Chevron

November 18, 1995

Chevron U.S.A. Products Company
6001 Bollinger Canyon Rd., Bldg. L
P.O. Box 5004
San Ramon, CA 94583-0804

Mark A. Miller
SAR Engineer
Phone No. 510 842-8134
Fax No. 510 842-8252

Ms. Amy Leech
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Former Chevron Service Station #9-2384
15526 Hesperian Boulevard, San Lorenzo, CA

Dear Ms. Leech:

Enclosed is the Well Installation Report dated October 20, 1995, prepared by our consultant Gettler-Ryan, Inc. for the above referenced site. Four ground water monitor wells (MW-1 through MW-4) were abandoned to facilitate site development. Two off-site soil borings were advanced and completed as ground water monitor wells (MW-7 and MW-8). This work was done to characterize dissolved ground water concentrations down gradient of the site and replace the source well which was recently abandoned to allow for future site development activities.

Soil samples collected were submitted to GTEL Environmental Laboratories for analysis. Laboratory results indicate that concentrations of TPH-G and BTEX were below method detection limits in all samples collected.

Ground water samples will be collected from the new wells in conjunction with the regularly scheduled quarterly event. If the results of the monitoring report indicate that the dissolved hydrocarbon plume in ground water is limited and defined, then we will implement the reduced monitoring frequency as discussed in our January 26, 1995, meeting.

If you have any questions or comments, please feel free to contact me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller
Site Assessment and Remediation Engineer

cc: Ms. B.C. Owen

Of 1/10/95

GETTLER-RYAN INC.

WELL INSTALLATION REPORT

for

Former Chevron Service Station #9-2384
15526 Hesperian Boulevard
San Lorenzo, California

Gettler-Ryan Inc. Job # 5265.01

Prepared for:

Chevron USA Products Company
P.O. Box 5004
San Ramon, California 94583

Prepared by:

Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

Argy Leyton
Environmental Project Manager

Stephen J. Carter
Senior Geologist
RG #5577

REGISTERED GEOLOGIST
STEPHEN J. CARTER
No. 5577
STATE OF CALIFORNIA

October 20, 1995

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EXECUTIVE SUMMARY

Gettler-Ryan, Inc. (G-R) presents this report for the abandonment of four on-site groundwater monitoring wells and the installation of two off-site monitoring wells at Former Chevron Service Station #9-2384 located at 15526 Hesperian Boulevard in San Lorenzo, California. The wells were abandoned to facilitate site development and the monitoring wells were installed to further evaluate the absence or presence of dissolved hydrocarbons in groundwater and to verify the groundwater flow direction and gradient beneath the site.

Soil samples collected and analyzed from well installation activities did not contain hydrocarbons as gasoline or benzene, toluene, ethylbenzene and xylenes (BTEX) at laboratory method detection limits. Groundwater samples were not collected during well installation activities. Groundwater sampling will be conducted by Blaine Tech Services, Inc. and the results will be reported with the 1995 fourth quarter sampling event.

INTRODUCTION

Gettler-Ryan, Inc. (G-R) is pleased to present this report documenting the abandonment of four on-site groundwater monitoring wells and the installation of two off-site groundwater monitoring wells at Former Chevron Service Station #9-2384 located at 15526 Hesperian Boulevard in San Lorenzo, California. The on-site wells were abandoned to facilitate site development and the off-site monitoring wells were installed to further evaluate the absence or presence of dissolved hydrocarbons beneath the site. The scope of work included: abandoning four on-site monitoring wells; drilling and installing two off-site soil borings and installing monitoring wells in the borings; collecting soil samples for chemical analysis; developing the newly installed wells; arranging for disposal of the waste materials; and preparing a report documenting the work. Groundwater samples were not collected during well installation activities. Groundwater sampling will be conducted by Blaine Tech Services, Inc. and the results will be reported with the 1995 fourth quarter sampling event.

SITE HISTORY

The following site history was obtained from Chevron project files supplied to Gettler-Ryan, Inc.

On March 31, 1991, the former service station was closed and the product dispensers were removed. On May 30, 1991, the underground storage tanks (USTs) and associated piping were removed from the site by R.L. Stevens. Blaine Tech Services Inc. (Blaine) collected samples from beneath the former USTs and along the product line trenches. The soil samples were analyzed for total purgeable petroleum hydrocarbons as gasoline [TPPH(G)] and benzene, toluene, ethylbenzene and xylenes (BTEX).

Hydrocarbons as gasoline were detected in the soil samples collected and analyzed from the UST pit at concentrations ranging from 220 to 2,800 parts per million (ppm). Benzene was also detected in the UST pit soil samples at concentrations as high as 21 ppm. Four of the soil samples collected and analyzed from the product line trenches indicated that no detectable levels of hydrocarbons as gasoline were present in the soil at laboratory method detection limits. Organic lead was not detected at concentrations greater than 0.22 ppm in soil samples collected from beneath the former leaded gasoline tank.

On August 5, 1991, a soil remediation program was implemented to removed all unsaturated soils containing TPPH(G) concentrations greater than 10 ppm. Approximately 650 cubic yards (cy) of soil were excavated from the vicinity of the former USTs. The excavated soils were aerated on-site and subsequently used as backfill material for the excavation. The soils were backfilled and compacted on-site with the approval of Alameda County Department of Environmental Health.

In May 1992, Groundwater Technology, Inc. (GTI) installed three on-site groundwater monitoring wells (MW-1, MW-2 and MW-3). Well MW-3 was initially installed in a wrong location. The well was subsequently abandoned and replaced in the originally defined location. Analytical results of soil samples collected and analyzed during well installation activities of the misplaced well MW-3 detected benzene and hydrocarbons as gasoline at concentrations of 0.34 ppm and 400 ppm, respectively. Soil samples collected and analyzed during well installation activities of wells MW-1, MW-2 and the correctly located MW-3 indicated that hydrocarbons as gasoline and benzene were not detected at laboratory method detection limits.

Groundwater samples were collected on June 4, 1992 from the newly installed wells. The groundwater samples were analyzed for TPPH(G) and BTEX. Hydrocarbons as gasoline were detected in wells MW-2 and MW-3 at concentrations of 6,700 and 460 parts per billion (ppb), respectively. In addition, benzene was detected in these same wells at concentrations of 910 and 12 ppb, respectively. Hydrocarbons as gasoline or BTEX components were not detected in the groundwater sample collected and analyzed from well MW-1.

In June 1993, GTI drilled two additional soil borings on-site (Mw-4 and MW-6) and one off-site soil boring (MW-5), and installed groundwater monitoring wells in the borings. Soil samples collected and analyzed from the well installation activities did not contain hydrocarbons as gasoline or BTEX components at laboratory method detection levels.

Groundwater samples were collected from all site wells on July 2, 1993. Hydrocarbons as gasoline and BTEX components were not detected in the groundwater samples from wells MW-1 and MW-5. Benzene was not detected in well MW-4 at laboratory method detection limits, however, hydrocarbons as gasoline were detected at 80 ppb from this well. Well MW-2 contained hydrocarbons as gasoline and benzene at 2,100 and 45 ppb, respectively. Well MW-3 contained hydrocarbons as gasoline and benzene at concentrations of 610 and 73 ppb, respectively. The highest concentrations of gasoline and benzene were detected in well MW-6 at concentrations of 14,000 and 330 ppb, respectively.

Five of the six monitoring wells have been sampled quarterly since 1992; monitoring well MW-5 was paved over shortly after installation and was not uncovered until November 1993. Hydrocarbons as gasoline and benzene concentrations have consistently been very low or non-detectable in wells MW-1, MW-4 and MW-5. Based on previous groundwater sampling events, TPPH(G) and benzene concentrations appear to have been steadily decreasing in wells MW-2 and MW-3. Since its installation, TPPH(G) and benzene concentrations have declined significantly.

In July 1995, Gettler-Ryan (G-R) performed an area utility survey in the site vicinity. The purpose of the survey was to determine if any subsurface conduits existed that could serve as migrational pathways. A sanitary sewer exists in Sycamore Street (north of the site) and in the south-bound lane of Hesperian Boulevard (immediately west of the site). The top of the clay sewer lines is at 9 feet below ground surface (bgs) and are approximately 6" diameter.

GEOLOGIC SETTING

The site is located in Alameda County, in the Town of San Lorenzo. The topography in the site vicinity is relatively flat. Regionally, the Berkeley Hills lie to the east and the topography grades westerly into low-lands ending at San Francisco Bay. The closest surface waters are Lake Merritt located approximately one mile to the east and the San Francisco Bay located approximately 2 miles west of the site.

The site is located within the California Coast Ranges. The Coast Ranges have a Franciscan basement composed of graywackes, limestone, shale and radiolarian chert[1]. The Hayward Fault Zone lies approximately 1 mile east of the subject site.

Locally, the site is generally underlain by silts and clays and lesser amounts of fine sands and local sandy gravels. Groundwater is encountered approximately 11 to 13 feet below existing grade. Groundwater flow direction beneath the site is westerly.

WELL ABANDONMENT

On June 26, 1995, G-R personnel were on-site to observe and document the abandonment of four on-site groundwater monitoring wells (MW-1 through MW-4) by Bay Area Exploration Services, Inc. (BAEi) of Cordelia, California (C57 #522125). The wells were abandoned by over-drilling with eight-inch hollow-stem augers to completely remove the well casing and associated well seal and sand pack. The borings were backfilled to existing grade with neat cement containing 3-5% bentonite powder.

SOIL SAMPLING AND SUBSURFACE CONDITIONS

On August 28, 1995, G-R personnel observed and documented the drilling of two off-site soil borings (MW-7 and MW-8) by BAEi. The borings were drilled using CME-55 truck-mounted eight-inch diameter hollow-stem augers to a maximum depth of 23.5 feet bgs.

Soil samples were collected at a minimum of five-foot intervals. The soil samples were field screened during drilling for the presence of volatile organic compounds using an organic vapor meter (OVM). OVM readings are presented on the boring logs (Appendix). Soil samples were collected in new brass sleeves, covered with Teflon sheeting, capped with plastic end caps and sealed in plastic bags. The samples were placed in a cooler and maintained at 4°C prior to delivery to the analytical laboratory.

Norris, Robert M. and Webb, Robert W., 1990, *Geology of California*, John Wiley and Sons, 537 pages.

Groundwater monitoring wells were constructed in the borings. The wells were constructed using two-inch diameter, 0.010 machine-slotted schedule 40 PVC screen. A sand pack of #2/12 graded sand was placed across the entire screen interval, extending approximately one foot above the top of the screen. Each well was then sealed with one foot of hydrated bentonite chips followed by neat cement.

Drill cuttings were placed on and covered with visqueen and remained on-site pending analytic results for disposal.

Soils encountered in the borings consisted of silty clays, sandy silts, silty sands, gravelly sands and sand. Groundwater was encountered in both borings at approximately 10.5 to 11.5 feet bgs. Detailed descriptions of the subsurface materials encountered during drilling are presented on the boring logs.

WELL DEVELOPMENT

On September 1, 1995, monitoring wells MW-7 and MW-8 were developed by G-R personnel using a vented surge block and hand-bailing with bailers. The groundwater evacuated during well development activities was transported to the Chevron Refinery in Richmond, California.

SURVEYING AND MONITORING

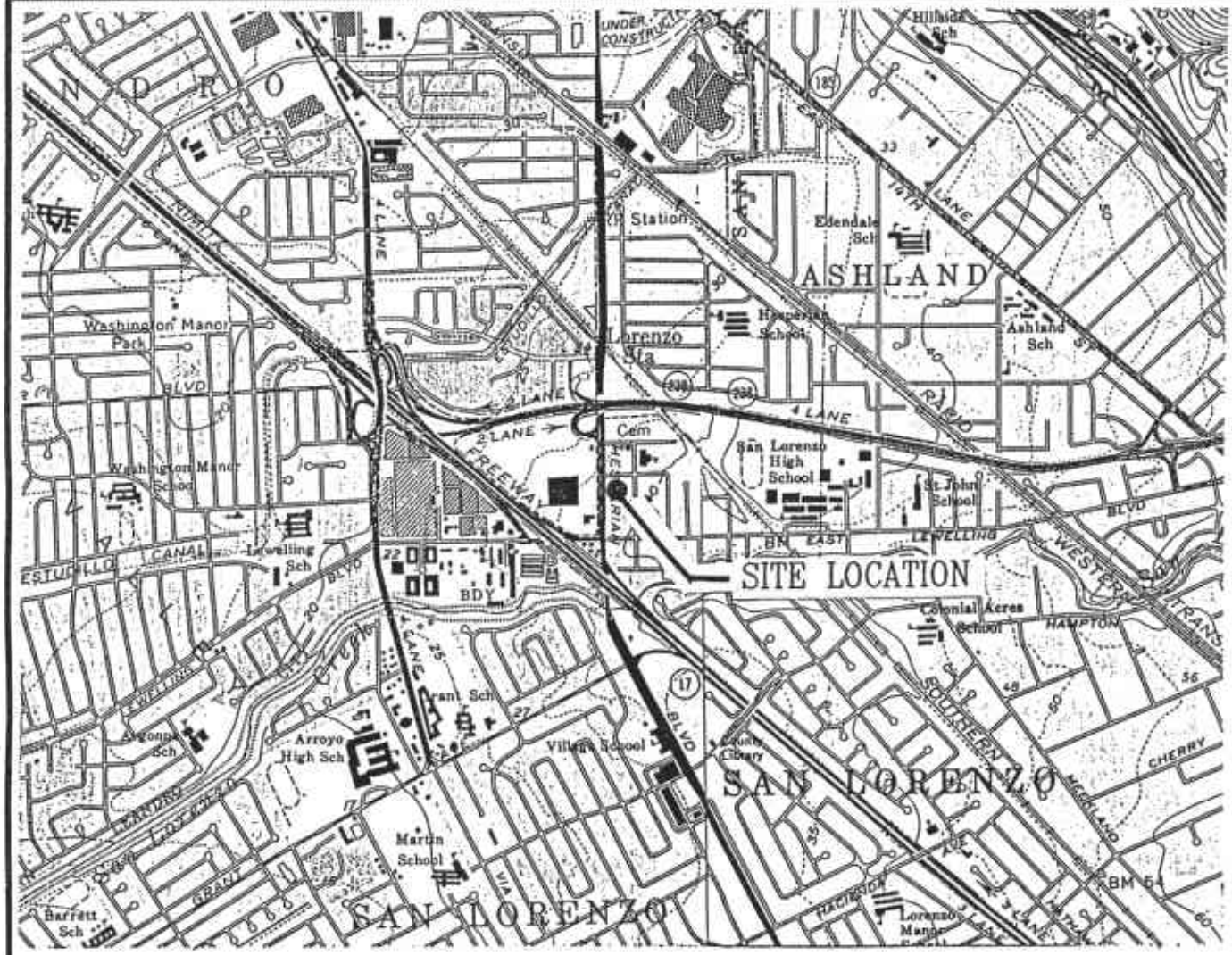
On September 25, 1995, wells MW-7 and MW-8 were surveyed relative to mean sea level by David Hop, Professional Engineer #27034, of Danville, California. The survey data is summarized in Table 2 and the survey report is included in the appendix.

On October 16, 1995, G-R personnel gauged the four groundwater monitoring wells at the site (MW-5 through MW-8). Using groundwater elevation data, G-R has prepared a potentiometric map for the site indicating groundwater flow direction and gradient. The potentiometric map is included as Figure 2. Groundwater elevation data is included on Table 2.

ANALYTIC RESULTS

Selected soil samples from the borings were analyzed for TPPH(G) by EPA Method 5030/8015 and BTEX by EPA Method 8020. Hydrocarbons as gasoline and BTEX components were not detected at laboratory method detection limits in any of the soil samples collected and analyzed. Analytic results for soil samples collected and analyzed are presented in Table 1. Gettler-Ryan is not responsible for laboratory omissions or errors.

FIGURES



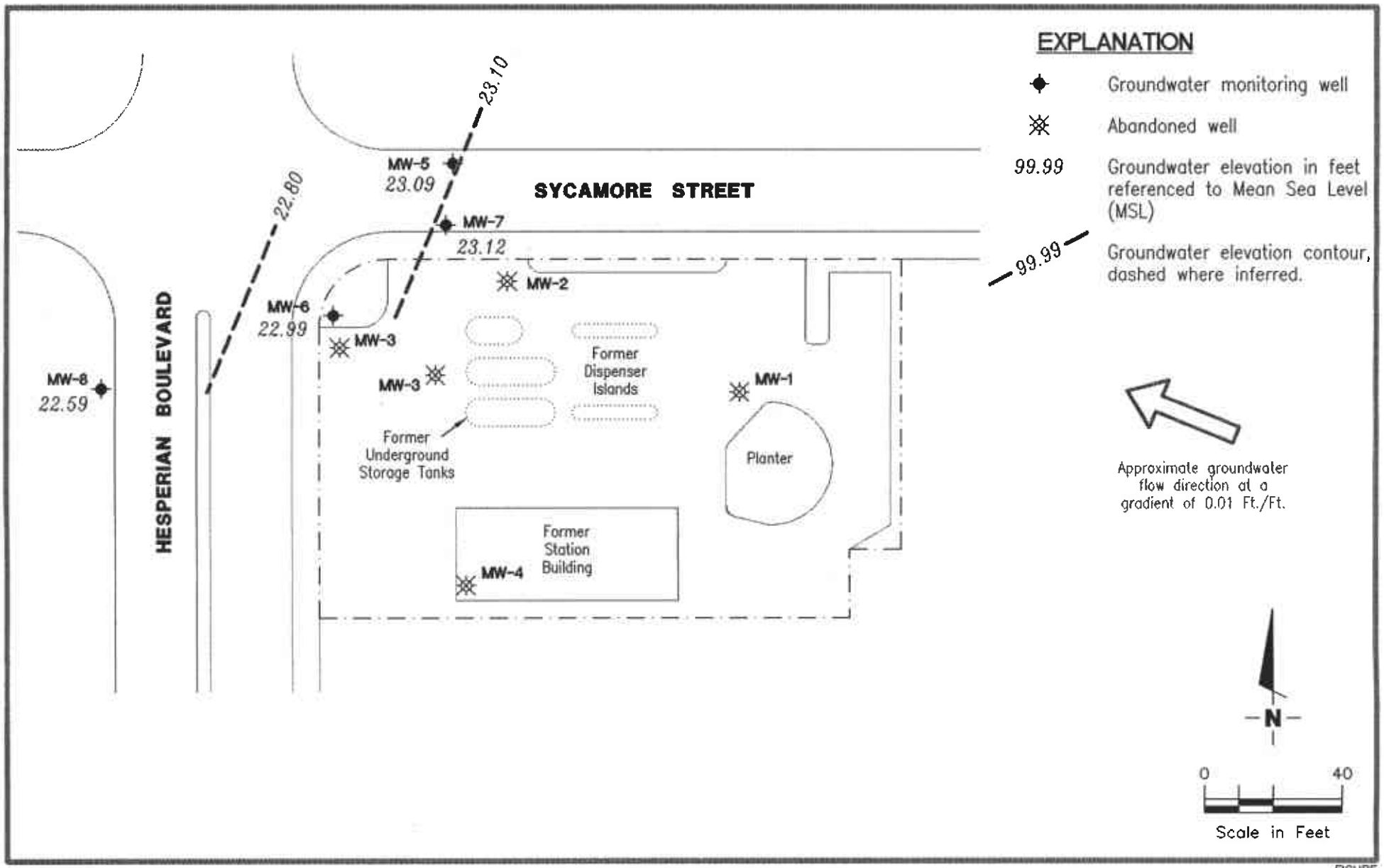
Base Map: USGS Topographic Map

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

VICINITY MAP
Former Chevron Service Station No. 9-2384
15526 Hesperian Boulevard
San Lorenzo, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5265		July, 1995	



Gettler - Ryan Inc.

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

POTENTIOMETRIC MAP
Former Chevron Service Station No. 9-2384
15526 Hesperian Boulevard
San Lorenzo, California

FIGURE
2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5265.01		October 16, 1995	

TABLES

Table 1. Analytical Results for Soil - Volatile Organics - Former Chevron Service Station #9-2384, 15526 Hesperian Boulevard, San Lorenzo, California

Sample I.D.	Depth (feet)	Date	Analytic Method	TPPH(G)	B	T	E	X
				<——— ppm ———>				
MW-7	5.5	8/28/95	8015/8020	<1.0	<0.005	<0.005	<0.005	<0.015
MW-7	10.5	8/28/95	8015/8020	<1.0	<0.005	<0.005	<0.005	<0.015
MW-7	23	8/28/95	8015/8020	<1.0	<0.005	<0.005	<0.005	<0.015
MW-8	5.5	8/28/95	8015/8020	<1.0	<0.005	<0.005	<0.005	<0.015
MW-8	10	8/28/95	8015/8020	<1.0	<0.005	<0.005	<0.005	<0.015
MW-8	21	8/28/95	8015/8020	<1.0	<0.005	<0.005	<0.005	<0.015

EXPLANATION:

TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
ppm = Parts per million

ANALYTIC METHODS:

8015 = EPA Method 5030/8015 for TPPH(G)
8020 = EPA Method 8020 for BTEX

NOTES:

All samples were analyzed by Sequoia Analytical Laboratories of Redwood City, California.

Table 2. Water Level Data and Groundwater Analytic Results - Former Chevron Service Station #9-2384, 15526 Hesperian Boulevard, San Lorenzo, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
MW-5/ 35.50	10/16/95	12.41	23.09	0	—	—	—	—	—	—
MW-6/ 36.01	10/16/95	13.02	22.99	0	—	—	—	—	—	—
MW-7/ 35.50[1]	10/16/95	12.38	23.12	0	—	—	—	—	—	—
MW-8/ 35.84[1]	10/16/95	13.25	22.59	0	—	—	—	—	—	—

EXPLANATION:

DTW = Depth to water
TOC = Top of casing elevation
GWE = Groundwater elevation
ft = Feet below ground surface
msl = Measurements referenced relative to mean sea level
TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
ppb = Parts per billion

ANALYTIC METHODS:

8015 = EPA Method 8015/5030 for TPPH(G)
8020 = EPA Method 8020 for BTEX

NOTES:

Top of casing elevation for wells MW-5 and MW-6 compiled from the Quarterly Groundwater Monitoring Report prepared for Chevron by Blaine Tech Services, Inc.

* Product thickness was measured since May 20, 1992 with an MMC flexi-dip interface probe.

[1] Well surveyed September 25, 1995 by David Hop of Danville, California, P.E. #27034.

BORING LOGS

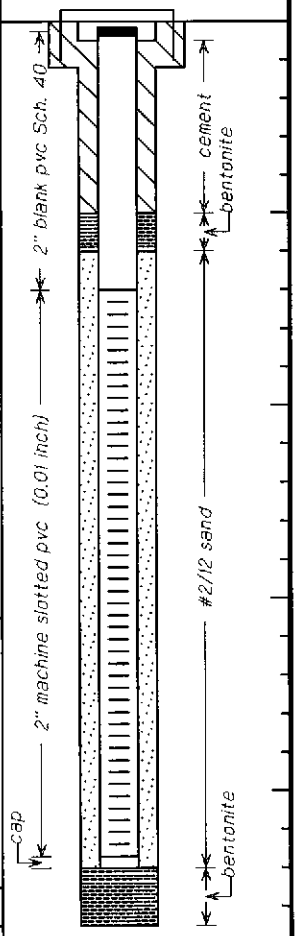
Gettler-Ryan, Inc.

Log of Boring MW-7

PROJECT: *Chevron SS# 9-2384*	LOCATION: *15526 Hesperian Boulevard, San Lorenzo, CA*
G-R PROJECT NO. : *5265.01*	SURFACE ELEVATION: *35.50 feet MSL*
DATE STARTED: *08/28/95*	WL (ft. bgs): *11.5* DATE: *08/28/95* TIME: *13:10*
DATE FINISHED: *08/28/95*	WL (ft. bgs): *11.5* DATE: *08/28/95* TIME: *14:00*
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *23.5 Feet*
DRILLING COMPANY: *Bay Area Exploration, Inc.*	GEOLOGIST: *B. Sieminski*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION
				CL	PAVEMENT – 4 inch concrete over baserock.
					SILTY CLAY WITH SAND (CL) – very dark grayish brown (10YR 3/2), damp, stiff, low plasticity; 75% fines, 25% fine sand.
				SW	SAND WITH GRAVEL (SW) – dark yellowish brown (10YR 4/4), damp, loose; 70% fine to coarse sand, 30% gravel.
5	0	7	MW7-5.5		
				ML	SANDY SILT (ML) – olive (5Y 4/4, moist, medium stiff, low plasticity; 60% fines, 40% very fine sand.
				SM	SILTY SAND (SM) – very dark gray (5Y 3/1), moist, loose; 60% very fine sand, 40% fines; **hydrocarbon odor.**
10	7.7	3	MW7-10.5		
	4.7	2	MW7-12		Becomes saturated at 11.5 feet bgs.
15	2.2	8	MW7-15.5	ML	SANDY SILT (ML) – very dark gray (5Y 3/1), saturated, medium stiff, low plasticity; 60% silt, 40% very fine sand; **hydrocarbon odor.**
20	2.7	10	MW7-21		Becomes moist at 21 feet bgs.
	0	10	MW7-23	CL	SANDY CLAY (CL) – light olive brown (2.5Y 5/2), moist, stiff, low plasticity; 60% clay, 40% fine sand.
25					Bottom of boring at 23.5 feet, 08/28/95.
					(* = converted to equivalent standard penetration blows/ft.)
30					
35					

WELL DIAGRAM



JOB NUMBER: *5265.01*

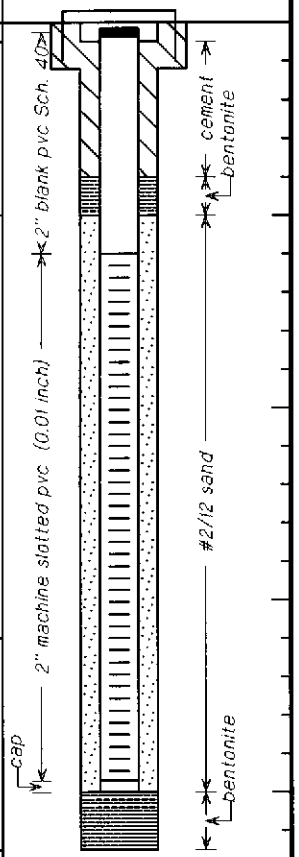
Gettler-Ryan, Inc.

Log of Boring MW-8

PROJECT: *Chevron SS# 9-2384*	LOCATION: *15526 Hesperian Boulevard, San Lorenzo, CA*
G-R PROJECT NO. : *5265.01*	SURFACE ELEVATION: *35.84 feet MSL*
DATE STARTED: *08/28/95*	WL (ft. bgs): *10.5* DATE: *08/28/95* TIME: *10:30*
DATE FINISHED: *08/28/95*	WL (ft. bgs): *10.5* DATE: *08/28/95* TIME: *12:00*
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *21.5 Feet*
DRILLING COMPANY: *Bay Area Exploration, Inc.*	GEOLOGIST: *B. Sieminski*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION
					PAVEMENT - 4 inch concrete over baserock.
				SM	SILTY SAND (SM) - dark yellowish brown (10YR 4/3), moist, loose; 60% fine sand, 40% silt.
5	0	5	MW8-5.5	SP	SAND WITH SILT (SP) - dark yellowish brown (10YR 4/3), moist, loose; 80-85% fine to medium sand, 10-15% silt.
					Trace fine gravel at 6.5 feet bgs.
10	0	4	MW8-10		Becomes saturated at 10.5 feet bgs.
15	0	6	MW8-15.5		Increasing fines at 15 feet bgs.
				CL	SANDY CLAY (CL) - very dark gray (10YR 3/1), saturated, medium stiff, low plasticity; 70% clay, 30% fine sand.
20	0	7	MW8-21		Becomes moist at 20 feet bgs.
					Bottom of boring at 21.5 feet, 08/28/95.
25					
30					(* = converted to equivalent standard penetration blows/ft.)
35					

WELL DIAGRAM



JOB NUMBER: *5265.01*

APPENDIX

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

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (+15)842-9591

Chevron Facility Number 9-2384
Facility Address 15526 Hesperian Blvd, San Lorenzo
Consultant Project Number 5265.01
Consultant Name Gettler-Ryan Inc.
Address 6747 Sierra Ct, Suite J, Dublin, CA 94568
Project Contact (Name) Argy Leyton
(Phone) (510)551-7555 (Fax Number) (510)551-7888

Chevron Contact (Name) Mark Miller
(Phone) (510)842-8134
Laboratory Name GTEL
Laboratory Release Number 3614090
Samples Collected by (Name) Barbara Sieminski
Collection Date 08/28/95
Signature Barbara Sieminski

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)						Remarks
MW8-5.5	01	1	S	G	10:25		Yes	X													ANALYZE
MW8-10	02	1	"	"	10:30		"	X													"
MW8-21	03	1	"	"	11:10		"	X													"
MW7-5.5	04	1	"	"	13:00		"	X													"
MW7-10.5	05	1	"	"	13:10		"	X													"
MW7-23	06	1	"	"	13:55		"	X													"
																		5°C			
															C5	08	03	50			

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Barbara Sieminski	G-R	08/28/95 16:30		G-R	8/28/95 16:30
	G-R	8/30/95 10:20		GTEL	8/30/95 10:20
	GTEL	8/30/95 11:10	Received For Laboratory By (Signature)		Date/Time

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted
8/28/95

J-3.DWG/03 91/HCH

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

4080 Pike Lane
Concord, CA 94520
(510) 685-7852
(800) 544-3422 Inside CA
(800) 423-7143 Outside CA
(510) 825-0720 FAX

September 12, 1995

Argy Leyton
Gettler-Ryan, Inc.
6747 Sierra Ct., Ste J
Dublin, CA 94568

RE: GTEL Client ID: GTR01CHV08
Login Number: C5080350
Project ID (number): 5265.01
Project ID (name): Chevron/#9-2384/15526 Hesperian Blvd., San Lorenzo, CA

Dear Argy Leyton:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 08/30/95.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes.

GTEL is certified by the Department of Health Service under Certification Number E1075.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Chip Poalinelli
Laboratory Director

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: C5080350
Project ID (number): 5265.01 Method: EPA8020/15
Project ID (name): Chevron/#9-2384/15526 Hesperian Blvd., San Lorenzo, CA Matrix: Solids

GTEL Sample Number	C5080350-01	C5080350-02	C5080350-03	C5080350-04
Client ID	MW8-5.5	MW8-10	MW8-21	MW7-5.5
Date Sampled	08/28/95	08/28/95	08/28/95	08/28/95
Date Analyzed	09/07/95	09/08/95	09/08/95	09/08/95
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Benzene	0.005	mg/kg	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	0.005	mg/kg	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	0.005	mg/kg	< 0.005	< 0.005	< 0.005	< 0.005
Xylenes (total)	0.015	mg/kg	< 0.015	< 0.015	< 0.015	< 0.015
TPH as GAS	1.0	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
BFB (Surrogate)	--	%	66.5	81.9	78.8	70.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA8020/15:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 60-119%.

GTEL ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: C5080350
Project ID (number): 5265.01 Method: EPA8020/15
Project ID (name): Chevron/#9-2384/15526 Hesperian Blvd., San Lorenzo, CA Matrix: Solids

GTEL Sample Number	C5080350-05	C5080350-06	--	--
Client ID	MW7-10.5	MW7-23	--	--
Date Sampled	08/28/95	08/28/95	--	--
Date Analyzed	09/08/95	09/08/95	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Benzene	0.005	mg/kg	< 0.005	< 0.005	--	--
Toluene	0.005	mg/kg	< 0.005	< 0.005	--	--
Ethylbenzene	0.005	mg/kg	< 0.005	< 0.005	--	--
Xylenes (total)	0.015	mg/kg	< 0.015	< 0.015	--	--
TPH as GAS	1.0	mg/kg	< 1.0	< 1.0	--	--
BFB (Surrogate)	--	%	65.8	91.6	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA8020/15:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 60-119%.

GTEL ENVIRONMENTAL LABORATORIES, INC.

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: C5080350 Volatile Organics
Project ID (number): 5265.01 Method: EPA8020/15
Project ID (name): Chevron/#9-2384/15526 Hesperian Blvd., San Lorenzo, CA Matrix: Solids

Method Blank Results

QC Batch No: F090795-1
Date Analyzed: 07-SEP-95

Analyte	Method:EPA8020/15 Concentration: mg/kg
Benzene	< 0.00500
Toluene	< 0.00500
Ethylbenzene	< 0.00500
Xylenes (Total)	< 0.0150
TPH as Gasoline	< 1.00

Notes:

GTEL ENVIRONMENTAL LABORATORIES, INC.

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: C5080350 Volatile Organics
Project ID (number): 5265.01 Method: EPA8020/15
Project ID (name): Chevron/#9-2384/15526 Hesperian Blvd., San Lorenzo, CA Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:C5080323-03 MS ID:MS08032303 MSD ID:MD08032303
Analysis Date: 07-SEP-95 08-SEP-95 08-SEP-95

Units: mg/kg	Sample		Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.		MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Benzene	< 0.005	(0.000)	0.05000	0.0500	0.0415	83.0	0.0406	81.2	2.2	40	48.8-129
Toluene	< 0.005	(0.000)	0.05000	0.0500	0.0476	95.2	0.0469	93.8	1.5	40	52-123
Ethylbenzene	< 0.005	(0.000500)	0.05000	0.0500	0.0415	82.0	0.0410	81.0	1.2	40	56.4-122
Xylenes (Total)	< 0.015	(0.000)	0.150	0.150	0.127	84.7	0.126	84.0	0.80	40	55.1-130

Notes:

Values in parentheses in the sample concentration column are used for % recovery calculations.

Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 60-119%.

Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: GTR01CHV08
Project ID: Chevron
15526 Hesperian Blvd.
San Lorenzo, CA
Facility Number: 0092384
Login Number: C5-08-0350

CONFORMANCE/NONCONFORMANCE SUMMARY

(X = Requirements Met * = See Comments NA = Not Applicable)

#	Conformance Item	VOA GC/MS	VOA GC	SV GC/MS	SV GC	Metals	Wet Chem
1	GC/MS Tune		NA		NA	NA	NA
2	Initial Calibration		X				
3	Continuing Calibration		X				
4	Surrogate Recovery		X			NA	NA
5	Holding Time		X				
6	Method Accuracy		X				
7	Method Precision		X				

8 Blank Contamination - List/ND (None Detected)/*(See Comments)

VOA: ND

SV:

Metals:

Wet Chem:

9 Comments:

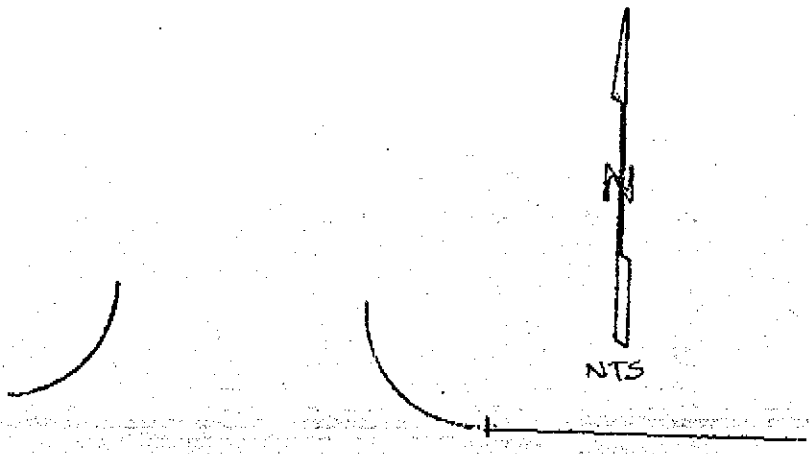
GTEL ENVIRONMENTAL LABORATORIES, INC.

DAVID B. HOP
CIVIL ENGINEER

5265.01

Survey Date:
9/8/25/95

Job 261-1



SYCAMORE ST.

Face of Curb

17'

2'

MW-7
TOC 35.50

18'

MW-8
TOC 35.84

4'

Face of Curb

HESPERIAN BLVD.

15526 Hesperian Blvd.
San Lorenzo CA

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 VOICE (510) 484-2600
FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Former Chevron SS #9-2384
15526 Hesperian Blvd / Sycamore
San Leandro

CLIENT
Name CHEVRON USA Product Company
Address P.O. Box 5004 Voice
City San Ramon CA Zip 94583

APPLICANT
Name Getter-Ryan, Inc. Att. B. Sieminski
Address 6747 Sierra Court Fax 510-551-7888
Suite J Voice 510-551-7555
City Dublin, CA Zip 94568

TYPE OF PROJECT

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

PROPOSED WATER SUPPLY WELL USE

Domestic	___	Industrial	___	Other	___
Municipal	___	Irrigation	___		

DRILLING METHOD:
Mud Rotary ___ Air Rotary ___ Auger Hollow Stem
Cable ___ Other ___

DRILLER'S LICENSE NO. C57 522125

WELL PROJECTS

Drill Hole Diameter	8	in.	Maximum Depth	25	ft.
Casing Diameter	2	in.	Number	2	
Surface Seal Depth	10	ft.			

GEOTECHNICAL PROJECTS

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

ESTIMATED STARTING DATE 08/28/95
ESTIMATED COMPLETION DATE 08/28/95

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

APPLICANT'S

FOR OFFICE USE

PERMIT NUMBER 95550
LOCATION NUMBER

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 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.

(B.) WATER WELLS, INCLUDING PIEZOMETERS
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. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

C. 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 cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

Approved Wyman Hong Date 29 Aug 95
Wyman Hong