

3164 Gold Camp Drive Suite 200 Rancho Cordova California 95670-6021 916 638-2065 FAX 916'638-8385

No. 7211

December 10, 2001

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

DEC 1 2 2001

Subject:

Well Abandonment

Former Chevron Station No. 20-6516 2428 Central Avenue, Alameda, California

DG26516G.3C01

Mr. Bauhs:

At the request of Chevron Products Company (Chevron), Delta Environmental Consultants, Inc. (Delta) network associate Gettler-Ryan Inc. (GR) abandoned six groundwater monitoring wells at the subject site. On October 10, 2001, GR observed Woodward Drilling (C57 #710079) abandon wells MW-1 through MW-6. Locations of the former wells are shown on the attached Site Plan (Figure 1). Well abandonment activities are summarized in Table 1. Copies of well abandonment permits #W01-1034 through #W01-1039 issued by Alameda County Public Works Agency (ACPWA) and City of Alameda encroachment permit #EX01-0127 are attached. A copy of the State of California Well Completion Report is attached. The work performed was proposed in Delta's report #DG26526B.3C01, Work Plan for Well Abandonment, dated September 26, 2001.

Six 2-inch diameter wells were backfilled to the top of casing with neat cement. A pressure of approximately 10 pounds per square inch was applied to the top of each well casing for approximately 2 minutes. Vault boxes for all wells were removed. The upper three feet of wells MW-2 and MW-5 were drilled out, and the upper three feet of well casing from wells MW-1, MW-3, MW-4, and MW-6 was removed by hand due to access restrictions for the drill rig. The upper 3 feet of each well boring was replaced with drill cuttings or native material to within 0.5 feet of ground surface. The sidewalk surrounding wells MW-4 through MW-6 was replaced, and pavement surrounding well MW-2 was patched per City of Alameda requirements. Well MW-1 was filled to ground surface with native material, and well MW-3 was finished to ground surface with concrete.

The wells have been properly abandoned as required by California Department of Water Resources Water Well Standards (Bulletins 74-81 and 74-90) and ACPWA guidelines. If you have any questions, please call us in our Sacramento office at (916) 631-1300.

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Network Associate GETTLER-RYAN INC.

David W. Herzog

Senior Geologist, R.G. 7211

Attachments:

Table 1: Summary of Well Abandonment Activities

Figure 2: Site Plan

Well Abandonment and Encroachment Permits State of California Well Completion Report

Cc: Eva Chu, ACHCSA, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502

Steve Stahl, Stahl Woodridge Construction, 2428 Central Avenue, Alameda, CA 94501

Jim Brownell, Delta Environmental Consultants, Inc.

TABLE 1 SUMMARY OF WELL ABANDONMENT ACTIVITIES

Former Chevron Service Station No. 20-6516 2428 Central Avenue Alameda, California

Well ID	Date Abandoned	Well Diameter (inches)	Measured Depth (feet bgs)	Installed Depth (feet bgs)	Depth-to- Water (feet below toc)	
MW-1	10/10/01	2	25.0	25.0	10.7	
MW-2	10/10/01	2	24.0	25.0	9.6	
MW-3	10/10/01	2	24.8	25.0	10.0	
MW-4	10/10/01	2	20.0	20.5	9.0	
MW-5	10/10/01	2	21.0	21.0	8.6	
MW-6	10/10/01	2	20.8	21.0	9.0	

bgs - below ground surface

toc - top of casing

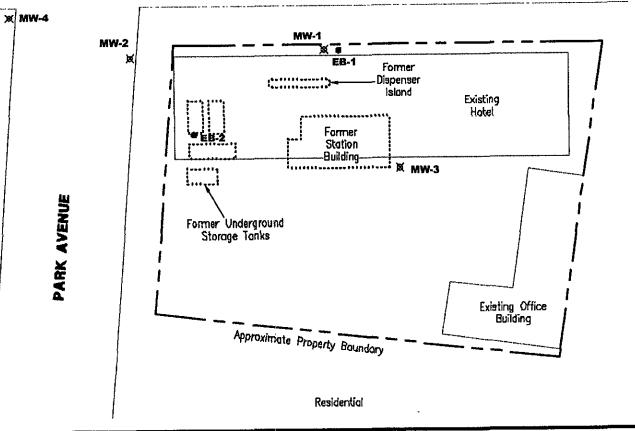
Wells were abandoned in accordance with DWR water well standards (Bulletins 74-81 and 74-90) and Alameda County guidelines.

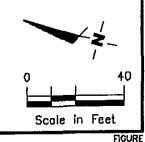
MW-5 MW-6

EXPLANATION

- Soil boring
- Destroyed groundwater monitoring well

CENTRAL AVENUE







SITE PLAN

Former Chevron Service Station No. 20—6516 2428 Central Avenue Alameda, California

.

PROJECT NUMBER DG26516B.3C01 REVIEWED BY

DATE 10/01 REVISED DATE

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 3 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.

From-Gettler-Ryan Inc Nov-05-01 10:04am SEP-18-01 WED UZ:25 YM HEHIEUM GOOREE I WIE INCHOO

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PLEUSE PRINT NAME DAVID HERZOW

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION 399 ELMITURST ST. HAYWARD CA. 94544-1395

DRILLING PERMI	TAPPLICATION
FOR APPLICANT TO COMPLETE	for office use
LOCATION OF PROJECT Former Chevron	PERMIT NUMBER WOI- 1034
macryles otestion & soudely	WELL NUMBER
2428 Central Avenue	APN
	PERMIT CONDITIONS
CLIENT	Circled Permit Requirements Apply
Name_CHEVRON DRODUCTS CONOLING	•••
Phone (925) 842 ~ 8898	A. GENERAL 1. A permit application should be submitted so as to
City San Pamen Zip 94683	arrive at the ACPWA office five dave enforte
APPLICANT	
Name GETTLER-RYAN INC	2 Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources.
iddress 3HO Gold Caro Dr. 170 Phone (916) 631-1317	Completion Report.
City Rencho Condova Zip 956 70	3. Petmit is vold if project not begun within 90 days of approval date
	B. WATER SUPPLY WELLS
TYPE OF PROJECT	(. Minimum surface seal thickness is two inches of comean grout placed by tremps.
Weil Construction George Investigation Cathodic Protection G George Investigation	2. Minimum seel death is 50 feet for municipal and
Water Supply II Contamination I	Industrial wells of 20 feet for detricate and industria
Monitoring () Well Described	wells unless a lesser depth is specially approved. C. GROUNDWATER MONITORING WELLS
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- 4	maximum depth practicable or 20 feet. D. GEOTECHNICAL
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Alid Rolary () Air Rotary () Auger () Cable () Other ()	Programme Company Company Continued for the Continued in the
_	or with compacted cumings.
DRILLER'S NAME Woodward Drilling	Fill bale anade room with account at the second
Driller's License No. 710079	·· weer pearwortion
	Send a map of work site. A separate permit is required for wells desper than 45 feet.
WELL PROJECTS	G. SPECIAL CONDITIONS
Drill Hole Digenorer 8 in. Maximum Casing Diameter 2 in. Death 25.5 o	NOTE: One application must be submitted for each well or well
Surface Small Dopth & in. Owner's Well Number MW - 1	**************************************
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Number of Borings	
Kole Diameter In. Depth ft.	ì
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STIMATED COMPLETION DATE 18/10/01	APPROVED WATER
	DATE DATE

Rev 3-13-00

Nov~05-01

10:04am From-Gettler-Ryan Inc

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SEP-28-OG THU 03:28 PM ALAMEDA COUNTY PWA KT238

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ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION 399 ELMHURST ST. KAYWARD CA. 94944-1395 PHONE (610) 676-6854 FAX (510)782-1539

DRILLING PERMI	T APPLICATION
LOCATION OF PROJECT Former Chevron Service Station # 20 - 65 16 2428 Central Avenue	FOR DEFICE USE PERMIT NUMBER WOL-1035 WELL NUMBER
Alamera CA	APN
CLIENT	PERMIT CONDITIONS Circled Permit Requirements Apply
Name Chevron Products Company Address P.O. Box 600 4 Pricas (925) 842-8898 Playmon Zip 94583	A. GENTRAL 1. A permit application should be submitted to as to strive at the ACPWA office live days prior to
ione Gettler-Ryan Inc For (916) 631-1317	2 Submits to ACPWA within 60 days after completion of farmitted original Department of Water Responses.
iddress 3140 Gold Cano Dr. 170 Pages (916) 631 - 1300 illy Rancha Candona 218 93670	Well Completion Report. 3. Permit is voic if project authogun within 90 days of approval date 8. WATER SUPPLY WELLS
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ASE PRINT NAME DAVIO HERZOG ROW	-5-00

Nov-05-01

18:04am From-Gettler-Ryan Inc

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FAX NO. 5101821838

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SEP-28-00 THU 03:29 PM ALAMEDA COUNTY PWA RM238

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION 199 ELMHURST ST. KAYWARD CA. 94544-1594 PRONE (518) 678-8564 PAX (510)982-1939

DRILLING PERMIT APPLICATION				
for applicant to complete	for office use			
LOCATION OF PROJECT Former Chavren	PERMIT NUMBER WOI _ 1036 WELL NUMBER			
Alameda, CA	Arn			
SUENT	FERMIT CONDITIONS Circle's Permit Requirements Apply			
Name Chevron Products Company Address P.O. Bax 6004 Page (925) 842-8898 The San Ramon Zig 94583	A. GENERAL 1. A permit application should be submitted so as to			
APPLICANT GEHLER-Ryan INC.	arrive as the ACFWA office five days prior to proposed starting date. 2. Submit to ACFWA within 60 days after completion of			
146 Gold Camp D. 170 Press (414) (41 - 1217)	partitized ariginal Department of Water Resources- Well Completion Report. 3. Permit is void if project nat degue within 90 days of			
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YPE OF FROJECT Well Construction Geometrales Investigation	i. Minimum surface sea, this masts is two inches of commits, cour placed by gamle. 2. Minimum seal dayth is 50 tent for municipal and			
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IMATED STARTING DATE 10/10/01 IMATED COMPLETION DATE 10/10/01	APPROVED			
by agree to comply with all regularments of this permit and Alameda County Ordin				
ASE PRINT NAME DAVID HER ZOG	25/01			

NOV-06-01 TUE 11:38 AM ALAMEDA COUNTY PWA RM239 FAX NO. 5107821939

Nov-05-01 10:05am From-Gettler-Ryan Inc

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SEP-28-00 THU 03:28 PM ALAMEDA COUNTY PHA RM239 FAX NO. 5:01821838

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ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
193 ELMHURST ST. HAYWARD CA. 34544-1395
PRONE (\$10) 876-4554 TAN (\$10)782-1935

drilling perm	IT APPLICATION
for applicant to complete	for office use
Service Station # 20-656	PERMIT NUMBER _ 1001-1037
man de Control Avenue	Well homber
Alamede CA	
CLIENT	FERSIT CONDITIONS Cireled Permit Requirements Apply
Varie Chevron Products Company Address P.O. Box 6004 Pare (926) 842-8898	A. GENERAL
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11 (916) 631-1317	permitted original Department of Water Resources- Well Completion Report.
10dress ? 140 Gold Camo Dr. 170 Page (916) 631-1800 ily Roache Condeva Zig 456-70	3. Permit is vaid if project not begue within 90 days of
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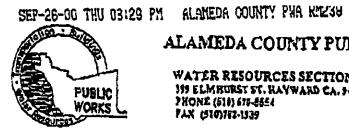
ASEPRINT NAME DAVID LEBERG	-25-01
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-Nov-05-01 10:05am From-Gettler-Ryan Inc

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ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION 199 ELMHURST ST. HAYWARD CA. 94344-1395 2 HONE (518) 678-8554 7AX (510)782-1939

DRILLING PERMI	T APPLICATION
for applicant to complete	FÖR OFFICE USE
LOCATION OF PROJECT Former Cheuron Service Station #20-6516 2426 Central Avenue	PERMIT NUMBER 1001-1038 WELL NUMBER APN
TI IENT	FERMIT CONDITIONS Circled Permit Requirements Apply
Name Chevron Products Company Address P.O. Box 6004 Page (925) 842-8898 Sity San Ramon Zie 94683	A. GENTRAL 1. A partie application should be submitted so as to entire at the ACPWA office five days prior to
HPLICANT Gettler-Ryan Inc. Harman Gettler-Ryan Inc. Horses 3140 Gold Camp Dr. 170 Phore (116) 631-1317 Ranche Cardona Zip 95670	proposed standing date. 1. Submit to ACFWA within 40 days after completion of primited original Department of Water Resources. - Well Completion Report. 3. Permit is rold if project not begun within 40 days of approval date. 8. WATER SUPPLY WELLS
YPE OF PROJECT Well Construction Geotechnical Investigation Cathodis Protection G Geotechnical Investigation Water Supply D Contemplation C Menitoring C Well Desoccion	I. Minimum sturface soon thickness is two inches of element group placed by mente. I. Minimum couldary by mente. I. Minimum couldary be so feet for municipal and industrial wells or 30 feet for domestic and industrial wells. C. JEROUNDWATER MONITORING WELLS.
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JULIER'S NAME Woodward Orilling JULIER'S LICENSE NO. 7100 79	E CATHODIC Fill hole anode zone with concrete placed by tremic. F. WELL DESTRUCTION See associate resultaneous for destruction of Inhibor.
ILL PROJECTS Drill Höle Diameter 8 in. Listinum Cating Diameter 2 in. Depth 21.5 ft. Surface Seal Depth 4 ft. Owner's Well Number MW - 5	Typication is required for wells desportant of feet G. SFECIAL CONDITIONS NOTE: One application must be submitted for each well or well desputed. Multiple begins on our application.
OTECHNICAL PROJECTS Vender of Borings Maximum tole Diameter in. Dayii ft.	in Baseshawar and computation Washington.
TMATED STARTING DATE 10/10/01 TMATED COMPLETION DATE 10/10/01	APPROVED MATEUS 5
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LICANT'S SIGNATURE OF THE 9/	
ASE PRINT NAME DAVID HERZOG BENE	alog.

·Nov-05-01 10:05am From-Gettler-Ryan Inc

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SEP-26-00 THU 03:29 PM ALAMEDA COUNTY PWA RM239

FAX NO. 5107821939

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ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION 199 ELMRUIST ST. HAYWARD CA. 94344-1395 PHONE (610) 676-6824 FAX (510)782-1939

DRULLING PERM	IT APPLICATION
For applicant to complete	for office use
LOCATION OF PROJECT Former Chevron Service Station #20-6516 2428 Central Avenue Alonedo CA	PERMIT NUMBER WOI - 1039 WELL HUMBER
	Permit Conditions
CLIENT CL.	Circled Permit Requirements Apply
View Chevron Products Company	A. GENERAL
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Well Construction Contechnical Investigation	coment grout placed by warnie. 2. Minimum seal depth is 50 feet for manipipal and
Cathodia Protection (1 Octobra) 0 Water Supply 0 Contamination C	industrial wells of 20 fast for domination and imposting
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WILLER'S NAME - Woodward Drilling	E. CATHODIC
ILLER'S LICENSE NO 710079	Fill hole suedo etas with concrete placed by treme. F. WELL DESTRUCTION
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	White School arise of work site a difference as a
ILL PROJECTS ,	spelitation is required for wells deeper than 43 feet G. SFECIAL CONDITIONS
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Otechnical projects	let framesymical and communication invastigations.
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'eby agres to comply with all regregemopy of this permit and Atameda County Ore	ihance Ng. 73-61.
UCANT'S SIGNATURE LEL JEW DATE 9	
ASSESSINTALLE DAVID 11-50 200	
Rev.	6-1-00
	- 0

950 West Mall Square, #110

CITY OF ALAMEDA

345178,23 (510) 749-5840

Alameda Point

Alameda, CA 94501

Public Works Department

Fax (510) 749-5867

Printed: 10-11-2001

Right-of-Way Permit

Permit# EX01-0127

Applicant

GETTLER RYAN, INC STAHL WOOLDRIDGE CONSTRUCTION CX Contractor Information **GETTLER RYAN, INC**

Owner Information

6747 SIERRA CT SUITE J **DUBLIN, CA 94568**

6747 SIERRA CT SUITE J **DUBLIN, CA 94568**

2428 CENTRAL AVE ALAMEDA CA

925-551-7555

94501

Project Information

RTOFWAY - Right-of-Way Permit - APPROVED

Applied: 09/26/2001

Issued: 10/11/2001 Expires: 10/11/2002

Sub-Type:

Finaled:

Valuation:

\$0.00

Job Address:

2428 CENTRAL AVE

Parcel Number:

070 018600100

Suite / Unit:

Work Description: DESTROYING 4 GROUND WATER MONITORING WELLS

Total Fees:

\$150.50

Total Payments:

\$150.50

BALANCE DUE

\$0.00

Payments Made:

10/11/2001 09:38 AM

RECEIPT

Receipt #: R01-5090

Total Payment:

\$71.50

Payee: GETTLER RYAN INC

Current Payment Made to the Following Items:

Account Code

Description

Amount

4225-37190 (6321)

Eng.-Right of Way Permit

71.50

Payments Made for this Receipt:

Method Description

Payment

57771 Check

71.50

Account Summary for Fees and Payments:

Account Summary for Fees and Faymontes.		Tot Fee	Paid	Prev. Pmts	Cur. Pmts
Item# Description	Account Code				
	4520-37450 (1050) 4225-37190 (6321)	38.00 112.50	38.00 112.50	38.00 41.00	.00 71.50

** 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.

Inspector Date

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED