



# GETTLER-RYAN INC.

ENVIRONMENTAL PROTECTION

98 OCT 28 PM 4:06

## TRANSMITTAL

TO: Mr. Phil Briggs  
Chevron Products Company  
P. O. Box 6004  
San Ramon, California 94583

DATE: October 26, 1998  
PROJ. #: 346365.03  
SUBJECT: Well Destruction Report  
Chevron Station #9-2960  
2416 Grove Way  
Castro Valley, California

FROM:

Rick L. Fears  
Senior Geologist  
Gettler-Ryan Inc.  
3164 Gold Camp Drive, Suite 240  
Rancho Cordova, California 95670

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	October 16, 1998	Well Destruction Report

THESE ARE TRANSMITTED as checked below:

- For review and comment     Approved as submitted     Resubmit \_\_ copies for approval
- As requested     Approved as noted     Submit \_\_ copies for distribution
- For approval     Return for corrections     Return \_\_ corrected prints
- For Your Files

COMMENTS:

At Chevron's request, Gettler-Ryan is sending you one copy of the above referenced Report for your records. If you have any questions, please call me in our Sacramento office at (916) 631-1300, then I will forward this report to the following persons.

CC: Mr. Scott O. Seery, CHMM, Hazardous Materials Specialist, Alameda County Environmental Health Services, 1131 Harbor Bay Parkway, Suite 250, Alameda, California 94502.  
Mr. Lorenzo King P.E., Alameda County Public Works Agency, 399 Elmhurst Street, Hayward, California 94544.



# GETTLER-RYAN INC.

October 16, 1998

Mr. Phil Briggs  
Chevron Products Company  
P.O. Box 6004  
San Ramon, California 94583

**Subject: Well Destruction At Former Chevron Station #9-2960, 2416 Grove Way, Castro Valley, California**


Mr. Briggs:

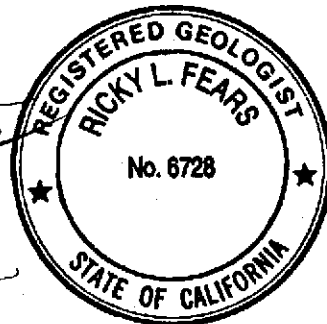
At the request of Chevron Products Company (Chevron), Gettler-Ryan Inc. (GR) destroyed three groundwater monitoring wells and one groundwater extraction well at the subject site (Figure 1). On September 15, 1998, Bay Area Exploration, Inc. (C57-522125) drilled out wells C1 through C3. On September 18, 1998, Bay Area Exploration drilled out one groundwater extraction well. Well locations and pertinent site features are shown on Figure 2. A summary of the destroyed wells is presented in Table 1.

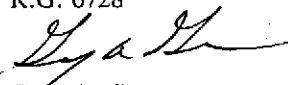
Three 3-inch diameter wells were drilled out with 8-inch diameter hollow stem augers and one six-inch diameter well was drilled out with 12-inch diameter hollow-stem augers to remove the casing, sandpack, and annular seal. The borings were then backfilled to ground surface with neat cement using a tremie pipe and pump. The borings were finished to surface grade with neat cement. Drill cuttings were stockpiled on and covered with plastic sheeting at the site pending disposal. One composite soil sample was collected from the drill cuttings for disposal characterization. Analytical results are attached. GR stockpile sampling procedures are attached. On September 29, 1998, the soil stockpile (totaling approximately 1.6 cubic yards) was removed from the site by Integrated Wastestream Management for disposal at the BFT's Vasco Road Landfill in Livermore, California.

The wells have been destroyed as required by California Department of Water Resources Bulletin 74-81 and 74-90 and Alameda County Public Works Agency guidelines (Permit No. 98WR353 Attached). If you have questions, please call us in Sacramento at (916) 631-1300.

Sincerely,  
Gettler-Ryan Inc.

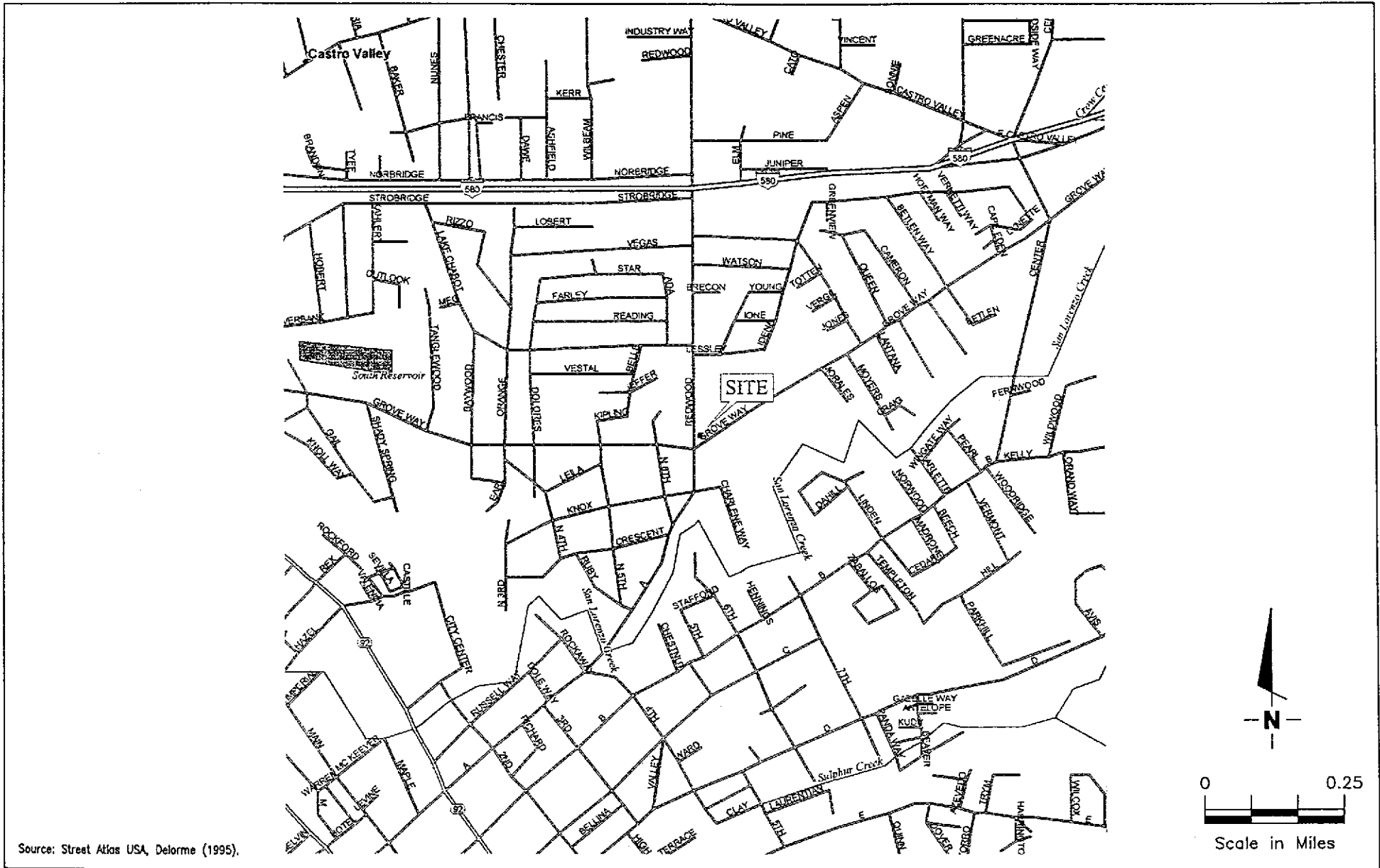
  
Ricky L. Fears  
Senior Geologist  
R.G. 6728



  
Greg A. Gurs  
Senior Project Manager

Attachments: Figure 1. Vicinity Map  
Figure 2. Site Plan  
Table 1. Summary of Well Depths  
Well Destruction Permit  
DWR Well Completion Report  
Laboratory Analytical Report and Chain-of-Custody Form  
GR Field Methods and Procedures

346365.03



Source: Street Atlas USA, Delorme (1995).



**Gettler - Ryan Inc.**

6747 Sierra Ct., Suite J (510) 551-7555  
 Dublin, CA 94568

VICINITY MAP  
 Former Chevron Service Station No. 9-2960  
 2416 Grove Way  
 Castro Valley, California

FIGURE

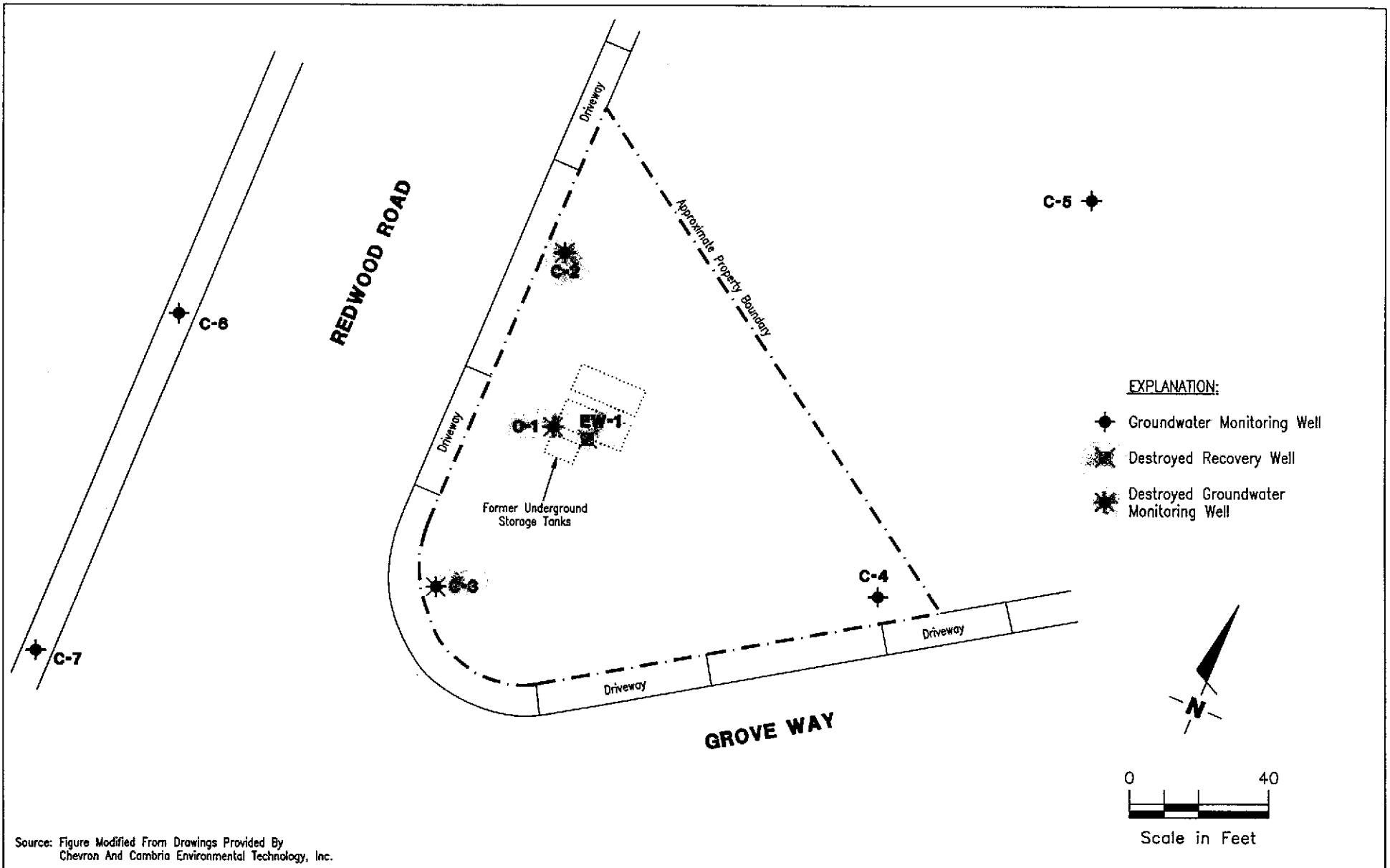
**1**

JOB NUMBER  
 6365

REVIEWED BY

DATE  
 1/97

REVISED DATE



**Gottler - Ryan Inc.**

6747 Sierra Ct., Suite J (510) 551-7555  
Dublin, CA 94568

**SITE PLAN**

Former Chevron Service Station No. 9-2960  
2416 Grove Way  
Castro Valley, California

FIGURE

**2**

JOB NUMBER  
346365

REVIEWED BY

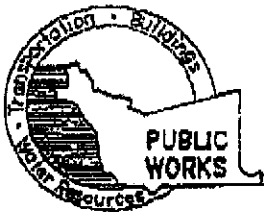
DATE  
10/98

REVISED DATE

**TABLE 1 - SUMMARY OF WELL  
DESTRUCTION ACTIVITIES  
Chevron Service Station #9-2960  
2416 Grove Way  
Castro Valley, California**

<b>Well ID No.</b>	<b>Date Destroyed</b>	<b>Well Diameter (inches)</b>	<b>Depth to Water (feet)</b>	<b>Installed Depth (feet)</b>	<b>Measured Depth (feet)</b>	<b>Drilled Depth (feet)</b>
C1	9/15/98	3.0	15.67	30.0	27.0	31.0
C2	9/15/98	3.0	14.03	30.5	29.7	31.5
C3	9/15/98	3.0	16.96	30.0	30.3	31.0
Extraction Well	9/18/98	6.0	14.80	30.0	29.1	31.0

Well destroyed in accordance with DWR water well standards  
(Bulletin 74 -81 and 74 - 90) and Alameda County Public Works Agency guidelines.



# ALAMEDA COUNTY PUBLIC WORKS AGENCY

## WATER RESOURCES SECTION

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651  
 PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262  
 (510) 670-5248 ALVIN KAN

### DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 2416 Grove Way  
Castro Valley, California

PERMIT NUMBER 90WR353  
 WELL NUMBER \_\_\_\_\_  
 APN \_\_\_\_\_

California Coordinates Source See Attached Map Accuracy ± \_\_\_\_\_ ft.  
 CCN \_\_\_\_\_ CCE \_\_\_\_\_ ft.  
 APN \_\_\_\_\_

### PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT Chevron Products Company - Phil Briggs  
 Name \_\_\_\_\_  
 Address PO BOX 6004 Phone \_\_\_\_\_  
 City San Ramon, CA Zip 94583

**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 work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
- ③ Permit is void if project not begun within 90 days of approval date.

APPLICANT Rick Fears, RG, Gettler-Ryan Inc.  
 Name \_\_\_\_\_  
 Address 3164 Gull Camp Dr, Suite 240 Phone (916) 631-1360  
 City Rancho Cordova, CA Zip 95670

**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.

**TYPE OF PROJECT**

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

**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.

**PROPOSED WATER SUPPLY WELL USE**

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

**D. GEOTECHNICAL**

Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cutting.

**DRILLING METHOD:**

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

**E. CATHODIC**

Fill hole above anode zone with concrete placed by tremie

DRILLER'S LICENSE NO. \_\_\_\_\_

**F. WELL DESTRUCTION**

See attached.

**WELL PROJECTS**

Drill Hole Diameter	<u>10</u> in.	Maximum	
Casing Diameter	<u>NA</u> in.	Depth	<u>31.5</u> ft.
Surface Seal Depth	<u>31.0</u> ft.	Number	<u>1</u>

**G. SPECIAL CONDITIONS**

**GEOTECHNICAL PROJECTS**

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

ESTIMATED STARTING DATE August 18, 1998 9/15/98  
 ESTIMATED COMPLETION DATE August 19, 1998 9/16/98

APPROVED [Signature] DATE 8/18

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

APPLICANT'S SIGNATURE Rick Y. Fears DATE 8/10/98

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**



**Sequoia  
Analytical**

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8  
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

(650) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

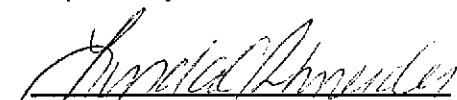
Gettler-Ryan - Sac 3164 Gold Camp Dr., Ste. 240 Rancho Cordova, CA 95670	Project: Chevron 9-2960, Castro Valley, CA Project Number: 346365.03 Project Manager: Rick Fears	Sampled: 9/18/98 Received: 9/21/98 Reported: 9/23/98
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**ANALYTICAL REPORT FOR SAMPLES:**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
SP1-A,B,C,D (Composite)	S809233-01	Soil	9/18/98

Sequoia Analytical - Sacramento

*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.*

  
Linda C. Schneider, Laboratory Director







Gettler-Ryan - Sac 3164 Gold Camp Dr., Ste. 240 Rancho Cordova, CA 95670	Project: Chevron 9-2960, Castro Valley, CA Project Number: 346365.03 Project Manager: Rick Fears	Sampled: 9/18/98 Received: 9/21/98 Reported: 9/23/98
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**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT  
Sequoia Analytical - Sacramento**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>SP1-A,B,C,D (Composite)</b>				<b>S809233-01</b>			<b>Soil</b>	
Purgeable Hydrocarbons	8090204	9/21/98	9/21/98		1.00	6.99	mg/kg	1
Benzene	"	"	"		0.00500	0.0109	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	0.0225	"	
Xylenes (total)	"	"	"		0.00500	0.121	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	60.0-140		82.5	%	





Gettler-Ryan - Sac 3164 Gold Camp Dr., Ste. 240 Rancho Cordova, CA 95670	Project: Chevron 9-2960, Castro Valley, CA Project Number: 346365.03 Project Manager: Rick Fears	Sampled: 9/18/98 Received: 9/21/98 Reported: 9/23/98
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**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT/Quality Control  
Sequoia Analytical - Sacramento**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 8090204</b>		<b>Date Prepared: 9/21/98</b>		<b>Extraction Method: EPA 5030B (MeOH)</b>						
<b>Blank</b>		<b>8090204-BLKI</b>								
Purgeable Hydrocarbons	9/21/98			ND	mg/kg	1.00				
Benzene	"			ND	"	0.00500				
Toluene	"			ND	"	0.00500				
Ethylbenzene	"			ND	"	0.00500				
Xylenes (total)	"			ND	"	0.00500				
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.187	"	60.0-140	93.5			
<b>LCS</b>		<b>8090204-BSI</b>								
Benzene	9/21/98	0.200		0.205	mg/kg	70.0-130	102			
Toluene	"	0.200		0.196	"	70.0-130	98.0			
Ethylbenzene	"	0.200		0.193	"	70.0-130	96.5			
Xylenes (total)	"	0.600		0.576	"	70.0-130	96.0			
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.188	"	60.0-140	94.0			
<b>Matrix Spike</b>		<b>8090204-MSI</b>	<b>S809221-01</b>							
Benzene	9/21/98	0.200	ND	0.193	mg/kg	60.0-140	96.5			
Toluene	"	0.200	ND	0.188	"	60.0-140	94.0			
Ethylbenzene	"	0.200	ND	0.186	"	60.0-140	93.0			
Xylenes (total)	"	0.600	ND	0.560	"	60.0-140	93.3			
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.180	"	60.0-140	90.0			
<b>Matrix Spike Dup</b>		<b>8090204-MSD1</b>	<b>S809221-01</b>							
Benzene	9/21/98	0.200	ND	0.190	mg/kg	60.0-140	95.0	25.0	1.57	
Toluene	"	0.200	ND	0.184	"	60.0-140	92.0	25.0	2.15	
Ethylbenzene	"	0.200	ND	0.184	"	60.0-140	92.0	25.0	1.08	
Xylenes (total)	"	0.600	ND	0.554	"	60.0-140	92.3	25.0	1.08	
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.182	"	60.0-140	91.0			

Linda C. Schneider, Laboratory Director





Gettler-Ryan - Sac 3164 Gold Camp Dr., Ste. 240 Rancho Cordova, CA 95670	Project: Chevron 9-2960, Castro Valley, CA Project Number: 346365.03 Project Manager: Rick Fears	Sampled: 9/18/98 Received: 9/21/98 Reported: 9/23/98
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Notes and Definitions

#	Note
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- 1 Chromatogram Pattern: Weathered Gasoline 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
- Recov. Recovery
- RPD Relative Percent Difference





## 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.

#### Well Abandonment

Prior to well abandonment, the total depth of the well and the depth-to-water in the well casing are measured and recorded. Groundwater monitoring wells are abandoned by filling the well casing with neat cement using a tremie pipe and pump. The tremie is removed and the cement in the well casing is pressurized to approximately 10 pounds per square inch (psi) for approximately 2 minutes. The well box is removed and the upper 5 feet of well casing is drilled out. The boring is then backfilled with neat cement or native material, depending on local regulations.

#### Well Destruction

Prior to well destruction, the total depth of the well and the depth-to-water in the well casing are measured and recorded. Groundwater monitoring wells are destroyed by drilling the well boring out to remove the casing, sandpack, and seal material. The boring is advanced at least one foot past the installed depth of the well to insure that all the casing and seal material are removed. Upon completion of drilling, the boring is backfilled to ground surface with neat cement placed using a tremie pipe and pump.

#### 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.