

ALCO  
HAZMAT



**Chevron**

94 DEC 19 PM 12:11

December 8, 1994

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

**Site Assessment & Remediation Group**  
Phone (510) 842-9500

Ms. Eva Chu  
Alameda County Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

Re: Former Chevron Service Station No. 9-2621  
7667 Amador Valley Blvd., Dublin, CA 94568

Dear Ms. Chu :

Based on the enclosed report from Sierra Environmental Services dated November 30, 1994, all monitoring wells with the exception of MW-3 were below the detection limit for dissolved hydrocarbons. Well MW-3 detected 310 ppb TPH-G. However, it had a non-typical gasoline pattern. MW-3 was non-detect for benzene. The remaining constituents were either below or near the detection limit. Chevron has not heard from your office regarding the additional well in Amador Valley Boulevard. If you have any questions or comments, please call me at (510) 842-8752.

Sincerely,

Chevron U.S.A. Products Co.

Kenneth Kan  
Engineer

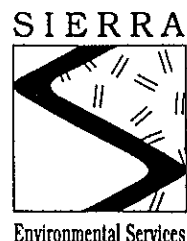
LKAN/MacFile 9-2621R10

Enclosures

cc: Mr. Kevin Graves  
RWQCB-S.F. Bay Region  
2101 Webster Street, Suite 500  
Oakland, CA 94612

Mr. Jerry Lemm  
J. L. Lemm & Associates  
5506 Sunol Blvd., Suite 203  
Pleasanton, CA 94566-7779

Ms. Bette Owen  
Chevron U.S.A. Products Co.



November 30, 1994

Kenneth Kan  
Chevron USA Products Company  
P.O. Box 5004  
San Ramon, CA 94583

Re: Former Chevron Service Station #9-2621  
7667 Amador Valley Boulevard  
Dublin, California  
SES Project #1-380-04

Dear Mr. Kan:

This report presents the results of the quarterly ground water sampling at Former Chevron Service Station #9-2621, located at 7667 Amador Valley Boulevard in Dublin, California. Five wells, MW-1 through MW-5, were sampled (Figure 1).

On November 1, 1994, SES personnel visited the site. Water level measurements were collected in all site wells and all wells were checked for the presence of free-phase hydrocarbons. Free-phase hydrocarbons were not present in any of the site wells. Water level data are shown in Table 1 and ground water elevation contours are included on Figure 1.

The ground water samples were collected on November 1, 1994 in accordance with SES Standard Operating Procedure - Ground Water Sampling (attached). The field water sampling forms for this event are included. All analyses were performed by Superior Precision Analytical, Inc. of Martinez, California. Analytic results for ground water are presented in Table 1. The chain of custody document and laboratory analytic reports are attached. SES is not responsible for laboratory omissions or errors.

Thank you for allowing us to provide services to Chevron. Please call if you have any questions.



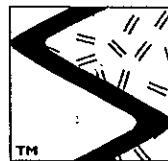
Sincerely,  
Sierra Environmental Services

Richard E. (Rick) Hilton  
Staff Environmental Scientist

Chris J. Bramer  
Professional Engineer #C48846

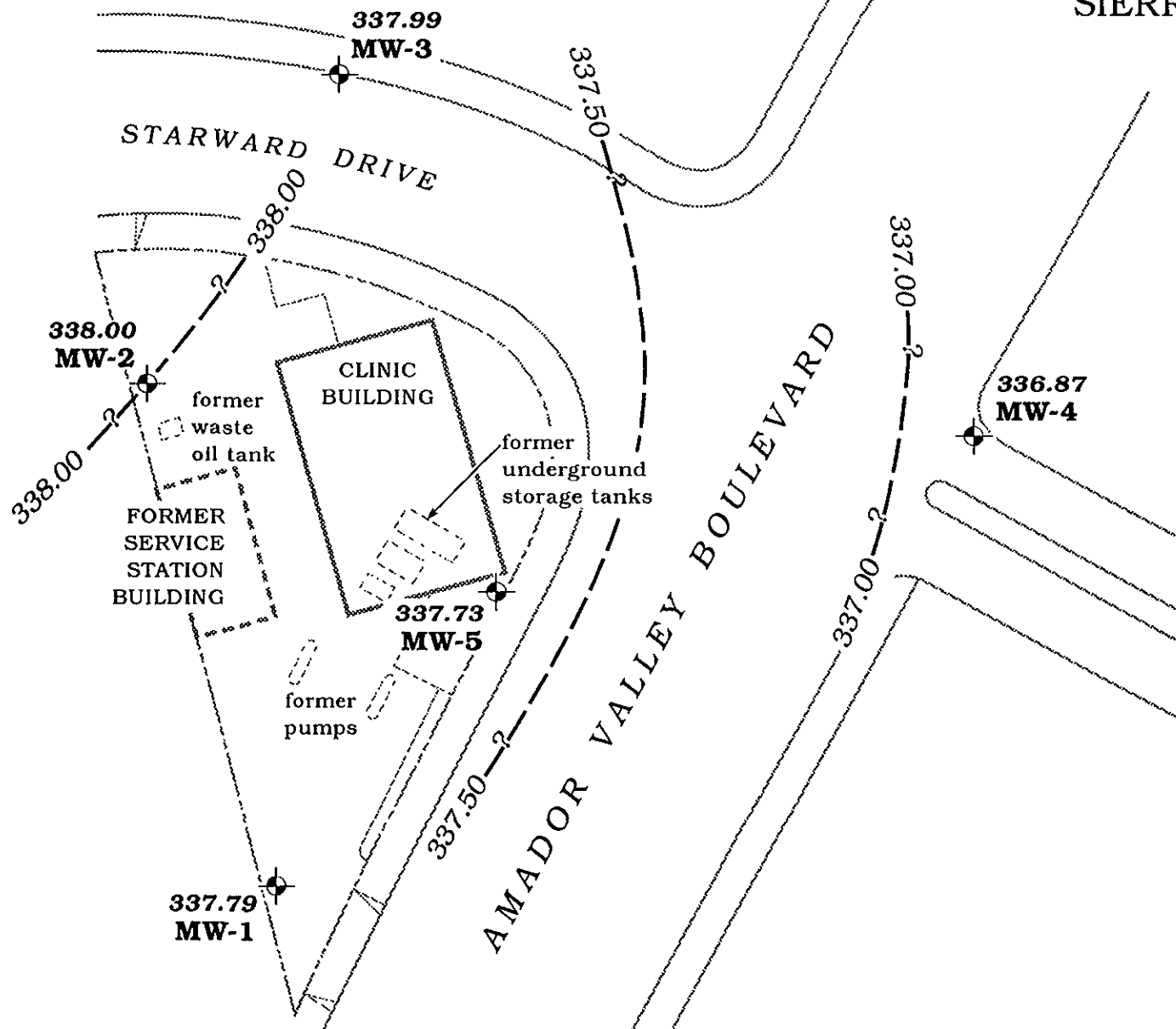
REH/CJB/wmc  
38004QM.NO4

- Attachments    Figure
- Table
- SES Standard Operating Procedure
- Field Water Sampling Forms
- Chain of Custody Document and Laboratory Analytic Reports



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Approximate ground water flow direction at a gradient of 0.0035-0.0056 ft/ft



**EXPLANATION**



**MW-5**

Monitoring well

**337.73**

Ground water elevation, in feet

**337.50**

Ground water elevation contour, dashed where inferred, queried where uncertain

**N**



0 25 50 ft.

Base map after RESNA

Figure 1. Monitoring Well Locations and Ground Water Elevation Contour Map - November 1, 1994 - Former Chevron Service Station #9-2621, 7667 Amador Valley Boulevard, Dublin, California

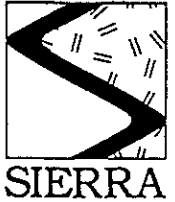


Table 1. Water Level Data and Ground Water Analytic Results - Former Chevron Service Station #9-2621, 7667 Amador Valley Boulevard, Dublin, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						-----ppb----->				
MW-1/ 346.73	9/23/93	6.62	340.11	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	3/11/94	7.16	339.57	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/15/94	7.54	339.19	0	8015/8020	<50	<0.5	0.8	<0.5	2.0
	<b>11/1/94</b>	<b>8.94</b>	<b>337.79</b>	<b>0</b>	<b>8015/8020</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
MW-2/ 348.41	9/23/93	8.11	340.30	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	3/11/94	8.60	339.70	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/15/94	8.95	339.46	0	8015/8020	<50	0.5	0.7	<0.5	2.2
	<b>11/1/94</b>	<b>10.41</b>	<b>338.00</b>	<b>0</b>	<b>8015/8020</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
MW-3/ 347.14	9/23/93	7.04	340.10	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	3/11/94	7.44	339.70	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/15/94	7.83	339.31	0	8015/8020	<50	<0.5	0.6	<0.5	2.0
	<b>11/1/94</b>	<b>9.15</b>	<b>337.99</b>	<b>0</b>	<b>8015/8020</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
MW-4/ 343.52	9/23/93	5.12	338.40	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	3/11/94	5.45	338.07	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/15/94	5.82	337.70	0	8015/8020	<50	<0.5	0.7	<0.5	2.2
	<b>11/1/94</b>	<b>6.65</b>	<b>336.87</b>	<b>0</b>	<b>8015/8020</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
MW-5/ 345.51	3/11/94	6.10	339.41	0	8015/8020	770	1.4	37	5.6	10
	6/15/94	6.48	339.03	0	8015/8020	650	1.5	38	12	5.5
	<b>11/1/94</b>	<b>7.78</b>	<b>337.73</b>	<b>0</b>	<b>8015/8020</b>	<b>310<sup>1</sup></b>	<b>&lt;0.5</b>	<b>0.6</b>	<b>4.4</b>	<b>&lt;0.5</b>
TB-LB	9/23/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	3/11/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/15/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	<b>11/1/94</b>	---	---	---	<b>8015/8020</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>



Table 1. Water Level Data and Ground Water Analytic Results - Former Chevron Service Station #9-2621, 7667 Amador Valley Boulevard, Dublin, California (continued)

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EXPLANATION:

DTW = Depth to water  
TOC = Top of casing elevation  
GWE = Ground water elevation  
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  
--- = Not applicable/not available

ANALYTIC METHODS:

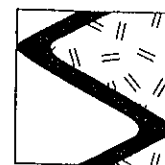
8015 = EPA Method 8015/5030 for TPPH(G)  
8015 = Modified EPA Method 8015 for TPH(D)  
8020 = EPA Method 8020 for BTEX

NOTES:

Water level data and groundwater analytic results prior to June 15, 1994 were compiled from the Additional Subsurface Environmental Investigation Report prepared for Chevron by RESNA, April 27, 1994.

\* Product thickness was measured on and after June 15, 1994 with an MMC flexi-dip interface probe.

<sup>1</sup> Does not match typical gasoline pattern.



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## SES STANDARD OPERATING PROCEDURE GROUND WATER SAMPLING

The following describes sampling procedures used by SES field personnel to collect and handle ground water samples. Before samples are collected, careful consideration is given to the type of analysis to be performed so that precautions are taken to prevent loss of volatile components or contamination of the sample, and to preserve the sample for subsequent analysis. Wells will be sampled no less than 24 hours after well development. Collection methods specific to ground water sampling are presented below.

Prior to sampling, each well is checked for the presence of free-phase hydrocarbons using an MMC flexi-dip interface probe. Product thickness (measured to the nearest 0.01 foot) is noted on the sampling form. Water level measurements are also made using either a water level meter or the interface probe. The water level measurements are also noted on the sampling form.

Prior to sampling, each well is purged of a minimum of three well casing volumes of water using a steam-cleaned PVC bailer, or a pre-cleaned pump. Temperature, pH and electrical conductivity are measured at least three times during purging. Purging is continued until these parameters have stabilized (i.e., changes in temperature, pH or conductivity do not exceed  $\pm 0.5^\circ\text{F}$ , 0.1 or 5%, respectively).

The purge water is taken to Chevron's Richmond Refinery for disposal.

Ground water samples are collected from the wells with Chevron designated disposable bailers. The water samples are decanted into the appropriate container for the analysis to be performed. Pre-preserved sample containers may be used or the analytic laboratory may add preservative to the sample upon arrival. Duplicate samples are collected from each well as a back-up sample and/or to provide quality control. The samples are labeled to include the project number, sample ID, date, preservative, and the field person's initials. The samples are placed in polyethylene bags and in an ice chest (maintained at  $4^\circ\text{C}$ ) for transport under chain of custody to the laboratory.

The chain of custody form includes the project number, analysis requested, sample ID, date analysis and the SES field person's name. The form is signed and dated (with the transfer time) by each person who yields or receives the samples beginning with the field personnel and ending with the laboratory personnel.

A trip blank accompanies each sampling set, or 5% trip blanks are included for sets of greater than 20 samples. The trip blank is analyzed for some or all of the same compounds as the ground water samples.

# TRIP BLANK



## WATER SAMPLING DATA

Job Name Amador Valley Blvd.

Job Number 1-380-04

Well Number TB-13

Date 11/1/94

Sampler J.C.

Sample Point Location/Description \_\_\_\_\_

Well Diameter \_\_\_\_\_

Depth to Water (static) \_\_\_\_\_

Well Depth (spec.) \_\_\_\_\_

Initial height of water in casing \_\_\_\_\_

Well Depth (sounded) \_\_\_\_\_

Volume to be purged \_\_\_\_\_

Volume \_\_\_\_\_ gallons

Purged With \_\_\_\_\_

\_\_\_\_\_ gallons

Pumped or Bailed Dry?  Yes  No

Sampled With \_\_\_\_\_

Water level at sampling \_\_\_\_\_

Time \_\_\_\_\_ After \_\_\_\_\_ gallons

Percent Recovery \_\_\_\_\_

**Formulas/Conversions**

$r$  = well radius in ft  
 $h$  = ht of water col. in ft  
 vol. in cyl. =  $\pi r^2 h$   
 7.48 gal/ft<sup>3</sup>

$V_{2"}$  casing = 0.163 gal/ft  
 $V_{3"}$  casing = 0.367 gal/ft  
 $V_{4"}$  casing = 0.653 gal/ft  
 $V_{5"}$  casing = 0.826 gal/ft  
 $V_{6"}$  casing = 1.47 gal/ft  
 $V_{8"}$  casing = 2.61 gal/ft

### CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm

SAMPLES COLLECTED Time \_\_\_\_\_ Total volume purged (gal.) \_\_\_\_\_

Water color \_\_\_\_\_ Odor \_\_\_\_\_

Description of sediments or material in sample: \_\_\_\_\_

Additional Comments: \_\_\_\_\_

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Inst)	Analysis Requested
TB-13	2	1	—	H <sub>2</sub> C	Y	SPA	g/BTE*

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size);  
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size);  
 5 = Other \_\_\_\_\_ ; 6 = Other \_\_\_\_\_



WATER SAMPLING DATA

Job Name Amador Valley Blvd. Job Number 1-380-04 Sampler J-C  
 Well Number MW-1 Date 11/1/94 Well Diameter 24  
 Sample Point Location/Description ON SITE WEST OF AMADOR VALLEY BLVD Well Depth (spec.)       
 Depth to Water (static) 8.94 Well Depth (sounded) 18  
 Initial height of water in casing 9.06 Volume 1.47 gallons  
 Volume to be purged 4 gallons  
 Purged With Sub pump Sampled With Disposable Baler  
 Pumped or Bailed Dry? Yes  No Time      After      gallons  
 Water level at sampling      Percent Recovery     

**Formulas/Conversions**  
 r = well radius in ft  
 h = ht of water col. in ft  
 vol. in cyl. =  $\pi r^2 h$   
 7.48 gal/ft<sup>3</sup>  
~~V<sub>1</sub> casing = 0.163 gal/ft~~  
 V<sub>2</sub> casing = 0.367 gal/ft  
 V<sub>3</sub> casing = 0.653 gal/ft  
 V<sub>4</sub> casing = 0.826 gal/ft  
 V<sub>5</sub> casing = 1.47 gal/ft  
 V<sub>6</sub> casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1:40	1:41	1	1	8.7	67	Reading	
	1:43	2	3	8.5	69	OFF	
	1:44	1	4	8.4	68	SCALE	

SAMPLES COLLECTED Time 1:50 Total volume purged (gal.) 4  
 Water color cloudy Odor NONE  
 Description of sediments or material in sample: SOME SED.  
 Additional Comments:     

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
<u>MW-1</u>	<u>3</u>	<u>1</u>	<u>    </u>	<u>HCL</u>	<u>    </u>	<u>    </u>	<u>    </u>

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size);  
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size);  
 5 = Other \_\_\_\_\_; 6 = Other \_\_\_\_\_





### WATER SAMPLING DATA

Job Name Amador Valley Blvd. Job Number 1-380-04  
 Well Number MW-2 Date 11/1/94 Sampler J.C.  
 Sample Point Location/Description on site rear of bldg. in parking stall Well Diameter 2"  
 Depth to Water (static) 10.41 Well Depth (sounded) 18 Well Depth (spec.) \_\_\_\_\_  
 Initial height of water in casing 7.59 Volume 1.23 gallons  
 Volume to be purged 4 gallons  
 Purged With Sub pump Sampled With Disposable Bailer  
 Pumped or Bailed Dry? Yes \_\_\_ No X Time \_\_\_\_\_ After \_\_\_\_\_ gallons  
 Water level at sampling \_\_\_\_\_ Percent Recovery \_\_\_\_\_

**Formulas/Conversions**  
 $r$  = well radius in ft  
 $h$  = ht of water col. in ft  
 $vol. in cyl. = \pi r^2 h$   
 $7.48 gal/ft^3$   
 $V_{10} casing = 0.163 gal/ft$   
 $V_{20} casing = 0.367 gal/ft$   
 $V_{30} casing = 0.653 gal/ft$   
 $V_{40} casing = 0.826 gal/ft$   
 $V_{50} casing = 1.47 gal/ft$   
 $V_{60} casing = 2.61 gal/ft$

### CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
2:00	2:01	1	1	8.1	69	READING	
	2:02	2	3	8.0	69	OFF	
	2:03	1	4	7.9	69	SCALE	

SAMPLES COLLECTED Time 2:10  
 Water color cloudy Total volume purged (gal.) 4  
 Description of sediments or material in sample: Odor NONE  
 Additional Comments: Some Sed.

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Inst)	Analysis Requested
MW-2	3	1	—	HCl	Y	SRA	g/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size);  
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size);  
 5 = Other \_\_\_\_\_



### WATER SAMPLING DATA

Job Name Amador Valley Blvd. Job Number 1-380-04 Sampler J-C  
 Well Number MW-3 Date 11/1/94 Well Diameter 2"  
 Sample Point Location/Description OFF site NEAR Apts. on Stairward Dr. Well Depth (spec.)         
 Depth to Water (static) 9.15 Well Depth (sounded) 17  
 Initial height of water in casing 7.85 Volume 1.27 gallons  
 Volume to be purged 4 gallons  
 Purged With Sub pump Sampled With D. Fosatole Balox  
 Pumped or Bailed Dry? Yes  No  Time        After        gallons  
 Water level at sampling        Percent Recovery       

**Formulas/Conversions**  
 $r$  = well radius in ft  
 $h$  = ht of water col. in ft  
 $vol. in cyl. = \pi r^2 h$   
 $7.48 gal/ft^3$   
 $V_{10} casing = 0.163 gal/ft$   
 $V_{20} casing = 0.367 gal/ft$   
 $V_{30} casing = 0.653 gal/ft$   
 $V_{40} casing = 0.826 gal/ft$   
 $V_{50} casing = 1.47 gal/ft$   
 $V_{60} casing = 2.61 gal/ft$

### CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
<u>12:59</u>	<u>1:00</u>	<u>1</u>	<u>1</u>	<u>7.3</u>	<u>68</u>	<u>1980</u>	
	<u>1:02</u>	<u>2</u>	<u>3</u>	<u>6.8</u>	<u>67</u>	<u>1970</u>	
	<u>1:03</u>	<u>1</u>	<u>4</u>	<u>6.7</u>	<u>67</u>	<u>1990</u>	

SAMPLES COLLECTED Time 2:10  
 Water color Cloudy Total volume purged (gal.) 4  
 Description of sediments or material in sample: Odor NONE  
 Additional Comments: SOME SED.

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Inst.)	Analysis Requested
<u>MW-3</u>	<u>3</u>	<u>1</u>	<u>—</u>	<u>HCl</u>	<u>Y</u>	<u>SPA</u>	<u>g/BEX</u>

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size);  
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene septa;  
 5 = Other



### WATER SAMPLING DATA

Job Name Amador Valley Blvd. Job Number 1-380-04 Sampler J-C  
 Well Number MW-4 Date 11/1/94 Well Diameter 2"  
 Sample Point Location/Description OFF SITE NEAR LIBRARY ON Amador Valley Blvd Well Depth (spec.)       
 Depth to Water (static) 6.65 Well Depth (sounded) 18  
 Initial height of water in casing 11.35 Volume 1.85 gallons  
 Volume to be purged      gallons  
 Purged With Sub pump Sampled With Disposable Bailer  
 Pumped or Bailed Dry? Yes  No Time      After      gallons  
 Water level at sampling      Percent Recovery     

**Formulas/Conversions**  
 $r$  = well radius in ft  
 $h$  = ht of water col. in ft  
 vol. in cyl. =  $\pi r^2 h$   
 7.48 gal/ft<sup>3</sup>  
 $V_c$  casing = 0.163 gal/ft  
 $V_1$  casing = 0.367 gal/ft  
 $V_2$  casing = 0.653 gal/ft  
 $V_3$  casing = 0.826 gal/ft  
 $V_4$  casing = 1.47 gal/ft  
 $V_5$  casing = 2.61 gal/ft

### CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
119	121	2	2	6.6	69	READING	
	123	2	4	6.7	70	OFF	
	125	2	6	6.6	70	SCALE	

SAMPLES COLLECTED Time 131 Total volume purged (gal.) 6  
 Water color cloudy Odor NONE  
 Description of sediments or material in sample: SOME SED.  
 Additional Comments:     

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Inst)	Analysis Requested
MW-4	3	1	—	HCL	Y	SPA	g/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size);  
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polybutylene  
 5 = Other



WATER SAMPLING DATA

Job Name Amador Valley Blvd. Job Number 1-380-04 Sampler J.C.  
 Well Number MW-5 Date 11/1/94 Well Diameter 2"  
 Sample Point Location/Description ON SITE EAST of Amador Valley Blvd. Well Depth (spec.)       
 Depth to Water (static) 7.78 Well Depth (sounded) 17  
 Initial height of water in casing 9.22 Volume 1.50 gallons  
 Volume to be purged 5 gallons  
 Purged With Sub pump Sampled With Disposable Bailer  
 Pumped or Bailed Dry? Yes  No Time      After      gallons  
 Water level at sampling      Percent Recovery     

**Formulas/Conversions**  
 $r$  = well radius in ft  
 $h$  = ht of water col. in ft  
 vol. in cyl. =  $\pi r^2 h$   
 7.48 gal/ft<sup>3</sup>  
 $V_{10}$  casing = 0.163 gal/ft  
 $V_{20}$  casing = 0.367 gal/ft  
 $V_{30}$  casing = 0.653 gal/ft  
 $V_{40}$  casing = 0.826 gal/ft  
 $V_{50}$  casing = 1.47 gal/ft  
 $V_{60}$  casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
2:25	2:26	1	1	7.3	64	1500	
	2:28	2	3	7.3	64	1430	
	2:30	2	5	7.2	63	1460	

SAMPLES COLLECTED Time 2:40  
 Water color Cloudy Total volume purged (gal.) 5  
 Description of sediments or material in sample: Odor Hydrocarbon  
 Additional Comments: Some Seal.

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Inst)	Analysis Requested
MW-5	3	1	-	HCl	Y	EPA	g/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polybutylene; 5 = Other

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

30825

Chain-of-Custody-Reco

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

Chevron Facility Number 9-2601  
Facility Address 7607 AMADORE VALLEY BL., Dublin  
Consultant Project Number 1-300-04  
Consultant Name Sierra Environmental Services  
Address P.O. Box 2546, Martinez, CA  
Project Contact (Name) Ed Morales  
(Phone) 370-1280 (Fax Number) 370-7959

Chevron Contact (Name) KENNETH KAN  
(Phone) 842-8752  
Laboratory Name SPA  
Laboratory Release Number 1339391  
Samples Collected by (Name) Joe Carter  
Collection Date 11/1/94  
Signature Joe Carter

Sample Number	Lab Sample Number	Number of Containers	Matrix			Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed											Remarks						
			S = Soil	A = Air	W = Water				C = Charcoal	Type	BTX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (8220)	Purceable Halocarbons (8010)	Purceable Aromatics (8020)	Purceable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICUP or AA)								
TB-LB		2	W		G	—	Hold	Y	✓																ANALYZES	
MW-3		3				1:10		Y	✓																	
MW-4						1:31			✓																	
MW-1						1:50			✓																	
MW-2						2:10			✓																	
MW-5		↓	↓			2:40	↓	↓	✓																	

Note:  
Do Not Bill TB-LB Samp

Please Initial:  
 Samples stored in ice  
 Appropriate containers  
 Samples preserved  
 VOA's without headspace  
 Comments:

*RB* ✓ 3-700

Relinquished By (Signature) <u>Joe Carter</u>	Organization <u>SES</u>	Date/Time <u>11/1/94</u>	Received By (Signature) _____	Organization _____	Date/Time _____	Turn Around Time (Circle Choice) <u>f.c.</u> <input type="radio"/> 24 hrs. <input type="radio"/> 48 hrs. <input type="radio"/> 5 Days <input checked="" type="radio"/> 10 Days <input type="radio"/> As Contracted
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received By (Signature) _____	Organization _____	Date/Time _____	
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received For Laboratory By (Signature) <u>R. B. ...</u>	Organization <u>SPA/RTZ</u>	Date/Time <u>11/1/94 1620</u>	



# Superior Precision Analytical, Inc.

A member of ESSECON Environmental Support Service Consortium

Sierra Environmental  
Attn: ED MORALES

Project 1-380-04  
Reported 11/11/94

## TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30825- 1	TB-LB	11/01/94	11/10/94 Water
30825- 2	MW-3	11/01/94	11/10/94 Water
30825- 3	MW-4	11/01/94	11/10/94 Water
30825- 4	MW-1	11/01/94	11/10/94 Water
30825- 5	MW-2	11/01/94	11/10/94 Water
30825- 6	MW-5	11/01/94	11/11/94 Water

## RESULTS OF ANALYSIS

Laboratory Number: 30825- 1    30825- 2    30825- 3    30825- 4    30825- 5

Gasoline:	ND<50	ND<50	ND<50	ND<50	ND<50
Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Total Xylenes:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number: 30825- 6

Gasoline:	310*
Benzene:	ND<0.5
Toluene:	0.6
Ethyl Benzene:	4.4
Total Xylenes:	ND<0.5
Concentration:	ug/L

\*Does not match typical gasoline pattern



## C E R T I F I C A T E   O F   A N A L Y S I S

### ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

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QA/QC INFORMATION  
SET: 30825

NA = ANALYSIS NOT REQUESTED  
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT  
ug/L = parts per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:  
Minimum Detection Limit in Water: 5000ug/L

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:  
Minimum Quantitation Limit for Diesel in Water: 50ug/L

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:  
Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE  
Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	104/96	8%	56-117
Benzene:	102/96	6%	59-149
Toluene:	112/104	7%	59-149
Ethyl Benzene:	109/101	8%	59-149
Total Xylenes:	113/104	8%	59-149

Certified Laboratory Chemist