



**Chevron U.S.A. Products Company**

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500  
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

9210710 11 2: 02

November 6, 1992

4037

Ms. Jennifer Eberle  
Alameda County Health Care Services  
80 Swan Way, Room 200  
Oakland, CA 94621

**Re: Chevron Service Station #9-4587  
609 Oak Street, Oakland**

Dear Ms. Eberle:

Enclosed we are forwarding the Quarterly Ground Water Monitoring Report dated October 28, 1992, prepared by our consultant Alton Geoscience for the above referenced site. As indicated in the report, groundwater samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX. Benzene was detected in monitor wells C-2 only at a concentration of 3,500 ppb. Separate-phase hydrocarbons were observed in monitor well C-1, CR-1 and tank pit backfill wells B and C at measured thicknesses of a sheen, .01, .13 and .12-feet, respectively. Approximately 1.22 gallons of separate-phase hydrocarbons were removed during this quarter. Purging of the separate-phase hydrocarbons will continue on a monthly basis until a dedicated recovery system can be installed. Depth to ground water was measured at approximately 9.2 to 11.2-feet below grade, and the direction of flow is to the southeast.

As per our conversation on November 4, 1992, we are in the process of obtaining the necessary permits to install the ground water remediation system. We will keep you apprised of any schedule changes should they occur. Chevron will continue to examine all monitor wells for the presence of separate-phase hydrocarbons on a monthly basis and perform quarterly chemical analysis. Monitor wells which exhibit separate-phase hydrocarbons will be bailed during these inspections.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-9581.

Very truly yours,  
CHEVRON U.S.A. PRODUCTS COMPANY

  
Nancy Vukelich  
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Rich Hiatt, RWQCB  
Mr. Kent O'Brien, Geraghty & Miller-Richmond  
Mr. S.A. Willer  
File (9-4587Q4)

October 28, 1992

Ms. Nancy Vukelich  
Chevron U.S.A. Products Company  
Post Office Box 5004  
San Ramon, California 94583-0804

31-0564

Subject: Quarterly Ground Water Monitoring Report  
Chevron Station No. 9-4587  
609 Oak Street  
Oakland, California

Dear Ms. Vukelich:

In accordance with our agreement, Alton Geoscience transmits this Quarterly Ground Water Monitoring and Sampling Report for Chevron Station No. 9-4587, located at 609 Oak Street, Oakland, California. Figure 1 shows the site location.

Monitoring and sampling of the ground water monitoring wells was performed on September 17, 1992, in accordance with the requirements and procedures of the California Regional Water Quality Control Board (RWQCB) and local regulatory agencies.

#### FIELD PROCEDURES

Prior to purging and sampling the wells, each well was checked for liquid-phase hydrocarbons or sheen. The depth to ground water and, if present, free product was measured in each well from the top of casing using an electronic interface probe with 0.01 foot tolerance.

Ground water samples were collected after more than 3 casing volumes of ground water was purged from each well. Each sample was collected using a clean bailer. Ground water samples were then decanted into the appropriate clean sample containers for delivery to a California-certified laboratory following proper preservation and chain of custody procedures. Purged ground water was transferred to a 600 gallon, trailer-mounted, steel tank (California Department of Health Services registered), and transported, as non-hazardous, to the Chevron Richmond Terminal for treatment.

Ms. Nancy Vukelich  
October 28, 1992  
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#### **SAMPLING AND ANALYTICAL RESULTS**

The results of the monitoring and laboratory analyses of ground water samples for this quarter, as well as the results of previous monitoring and sampling events, are summarized in Table 1. Based on the previous wellhead elevation survey data and depth to water measurements collected during this monitoring event, ground water elevations and the general ground water gradient direction at this site are presented in Figure 2.

Free product was observed in monitoring wells C-1, C-B, C-C, and CR-1. Since September 1991, Alton Geoscience has been removing free product from these wells on a monthly basis. Approximately 1.22 gallons of free product, in total, has been manually recovered from the wells since the previous sampling event on June 25, 1992. The official laboratory reports and chain of custody records are included in Appendix A.

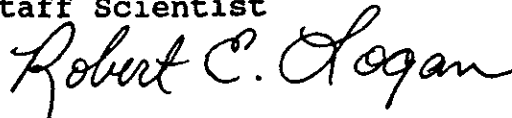
Please call Dale P. Swain at (510) 734-8134 if you have any questions regarding this report.

Sincerely,

**ALTON GEOSCIENCE,**

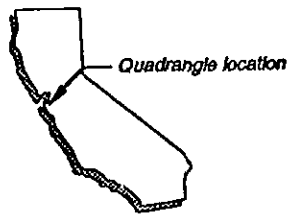
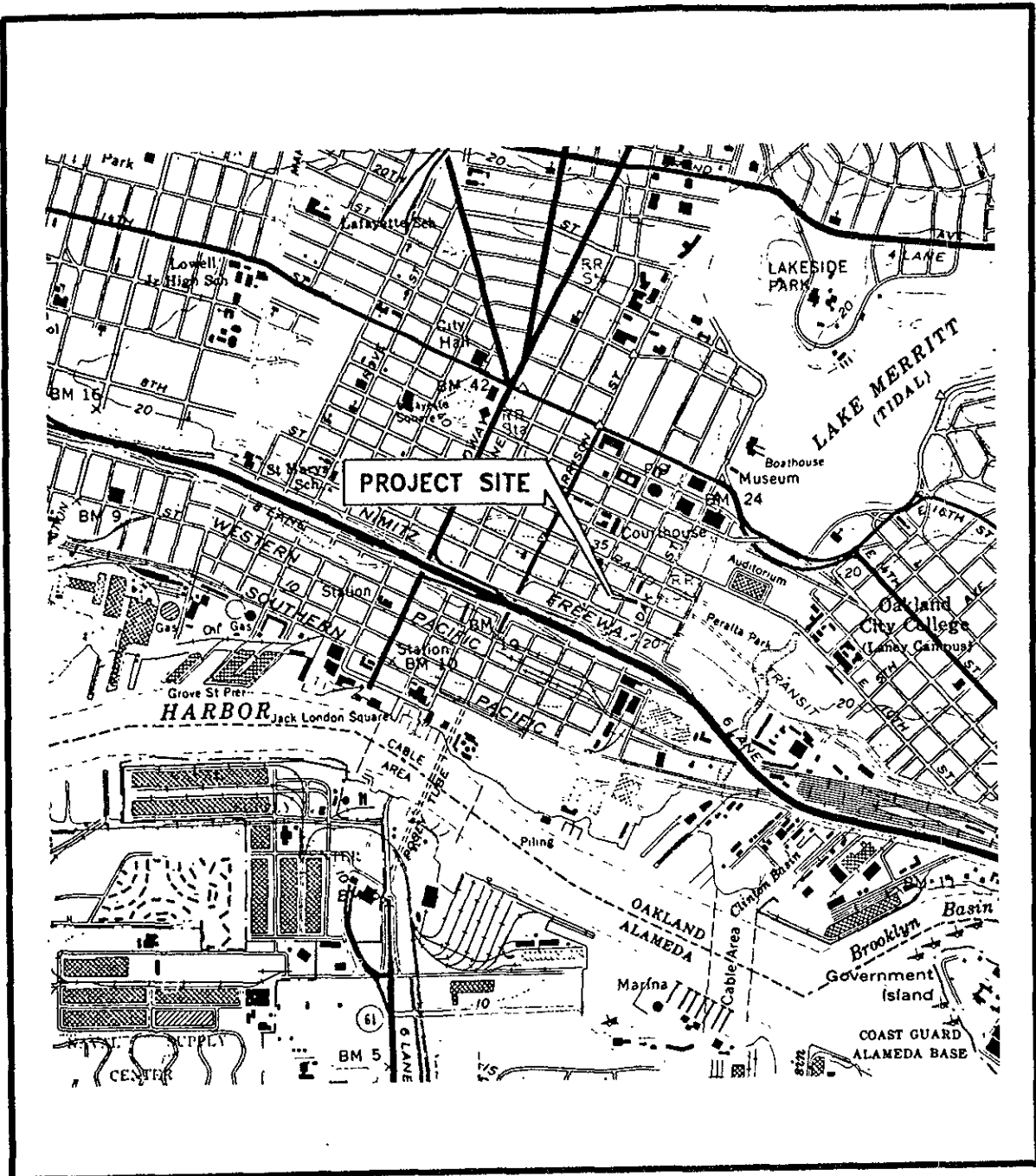


Dale P. Swain  
Staff Scientist



Robert E. Logan R. G. 5088  
Manager, Northern California Operations

wp94587ds



Source: U.S.G.S. Map  
Oakland West Quadrangle  
California  
7.5 Minute Series

**SITE VICINITY MAP**




Chevron Station No. 9-4587  
609 Oak Street  
Oakland, California

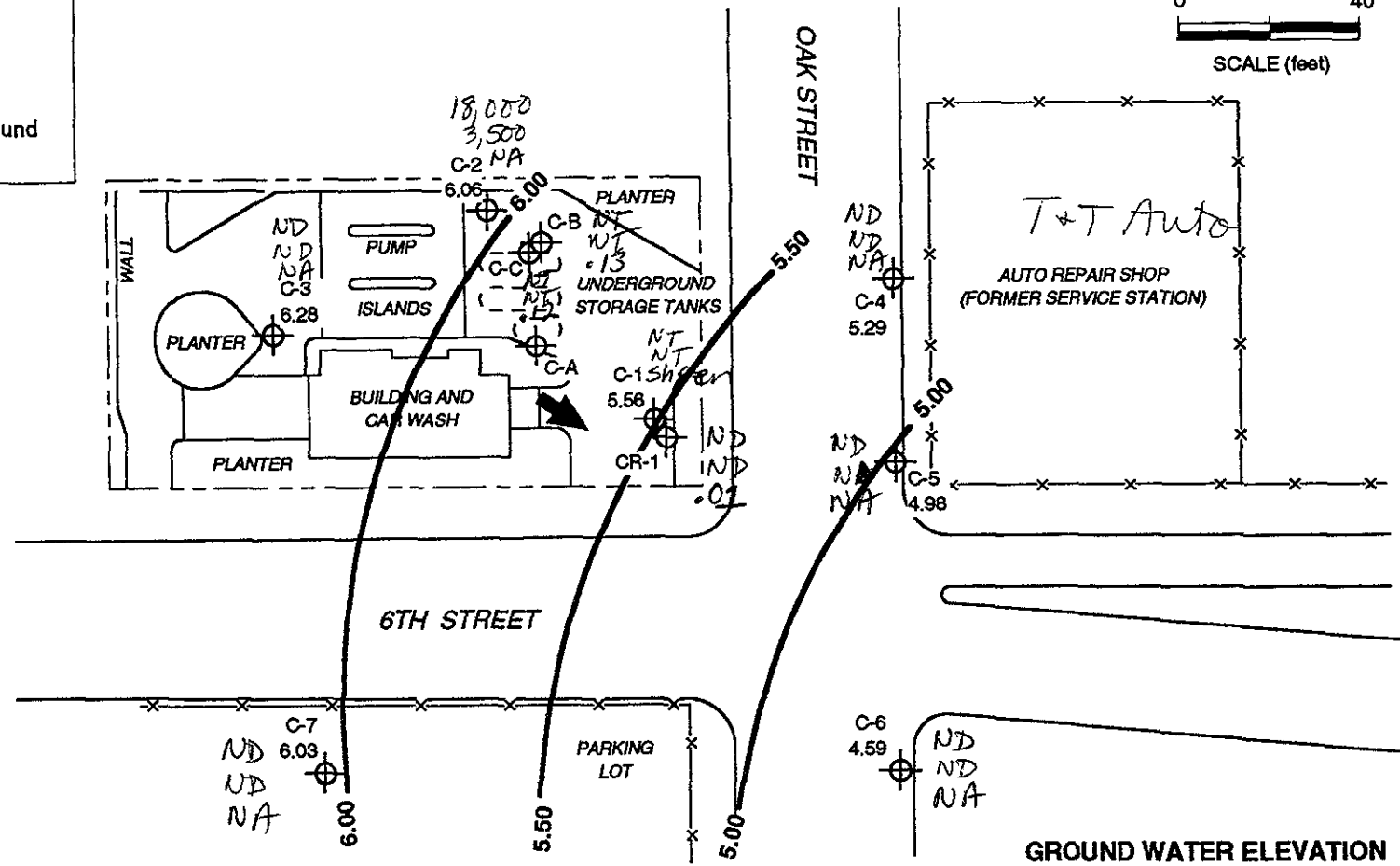
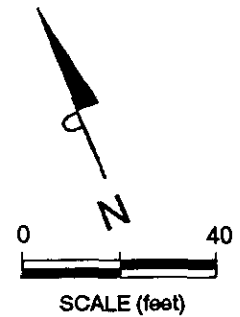
**FIGURE 1**



Project No. 31-0564

**LEGEND**

-  C-7 Ground water monitoring well
- 6.03 Ground water elevation, feet above mean sea level [NGVD-1929]
-  Ground water elevation contour line
-  General direction of ground water gradient



*PHG (9/17/92)  
Menz (9/17/92)  
C-A - not found onsite*

**NOTES:**  
Contour lines are interpretive based on fluid levels collected September 17, 1992.  
Contour interval = 0.50 foot.

**GROUND WATER ELEVATION CONTOUR MAP**  
**September 17, 1992**

Chevron Station No. 9-4587  
609 Oak Street  
Oakland, California

**FIGURE 2**



SOURCE: Geostrategies, Inc.

Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Station No. 9-4587  
 609 Oak Street, Oakland, California  
 Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	TOP OF WELL BOX ELEVATION	DEPTH TO WATER	FREE PRODUCT THICKNESS	FREE PRODUCT BAILED (GALLONS)	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-A	12/06/89	---	---	0.00	0.00	---	44000	20000	66	1600	2220	NA
C-A	10/30/90	---	11.20	SHEEN	0.00	---	31000	23000	110	1100	160	SAL
C-AD	10/30/90	---	11.20	SHEEN	0.00	---	30000	23000	150	1000	180	SAL
C-A	01/14/91	---	11.25	0.00	0.00	---	12000	30000	540	1400	560	SAL
C-A	04/03/91	---	9.82	0.00	0.00	---	59000	33000	2400	2200	3100	SAL
C-A	07/17/91	---	10.93	0.00	0.00	---	52000	38000	380	1300	500	SAL
C-A***	10/07/91	---	---	---	---	---	---	---	---	---	---	NA
C-A***	06/25/92	---	---	---	---	---	---	---	---	---	---	NA
C-A***	09/17/92	---	---	---	---	---	---	---	---	---	---	NA
C-B	12/06/89	---	---	0.01	---	---	---	---	---	---	---	NA
C-B	10/30/90	---	11.19	0.01	---	---	---	---	---	---	---	NA
C-B	01/14/91	---	11.40	0.01	---	---	---	---	---	---	---	NA
C-B	04/03/91	---	9.55	1.00	---	---	---	---	---	---	---	NA
C-B	04/04/91	---	10.54	1.06	0.75	---	---	---	---	---	---	NA
C-B	07/17/91	---	10.84	0.03	---	---	---	---	---	---	---	NA
C-B	10/07/91	---	11.10	0.04	0.01	---	---	---	---	---	---	NA
C-B	02/04/92	---	10.78	0.01	0.01	---	---	---	---	---	---	NA
C-B	03/06/92	---	---	---	---	---	---	---	---	---	---	NA
C-B	04/01/92	---	10.33	1.02	0.15	---	---	---	---	---	---	NA
C-B	06/25/92	---	11.20	0.68	0.10	---	---	---	---	---	---	NA
C-B	09/17/92	---	11.07	0.13	0.02	---	---	---	---	---	---	NA
C-C	12/06/89	---	---	0.15	---	---	---	---	---	---	---	NA
C-C	10/30/90	---	10.84	0.03	---	---	---	---	---	---	---	NA
C-C	01/14/91	---	11.01	0.11	---	---	---	---	---	---	---	NA
C-C	04/03/91	---	9.19	0.02	---	---	---	---	---	---	---	NA
C-C	07/17/91	---	10.53	0.03	---	---	---	---	---	---	---	NA
C-C	10/07/91	---	10.98	0.08	0.01	---	---	---	---	---	---	NA
C-C	02/04/92	---	10.45	0.09	0.10	---	---	---	---	---	---	NA
C-C	03/06/92	---	8.83	0.09	0.10	---	---	---	---	---	---	NA
C-C	04/01/92	---	9.23	0.16	0.10	---	---	---	---	---	---	NA
C-C	06/25/92	---	10.40	0.12	0.06	---	---	---	---	---	---	NA
C-C	09/17/92	---	10.84	0.12	1.00	---	---	---	---	---	---	NA

Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Station No. 9-4587  
 609 Oak Street, Oakland, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	TOP OF WELL BOX ELEVATION	DEPTH TO WATER	FREE PRODUCT THICKNESS	FREE PRODUCT BAILED (GALLONS)	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-1	12/06/89	16.07	---	0.20	---	---	---	---	---	---	---	NA
C-1	10/30/90	16.07	10.79	0.02	---	5.30	---	---	---	---	---	NA
C-1	01/14/91	16.07	11.39	0.02	---	4.70	---	---	---	---	---	NA
C-1	04/03/91	16.07	9.43	0.02	---	6.66	---	---	---	---	---	NA
C-1	07/17/91	16.07	10.46	0.04	---	5.64	---	---	---	---	---	NA
C-1	10/07/91	16.07	10.74	0.04	0.01	5.36	---	---	---	---	---	NA
C-1	02/04/92	16.07	10.37	0.01	0.01	5.71	---	---	---	---	---	NA
C-1	03/06/92	16.07	9.20	0.00	0.00	6.87	---	---	---	---	---	NA
C-1	04/01/92	16.07	9.28	0.00	0.00	6.79	---	---	---	---	---	NA
C-1	06/25/92	16.07	9.98	0.01	0.01	6.10	100000	8800	7000	2800	19000	SAL
C-1	09/17/92	16.07	10.51	SHEEN	0.01	5.56	---	---	---	---	---	NA
C-2	12/06/89	16.84	---	0.00	0.00	---	16000	250	1200	550	1400	NA
C-2	10/30/90	16.84	11.16	0.00	0.00	5.68	28000	3700	1900	1200	4300	SAL
C-2	01/14/91	16.84	11.11	0.00	0.00	5.73	24000	3300	1200	1100	4100	SAL
C-2D	01/14/91	16.84	11.11	0.00	0.00	5.73	30000	3900	1500	1500	5000	SAL
C-2	04/03/91	16.84	9.53	0.00	0.00	7.31	12000	1100	840	650	1800	SAL
C-2D	04/03/91	16.84	9.53	0.00	0.00	7.31	14000	1100	990	680	1800	SAL
C-2	07/17/91	16.84	10.68	0.00	0.00	6.16	13000	1700	560	650	1700	SAL
C-2D	07/17/91	16.84	10.68	0.00	0.00	6.16	14000	1700	640	720	1900	SAL
C-2	10/07/91	16.84	11.02	0.00	0.00	5.82	25000	3700	1300	1400	3800	SAL
C-2	02/04/92	16.84	10.60	0.00	0.00	6.24	16000	2600	300	880	1900	SAL
C-2	04/01/92	16.84	9.30	0.00	0.00	7.54	15000	1900	300	700	1500	SAL
C-2	06/25/92	16.84	10.45	0.00	0.00	6.39	23000	3400	740	1300	3400	SAL
C-2	09/17/92	16.84	10.78	0.00	0.00	6.06	18000✓	3500✓	550✓	1400✓	3900✓	SAL
C-3	12/06/89	16.48	---	0.00	0.00	---	ND<500	ND<0.5	ND<0.5	ND<0.5	0.74	NA
C-3	10/30/90	16.48	10.44	0.00	0.00	6.04	410	4	4	2	9	SAL
C-3	01/14/91	16.48	10.34	0.00	0.00	6.14	80	ND<0.5	ND<0.5	ND<0.5	1	SAL
C-3	04/03/91	16.48	9.01	0.00	0.00	7.47	53	ND<0.5	ND<0.5	ND<0.5	2	SAL
C-3	07/17/91	16.48	10.00	0.00	0.00	6.48	ND<50	5.9	ND<0.5	ND<0.5	ND<0.5	SAL
C-3	10/07/91	16.48	10.38	0.00	0.00	6.10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-3	02/04/92	16.48	10.00	0.00	0.00	6.48	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-3	04/01/92	16.48	8.83	0.00	0.00	7.65	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-3	06/25/92	16.48	9.85	0.00	0.00	6.63	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-3	09/17/92	16.48	10.20	0.00	0.00	6.28	ND<50✓	ND<0.5✓	ND<0.5✓	ND<0.5✓	ND<0.5✓	SAL

Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Station No. 9-4587  
 609 Oak Street, Oakland, California  
 Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	TOP OF WELL BOX ELEVATION	DEPTH TO WATER	FREE PRODUCT THICKNESS	FREE PRODUCT BAILED (GALLONS)	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-4	12/06/89	16.53	---	0.00	0.00	---	---	---	---	---	---	NA
C-4	10/30/90	16.53	11.56	0.00	0.00	4.97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-4	01/14/91	16.53	11.44	0.00	0.00	5.09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-4	04/03/91	16.53	10.00	0.00	0.00	6.53	150	3	ND<0.5	12	9	SAL
C-4	07/17/91	16.53	11.16	0.00	0.00	5.37	290	2.3	0.4	52	0.4	SAL
C-4	10/07/91	16.53	11.39	0.00	0.00	5.14	ND<50	ND<0.5	ND<0.5	4.6	ND<0.5	SAL
C-4	02/04/92	16.53	11.02	0.00	0.00	5.51	ND<50	ND<0.5	ND<0.5	2.8	ND<0.5	SAL
C-4D	02/04/92	16.53	11.02	0.00	0.00	5.51	ND<50	ND<0.5	ND<0.5	2.5	0.5	SAL
C-4	04/01/92	16.53	9.83	0.00	0.00	6.70	480	4.9	ND<0.5	64	4.3	SAL
C-4	06/25/92	16.53	10.88	0.00	0.00	5.65	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-4	09/17/92	16.53	11.24	0.00	0.00	5.29	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-5	12/06/89	14.70	9.97	0.00	0.00	4.73	---	---	---	---	---	NA
C-5	10/30/90	14.70	---	0.00	0.00	---	ND<50	0.8	ND<0.5	ND<0.5	0.5	SAL
C-5	01/14/91	14.70	9.87	0.00	0.00	4.83	54	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-5	04/03/91	14.70	8.72	0.00	0.00	5.98	1800	330	200	52	170	SAL
C-5	07/17/91	14.70	9.63	0.00	0.00	5.07	170	120	5.3	12	20	SAL
C-5	10/07/91	14.70	9.83	0.00	0.00	4.87	ND<50	1.1	ND<0.5	ND<0.5	ND<0.5	SAL
C-5	02/04/92	14.70	9.53	0.00	0.00	5.17	91	16	ND<0.5	2.4	2.0	SAL
C-5	04/01/92	14.70	8.57	0.00	0.00	6.13	960	200	5.4	21	33	SAL
C-5	06/25/92	14.70	9.44	0.00	0.00	5.26	800	2.5	ND<0.5	1.3	7.3	SAL
C-5	09/17/92	14.70	9.72	0.00	0.00	4.98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-6	12/06/89	13.87	---	0.00	0.00	---	---	---	---	---	---	NA
C-6	10/30/90	13.87	9.43	0.00	0.00	4.44	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-6	01/14/91	13.87	9.41	0.00	0.00	4.46	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-6	04/03/91	13.87	8.66	0.00	0.00	5.21	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-6	07/17/91	13.87	9.25	0.00	0.00	4.62	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-6	10/07/91	13.87	9.34	0.00	0.00	4.53	67	ND<0.5	0.6	ND<0.5	0.6	SAL
C-6	02/04/92	13.87	9.16	0.00	0.00	4.71	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-6	04/01/92	13.87	8.59	0.00	0.00	5.28	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-6	06/25/92	13.87	9.11	0.00	0.00	4.76	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-6	09/17/92	13.87	9.28	0.00	0.00	4.59	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL



Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Station No. 9-4587  
 609 Oak Street, Oakland, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	TOP OF WELL BOX ELEVATION	DEPTH TO WATER	FREE PRODUCT THICKNESS	FREE PRODUCT BAILED (GALLONS)	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-7	02/07/91	15.78	9.88	0.00	0.00	5.90	ND<50	ND<0.5	0.8	ND<0.5	ND<0.5	SAL
C-7	04/03/91	15.78	9.04	0.00	0.00	6.74	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-7	07/17/91	15.78	9.86	0.00	0.00	5.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-7	10/07/91	15.78	10.10	0.00	0.00	5.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-7	02/04/92	15.78	9.74	0.00	0.00	6.04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-7	04/01/92	15.78	8.96	0.00	0.00	6.82	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-7	06/25/92	15.78	9.62	0.00	0.00	6.16	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-7	09/17/92	15.78	9.75	0.00	0.00	6.03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
CR-1**	10/30/90	---	10.51	---	---	---	9600	7100	65	610	190	SAL
CR-1	01/14/91	---	10.29	0.00	0.00	---	1500	3200	52	190	77	SAL
CR-1	07/17/91	---	10.19	0.00	0.00	---	15000	9300	220	680	530	SAL
CR-1	10/07/91	---	10.46	0.00	0.00	---	17000	7600	50	440	68	SAL
CR-1D	10/07/91	---	10.46	0.00	0.00	---	14000	9400	52	430	110	SAL
CR-1	02/04/92	---	10.12	0.00	0.00	---	19000	6100	32	350	100	SAL
CR-1	04/01/92	---	9.24	0.00	0.00	---	29000	5300	820	380	1200	SAL
CR-1	06/25/92	---	10.03	0.01	0.02	---	12000	3300	280	210	460	SAL
CR-1	09/17/92	---	10.30	0.01	0.02	---	---	---	---	---	---	SAL
TB*	10/30/90	---	---	---	---	---	---	---	---	---	---	NA
TB	01/14/91	---	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	02/07/91	---	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	04/03/91	---	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	07/17/91	---	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	10/07/91	---	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	02/04/92	---	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	04/01/92	---	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	06/25/92	---	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	09/17/92	---	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL

Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Station No. 9-4587  
 609 Oak Street, Oakland, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	TOP OF WELL BOX ELEVATION	DEPTH TO WATER	FREE PRODUCT THICKNESS	FREE PRODUCT BAILED (GALLONS)	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
RINSATE	10/30/90	---	---	---	---	---	ND<50	ND<0.5	0.6	ND<0.5	ND<0.5	SAL
RINSATE	10/07/91	---	---	---	---	---	ND<50	ND<0.5	0.5	ND<0.5	ND<0.5	SAL
RINSATE	02/04/92	---	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	04/01/92	---	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	06/25/92	---	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	09/17/92	---	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL

EXPLANATION OF ABBREVIATIONS:

TPH-G	:Total Petroleum Hydrocarbons as Gasoline (EPA method 8015 modified)	**	:The following constituents were detected in one ground water sample collected from well CR-1 on October 30, 1990:
B	:Benzene (EPA method 8020 or 8240)		:1,2-Dichloroethane -EPA Method 8240 60 ppb
T	:Toluene (EPA method 8020 or 8240)		:Di-n-octylphthalate EPA Method 8270 13 ppb
E	:Ethylbenzene (EPA method 8020 or 8240)		:2- MethylnaphthaleneEPA Method 8270 10 ppb
X	:Xylenes (EPA method 8020 or 8240)		:Naphthalene - EPA Method 8270 47 ppb
---	:Not Analyzed/Not Measured		:2,4-Dimethylphenol -EPA Method 8270 16 ppb
NA	:Not Applicable/Not Available		:4-Nitrophenol - EPA Method 8270 9 ppb
ND	:Not Detected		:Phenol - EPA Method 8270 47 ppb
TB	:Trip Blank		:Arsenic - EPA Method 206.2 22 ppb
D	:Duplicate		:Chromium - EPA Method 200.7 15 ppb
SAL	:Superior Analytical Laboratory		:Copper - EPA Method 200.7 8 ppb
*	:TB on 10/30/90 was broken		:Lead - EPA Method 239.2 61 ppb
***	:Unable to locate well.		:Mercury - EPA Method 245.1 0.6 ppb
Note	:Top of well box and ground water elevations are expressed as feet above mean sea level (NGVD - 1229). :Elevations for C-A, C-B, C-C, and CR-1 not available for calculating ground water elevations.		:Nickel - EPA Method 200.7 20 ppb
			:Zinc - EPA Method 200.7 13 ppb

**APPENDIX A**  
**OFFICIAL LABORATORY RESULTS**  
**AND**  
**CHAIN OF CUSTODY FORMS**



Alton Geoscience  
Attn: DALE SWAIN

Project 31-0564  
Reported 10/05/92

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
86758- 1	TB-LB	09/17/92	09/24/92 Water
86758- 2	RIN	09/17/92	09/24/92 Water
86758- 3	C-3	09/17/92	09/25/92 Water
86758- 4	C-6	09/17/92	09/25/92 Water
86758- 5	C-7	09/17/92	09/24/92 Water
86758- 6	C-4	09/17/92	09/24/92 Water
86758- 7	C-5	09/17/92	09/24/92 Water
86758- 8	C-2	09/17/92	09/25/92 Water

RESULTS OF ANALYSIS

Laboratory Number: 86758- 1 86758- 2 86758- 3 86758- 4 86758- 5  
*C-3 C-6 C-7*

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 ✓
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: 86758- 6 86758- 7 86758- 8  
*C-4 C-5 C-2*

Gasoline:	ND<50 ✓	ND<50 ✓	18000 ✓
Benzene:	ND<0.5 ✓	ND<0.5 ✓	3500 ✓
Toluene:	ND<0.5 ✓	ND<0.5 ✓	550 ✓
Ethyl Benzene:	ND<0.5 ✓	ND<0.5 ✓	1400 ✓
Xylenes:	ND<0.5 ✓	ND<0.5 ✓	3900 ✓
Concentration:	ug/L	ug/L	ug/L



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

Page 2 of 2  
QA/QC INFORMATION  
SET: 86758

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	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	200 ng	100/100	0	70-130
Benzene:	200 ng	102/102	0	70-130
Toluene:	200 ng	102/103	1	70-130
Ethyl Benzene:	200 ng	104/105	1	70-130
Xylenes:	200 ng	103/104	2	70-130

Richard Srna, Ph.D.

*Dorina Srna*  
Laboratory Director

Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Chevron Facility Number <u>9-4587</u> Facility Address <u>609 Oak St., Oakland, Ca</u> Consultant Project Number <u>31-0564</u> Consultant Name <u>Alton Gossard</u> Address <u>5870 Stoneridge Dr #6, Pleasanton</u> Project Contact (Name) <u>Dale Swan</u> (510) (Phone) <u>734-8134</u> (Fax Number) <u>734-8420</u>	Chevron Contact (Name) <u>Nancy Unkelich</u> (Phone) <u>(510) 842-9500</u> Laboratory Name <u>SAL</u> Laboratory Release Number <u>6827870</u> Samples Collected by (Name) <u>Lamy</u> Collection Date <u>9/17/92</u> <u>OCT 08 1992</u> Signature <u>Jay Buemenda</u>
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Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed										Remarks	
								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)				
TB-LB	1	1	W	G	1205	HCL	yes	X											Do Not Bill Chevron For TB-LB  Remarks
RIN	2	1			1206														
C-3	3	2			1208														
C-6	4				1240														
C-7	5				1231														
C-4	6				1252														
C-5	7				1303														
C-2	8	✓	✓	✓	135	✓	✓	✓											

Please initial: BU

Samples Stored in ice. ✓

Appropriate containers ✓

Samples preserved ✓

VOA's without headspace ✓

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

Relinquished By (Signature) <u>Jay Buemenda</u>	Organization <u>Alton</u>	Date/Time <u>9/18/92 10:55</u>	Received By (Signature) <u>Rog Barr</u>	Organization <u>EX-IT</u>	Date/Time <u>9/18/92</u>	Turn Around Time (Circle Choice)  24 Hrs. 48 Hrs. 5 Days <u>10 Days</u> As Contracted
Relinquished By (Signature) <u>Rog Barr</u>	Organization <u>EX-IT</u>	Date/Time <u>09/17/92</u>	Received By (Signature) <u>[Signature]</u>	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>[Signature]</u>		Date/Time <u>9/18/92 13:05</u>	

COC-3,0K/03 91/ANCI