return for corrections	[] Return corrected prints

[X] For Your Files

COMMENTS:

Enclosed is a copy of the referenced Report. If you have any questions, please call me at (916) 631-1314.

Cc:

Eva Chu, Alameda County Environmental Health Services; Donald Sweet, Property owner; Jim Brownell, Delta Environmental Inc..



3164 Gold Camp Drive Suite 200 Rancho Cordova, California 95670-6021 916/638-2085 FAX: 916/638-8385

at

Former Chevron Service Station #20-9339 5940 College Avenue Oakland, California

> GR Report No. 346521.02 Delta Project No. DG29/339

Prepared for:

Mr. Thomas Bauhs Chevron Products Company P.O. Box 6004 San Ramon, California 94583

Prepared by:

DELTA ENVIRONMENTAL CONSULTANTS INC.

Network Associate GETTLER - RYAN INC.

6747 Sierra Court, Suite J Dublin, California 94568

Andrew Smith Staff Geologist

Stephen/J. Carter Senior Geologist No. 5577

EDE GALIES

R.G. 5577

February 20, 2001

TABLE OF CONTENTS

INTRODUC ³	TION	1
SITE DESCR	RIPTION	1
PREVIOUS F	ENVIRONMENTAL WORK	1
	IVITIES	
Well Monite	lation	2
RESULTS O	F THE SUBSURFACE INVESTIGATION	3
Soil Analyti Groundwate	ANALYTICAL RESULTS	3
CONCLUSIO	ONS	4
	TABLES	
Table 1. Table 2. Table 3.	Soil Chemical Analytical Data Groundwater Chemical Analytical Data Groundwater Monitoring Data and Chemical Analytical Data	
	FIGURES	
Figure 1. Figure 2.	Vicinity Map Site Plan/Groundwater Elevation Map	
	APPENDICES	
Appendix A. Appendix B. Appendix C. Appendix D. Appendix E.	Field Methods and Procedures Monitoring Well Permit, Boring Logs, and Well Completion Reports Well Development Forms Surveyor's Report Chemical Analytical Reports and Chain-of-Custody Forms	

at

Former Chevron Service Station #20-9339 5940 College Avenue Oakland, California

> GR Report No. 346521.02 Delta Project No. DG29/339

INTRODUCTION

This report summarizes the results of a soil and groundwater investigation performed at former Chevron Station #20-9339, located at 5940 College Avenue in Oakland, California. The work was performed by Delta Environmental Consultants Inc. Network Associate Gettler-Ryan Inc. (GR) at the request of Chevron Products Company (Chevron) to evaluate if soil and groundwater downgradient of the subject site have been impacted by petroleum hydrocarbons. The scope of work included: obtaining the required monitoring well and encroachment permits; preparing a site safety plan; installing two monitoring wells; surveying the newly installed wells; developing and sampling the new wells; analyzing groundwater and selected soil samples; arranging for disposal of waste material; and preparing a report documenting the work. This work was proposed in GR Report No. 346521.01-1, Work Plan For Well Installation, dated March 1, 2000 and approved by the Alameda County Environmental Protection Division (ACEPD) in a letter dated March 6, 2000.

SITE DESCRIPTION

The subject site is located on the southeast corner of the intersection of College Avenue and Harwood Street in Oakland, California (Figure 1). Currently, the site is occupied by an office building where several businesses operate. Based on information supplied by Chevron, it appears a Chevron service station occupied the site from 1938 until 1968. Former site facilities consisted of four underground storage tanks (USTs), one dispenser island, an office building and a separate auto service building. Locations of pertinent site features are shown on Figure 2.

PREVIOUS ENVIRONMENTAL WORK

On August 3 and September 1, 1999, Piers Environmental Services (PES) advanced four soil borings (SB-1 through SB-4) in the vicinity of the suspected former UST pit. Groundwater was encountered at approximately 5 feet below ground Surface (bgs). The boring locations are shown on Figure 2. A grab groundwater sample was collected from each boring. Total Petroleum Hydrocarbons as gasoline, or TPHg (up to 190,00 parts per billion, or ppb) and benzene (up to 890 ppb) were detected in borings SB-1, SB-3 and SB-4. Methyl tertiary-butyl-ether, or MtBE (up to 650 ppb) was detected in SB-1 and SB-3 by EPA Method 8020. The sample from SB-4 was analyzed for fuel oxygenates (MtBE, tertiary-butyl alcohol, di-isopropyl ether, tertiary-amyl methyl ether and ethyl-tert-butyl ether) by EPA Method 8240. None of these compounds were detected. Petroleum hydrocarbons were not detected in boring SB-2.

Former Chevron Service Station #20-9339 5940 College Avenue Oakland, California 2 of 4

FIELD ACTIVITIES

Field work was conducted in accordance with GR's Field Methods and Procedures (Appendix A) and the Site Safety Plan dated December 5, 2000. Drilling permit #WOO-868 was obtained from the Alameda Public Works Agency and a Excavation Permit #X000214 was obtained for the City of Oakland. Underground Service Alert (USA) was notified prior to drilling at the site. Copies of the permits are included in Appendix B.

Well Installation

On December 6, 2000 a GR geologist observed Cascade Drilling Inc. (C57 #717510) installing two monitoring wells (MW-1 and MW-2) in the locations shown on Figure 2. A hand auger was used for the first five feet of each borehole in order to clear the locations of any underground utilities. A truck-mounted rig using 8-inch-diameter hollow stem augers advanced the boreholes to 21 feet bgs. A GR geologist prepared a log of each boring and screened soil samples in the field for the presence of volatile organic compounds. The screening data are presented on the boring logs (Appendix B).

The wells were constructed of 2-inch-diameter polyvinyl chloride (PVC) to a depth of 20 feet bgs. The bottom 15 feet of each well was screened with 0.02-inch machine-slotted casing. Lonestar #3 sand was placed in the annular space from the bottom of the boring to approximately 1 foot above the well screen. The wells were then sealed with hydrated bentonite followed by neat cement. Water resistant boxes installed in concrete were placed over the wells. Expandable well caps secured with locks were placed in the tops of the well casings. Well construction details are shown on the boring logs in Appendix B.

Drill cuttings were placed in 55-gallon drums and removed at the end of the day by Integrated Wastestream Management (IWM). Soil was transported to the Republic Landfill Services in Livermore California for disposal.

Well Monitoring, Development and Sampling

The wells were developed and sampled on January 3, 2001. Depth-to-water was measured and each well was checked for the presence of separate phase hydrocarbons (SPH). SPH were not found in the wells. Neither of the newly installed wells dewatered during development, and each well yielded a minimum of 10 casing volumes. Following development, groundwater samples were collected from each of the wells. Purge water generated during development and sampling procedures was transported by IWM to McKittrick for disposal. Well development procedures are included in Appendix A. Copies of the well development forms are included in Appendix C. Monitoring data are summarized in Table 2.

Former Chevron Service Station #20-9339 5940 College Avenue Oakland, California 3 of 4

Wellhead Survey

Following installation of the wells, the elevations were surveyed by Virgil Chavez Land Surveying of Vallejo, CA (license #6323). Top of casing and vault box elevations were measured relative to Mean Sea Level (MSL), and the horizontal locations of the wells were measured. The surveyor's report is included in Appendix D. Well elevations are summarized in Table 2.

RESULTS OF THE SUBSURFACE INVESTIGATION

Soil encountered during this investigation consisted of clay and silty sand to approximately 15 to 19 feet bgs. This material contained brick fragments and appeared to be fill material. A silty sand stratum was encountered at the bottom of each boring. Groundwater was encountered at 10 feet bgs at MW-2, but at MW-1 groundwater was not encountered. Based on the groundwater monitoring data collected on January 3, 2001, the water table beneath the site is at approximately 12.5 feet bgs. Detailed descriptions of the soil encountered during drilling are presented on the boring logs in Appendix B.

CHEMICAL ANALYTICAL RESULTS

All samples were analyzed by Sequoia Analytical in Walnut Creek, California (ELAP #1271). Soil samples from the well borings were analyzed for TPHg, benzene, toluene, ethylbenzene and xylenes (BTEX) and MtBE by DHS LUFT. Stockpile samples were analyzed for TPHg, BTEX and total lead by EPA Method 6010. Groundwater samples were analyzed for TPHg, BTEX, MtBE and Ethanol, TBA, DIPE, ETBE, TAME and 1,2-DCA by EPA Method 8260. Copies of the laboratory analytical reports and chains-of-custody are included in Appendix E.

Soil Analytical Results

Petroleum Hydrocarbons were not detected in either of the soil samples collected from well borings MW-1. The sample from well boring MW-2 at 4.5 feet bgs did not contain detectable concentrations of TPHg, benzene or MtBE, but did contain toluene (0.0062 parts per million or ppm), ethylbenzene (0.0054 ppm), and xylenes (0.021 ppm). The disposal characterization samples from the drill cuttings contained TPHg, BTEX and lead. Concentrations where acceptable to the disposal facility. These data are summarized in Table 1.

Groundwater Analytical Results

Petroleum hydrocarbons were detected in both wells. The samples from well MW-1 contained 930 ppb of an unidentified hydrocarbon in the C6-C12 range, 2.9 ppb of benzene and 14 ppb of MtBE by EPA Method 8020. The laboratory did not confirm the presence of MtBE or any of the other fuel additives by EPA Method 8260. Well MW-2 contained 2,100 ppb of TPHg, 110 ppb of benzene and 83 ppb of MtBE by EPA Method 8020. MTBE was confirmed in well MW-2 by EPA Method 8260 at a concentration of 2.2 ppb, but none of the other fuel additive compounds were detected. These data are summarized in Tables 2 and 3.

Former Chevron Service Station #20-9339 5940 College Avenue Oakland, California 4 of 4

Waste Disposal

Drill cuttings were removed from the site on December 6, 2000, by IWM. The drill cuttings were transported to the Republic landfill in Livermore California for disposal. Waste water generated during drilling and well development was transported by IWM to Mckittrick.

CONCLUSIONS

The purpose of this investigation was to evaluate if soil and groundwater downgradient of the subject site have been impacted by petroleum hydrocarbons. Hydrocarbon impact to soil in the vicinity of the well MW-2, adjacent to the western property boundary is negligible. Hydrocarbon impact was not identified across College Avenue in the vicinity of well MW-1. Additional assessment of soil conditions is not warranted.

Dissolved gasoline hydrocarbons were detected in both wells. A very low concentration of MtBE (2.2 ppb) was detected in well MW-2, adjacent to the former UST complex. This station closed in the late 1960s, prior to introduction of MtBE into gasoline in California. It is unlikely that the MtBE came from the former Chevron facility.

The dissolved hydrocarbon plume remains undefined. Additional monitoring and sampling is required to further assess both groundwater flow direction and plume configuration. GR recommends that the quarterly monitoring and sampling be implemented at this site, and that joint monitoring be implemented with the adjacent Sheaff's Garage. Groundwater samples from the Chevron wells should continue to be analyzed for TPHg, BTEX and MtBE (hits confirmed by EPA Method 8260). In addition, samples should also be analyzed for sulfate (SO4-), ferrous iron (Fe2+) alkalinity, dissolved oxygen (DO) and oxidation-reduction potential (ORP) to evaluate if natural biodegredation is occurring.

Table 1. Soil Chemical Analytical Data - Former Chevron Service Station #20-9339, 5940 College Ave. Oakland CA

Sample ID	Depth (Feet)	Date (Sampled)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MtBE (ppm)	Total Lead (ppm)
Well Boring M	<u>W -1</u>								
MW-1-4.5 MW-1-9.5	4.5 9.5	12-06-00 12-06-00	< 1.0 < 1.0	< 0.0050 < 0.0050	< 0.0050 < 0.0050	< 0.0050 < 0.0050	< 0.0050 < 0.0050	< 0.05 < 0.05	NA NA
Well Boring M	<u>W-2</u>								
MW-2-4.5	4.5	12-06-00	<1.0	< 0.0050	0.0062	0.0054	0.021	<0.050	NA
Drill Cuttings									
Comp-1-(A+B) Comp-2-(A+B)	NA NA	12-06-00 12-06-00	72 9.1	< 0.25 0.0061	< 0.25 0.022	0.31 0.044	0.77 0.10	NA NA	6.4 5.0

EXPLANATION:

TPHg = Total Petroleum Hydrocarbons as Gas

MtBE = Methyl tert-Butyl Ether

BTEX = Benzene, toluene, ethylbenzene, xylenes

ppm = parts per million

NA = Not Analyzed

ANALYTICAL METHODS:

TPHg, BTEX MtBE by DHS LUFT

Total Lead = EPA Method 6010

ANALYTICAL LABORATORY: Sequoia Analytical (ELAP #1271)

Table 2. Groundwater Chemical Analytical Data - Former Chevron Service Station #20-9339, 5940 College Ave. Oakland CA

Well ID	Date	Total Well Depth (ft.)	Well ¹ Elev. (ft. MSL)	Depth to Water (ft.)	Floating Product (ft.)	Ground Water Elevation (ft. MSL)	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
MW-1	01/03/01	20.10	196.91	12.75	0.0	184.16	930 ²	2.9	6.9	2.7	7.6	14
MW-2	01/03/01	20.06	197.35	12.48	0.0	184.87	2100 ³	110	11	63	25	83
Trip Blank	01/03/01	NA	NA	NA	NA	NA	<50	<0.50	<0.50	<0.50	<0.50	<2.5

Explanation

TPHg = Total Petroleum Hydrocarbons as gasoline

MTBE = Methyl tertiary butyl ether

ppb = Parts per billion

NA = Not applicable

ft. = feet

ft. MSL = feet relative to Mean Sea Level.

Analytical Methods

TPHg, BTEX, MtBE by 8020

Analytical Laboratory

Sequoia Analytical (ELAP #1271)

¹ Well elevations reported as top of casing (TOC) surveyed by Virgil Chavez, Licensed California Land Surveyor No. 6323.

²Chromatogram pattern indicates unidentified hydrocarbons C6-C12

³Chromatogram pattern indicates gasoline C6-C12

Table 3. Groundwater Monitoring Data and Chemical Analytical Data - Former Chevron Service Station #20-9339, 5940 College Ave. Oakland CA

Sample No.	Sample Date	Ethanol (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2 DCA (ppb)
MW-1	01/03/01	<500	<50	<2.0	<2.0	<2.0	<2.0	<2.0
MW-2	01/03/01	<500	<50	2.2	<2.0	<2.0	<2.0	<2.0

Explanation

MTBE=Methyl tert-butlyl ether

TBA = Tert-butyl alchohol

DIPE = Di-isopropyl ether

ETBE = Ethyl tert-butyl ether

TAME = Tert-amyl methyl ether

1,2-DCA = 1,2-Dichloroethane

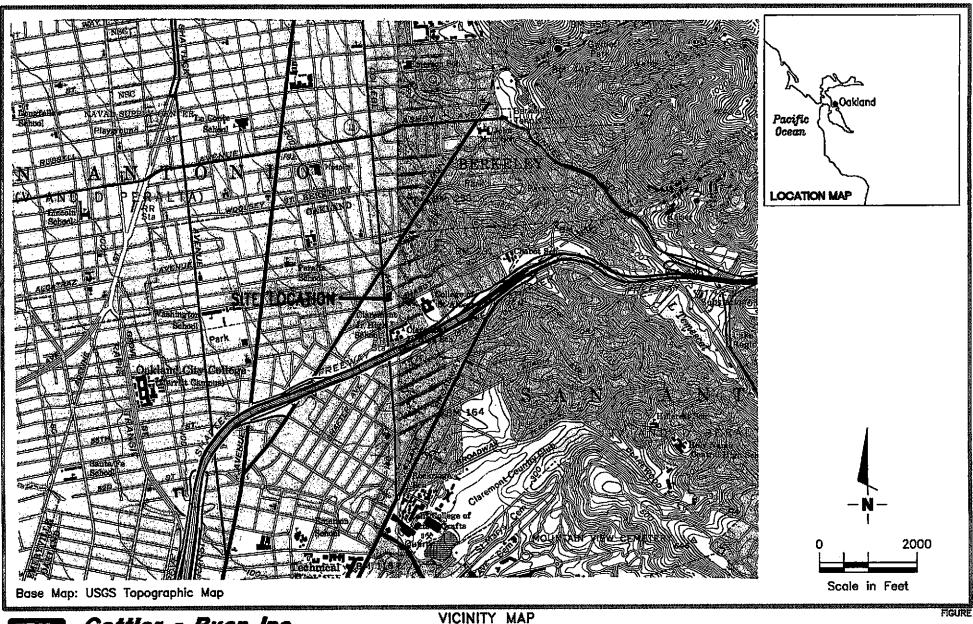
ppb = Parts per billion

Analytical Methods

Fuel oxygenates by EPA Method 8260

Analytical Laboratory

Sequoia Analytical (ELAP #1271)





Gettier - Ryan Inc.

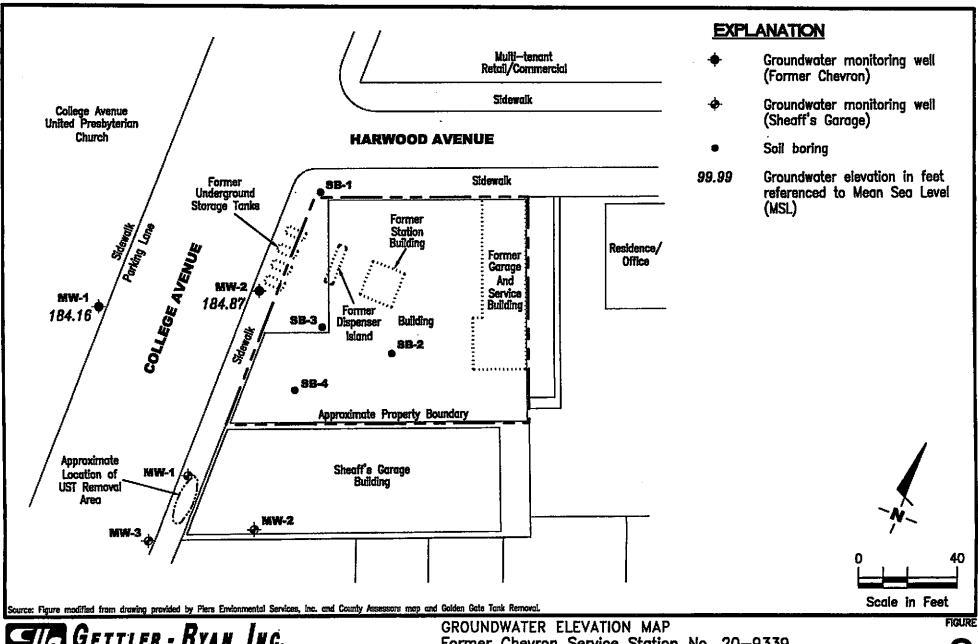
6747 Sierra Ct., Suite J Dublin, CA 94568

(925) 551-7555

Former Chevron Service Station No. 3-0021 5940 College Avenue Oakland, California

JOB NUMBER REVIEWED BY 346521.01

DATE 02/00 REVISED DATE



6747 Sierro Ct., Suite J Dublin, CA 94568 (925) 551-7555

Former Chevron Service Station No. 20-9339 5940 College Avenue Oakland, California DATE REVISED DATE

PROJECT NUMBER 346521

REVIEWED BY

January 3, 2001

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

Soil borings are drilled by a California-licensed well driller. A GR geologist is present to observe the drilling, collect soil samples for description, physical testing, and chemical analysis, and prepare a log of the exploratory soil boring. Soil samples are collected from the soil boring with a split-barrel sampling device fitted with 2-inch-diameter, clean brass tube or stainless steel liners. The sampling device is driven approximately 18 inches with a 140-pound hammer falling 30 inches. The number of blows required to advance the sampler each successive 6 inches is recorded on the boring log. The encountered soils are described using the Unified Soil Classification System (ASTM 2488-84) and the Munsell Soil Color Chart.

After removal from the sampling device, soil samples for chemical analysis are covered on both ends with teflon sheeting or aluminum foil, capped, labeled, and place in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Samples are selected for chemical analysis based in part on:

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

Field Screening of Soil Samples

A PID is used to perform head-space analysis in the field for the presence of organic vapors from the soil sample. This test procedure involves removing some soil from one of the sample tubes not retained for chemical analysis and immediately covering the end of the tube with a plastic cap. The PID probe is inserted into the headspace inside the tube through a hole in the plastic cap. Head-space screening results are recorded on the boring log. Head-space screening procedures are performed and results recorded as reconnaissance data. GR does not consider field screening techniques to be verification of the presence or absence of hydrocarbons.

Construction of Monitoring Wells

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

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

Measurement of Water Levels

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

Well Development and Sampling

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

Storing and Sampling of Drill Cuttings

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

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

APPENDIX B

MONITORING WELL PERMIT, BORING LOGS AND WELL COMPLETION REPORT



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 FLMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 675-5454 MARLON MAGALLAN PS/FRANK CODD (510) 670-6783
FAX (310)762-1339

DRILLING PERMIT	APPLICATION
FOR APPLICANT TO COMPLETE	FOR OFFICE USE
	AND TO SOO
LOCATION OF PROJECT 5940 College Ave	WELL NUMBER WELL NUMBER
cyatlan Git	APN.
<u> </u>	
	PERMIT CONDITIONS Circled Parall Requirement Apply
	ENGIGE Lander Leedameures vANA
	CENTRAL
NAME Chevron Products CO.	A permit application should be submissed so as to
Address 00 13 de 600 4 Phone (125) 842-889 8	arrive at the ACTWA effect five days prior to
City San Harron CA Tip 14583	proposed starting date. D) Submit to ACPWA within 60 days after completion of
	permitted work the original Department of Walki
None Adams South Gottler Byan	Quantity Well Campiches Roport.
56.6 50-7888	([j., remit is vald if project hat began within 30 4394 or
Address 6747 Sierra C+ Phone (925) 551- 7444	EX7 /27 Vagneral date
City suite T Dellie CA Zip	B. WAYER SUPPLY WELLS 1. Minimum swizer real thickness is two inches of
1	annest most placed by tremis.
TYPE OF PROJECT Well Construction Z Well Geowchnical Investigation	n winterman and double in 50 feet for many (1911 and
	ladvenist waltr or 20 feet for Jornanic and Internal
Cathodic Procession	wells unless a lesser depth is specially approved.
Monitoring O Well Destruction	C. GROUNDWATER MONITORING WELLS
Le Attantin 9	INCLUDING PIEZOMETERS 1. Minimum surface and thickness is two inches of
Proposed water supply well use	rement grout placed by tremic.
New Domestic 17 Replacement Democrate 17	3. Minimum seal depth for municuring wells is the
Municipal Irrigation U	maximum depth practicable or 20 feet.
Industrial (.) Other	- C-ATCOMICAL
nuit take seculation.	o_tan bee held by being with content from of content
DRILLING METHOD: Med Retary 11 Air Retary 'I Auger W	prouvising mixture. Upper two-three feet replaced in kind
Cable II Other	or with compacted cuttings.
د`ا حا احا	E CATHODIC Fill hole anode zone with concrete placed by tremie.
DRIVER'S NAME CASCAGE DEITHING	m numer mettelletien
DRILLER'S LICENSE NO. C577 17510	2044 2 Wath of most titery tobothic between tracedation
DRILLER'S LICENSE NO. CS TT TITLE	for wells deeper than 45 feet.
exp. +31-02	G SPECIAL CONDITIONS
WELL PROJECTS MINI-1	NOTE: One application must be automated for each well or well
Drill Mote Diameter 9" in. Maximum Casing Diameter 2n in. Bepth 20 a.	I A TO THE RESIDENCE TO THE PARTY OF THE PAR
2 autoca Sasi Dobih	To souther Scaldepth min 254. James bell Cup shall he a locking type. 11
GEOTECHNICAL PROJECTS	LOU C. O Chall he a locking type. 111
Mamper of Herings Number of Herings	Well cap sylling the
Ilale Diameterin. Depthfi.	1.410 1628-00
ESTIMATED STARTING DATE 12/6/00	APPROVED APPROVED DAYS. 1/28-00
ESTIMATED COMPLETION DATE 15 /6/0C/	APPROVED DATE.
A Secretary	Optionnes No. 21-48.
I hereby agree to comply with all requirements of his remained About its County	
APPLICANT'S SIGNATURE DATE	m/28/00\ \\
VILLICALI SOLONIONA	
PLEASE PRINT NAMU . Adrego South	EN-3-13-00 or the second of th
الله الموادية	The state of the s
The state of the s	randigate of the statement of the control of the co

** TOTAL PAGE.002 **



EXCAVATION PERMIT

CIVIL

PAGE 2 of 2

ENGINEERING TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

PERMIT NUMBER	0002214	SITE ADDRESS/LOCATION STORE COLLEGE AV
APPROX. START DATE	APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER
		(Permit not valid without 24-Hour number)
CONTRACTOR'S LICENSE # AN	TD CLASS	CITY BUSINESS TAX #
ATTENTION:		
State law requires that the inquiry identification nu	ac contractor/owner call Underground Se mber issued by USA. The USA telephon	ervice Aleri (USA) two working days before excavating. This permit is not valid unless applicant has secured an ne number is 1 (800) 642-2444. UNDERGROUND SERVICE ALERT (USA) #: 36002
2) 48 hours prior	to starting work, YOU M	UST-CALL (510) 238-3651 TO SCHEDULE AN INSPECTION.
OWNER/BUILDER		
provided that such improvements are burden of proving that he did not but I, as owner of the property, and be performed prior to sale, (3) I have structures more than once during any I, as owner of the property, and edoes not apply to an owner of proper	thereine Law does not apply to an owner or intended or offered for asie. If how illd or improve for the purpose of sale), exempt from the sale requirements of the cresided in the residence for the 12 months of the tension of the te	ractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law
WORKER'S COMPENSATION		
		ificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).
□ I certify that in the performance of		need, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws less).
granted upon the express condition the perform the obligations with respect and and employees, from and against any sustained or arising in the construction	permit shall be deemed revoked. This pe that the permittee shall be responsible for a to street maintenance. The permittee shall and all suits, claims, or actions brought to of the work performed under the perm	cou should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith fermit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to ill, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property it or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This d by the Director of the Office of Planning and Building.
I hereby affirm that I am licensed und this permit and agree to its requirement.	der provisions of Chapter 9 of Division 3 mts, and that the above information is tru	of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read and correct under penalty of law.
Signature of Permittee	Agent for A Contractor Owner	
DATE STREET LAST	SPECIAL PAVING DETAIL REQUIRED? Q YES AND	HOLIDAY RESTRICTION? LIMITED OPERATION AREA? (NOV 1 - JAN 1) YES - NO (7AM-9AM & 4PM-6PM) YES - NO
ISSUED BY	1	DATE ISSUED 11-E1-EU

lin # 220793

	6	eti	ler-R	yan, 1	inc.		Log of Bo	ring MW-1
PROJ	ECT:	Fora	ner Chevro	n Servic	e Statio	on No. 20-9339	LOCATION: 5940 College Ave	nue, Oakland, California
			.: 34652				CASING ELEVATION: 196.51	
DATE	STAI	RTED:	12/06/0	00			WL (ft. bgs): DATE:	TIME:
DATE	FINI	SHED	: 12/06/0	00			WL (ft. bgs): DATE:	TIME:
DRIL	LING I	METH	OD: <i>8 in</i> .	Hollow S	tem Aug	ger	TOTAL DEPTH: 21 feet	
DRIL	LING	COMP		cade Dri	illing		GEOLOGIST: Andrew Smith	
DEPTH (feet)	PIO (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT. GRAPHIC LOG	SOIL CLASS		GEOLOGIC DESCRIPTION	WELL DIAGRAM
1 1					CL	CLAY (CL) - re 85% clay, 10% s	ddish brown (5YR 4/4), dry, very stif It, 5% angular fine gravel.	k neat
4-	6.1	17	M₩14.5 ¹			At 5 feet color 3/1), becomes m	changes to very dark gray (7.5YR olst; 90% clay, 10% silt.	Plank schedule 40° PVC————————————————————————————————————
8 - - 12	5.5	34	MW-1-9.5			At 10 feet beco fragments.	omes hard; includes some brick	2" blank statted PVC (0.010 lnch) ————————————————————————————————————
- - - 16-	10.6	32	MW-1-14.5		SM	SILTY SAND (SM) - brown (10YR 5/3), moist, dense	2" machine
20-	24.0	>100	MW-1-19.5			At 20 feet col (10YR 6/4), be	or changes to light yellowish brown comes wet, very dense.	
24-						1	ng at 21 feet bgs. d to equivalent standard penetration	-
28-	- - - -							-

	G	eti	ler-R	yar	ı, I	nc.		Log of Boring	MW-2
PPO IE	. C. T.	Fore	nor Cheure	20 Se	rvice	Statio	n No. 20-9339	LOCATION: 5940 College Avenue,	Oakland, California
PROJECT: Former Chevron Service Station No. 20-9339 GR PROJECT No.: 346521.02							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CASING ELEVATION: 197.35	
DATE STARTED: 12/06/00								WL (ft. bgs): 10 DATE: 12/06/00	TIME: 14:25
			1: 12/06/					WL (ft. bgs): DATE:	TIME:
			OD: 8 in.		ow St	em Auc	ner	TOTAL DEPTH: 21 feet	
			ANY: Cas					GEOLOGIST: Andrew Smith	
		*	SAMPLE NUMBER		GRAPHIC LOG	CLASS	1	SEOLOGIC DESCRIPTION	WELL DIAGRAM
OEPTH (feet)	PID (ppm)	BLOWS/FT.	SAMPL	+		SOIL	- Company		
-				\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		SM	Concrete. SILTY SAND WI dry, soft; 65% f	TH GRAVEL (SM) — brown (7.5YR 4/3), ine sand, 20% angular gravel, 15% silt.	Manual Cement
4-	1.4	42	MW-2-4.5				At 5 feet includ	es brick fragments.	blank schedule 40 PVC
8-	3.6	37	MW-2-9.5				Â	mes wet, dense.	
12-	4.2	42	MW-2-14.	5		CL	90% clay, 10% s		2" machine slotted PVC (0.010 inch)
16							At 5 feet color 4/2).	changes to dark grayish brown (2.5Y	C8P 2"."
20-	8.9	42	MW-2-19.	.5		SM	SILTY SAND (dense; 85% fin	SM) - yellowish brown (10YR 5/6), moist, e sand, 15% sllt.	
	1			1	1			ng at 21 feet bgs.	
-					-		(* = converte blows/foot.)	d to equivalent standard penetration	
24-				-					_
-	-				1				
_									-
28-					4	ļ			

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

APPENDIX C WELL DEVELOPMENT FORMS

GETTLER - RYADAILY SAMPLING REP	PORT	
ite Location: Formur CHEVRON # 2093	39 Job# 34652	1.02
5940 COLLEGE AVE.	Date: 1/3/01	
Monitor Purge Sample Develop	CHECK LIST: Transfer Purge Water To: Drums on site: Holding tank: Total Purge Water (gals):	25
fotal # of Wells @ site:	Sampling Truck:	MPY
Water levels only:	Purge water trailer:	
Monitored/Sampled:	Traffic Control: Arrow board/road signs/con	es
PURGING EQUIPMENT:	SAMPLING EQUIPMENT: Teflon bailer	
Disposal bailer Teflon bailer	Disposable bailer	2
3/8" stack pumps 1" double diaphram Grundfo's	Grab sample Pressure bailer	
Gidildio	SPECIAL EQUIPMENT:	
OTHER EQUIPMENT:	SPECIAL EQUIPMENT. Turbidity Meter	
Gloves Bailer cord	D 0 Meter	
Well plug size # #	Re-Dox Meter	

Time Billed: 3.75 H

daily.frm

HAIG KEVORK

Sampled by:

Assistant:



MONITORING WELL OBSERVATION SUMMARY SHEET

IENT FAILUTY #: C	-ORMER -HEVRON#	209339	G-R JOB#:	34658	11.02
		LEGE AVE	•	1/3	101
		JD/CA			
Well ID	Total Depth	Depth to Water	Product Thickness	TOB or	Comments WME PURGE
MW-1 MW-2	20.10	12.48	9	TOC	12 gal
Comments:		· · · · · · · · · · · · · · · · · · ·			
Sampler:	TAIG- KI	EVORK	Assistant:	MA	

WELL MONITORING/DEVELOPMENT

Client/ FORMER Facility CHEVRIN #209339 Address: 5940 COLLEGE AVE, Date: 1/3/01 City: OAKLAND CA Sampler: HAIG K.
Address. The Coccition of the Coccition
City: OAKLAND CA Sampler: HAIG K
Well ID Well Condition: GoaD
Well Diameterin. Hydrocarbon Amount Bailed Thickness: Ft. (gal.)
Total Depth 20 , 0 ft. Volume $2^{\circ} = 0.17$ $3^{\circ} = 0.38$ $4^{\circ} = 0.66$
Depth to Water $2.75_{ft.}$ Factor (VF) $6' = 1.50$ $12'' = 5.80$
1.35 x VF 0.17 = 1.2 x s (case volume) = Estimated Purge Volume: 12 (gal.)
Purge Disposable Bailer Sampling Equipment: Bailer Equipment: Disposable Bailer
Stack
Grundfos Grab Sample
Other:
Starting Time: 12:58 Weather Conditions:
Sampling Time: 13:40 Water Color: CUSAR Odor:
Purging Flow Rate: 23/4 gpm. Sediment Description: 50MC SILT Did well de-water? W() If yes; Time: Volume: (gal.)
The west de-water:
Time Volume pH Conductivity Temperature D.O. ORP Alkalinity (gal.) μmhos/cm (mg/L) (mV) (ppm)
(gal.) µmhos/cm (mg/L) (mV) (ppm)
(gal.) µmhos/cm (mg/L) (mV) (ppm)
(gal.) μmhos/cm (mg/L) (mV) (ppm) 13:/111 1.5 4.52 1369 10.6
(gal.) μmhos/cm (mg/L) (mV) (ppm) 13:/111 1.5 4.52 1369 10.6
(gal.) μmhos/cm (mg/L) (mV) (ppm) 13:/11 1.5 4.52 1369 10.6
(gal.) μmhos/cm (mg/L) (mV) (ppm) 13:/11 1.5 4.52 1369 10.6
13:01 1.5 1.52 13.69 10.6 13:05 5 14:3 13:28 10.2 13:12 10 13:15 12:12 10 13:5 12:12 12:13 12:13 12:13 12:13 12:13 12:13 12:13 12:13 12:13 12:13 12:13 12:13 13:16 12 13:16 12 13:16 13 13:16
3:01 1.5 1.52 13.69 10.6 13:05 5 143 1328 10.2 13:12 10 131 1363 69:3 13:16 12 135 1281 68:8 13:16 12 135 1281 68:8 13:16 13 135 1281 68:8 13:16 13 135 1281 68:8 13:16 13 13:16 13 13:16 13 13:16 13 13:16 13 13:16 13 13:16 13 13:16 13 13:16 13 13:16 13 13:16 13 13:16 13 13:16 13 13:16 13 13:16 13 13:16 13 13:16 13 13:16
13:01 1.5 1.52 13.69 10.6 13:05 5 14:3 13:28 10.2 13:12 10 13:15 12:12 10 13:5 12:12 12:13 12:13 12:13 12:13 12:13 12:13 12:13 12:13 12:13 12:13 12:13 12:13 13:16 12 13:16 12 13:16 13 13:16
3.01 1.5 1.52 3.69 10.6 13.05 5 14.3 3.28 10.2 13.09 8 17.38 2.15 69.5 13.12 10 17.31 12.63 69.3 13.16 12 17.35 12.81 68.8 13.16 12 17.35 12.81 68.8 13.16 13 17.35 12.81 68.8 13.16 13 17.35 12.81 68.8 13.16 13 17.35 12.81 68.8 13.16 13 17.35 12.81 68.8 13.16 13 13.16 13 13.16 13 13.16 13 13.16 13 13.16 13 13.16 13 13.16 13 13.16 13 13.16 13 13.16 13 13.16 13.1
3201 1.5

9/97-fieldet.hm

WELL MONITORING/DEVELOPMENT

/	5. ~~	FIELD DATA	SHEET			
Client/ O Facility C	tevron # 20	9339	Job#:	3465	21,0	2
Address: 5	940 COLLEG	SE AUE.	Date:	131	01	
City: <u>Q Q</u>	KLAMD (<u> </u>	Sampler:	TAIG	K.	
Well ID	MW-2	Well Condition	on: GOOT)		
Well Diameter	<u>in.</u>	Hydrocarbon		Amount Bail		<i>-</i>
Total Depth	20.06 n	Thickness:	2" = 0.17	{product/water} $3^* = 0.38$		= 0.66
Depth to Water	12.48 1	Factor (VF)	6° = 1	.50 1	2" = 5.80	
	4.58 x VF	0.17 = 1.29	X 2 (case volume) =	Estimated Purg	volume: 1	3 (gal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:		Bai Pre Gra	sposable Baile iler essure Bailer ab Sample	er_	
Starting Time: Sempling Time: Purging Flow Ra Did well de-wat	ete: ~314	Water Co Sedimen	Conditions: plor: <u>CLEAR</u> t Description: _ <u></u> Time:	SOME SIL	Odor:	(Qal,]
Time	Volume pH (gal.)	Conductivity µmhos/cm	Temperature	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
13:58 14:04 14:08 14:15	1.5 7.38 5 7.29 8 7.27 10 7.26 13 7.23	14/4 1651 1623 1610 1568	72.8 72.0 71.8 71.5			
		LABORATORY I	NEORMATION		- 11 - 11 - 1	
SAMPLE ID		EFRIG. PRESERY	/. TYPE LABOR	RATORY	ANALY	
Mw-2	5 VOA'S "	(ES H	-CL SEE	<u> </u>		<u>86 8020</u> Ada 84
					42.8	ed
COMMENTS:				·	· — -· <u></u>	

. un uup	, -	• =	'		,,,,		,												·				
	-		محمد	Facility Humbei Facility Address	209	137	39 :	<u> </u>	<u> 2 A K</u>	ray	JD,	\mathcal{L}	2 £	howen	Contact	(Name)	MR.	TOM :	BAURS	0.8			
		- [Failty Address	59	40	<u>τώι</u>	rEC	<u>}</u> E_	JVE	<u> </u>		-1	·		(Phone	<u>) (92</u>	5) 84	2-00	70			
Chevren Produ		• ,	الماليون	Fadily Address at Project Humi		-46	55	<u> </u>	<u>၀၃</u>				<u> </u>	phoralor	y Name			<u> </u>	2-88				
P.O. BOX 6	6004	- 1.				TO 107 A 151	THE						_ 1	بماوميث	y Servic	Order							
Son Ramon, C	A 945	13 Y		6747 1	SIERR	a cou	KT.	RULLE	J,	DUBL!	N, C	945	<u> </u>	phorele	y Servic	e Code		UAI	(~)	ZEV	nB.	K	
FAX (925)842	2-83	70	/	et Contact (No	B	a/ba	ra S	iem	ensk	ن ــــــــــــــــــــــــــــــــــــ			•	arrylos	Caide	000	'⊶'') ∩ ()		<u>~ ///</u>	AT	1		
-		· •	Proje	Of Courses (un	92.	5-551	-755.	5_(re:	Hanbe	92:	-551	<u>-7899</u>	<u> s</u>	ignature 	-1))			7		7	TDAH	0	Remarks
				\r\r\r				Math	od.	M C	A []	OR		VA [J NW	Ser	ies	<u> </u>	G	" 	TDAG.	-	
		7					Office	AL.	•	<u>-</u>	<u>.</u> T		3			.		•	1	1	1		·
	- F	الأح	E		39	_ \	.	<u> </u>	1	1	1	_	3	1	4		3	1	1	1	·]	1	·
	1	₹6	1		至	ଞ୍ଜା		<u> (</u>	1	<u>}</u>	₹. \	1	35		\$ 1	8	1994-0 Extern		.	1	1	1	·
- i	8	≺ ∪	1	•	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	ES	1	1	10	30	1	3	27	=	٤	. E	9		1				
		35	*	Ę	\ \S 2	*8	90	£8	Į			£3	10	Eğ	Ę8	Ē	Ė					• !	Lab Sample Hd.
	3	S = See A		. 1	(8020 + 8015)		E.	85	20	~	a-	0					 					•	
		1	, ,	•	4		-						\			<u> </u>	 _					 	
TB-LB.	1	M	1KL	1/3/01		 	├┈	\	-	 					1	l	\			<u> </u>	 	 -	
MW-1	5	W	Hel	13:40	X	\	\		 	 	┼──	-	 	1] _		L	<u> </u>	 _	ļ
MW-2	7	W	HCL	1/3/01	١×		<u> </u>	\bowtie	┵┷	 	 - -		╂╼╾	┼	1	1	1.				<u> </u>		
14/40-24	1-	+					\	<u> </u>	<u> </u>	 	 	 	╂	╂	╂	┪━━	+	1				·	
	╁╌╾	╂╼╾	╂╼╼		1			\	1	<u> </u>	<u> </u>	<u> </u>	╁	 	- -	┼─	╂╌╾	╂	1		1		·
	-		┤┯	 	╅╾	1	1				<u> </u>			 	╂	 	┼╌	╂╼	┤──	1	1		
	<u> </u>	 	-}			+	+	1				 	1	<u> </u>		 			┨──	╂		-	
	<u> </u>	1_	<u> </u>		-}	╂		1-	┼─	1			T	<u> </u>	<u> </u>	<u> </u>			┦—	╂		╂──	-
	-					┽╌	+-	╉╼╸	┪┈┈	1	٦.		7.		.\				┩—	├			
	T			<u> </u>		<u> - - </u>	┼—	┼╌				1.							<u> </u>	ļ	-}		
	1						_	4	<u>└</u> ┤	- -	+-	╁╌		.	1	T		1	<u> </u>	<u> </u>		 	
		_	1-	1			_	<u> </u>	-}		╂—	╂╼	╌┼╌╌	╌	_				- I	1			
	╌┼╌╴			-						4-		4-			╌	╌┼╌╴		1				Ţ	
<u> </u>	╌	+-		1							-1	-	┿	╌╂╼╴		╌┼╌		╅╌		1	1		
			10	- 		:			٠.			1;_		┵		L_	100	<u>-</u>	-}	ـــــــــــــــــــــــــــــــــــــ		Time (Circle Choice)
And seed	-11-22	4>		Organization	Date	/had 2	ا (د)	hestred	By .(Si	gneturo))	0	ryentest	ion	Date/Ilm	₩	1000	1/11					
FLOOR	7(1(MA	MI	GAR INC.	· 1/3	1/01	X					<u> </u>					4-	44.64	-{			24 Hrs 48 Hrs	
1		(errel	LW	Organization		/fime		lovelred	sy (34	gnoturo	•	0	rgenitali	ion .	Dola/Thi	•	lood	Y/N				5 Doys	
	-y		_	1		•											<u> </u>		_	•		10 Day	
Relinquished (· (34-	refere)		Organization	Date	/Time					oy (5)		Dale/Thr			Ý/N			_	Contre	. 1
	-7 \8					-	ļ				olin			i	1/3/	01	118	30	1				

APPENDIX D SURVEYOR'S REPORT

Virgil Chavez Land Surveying

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

December 28, 2000 Project No. 1904-12

Andrew Smith Gettler-Ryan Inc. 6747 Sierra Court, Suite J Dublin, CA 94568-2611

Subject: Monitoring Well Survey

Former Chevron Station No. 3-0021

5940 College Avenue

Oakland, CA

Dear Andrew:

This is to confirm that we have proceeded at your request to survey the new wells located at the above referenced location. The survey was completed on December 27, 2000. The benchmark used for the survey was a City of Oakland benchmark being a cut square in the top of curb, at the curb return at the northeast corner of College Avenue and Miles Avenue. The station and offset data are relative to the west face of building, beginning at the southwest building corner. Measurements taken at approximate north side of top of box and top of casings were marked at location of measurements. Benchmark Elev. = 179.075 feet, MSL.

Well No.	Rim <u>Elevation</u>	TOC <u>Elevation</u>	Station	<u>Offset</u>
MW - 1 MW - 2 SW Bldg. Westerly	197.43' 197.58' Cor. Bldg. Face	196.91' 197.35'	0+26.47 0+56.75 0+00	-66.83(LT) -7.96(LT) 0.00 0.00

Sincerely,

Virgil D.

Chavez, PLS

APPENDIX E

CHEMICAL ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS



15 December, 2000

Barbara Sieminski Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin, CA 94568

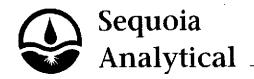
RE: Chevron Sequoia Report: W012202

Enclosed are the results of analyses for samples received by the laboratory on 07-Dec-00 17:18. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater Project Manager

CA ELAP Certificate #1271



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

Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Chevron

Project Number: Chevron # 30021 Project Manager: Barbara Sieminski Reported:

15-Dec-00 07:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Comp 1(A)+(B)	W012202-01	Soil	06-Dec-00 15:10	07-Dec-00 17:18
Comp 2(A)+(B)	W012202-02	Soil	06-Dec-00 17:05	07-Dec-00 17:18

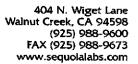
Sequoia Analytical - Walnut Creek

custody document. This analytical report must be reproduced in its entirety.

The results in this report apply to the samples analyzed in accordance with the chain of

Charlie Westwater, Project Manager







Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Chevron

Project Number: Chevron # 30021 Project Manager: Barbara Sieminski **Reported:** 15-Dec-00 07:30

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)+(B) (W012202-01) Soil	Sampled: 06-Dec	:-00 15:10 P	leceived:	07-Dec-00	17:18				P-04
Purgeable Hydrocarbons	72	50	mg/kg	1000	0L11003	11-Dec-00	11-Dec-00	DHS LUFT	S-01
Benzene	ND	0.25	"	**	**	H		n	
Toluene	ND	0.25	*1	**	TI	H .	п	11	
Ethylbenzene	0.31	0.25	**	11	**	H	н	11	
Xylenes (total)	0.77	0.25	11	11	**	"	**	II .	
Surrogate: a,a,a-Trifluorotoluene		%	40-	140	n	"	. "	"	S-01
Comp 2(A)+(B) (W012202-02) Soil	Sampled: 06-Dec	:-00 17:05 F	Received:	07-Dec-00	17:18				P-04
Purgeable Hydrocarbons	9.1	1.0	mg/kg	20	0L11003	11-Dec-00	11-Dec-00	DHS LUFT	
Benzene	0.0061	0.0050	n	#	R	11	**	я	
Toluene	0.022	0.0050	**	"	**	ш	**	#	
Ethylbenzene	0.044	0.0050	*1	**	n	H	· ·	"	
Xylenes (total)	0.10	0.0050	**	н	#	н	н		
Surrogate: a,a,a-Trifluorotoluene		75.7 %	40-	-140	"	"	"	"	





Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Chevron

Project Number: Chevron # 30021 Project Manager: Barbara Sieminski Reported:

15-Dec-00 07:30

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)+(B) (W012202-01) Soil	Sampled: 06-Dec	-00 15:10 F	teceived:	07-Dec-00	17:18				
Lead	6.4	1.0	mg/kg	1	0L08022	08-Dec-00	11-Dec-00	EPA 6010A	
Comp 2(A)+(B) (W012202-02) Soil	Sampled: 06-Dec	-00 17:05 F	Received:	07-Dec-00	17:18				
Lend	5.0	1.0	mg/kg	1	0L08022	08-Dec-00	11-Dec-00	EPA 6010A	

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Project: Chevron

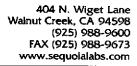
Project Number: Chevron # 30021 Project Manager: Barbara Sieminski **Reported:** 15-Dec-00 07:30

Dublin CA, 94568

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 0L11003 - EPA 5030B [MeOH]										
Blank (0L11003-BLK1)				Prepared	& Analyz	ed: 11-De	c-00			
Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	II							
Toluene	ND	0.0050	**							
Ethylbenzene	ND	0.0050	11							
Xylenes (total)	ND	0.0050	,,			•				
Surrogate: a,a,a-Trifluorotoluene	0.660		"	0.600		110	40-140			
LCS (0L11003-BS1)				Prepared	& Analyz	ed: 11-De				
Benzene	0.626	0.0050	mg/kg	0.800		78.2	50-150			-
Toluene	0.656	0.0050	**	0.800		82.0	50-150			
Ethylbenzene	0.738	0.0050	**	0.800		92.2	50-150			
Xylenes (total)	2.22	0.0050	**	2.40		92.5	50-150			
Surrogate: a,a,a-Trifluorotoluene	0.656	 	. "	0.600	·	109	40-140			
Matrix Spike (0L11003-MS1)	So	ource: W0121	21-01	Prepared	& Analyz	.ed: 11-De				
Benzene	0.604	0.0050	mg/kg	0.800	ND	75.5	50-150			
Toluene	0.638	0.0050	Ħ	0.800	ND	79.8	50-150			
Ethylbenzene	0.712	0.0050	•	0.800	ND	89.0	50-150			
Xylenes (total)	2.16	0.0050	11	2.40	ND	90.0	50-150			
Surrogate: a,a,a-Trifluorotoluene	0.510		n n	0.600		85.0	40-140	······		
Matrix Spike Dup (0L11003-MSD1)	Se	ource: W0121	21-01	Prepared	& Analyz	ed: 11-De	:c-0 0			
Benzene	0.592	0.0050	mg/kg	0.800	ND	74.0	50-150	2.01	20	
Toluene	0.634	0.0050	**	0.800	ND	79.2	50-150	0.629	20	
Ethylbenzene	0.716	0.0050	**	0.800	ND	89.5	50-150	0,560	20	
Xylenes (total)	2.17	0.0050	п	2.40	ND	90.4	50-150	0.462	20	
Surrogate: a, a, a-Trifluorotoluene	0.492		"	0.600		82.0	40-140			

₿





Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Chevron

Project Number: Chevron # 30021 Project Manager: Barbara Sieminski **Reported:** 15-Dec-00 07:30

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 0L08022 - EPA 3050B										
Blank (0L08022-BLK1)	·			Prepared:	08-Dec-0	0 Analyze	d: 11-Dec	-00		
Lead	ND	1.0	mg/kg							
LCS (0L08022-BS1)				Prepared:	08-Dec-0	0 Analyze	d: 11 -Dec	-00		
Lead	53.9	1.0	mg/kg	50.0		108	80-120			
LCS Dup (0L08022-BSD1)				Prepared:	08-Dec-0	0 Analyze	:d: 11 -De c	-00		
Lead	54.2	1.0	mg/kg	50.0		108	80-120	0.555	20	



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 Dublin CA, 94568 Project Number: Chevron # 30021 Project Manager: Barbara Sieminski **Reported:** 15-Dec-00 07:30

Notes and Definitions

P-04 Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons C6-C12

S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or

matrix interferences.

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

☐ Yes Fax copy of Lab Report and COC to Chevron Contact: □ No Chain-of-Custody-Record #30021 Chevren Contact (Name) Thomas Bouchs Chevron Facility Number___ 5940 College Ave Oakland (Phone)_____ Consultant Project Number 346521.02 Chevron U.S.A. Inc. Laboratory Name Seguoia Gettler Ryan Inc. 6747 Sierra Ct. P.O. BOX 5004 Laboratory Release Number San Ramon, CA 94583 Samples Collected by (Harne)... FAX (415)842-9591 Project Contact (Name) Barhava Sieminski (Phone 123) 531-7444 (Fax Number) 925) 531-7888 Analysee To Be Performed At Charcooli Purpettie Aromatica (8020) Purpettie Organica (8240) Extractable Organica (8270) Off and Greate (5520) Purpachie Halocarbon (8010) BIEX + TPH CAS (8020 + 8015) Remarks 1510 COMP-I(A) (B) COMP-2(A 5 1705 **∉**(13) Turn Around Time (Circle Choice) Date/Time Organization Received By (Signature) Relinquished By (Signature Organization Date/Time Sequell 24 Hrei GKI 2/ =/00, 1000 48 Hrs. Received By (Signature) Organization Date/Time Date/Time Relinquished By (Signature) Organization Date/Time Recieved For Laboratory By (Signature) Date/Time Organization Relinguished By (Signature)



27 December, 2000

Barbara Sieminski Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin, CA 94568

RE: Chevron Sequoia Report W012203

Enclosed are the results of analyses for samples received by the laboratory on 07-Dec-00 17:18. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater Project Manager

CA ELAP Certificate #1271



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

Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Chevron

Project Number: Chevron # 3-0021 Project Manager: Barbara Sieminski Reported: 27-Dec-00 08:01

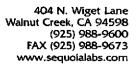
ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1-4.5	W012203-01	Soil	06-Dec-00 16:20	07-Dec-00 17:18
MW-1-9.5	W012203-02	Soil	06-Dec-00 16:25	07-Dec-00 17:18
MW-2-4.5	W012203-03	Soil	06-Dec-00 14:20	07-Dec-00 17:18

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.





Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Chevron

Project Number: Chevron # 3-0021 Project Manager: Barbara Sieminski Reported: 27-Dec-00 08:01

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
MW-1-4.5 (W012203-01) Soil	Sampled: 06-Dec-00 10	5:20 Receive	ed: 07-De	c-00 17:18	3				
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	0L11003	11-Dec-00	15-Dec-00	EPA 8015/8020	
Benzene	ND	0.0050	*	Ħ	1)	*	"	•	
Toluene	ND	0.0050	**	H	**			H	
Ethylbenzene	ND	0.0050	Ħ	"	9 1	**	11	*	
Xylenes (total)	ND	0.0050	**	*	**	11	**	**	
Methyl tert-butyl ether	ND	0.050	#1	11	**	h	**	11	
Surrogate: a,a,a-Trifluorotoluen	e	98.7%	40-	140	n	π	"	"	
MW-1-9.5 (W012203-02) Soil	Sampled: 06-Dec-00 1	6:25 Receive	ed: 07-De	ec-00 17:18	8				
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	0L11003	11-Dec-00	15-Dec-00	EPA 8015/8020	
Benzene	ND	0.0050		н	*	Ħ	11	н	
Toluene	ND	0.0050		"	**	**	**	11	
Ethylbenzene	ND	0.0050	**	u	Ħ	*1	•	11	
Xylenes (total)	ND	0.0050	"	**	"	31	**	11	
Methyl tert-butyl ether	ND	0.050	**	**	"	11	11		
Surrogate: a,a,a-Trifluorotoluen	e	90.7%	40-	140	н	tt	"	r	
MW-2-4.5 (W012203-03) Soil	Sampled: 06-Dec-00 1	4:20 Receive	ed: 07-D	ec-00 17:1	8				
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	0L11003	11-Dec-00	15-Dec-00	EPA 8015/8020	
Benzene	ND	0.0050	#	н	π	H	11	n	
Toluene	0.0062	0.0050	**	"	**	"	19	п	A-01
Ethylbenzene	0.0054	0.0050		**		II	"	**	A-01
Xylenes (total)	0.021	0.0050	11	н	11	H	**	n	A-01
Methyl tert-butyl ether	ND	0.050	**	n	н	**		**	
Surrogate: a,a,a-Trifluorotoluen	ne	86.0 %	40-	-140	n	"	,,	"	

Page 2 of 4



Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

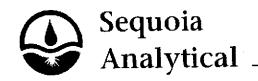
Dublin CA, 94568

Project: Chevron

Project Number: Chevron # 3-0021 Project Manager: Barbara Sieminski Reported: 27-Dec-00 08:01

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 0L11003 - EPA 5030B [MeOH]										
Blank (0L11003-BLK1)		_	•	Prepared	& Analyz	ed: 11-De	c-00			
Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	14							
Toluene Toluene	ND	0.0050								
Ethylbenzene	ND	0.0050	91							
Xylenes (total)	ND	0.0050	11							
Methyl tert-butyl ether	ND	0.050	**							
Surrogate: a,a,a-Trifluorotoluene	0.660	.	"	0.600		110	40-140			
LCS (0L11003-BS1) Prepared & Analyzed: 11-Dec-00										
Benzene	0.626	0.0050	mg/kg	0.800		78.2	50-150			
Toluene	0.656	0.0050	н	0.800		82.0	50-150			
Ethylbenzene	0.738	0.0050	"	0.800		92.2	50-150			
Xylenes (total)	2.22	0.0050	**	2.40		92.5	50-150			
Surrogale: a,a,a-Trifluorotoluene	0.656		1)	0.600		109	40-140			
Matrix Spike (0L11003-MS1)	So	ource: W0121	21-01	Prepared	& Analyz	ed: 11-De	ec-00			
Benzene	0.604	0.0050	mg/kg	0.800	ND	75.5	50-150			
Toluene	0.638	0.0050	*	0.800	ND	79.8	50-150			
Ethylbenzene	0.712	0.0050	н	0.800	ND	89.0	50-150			
Xylenes (total)	2.16	0.0050	п	2.40	ND	90.0	50-150			
Surrogate: a, a, a-Trifluorotoluene	0.510	-	"	0.600		85.0	40-140			•
Matrix Spike Dup (0L11003-MSD1)	S	ource: W0121	121-01	Prepared	& Analya	zed: 11-De	ec-00			
Benzene	0.592	0.0050	mg/kg	0.800	ND	74.0	50-150	2.01	20	
Toluene	0.634	0.0050	91	0.800	ND	79.2	50-150	0.629	20	
Ethylbenzene	0.716	0.0050	"	0.800	ND	89.5	50-150	0.560	20	
Xylenes (total)	2.17	0.0050		2.40	ND	90.4	50-150	0.462	20	
Surrogate: a,a,a-Trifluorotoluene	0.492		"	0.600		82.0	40-140			



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

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Chevron

Project Number: Chevron # 3-0021 Project Manager: Barbara Sieminski Reported:

27-Dec-00 08:01

Notes and Definitions

A-01 Results as reported were not confirmed by an alternate column or method.

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: No <u>Chain-of-Custody-Recor</u> Cherron Contest (Home) Thomas Machs Chevron Facility Number #3 0021 College Aur sakkond 5940 Feelity Address ... Chevron U.S.A. Inc. Consultant Project Number 346521 .62 Laboratory Name ___ P.O. BOX 5004 Consultant Name___ Laboratory Release Number San Ramon, CA 94583 Samples Collected by (Harne)... Address..... (Name) Barbora Sieminski (Phone) 925) 551-7444 (Feet Number) 925) 551-7888 FAX (415)842-9591 Project Contact (Name). Analyses To Be Performed **₹**5 Composite Composite Purpeoble Organics (8240) Extractoble Organics (8270) TPH Deset (8015)
Oil and Grease (9520)
Purgeable Hologab (8010)
Purgeable Aromot (8020) BIEX + TPH GAS (8020 + 8015) **000** Remarks 1) hone 1620 MW-1-4.5 D 1625 non S MW-1-95 Hold MW-1- 14.5 Hold i) 1630 nonc 1) none 640 MW-1-195 Hold D 1420 non MW-Z-45 D MW-2- 9.5 Hold \$ 1425 nondo not MW-2-14.5 Hold nonc test Hold MW-2-19.5 Hold 1436 None Turn Around Time (Circle Choice) Date/Time Organization Received By (Signature) Date/Time Relinquished By (Signature) Organization Segvoir 12/7/00 1000 GRI 48 Hre. Organization Date/Time Received By (Signature) Date/Time Organization Relinquished By (Signature) TAT Date/Time Date/Ilme Reclaved For Laboratory By (Signature) Organization Relinguished By (Signature)



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

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Chevron

Project Number: Chevron # 209339 Project Manager: Deanna L. Harding Reported:

26-Jan-01 12:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W101077-01	Water	03-Jan-01 00:00	03-Jan-01 18:30
MW-1	W101077-02	Water	03-Jan-01 13:40	03-Jan-01 18:30
MW-2	W101077-03	Water	03-Jan-01 14:30	03-Jan-01 18:30

Sequoia Analytical - Walnut Creek

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.

Charlie Westwater, Project Manager

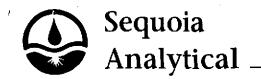
Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Chevron

Project Number: Chevron # 209339 Project Manager: Deanna L. Harding Reported: 26-Jan-01 12:18

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Walnut Creek

Analyte	Result	eporting Limit					Analyzed	Method	Notes
MW-1 (W101077-02) Water	Sampled: 03-Jan-01 13:40	Received	d: 03-Jan-0	1 18:30					
Ethanol	ND	500	ug/l	1	1A05009	05-Jan-01	08-Jan-01	EPA 8260B	
tert-Butyl alcohol	ND	50	N		•	"	. "	11	
Methyl tert-butyl ether	ND	2.0	11		**	н	41	R	
Di-isopropyl ether	ND	2.0	11		n	n	tt .	*	
Ethyl tert-butyl ether	ND	2.0	n	11	N	77	11	n	
tert-Amyl methyl ether	ND	2.0	H		**	и .	•	n	
1,2-Dichloroethane	ND	2.0	Ħ	-	Ħ	Ħ		"	
Surrogate: Dibromofluorometi	iane	100 %	50-1.	50	n	"	"	"	
Surrogate: 1,2-Dichloroethane		104 %	50-1.	50	tr	*	ir .	"	
MW-2 (W101077-03) Water	Sampled: 03-Jan-01 14:30	Receive	d: 03-Jan-	01 18:30					
Ethanol	ND	500	ug/l	1	1A05009	05-Jan-01	06-Jan-01	EPA 8260B	
tert-Butyl alcohol	ND	50	11	11	11	"	"	**	
Methyl tert-butyl ether	2.2	2.0	11	**	p	H	41	11	
Di-isopropyl ether	ND	2.0	**	"	**	н .	rt .	ti	
Ethyl tert-butyl ether	ND	2.0	4		**	"		. **	
tert-Amyl methyl ether	ND	2.0	Ħ	11	19	H	n		
1,2-Dichloroethane	ND	2.0	D	11	11		"	**	
Surrogate: Dibromofluoromet	hane	98.0 %	50-1	50	"		π	"	
Surrogate: 1,2-Dichloroethan		100 %	50-1	50	*	n	m	"	



Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Chevron

Project Number: Chevron # 209339 Project Manager: Deanna L. Harding Reported: 26-Jan-01 12:18

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

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W101077-01) Water	Sampled: 03-Jan-01 00:00	Receive	d: 03-Ja	n-01 18:30					
Purgeable Hydrocarbons	ND	50	ug/l	1	1A12002	12-Jan-01	12-Jan-01	EPA 8015M/8020	
Benzene	ND ·	0.50	n	11	**	н	11	u	
Toluene	ND	0.50	n	н	u	16	н	11	
Ethylbenzene	ND	0.50		H	*1	11	n	**	
Xylenes (total)	ND	0.50	**		Ħ	₩	н	11	
Methyl tert-butyl ether	ND	2.5	"	71	H	и .		IP	
Surrogate: a,a,a-Trifluorotolue	ne	135 %	70-	-130	"	"	"	"	
MW-1 (W101077-02) Water	Sampled: 03-Jan-01 13:40	Receive	d: 03-Jai	n-01 18:30					P-03
Purgeable Hydrocarbons	930	50	ug/l	1	1A12002	12-Jan-01	12-Jan-01	EPA 8015M/8020	
Benzene	2.9	0.50	11		11	•	Ħ	м	
Toluene	6.9	0.50	"	"	11	**	*1	m	
Ethylbenzene	2.7	0.50	**	n	Ħ	TI	Ħ	10	
Xylenes (total)	7.6	0.50	**	71	n		br	n	
Methyl tert-butyl ether	14	2.5	**	**		11	h	н	
Surrogate: a,a,a-Trifluorotolue	ne	78.0 %	70	-130	#	11	"	n	
MW-2 (W101077-03) Water	Sampled: 03-Jan-01 14:30	Receive	d: 03-Ja	n-01 18:30					P-01
Purgeable Hydrocarbons	2100	1000	ug/l	20	1A12002	12-Jan-01	12-Jan-01	EPA 8015M/8020	
Benzene	110	10	n	п	P	**	41	11	
Toluene	11	10		ŧı	Ħ	91	Ħ	ч	
Ethylbenzene	63	10	**	Ħ	**	41	"	Π	
Xylenes (total)	25	10	11		ų	н		11	
Methyl tert-butyl ether	83	50	#	77	fi	*		11	
Surrogate: a,a,a-Trifluorotolue	 ene	105 %	70	-130	"	"	"	n	

Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Chevron

Project Number: Chevron # 209339 Project Manager: Deanna L. Harding **Reported:** 26-Jan-01 12:18

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

Toluene	127	70-130			
ND 50 ug/l	127 : 12-Jan 90.0	70-130 1-01 70-130			
ND 0.50 "	: 12-Jan 90.0	1-01 70-130			
Toluene ND 0.50 " Ethylbenzene ND 0.50 " Xylenes (total) ND 0.50 " Methyl tert-butyl ether ND 2.5 " Surrogate: a,a,a-Triftuorotoluene 38.2 " 30.0 LCS (1A12002-BS1) Prepared & Analyzed Benzene 18.0 0.50 ug/l 20.0 Ethylbenzene 18.1 0.50 " 20.0 Ethylbenzene 18.0 0.50 " 20.0 Xylenes (total) 53.6 0.50 " 60.0 Surrogate: a,a,a-Triftuorotoluene 28.9 " 30.0 Matrix Spike (1A12002-MS1) Source: W101032-04 Prepared & Analyzed Benzene 17.4 0.50 ug/l 20.0 ND Toluene 17.8 0.50 " 20.0 ND Ethylbenzene 17.6 0.50 " 20.0 ND	: 12-Jan 90.0	1-01 70-130			
Description	: 12-Jan 90.0	1-01 70-130			
ND 0.50 ND	: 12-Jan 90.0	1-01 70-130			
Methyl tert-butyl ether ND 2.5 " Surrogate: a.a.a-Triftuorotoluene 38.2 " 30.0 LCS (1A12002-BS1) Prepared & Analyzed Benzene 18.0 0.50 ug/l 20.0 Toluene 18.1 0.50 " 20.0 Ethylbenzene 18.0 0.50 " 20.0 Xylenes (total) 53.6 0.50 " 60.0 Surrogate: a.a.a-Triftuorotoluene 28.9 " 30.0 Matrix Spike (1A12002-MS1) Source: W101032-04 Prepared & Analyzed Benzene 17.4 0.50 ug/l 20.0 ND Toluene 17.8 0.50 " 20.0 ND Ethylbenzene 17.6 0.50 " 20.0 ND	: 12-Jan 90.0	1-01 70-130			
Surrogate: a, a, a-Triftuorotoluene 38.2 " 30.0	: 12-Jan 90.0	1-01 70-130			
Columbia Columbia	: 12-Jan 90.0	1-01 70-130			
Benzene 18.0 0.50 ug/l 20.0 Toluene 18.1 0.50 " 20.0 Ethylbenzene 18.0 0.50 " 20.0 Ethylbenzene 18.0 0.50 " 20.0 Ethylbenzene 28.9 " 30.0 Ethylbenzene 28.9 " 30.0 Ethylbenzene 27.4 0.50 ug/l 20.0 ND Ethylbenzene 17.4 0.50 ug/l 20.0 ND Ethylbenzene 17.6 0.50 " 20.0 ND Ethylbenzene 20.0 ND Ethylbenzene 20.0 ND Ethylbenzene 20.0 ND 20.0 20.0 ND 20.0 ND 20.0 20.0 ND 20.0	90.0	70-130			
Toluene					
Ethylbenzene 18.0 0.50 " 20.0 Xylenes (total) 53.6 0.50 " 60.0 Surrogate: a,a,a-Triftuorotoluene 28.9 " 30.0 Matrix Spike (1A12002-MS1) Source: W101032-04 Prepared & Analyzed Benzene 17.4 0.50 ug/l 20.0 ND Toluene 17.8 0.50 " 20.0 ND Ethylbenzene 17.6 0.50 " 20.0 ND	90.5	70.120			
Sylenes (total) 53.6 0.50 60.0	30.3	70-130			
Surrogate: a,a,a-Triftuorotoluene 28.9 " 30.0 Matrix Spike (1A12002-MS1) Source: W101032-04 Prepared & Analyzed Benzene 17.4 0.50 ug/l 20.0 ND Toluene 17.8 0.50 " 20.0 ND Ethylbenzene 17.6 0.50 " 20.0 ND	90.0	70-130			
Matrix Spike (1A12002-MS1) Source: W101032-04 Prepared & Analyzed Benzene 17.4 0.50 ug/l 20.0 ND Toluene 17.8 0.50 " 20.0 ND Ethylbenzene 17.6 0.50 " 20.0 ND	89.3	70-130	•		
Benzene 17.4 0.50 ug/l 20.0 ND	96.3	70-130			
Toluene 17.8 0.50 " 20.0 ND Ethylbenzene 17.6 0.50 " 20.0 ND	: 12-Jar	n-01			
Ethylbenzene 17.6 0.50 " 20.0 ND	87.0	70-130			
	89.0	70-130			-
Xylenes (total) 52.7 0.50 " 60.0 ND	88.0	70-130			
	87.8	· 70-130			
Surrogate: a,a,a-Trifluorotoluene 28.3 " 30.0	94.3	70-130			
Matrix Spike Dup (1A12002-MSD1) Source: W101032-04 Prepared & Analyzed	l: 12-Jar	n-01			
Benzene 19.4 0.50 ug/l 20.0 ND	97.0	70-130	10.9	20	
Tohuene 19.6 0.50 " 20.0 ND	98.0	70-130	9.63	20	
Ethylbenzene 19.3 0.50 " 20.0 ND	96.5	70-130	9.21	20	
Xylenes (total) 56.7 0.50 " 60.0 ND		70-130	7.31	20	
Surrogate: a, a, a-Trifluorotoluene 31.9 " 30.0	94.5	70-130			

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

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Chevron

Project Number: Chevron # 209339 Project Manager: Deanna L. Harding **Reported:** 26-Jan-01 12:18

Volatile Organic Compounds 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 1A05009 - EPA 5030B [P/T]							· -			
Blank (1A05009-BLK1)				Prepared	& Analyz	ed: 05-Jar	ı-01			
Ethanol	ND	500	ug/l							
tert-Butyl alcohol	ND	50	n				-			
Methyl tert-butyl ether	ND	2.0	11							
Di-isopropyl ether	ND	2.0	Ħ							
Ethyl tert-butyl ether	ND	2.0	H	*						
tert-Amyl methyl ether	ND	2.0	**							
1,2-Dichloroethane	ND	2.0	11							
Ethylene dibromide	ND	2.0	tı							
Surrogate: Dibromofluoromethane	48.0		FF	50.0		96.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	46.0		*	50.0		92.0	. 50-150			
Blank (1A05009-BLK2)				Prepared	& Analyz	zed: 08-Ja	n-01			
Ethanol	ND	500	ug/l							
tert-Butyl alcohol	ND	50								
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	10							
Ethyl tert-butyl ether	ND	2.0	n							
tert-Amyl methyl ether	ND	2.0	*							
1,2-Dichloroethane	ND	2.0	#				•			
Ethylene dibromide	ND	2.0								
Surrogate: Dibromofluoromethane	49.0	<u> </u>	#	50.0		98.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	52.0		"	50.0		104	50-150			
LCS (1A05009-BS1) Prepared & Analyzed: 05-Jan-01										
Methyl tert-butyl ether	54.3	2.0	ug/l	50.0		109	70-130			
Surrogate: Dibromofluoromethane	49.0		*	50.0		98.0	50-150		•	
Surrogate: 1,2-Dichloroethane-d4	48.0		*	50.0		96.0	50-150			

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Chevron

Project Number: Chevron # 209339 Project Manager: Deanna L. Harding Reported: 26-Jan-01 12:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Walnut Creek

		Reporting		Spike	Source	A/DEG	%REC	DDD	RPD	Mass
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1A05009 - EPA 5030B [P/T]									 	
LCS (1A05009-BS2)				Prepared	& Analyz	ed: 08-Jan	-01			
Methyl tert-butyl ether	44.9	2.0	ug/l	50.0	···	89.8	70-130			
Surrogate: Dibromofluoromethane	49.0		H	50.0		98.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	<i>53.0</i>		,,	50.0		106	50-150			
Matrix Spike (1A05009-MS1) Source: W101053-03 Prepared & Analyzed: 05-Jan-01										
Methyl tert-butyl ether	51.9	2.0	ug/l	50.0	ND	104	60-150			
Surrogate: Dibromofluoromethane	48.0		p	50,0		96.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	50.0		,,	50.0		100	50-150			
Matrix Spike Dup (1A05009-MSD1)	Sc									
Methyl tert-butyl ether	51.1	2.0	ug/l	50.0	ND	102	60-150	1.55	25	
Surrogate: Dibromoftuoromethane	45.0		,,	50.0		90.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	49.0		"	50.0		98.0	50-150			



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

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Chevron

Project Number: Chevron # 209339 Project Manager: Deanna L. Harding Reported: 26-Jan-01 12:18

Notes and Definitions

Notes and Demnin

P-01 Chromatogram Pattern: Gasoline C6-C12

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

Cherron Freducts Co. P.O. BOX 6004 September	rux cop	ט ענ	I L	ו טר	zehorr d	una	CUC	.to	CHE	ALOUI	I CO	IIIO	ili l	או ר)		•					<u>دياب</u>	<u>lou</u>	-Kaeni
Fundamental Notes						20	931	39:	– () Ak	(LA/	UD	1C(<u>A</u> [hores	Contact	(Name	MR.	TOM	BAUH	IS			
P.O. BOX 6004 Son Ramon, CA 94585 Fraylet Central Name, SEXTLER-BYAN TAKE. Southern South Ramon, CA 94581 Fraylet Central Name, Sixtle State Southern			*			50	\mathbf{u}_{O}	COL	~ (/~ (,	٠L .	ナイソド	٤٠		_ `			(Phon	, (92	5) 8	<u>42-8</u>	1898			
P.O. BOX 6004 Son Ramon, CA 94585 Fraylet Central Name, SEXTLER-BYAN TAKE. Southern South Ramon, CA 94581 Fraylet Central Name, Sixtle State Southern	Chevron Prod	lucia (:a.		Feeling Address		3. L. C	50	21.	02				_] ,	واحمط	or Nemi	SEQ	UOTA		<u> </u>	WIL	<u> 270</u>	7.0	<u>, </u>
September Sept			··· [•											4.	واسمعام	غمست س	na Orde	<i>,</i>					<u> </u>	
FRI (\$22)\$P\$2-0310 Project Content (Dates) Signature Project Content (Dates) Signature Project Content (Dates) Project Content (Dates)	Con Possos (1 945	83	Consult	~2717	@T 200	וחים או	IDT .	SUITE	. J.	DUBL	LN, C	A 94	568	aharata	ni Sardi	ce Code	·		·	. 1.75	· ·	17	
State Method: @ CA OR WA NV Street State	CAY (025)RA	2-83	70	Add	1960	T C	- 40		سعن		, ,				ereios	Colimote	ri, 19, 4	Name)	HA	(``	KA	for	/	
State Method: G3 CA OR WA NN String State	IW (350)01		٦,	Proj	oot Contact (H	lame) <u></u>	5-551	-755	5/2//	*****	. 925	5-551	-789	9 9	Ignatur	•_\$	CORT	\mathfrak{P}	der			u		
Tight Tigh					(P	hone) 72	.,,,,,,		- (Fax	10.1100			1.00		VA :		Ser	ies	C) C	ĵΨ	IDAH	10	Remarks
Tight Tigh			75		••			State	Meth	od:	MC	<u>^ </u>	JOK	<u> </u>	10			•			· !	1	. [
TB-LB 1 W HCL 1/3/01 X O2 A - E NW-1 5 W HCL 1/3/00 X O3 V NW-2 5 W HCL 1/4/30 X O3			81	_	•	2		,	ろな	Š.	8	Į.		\$		4		Z					, }	•
TB-LB 1 W HCL 1/3/01 X O2 A - E NW-1 5 W HCL 1/3/00 X O3 V NW-2 5 W HCL 1/4/30 X O3		4	26	1	1	100	38	,	بهجر	1	6	Š.	3	32	I	₹.	Q .	Š			1			
TB-LB 1 W HCL 1/3/01 X O2 A - E MW-1 5 W HCL 1/3/01 X O3 V MW-2 5 W HCL 1/4/30 X O3	. 1	3	∢ ∪	Ğ.		**	FS	_		3	ŏ	7	8	ध्य		Ę	£	2		•		i		l
TB-LB 1 W HCL 1/3/01 X O2 A - E MW-1 5 W HCL 1/3/01 X O3 V MW-2 5 W HCL 1/4/30 X O3	1		쩅	E	Ě	\ \\ \\ \ _ \	1 7:	1 1 2 E	\$ g	10	10	275 70 10 10 10 10 10 10 10 10 10 10 10 10 10	18	10	පම්	र्विष्ठ	: ‡	Į	-	1	1	}	\ ·'	
TB-LB 1 W HLL 1/3/01 X O2 A - E MW-1 5 W HLL 1/3/01 X O3 J MW-2 5 W HLL 1/3/00 X O3	ş	Į	\$		1. 🖁	§§	ES	ES	1	ER.	\{\bar{2} \alpha \}	3º	52	33	5 .0	1 58	F			<u> - </u>	↓	↓ -	 	Cos Semple Inc.
TO-LB: 1 W RCL NW-15 W RCL 13 U.0 NW-2 5 W RCL 14 U.0 15 U.0 NW-2 1 Resident By (Signature) No generation No generatio	3	₹ .	Žw≥	×		. 1	<u> </u>	ļ	 		├		 							<u> </u>		<u> </u>		
MW-2, 5 W HCU (3.30) MW-2, 5 W HCU (4.30)		17	W	Her	1/3/01	\mathbb{Z}^{1}					├		 -	 _	┼─	-	1-			Τ.		1	L	
MW-2.5 WHCL (3.30) Compensation	113-213	╁╌	_		1/3/0	\times	1		X		<u> </u>	02	14-	15	 	-	╁╌╼	 	 	1	-			
Turn Around Time (Circle Choice) Received by (Signature) DelayTime DelayTi	Wm-1	12,			1/3/0	$H \bigcirc$	1		X	T .		03		<u>. </u>	<u> </u>	 	╁		├ ──	╂		┤──	+	1
Received by (Significance) Comparison C	MW-2	5	<u> w</u>	HCL	14135	식~		1	 	1		1		1	<u> </u>		4	┵	 -				+	1
Received by (Significance) Comparison C		l	<u> </u>					╂╼╼		 		1	1.	T	T .	. [<u> </u>	·	ļ				╅──	
Received by (Significance) Comparison C		1		1 _		_		-		╂──	╂╼╼	-	-		T			<u> </u>			_		╌┼╌╌	
Received by (Significance) Comparison C		┪	1-	•	·	<u> </u>				-	╅╾	+-		┼	1	1							 	
Description			-	-						ļ		-}			┼╌		+-					_		7
Description			-}	┼─	1	_		T	\ \	1_	<u> </u>			╌┼╼╌╴	-}		┽┷		 			\top		\
Comparison Com		_		╌			-			1	\	1.							╂	- -	_	1	1	
Comparison Com	·l	`	_	-}				1	1				\					_						_
Comparison Com					_		╌╁╌╾	╌┼╌╴		1-	 				•					_ _				
Description			<u> </u>					-}	╼┼┷┷	╌	╅╌	┪	_			_ ·			.]			_ _	_	
Shandated by Signature) Organization Date/Time Date							_ _			╌		-	\dashv		1-	- -					<u> </u>			
Shandated by Signature) Organization Date/Time Date		_ _			h	<u>·</u>		_ _	_ _	-					┽╌		- -	 	1				\top	
Received by (Signature) Corporate Stories				·/\	7		<u> </u>			<u> </u>	_ـــــــــــــــــــــــــــــــــــــ			ل_			_ <u>_</u>			╼╁┈	Turi	Acound	Time (Circle Choice)
Relinquished by (Signisture) Organization Date/Time Reserved By (Signature) Organization Date/Time Iced Y/M 48 Hrs. 5 Days 10 Days	- destated	- (13)			Depositation	Date	/Time	3.2	Received	By (Si	gnature)		10	rgantrol		DGRO/IN	N -	1	7"					
Rollaguished by (Signisture) Date/Time Resolved by (Signisture) 10 Days	Hell	1)[[X	11/01)	MII	GR INC	· 1/-	7/01	74	<u> </u>				<u> </u>					 					•	
10 Doys	Reliamished	by (31e	inture)	CW.	Organization	Dete	/Time		Reselved	9 (3	gnolure)	•	ò	rganizal	len .	Dete/IIr	no	leed	1/H					
Refinestated By (Signature) Organization Date/Time Recloved For Laboratory By (Signature) Date/Time Iced (I/N)	1		• *		1		<u> </u>						l_					<u> </u>	·	_	• •		•	
	Refineviehed	By (Sie	neturo)		Organization	Dete	/Time		Redeved	For La	toreton	By (S	Ignature)		Date/Tir	ne					(As		•