



**Chevron** U.S.A. Inc.

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

92 APR 15 10:47

Marketing Department

**April 1, 1992**

Mr. Scott Seery  
Alameda County Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

Re: Former Chevron Station # 9-5607  
5269 Crow Canyon Road, Castro Valley, CA

Dear Mr. Seery:

Please find attached a report dated February 27, 1992, which describes groundwater monitoring by Chevron's consultant, Alton Geoscience (Alton), on January 23, 1992, at the site captioned above. Alton is scheduled to sample all of the site wells during their next site visit in April.

Chevron's consultant, Geraghty & Miller, has completed the project of connecting well C-9 to the groundwater extraction and treatment system. As a result, there are now two wells from which groundwater is extracted, well RW and well C-9.

If you have any questions or comments, I can be reached at (510) 842-8658.

Sincerely,

Clint B. Rogers  
Engineer, Site Assessment and Remediation

Attachment

cc: San Francisco Bay RWQCB, Oakland, CA  
Kevin Hinckley, 5269 Crow Canyon Road, Castro Valley, CA 94546  
Paul Hehn, Geraghty and Miller, Richmond, CA  
John DeGeorge, Alton, Pleasanton, CA (w/o attachment)

FEB 26 02 11:11

February 27, 1992

Mr. Clint Rogers  
Chevron U.S.A. Products Company  
Post Office Box 5004  
San Ramon, California 94583-0804

31-0321

Subject: Quarterly Ground Water Monitoring Report  
Chevron Station No. 9-5607  
5269 Crow Canyon Road  
Castro Valley, California

Dear Mr. Rogers:

In accordance with our agreement, Alton Geoscience transmits this Quarterly Ground Water Monitoring and Sampling Report for Chevron Station No. 9-5607, 5269 Crow Canyon Road, Castro Valley, California. Figure 1 shows the site location.

Monitoring and sampling of the ground water monitoring wells was performed on January 23, 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 placed into the ground water treatment system located onsite.

Mr. Clint Rogers  
February 27, 1992  
Page 2

31-0321

#### **SAMPLING AND ANALYTICAL RESULTS**

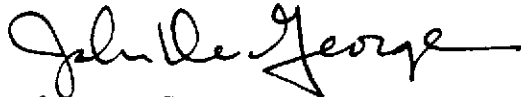
The results of the monitoring and laboratory analyses of ground water samples for this quarter, as well as the results of previous monitoring and sampling events, are summarized in Table 1. Based on the previous wellhead elevation survey data and depth to water measurements collected during this monitoring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

A product sheen was observed in monitoring well C-3. The official laboratory reports and chain of custody records are included in Appendix A.

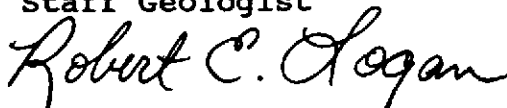
Please call John De George at (510) 734-8134 if you have any questions regarding this report.

Sincerely,

ALTON GEOSCIENCE,

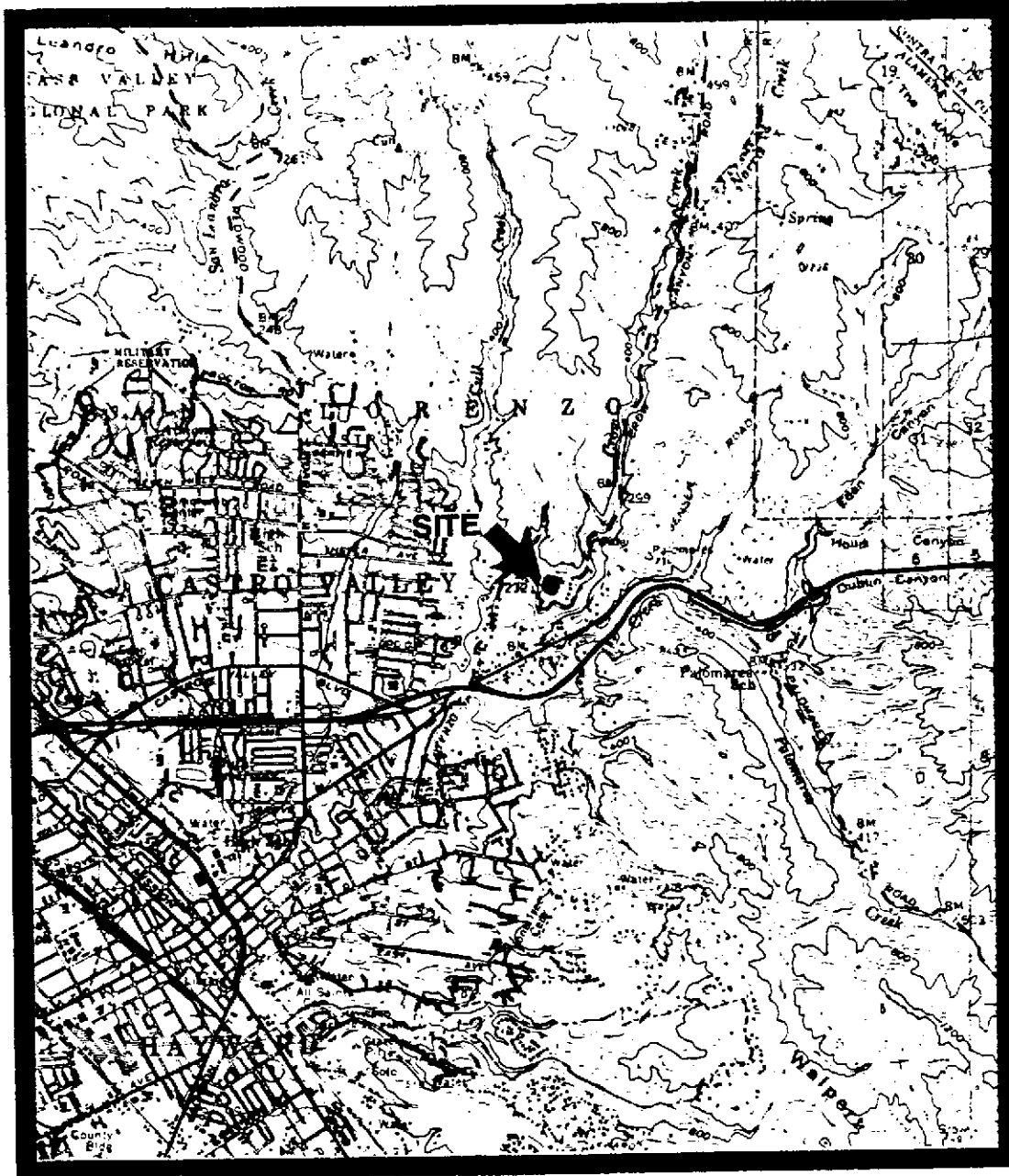


John De George  
Staff Geologist



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

wp95607jd



**FIGURE 1. SITE VICINITY MAP**

**CHEVRON U.S.A.  
 CHEVRON SERVICE STATION NO. 9-5607  
 5269 CROW CANYON ROAD  
 CASTRO VALLEY, CALIFORNIA**



**SCALE IN MILES**

**PROJECT NO. 31-0321**

**SOURCE: USGS 15 MINUTE SERIES  
 HAYWARD QUADRANGLE**



**ALTON GEOSCIENCE**  
 Pleasanton, California

Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-1	03/26/85	283.46	22.83	---	260.63	---	---	---	---	---	NA
C-1	07/03/86	283.46	23.58	---	259.88	---	---	---	---	---	NA
C-1	03/26/87	283.46	20.50	---	262.96	---	---	---	---	---	NA
C-1	03/28/88	283.46	26.00	---	257.46	---	---	---	---	---	NA
C-1	03/10/89	283.46	15.86	---	267.60	---	---	---	---	---	NA
C-1	04/03/89	283.46	16.85	---	266.61	---	---	---	---	---	NA
C-1	05/08/89	283.46	22.68	---	260.78	---	---	---	---	---	NA
C-1	06/05/89	283.46	24.66	---	258.80	---	---	---	---	---	NA
C-1	07/12/90	283.46	25.56	---	257.90	---	---	---	---	---	NA
C-1	08/10/90	283.46	25.89	---	257.57	---	---	---	---	---	NA
C-1	09/13/89	283.46	26.55	---	256.91	22000	3600	1100	1000	3500	NA
C-1	10/04/89	283.46	25.24	---	258.22	---	---	---	---	---	NA
C-1	11/03/89	283.46	25.03	---	258.43	---	---	---	---	---	NA
C-1	12/04/89	283.46	26.37	---	257.09	13000	2000	550	610	1600	NA
C-1	03/07/90	283.46	22.48	---	260.98	---	---	---	---	---	NA
C-1	03/09/90	283.46	---	---	283.46	---	---	---	---	---	NA
C-1	06/12/90	283.46	24.35	---	259.11	21000	3500	1400	840	4000	SAL
C-1	09/20/90	283.46	26.27	0.00	257.19	23000	2100	1200	860	5000	SAL
C-1	12/20/90	283.46	22.59	0.00	260.87	8200	760	410	260	1100	SAL
C-1	03/27/91	283.46	19.08	0.00	264.38	---	---	---	---	---	NA
C-1	06/18/91	283.46	27.11	0.00	256.35	---	---	---	---	---	NA
C-1	09/12/91	283.46	28.22	0.00	255.24	---	---	---	---	---	NA
C-1	01/23/92	283.46	26.65	0.00	256.81	---	---	---	---	---	NA

Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-2	03/26/85	284.37	---	---	284.37	---	---	---	---	---	NA
C-2	07/03/86	284.37	19.69	---	264.68	---	---	---	---	---	NA
C-2	03/26/87	284.37	15.45	---	268.92	---	---	---	---	---	NA
C-2	03/28/88	284.37	20.92	---	263.45	---	---	---	---	---	NA
C-2	03/10/89	284.37	12.80	---	271.57	---	---	---	---	---	NA
C-2	04/03/89	284.37	14.26	---	270.11	---	---	---	---	---	NA
C-2	05/08/89	284.37	18.42	---	265.95	---	---	---	---	---	NA
C-2	06/05/89	284.37	20.09	---	264.28	---	---	---	---	---	NA
C-2	07/12/90	284.37	20.79	---	263.58	---	---	---	---	---	NA
C-2	08/10/90	284.37	21.40	---	262.97	---	---	---	---	---	NA
C-2	09/13/89	284.37	21.86	---	262.51	320	62	4	10	14	NA
C-2	10/04/89	284.37	19.89	---	264.48	---	---	---	---	---	NA
C-2	11/03/89	284.37	20.76	---	263.61	---	---	---	---	---	NA
C-2	12/04/89	284.37	20.82	---	263.55	1000	240	37	66	130	NA
C-2	03/07/90	284.37	17.83	---	266.54	---	---	---	---	---	NA
C-2	03/09/90	284.37	17.83	---	266.54	390	280	35	27	50	SAL
C-2	06/12/90	284.37	19.89	---	264.48	700	260	34	28	55	SAL
C-2	09/20/90	284.37	21.97	0.00	262.40	---	---	---	---	---	NA
C-2	12/20/90	284.37	17.73	0.00	266.64	---	---	---	---	---	NA
C-2	03/27/91	284.37	15.10	0.00	269.27	---	---	---	---	---	NA
C-2	06/18/91	284.37	22.68	0.00	261.69	---	---	---	---	---	NA
C-2	09/12/91	284.37	23.92	0.00	260.45	---	---	---	---	---	NA
C-2	01/23/92	284.37	21.24	0.00	263.13	---	---	---	---	---	NA

Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-3	03/26/85	285.98	---	---	285.98	---	---	---	---	---	NA
C-3	07/03/86	285.98	26.04	---	259.94	---	---	---	---	---	NA
C-3	03/26/87	285.98	25.64	---	260.34	---	---	---	---	---	NA
C-3	03/28/88	285.98	28.82	---	257.16	---	---	---	---	---	NA
C-3	03/10/89	285.98	22.78	---	263.20	---	---	---	---	---	NA
C-3	04/03/89	285.98	22.71	---	263.27	---	---	---	---	---	NA
C-3	05/08/89	285.98	25.95	---	260.03	---	---	---	---	---	NA
C-3	06/05/89	285.98	27.62	---	258.36	---	---	---	---	---	NA
C-3	07/12/90	285.98	28.29	---	257.69	---	---	---	---	---	NA
C-3	08/10/90	285.98	28.46	---	257.52	---	---	---	---	---	NA
C-3	09/13/89	285.98	29.33	---	256.65	60000	1400	6800	2300	10000	NA
C-3	10/04/89	285.98	28.97	---	257.01	---	---	---	---	---	NA
C-3	11/03/89	285.98	28.72	---	257.26	---	---	---	---	---	NA
C-3	12/04/89	285.98	29.01	---	256.97	56000	1300	3300	1400	2700	NA
C-3	03/07/90	285.98	27.69	---	258.29	---	---	---	---	---	NA
C-3	03/09/90	285.98	27.69	---	258.29	42000	1100	5700	1600	7900	SAL
C-3	06/12/90	285.98	28.09	---	257.89	160000	1400	7100	3400	16000	SAL
C-3	09/24/90	285.98	29.18	0.00	256.80	53000	850	7700	2000	10000	SAL
C-3	12/20/90	285.98	28.27	0.00	257.71	520	1200	5400	5400	33000	SAL
C-3	03/27/91	285.98	24.80	0.00	261.18	92000	1300	3100	1200	11000	SAL
C-3	06/18/91	285.98	30.84	0.00	255.14	---	---	---	---	---	NA
C-3##	09/12/91	285.98	31.64	0.03	254.36	---	---	---	---	---	NA
C-3	01/23/92	285.98	30.52	SHEEN	255.46	---	---	---	---	---	NA

Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-4	03/26/85	273.01	15.14	---	257.87	---	---	---	---	---	NA
C-4	07/03/86	273.01	15.37	---	257.64	---	---	---	---	---	NA
C-4	03/26/87	273.01	---	---	273.01	---	---	---	---	---	NA
C-4	03/28/88	273.01	18.04	---	254.97	---	---	---	---	---	NA
C-4	03/10/89	273.01	---	---	273.01	---	---	---	---	---	NA
C-4	04/03/89	273.01	13.34	---	259.67	---	---	---	---	---	NA
C-4	05/08/89	273.01	15.60	---	257.41	---	---	---	---	---	NA
C-4	06/05/89	273.01	16.51	---	256.50	---	---	---	---	---	NA
C-4	07/12/90	273.01	16.99	---	256.02	---	---	---	---	---	NA
C-4	08/10/90	273.01	17.27	---	255.74	---	---	---	---	---	NA
C-4	09/13/89	273.01	18.16	---	254.85	57000	21000	3100	3200	11000	NA
C-4	10/04/89	273.01	18.24	---	254.77	---	---	---	---	---	NA
C-4	11/03/89	273.01	18.17	---	254.84	---	---	---	---	---	NA
C-4	12/04/89	273.01	18.45	---	254.56	48000	17000	2200	2800	9800	NA
C-4	03/07/90	273.01	17.20	---	255.81	---	---	---	---	---	NA
C-4	03/09/90	273.01	17.20	---	255.81	43000	20000	2300	2800	11000	SAL
C-4	06/12/90	273.01	16.66	---	256.35	82000	21000	2400	4000	16000	SAL
C-4	09/24/90	273.01	18.11	0.00	254.90	---	---	---	---	---	NA
C-4**	12/20/90	---	---	---	---	---	---	---	---	---	NA
C-4**	03/27/91	---	---	---	---	---	---	---	---	---	NA
C-4**	06/18/91	---	---	---	---	---	---	---	---	---	NA
C-4**	09/12/91	---	---	---	---	---	---	---	---	---	NA
C-4**	01/23/92	---	---	---	---	---	---	---	---	---	NA

where is it?



Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-5	03/26/85	287.95	25.33	---	262.62	---	---	---	---	---	NA
C-5	07/03/86	287.95	26.41	---	261.54	---	---	---	---	---	NA
C-5	03/26/87	287.95	24.96	---	262.99	---	---	---	---	---	NA
C-5	03/28/88	287.95	29.80	---	258.15	---	---	---	---	---	NA
C-5	03/10/89	287.95	25.89	---	262.06	---	---	---	---	---	NA
C-5	04/03/89	287.95	24.38	---	263.57	---	---	---	---	---	NA
C-5	05/08/89	287.95	27.80	---	260.15	---	---	---	---	---	NA
C-5	06/05/89	287.95	29.42	---	258.53	---	---	---	---	---	NA
C-5	07/12/90	287.95	29.86	---	258.09	---	---	---	---	---	NA
C-5	08/10/90	287.95	29.77	---	258.18	---	---	---	---	---	NA
C-5	09/13/89	287.95	30.95	---	257.00	310	ND	ND	ND	ND	NA
C-5	10/04/89	287.95	31.48	---	256.47	---	---	---	---	---	NA
C-5	11/03/89	287.95	31.32	---	256.63	---	---	---	---	---	NA
C-5	12/04/89	287.95	31.70	---	256.25	ND	ND	ND	ND	1	NA
C-5	03/07/90	287.95	30.28	---	257.67	---	---	---	---	---	NA
C-5	03/09/90	287.95	30.28	---	257.67	ND	ND	ND	ND	ND	SAL
C-5	06/12/90	287.95	30.48	---	257.47	90	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-5	09/24/90	287.95	31.78	0.00	256.17	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-5	12/20/90	287.95	33.29	0.00	254.66	170	ND<0.5	ND<0.5	1.0	0.7	SAL
C-5	03/27/91	287.95	27.98	0.00	259.97	---	---	---	---	---	NA
C-5	06/18/91	287.95	32.52	0.00	255.43	---	---	---	---	---	NA
C-5	09/12/91	287.95	33.37	0.00	254.58	---	---	---	---	---	NA
C-5	01/23/92	287.95	32.67	0.00	255.28	---	---	---	---	---	NA

Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-6	03/26/85	---	16.74	---	---	---	---	---	---	---	NA
C-6	07/03/86	275.28	17.46	---	257.82	---	---	---	---	---	NA
C-6	03/26/87	275.28	18.37	---	256.91	---	---	---	---	---	NA
C-6	03/28/88	275.28	29.84	---	245.44	---	---	---	---	---	NA
C-6	03/10/89	275.28	14.44	---	260.84	---	---	---	---	---	NA
C-6	04/03/89	275.28	14.44	---	260.84	---	---	---	---	---	NA
C-6	05/08/89	275.28	17.16	---	258.12	---	---	---	---	---	NA
C-6	06/05/89	275.28	18.51	---	256.77	---	---	---	---	---	NA
C-6	07/12/90	275.28	18.71	---	256.57	---	---	---	---	---	NA
C-6	08/10/90	275.28	19.32	---	255.96	---	---	---	---	---	NA
C-6	09/13/89	275.28	19.95	---	255.33	47	5600	3000	2400	10000	NA
C-6	10/04/89	275.28	19.87	---	255.41	---	---	---	---	---	NA
C-6	11/03/89	275.28	19.35	---	255.93	---	---	---	---	---	NA
C-6	12/04/89	275.28	19.59	---	255.69	40000	8100	1800	1700	7500	NA
C-6	03/07/90	275.28	18.39	---	256.89	---	---	---	---	---	NA
C-6	03/09/90	275.28	18.39	---	256.89	73000	23000	5900	3400	17000	SAL
C-6	06/12/90	275.28	18.87	---	256.41	85000	19000	6500	3400	16000	SAL
C-6	09/24/90	275.28	19.99	0.00	255.29	72000	15000	3200	2600	11000	SAL
C-6	12/20/90	275.28	21.57	0.00	253.71	100000	11000	4200	3400	16000	SAL
C-6	03/27/91	275.28	16.32	0.00	258.96	100000	11000	4400	2300	11000	SAL
C-6	06/18/91	275.28	23.33	0.00	251.95	---	---	---	---	---	NA
C-6	09/12/91	275.28	23.96	0.00	251.32	---	---	---	---	---	NA
C-6	01/23/92	275.28	23.08	0.00	252.20	---	---	---	---	---	NA

Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-7	03/26/85	---	9.61	---	---	---	---	---	---	---	NA
C-7	07/03/86	270.70	10.74	---	259.96	---	---	---	---	---	NA
C-7	03/26/87	270.70	10.08	---	260.62	---	---	---	---	---	NA
C-7	03/28/88	270.70	13.79	---	256.91	---	---	---	---	---	NA
C-7	03/10/89	270.70	10.42	---	260.28	---	---	---	---	---	NA
C-7	04/03/89	270.70	9.14	---	261.56	---	---	---	---	---	NA
C-7	05/08/89	270.70	11.91	---	258.79	---	---	---	---	---	NA
C-7	06/05/89	270.70	11.54	---	259.16	---	---	---	---	---	NA
C-7	07/12/90	270.70	13.45	---	257.25	---	---	---	---	---	NA
C-7	08/10/90	270.70	13.37	---	257.33	---	---	---	---	---	NA
C-7	09/13/89	270.70	14.60	---	256.10	410	1.3	ND	10	ND	NA
C-7	10/04/89	270.70	15.17	---	255.53	---	---	---	---	---	NA
C-7	11/03/89	270.70	15.28	---	255.42	---	---	---	---	---	NA
C-7	12/04/89	270.70	15.70	---	255.00	1000	1	ND	5	ND	NA
C-7	03/07/90	270.70	14.22	---	256.48	---	---	---	---	---	NA
C-7	03/09/90	270.70	14.22	---	256.48	590	2.8	2.4	3.5	2.0	SAL
C-7	06/12/90	270.70	14.18	---	256.52	1200	ND<7	5.0	8.2	3.2	SAL
C-7	09/24/90	270.70	15.44	SHEEN	255.26	400	1.4	1.9	1.4	2.2	SAL
C-7D	09/24/90	270.70	15.44	SHEEN	255.26	580	ND<0.5	2.4	1.4	1.5	SAL
C-7	12/20/90	270.70	17.08	0.00	253.62	2300	ND<0.5	6.5	4.7	9.3	SAL
C-7	03/27/91	270.70	12.65	0.00	258.05	980	ND<0.5	2.4	9.1	3.0	SAL
C-7	06/18/91	270.70	16.44	0.00	254.26	---	---	---	---	---	NA
C-7	09/12/91	270.70	17.05	0.00	253.65	1200 ***	ND<0.5	3.1	6.5	2.7	SAL
C-7	01/23/92	270.70	16.92	0.00	253.78	---	---	---	---	---	NA

Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-8	03/26/85	---	8.68	---	---	---	---	---	---	---	NA
C-8	07/03/86	288.40	13.89	---	274.51	---	---	---	---	---	NA
C-8	03/26/87	288.40	6.01	---	282.39	---	---	---	---	---	NA
C-8	03/28/88	288.40	10.66	---	277.74	---	---	---	---	---	NA
C-8	03/10/89	288.40	6.61	---	281.79	---	---	---	---	---	NA
C-8	04/03/89	288.40	6.46	---	281.94	---	---	---	---	---	NA
C-8	05/08/89	288.40	8.97	---	279.43	---	---	---	---	---	NA
C-8	06/05/89	288.40	10.88	---	277.52	---	---	---	---	---	NA
C-8	07/12/90	288.40	12.15	---	276.25	---	---	---	---	---	NA
C-8	08/10/90	288.40	12.46	---	275.94	---	---	---	---	---	NA
C-8	09/13/89	288.40	12.78	---	275.62	ND	ND	ND	ND	ND	NA
C-8	10/04/89	288.40	12.51	---	275.89	---	---	---	---	---	NA
C-8	11/03/89	288.40	14.63	---	273.77	---	---	---	---	---	NA
C-8	12/04/89	288.40	9.59	---	278.81	64	0.6	0.6	ND	1	NA
C-8	03/07/90	288.40	8.80	---	279.60	---	---	---	---	---	NA
C-8	03/09/90	288.40	8.80	---	279.60	ND	ND	ND	ND	ND	NA
C-8	06/12/90	288.40	8.94	---	279.46	120	2.5	1.2	1.0	1.4	SAL
C-8	09/24/90	288.40	13.54	0.00	274.86	---	---	---	---	---	NA
C-8	12/20/90	288.40	9.33	0.00	279.07	---	---	---	---	---	NA
C-8	03/27/91	288.40	6.10	0.00	282.30	54	0.7	ND<0.5	0.7	1.9	SAL
C-8	06/18/91	288.40	11.96	0.00	276.44	---	---	---	---	---	NA
C-8	09/12/91	288.40	13.60	0.00	274.80	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-8D	09/12/91	288.40	13.60	0.00	274.80	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-8	01/23/92	288.40	24.20	0.00	264.20	---	---	---	---	---	NA

Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-9	07/03/86	268.46	13.89	---	254.57	---	---	---	---	---	NA
C-9	03/26/87	268.46	13.74	---	254.72	---	---	---	---	---	NA
C-9	03/28/88	268.46	14.99	---	253.47	---	---	---	---	---	NA
C-9	03/10/89	268.46	13.39	---	255.07	---	---	---	---	---	NA
C-9	04/03/89	268.46	12.84	---	255.62	---	---	---	---	---	NA
C-9	05/08/89	268.46	14.38	---	254.08	---	---	---	---	---	NA
C-9	06/05/89	268.46	15.36	---	253.10	---	---	---	---	---	NA
C-9	07/12/90	268.46	15.65	---	252.81	---	---	---	---	---	NA
C-9	08/10/90	268.46	15.80	---	252.66	---	---	---	---	---	NA
C-9	09/13/89	268.46	16.53	---	251.93	42000	14000	1100	2800	4200	NA
C-9	10/04/89	268.46	16.52	---	251.94	---	---	---	---	---	NA
C-9	11/03/89	268.46	16.51	---	251.95	---	---	---	---	---	NA
C-9	12/04/89	268.46	16.79	---	251.67	36000	11000	670	2500	3800	NA
C-9	03/07/90	268.46	16.22	---	252.24	---	---	---	---	---	NA
C-9	03/09/90	268.46	16.22	---	252.24	28000	12000	940	3000	4700	NA
C-9	06/12/90	268.40	14.88	---	253.52	39000	11000	1600	2300	4800	SAL
C-9	09/24/90	268.40	16.30	0.00	252.10	120000	13000	1600	3700	6800	SAL
C-9	12/20/90	268.40	17.23	0.00	251.17	51000	9300	560	2800	3300	SAL
C-9D	12/20/90	268.40	17.23	0.00	251.17	44000	12000	580	2800	3500	SAL
C-9	03/27/91	268.40	13.78	0.00	254.62	56000	3400	5000	1600	5600	SAL
C-9	06/18/91	268.40	18.64	0.00	249.76	---	---	---	---	---	NA
C-9#	09/12/91	268.40	---	---	---	---	---	---	---	---	NA
C-9#	01/23/92	268.40	---	---	---	---	---	---	---	---	NA

Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-10A	03/07/90	264.84	20.21	---	244.63	---	---	---	---	---	NA
C-10A	03/09/90	264.84	---	---	264.84	ND<50	1.6	0.7	0.8	3.5	SAL
C-10A	06/12/90	264.84	19.70	---	245.14	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10	09/24/90	264.84	19.54	0.00	245.30	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10	12/20/90	264.84	19.84	0.00	245.00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10	03/27/91	264.84	18.01	0.00	246.83	---	---	---	---	---	NA
C-10	06/18/91	264.84	20.16	0.00	244.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10	09/12/91	264.84	20.57	0.00	244.27	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10	01/23/92	264.84	20.67	0.00	244.17	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10B	03/07/90	264.85	21.44	---	243.41	---	---	---	---	---	NA
C-10B	06/12/90	264.85	19.94	---	244.91	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10B	09/24/90	264.85	19.77	0.00	245.08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10B	12/20/90	264.85	20.00	0.00	244.85	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10B	03/27/91	264.85	18.23	0.00	246.62	---	---	---	---	---	NA
C-10B	06/18/91	264.85	20.44	0.00	244.41	---	---	---	---	---	NA
C-10B	09/12/91	264.85	20.82	0.00	244.03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10B	01/23/92	264.85	20.92	0.00	243.93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-11	03/07/90	265.30	22.74	---	242.56	---	---	---	---	---	NA
C-11	03/09/90	265.30	---	---	265.30	ND<50	1.2	0.7	ND	1.4	SAL
C-11	06/12/90	265.30	21.98	---	243.32	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-11	09/24/90	265.30	21.88	0.00	243.42	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-11	12/20/90	265.30	23.18	0.00	242.12	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-11	03/27/91	265.30	21.52	0.00	243.78	ND<50	ND<0.5	ND<0.5	ND<0.5	1.5	SAL
C-11	06/18/91	265.30	21.90	0.00	243.40	---	---	---	---	---	NA
C-11	09/12/91	265.30	22.70	0.00	242.60	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-11	01/23/92	265.30	23.46	0.00	241.84	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 Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-12	03/07/90	269.66	14.92	---	254.74	---	---	---	---	---	NA
C-12	03/09/90	269.66	---	---	269.66	1400	230	140	33	180	SAL
C-12	06/12/90	269.66	14.79	---	254.87	720	190	71	18	73	SAL
C-12	09/24/90	269.66	15.72	0.00	253.94	ND<50	1.1	ND<0.5	ND<0.5	0.6	SAL
C-12	12/20/90	269.66	15.26	0.00	254.40	810	210	26	8.2	23	SAL
C-12	03/27/91	269.66	12.11	0.00	257.55	2900	350	220	52	210	SAL
C-12	06/18/91	269.66	16.38	0.00	253.28	---	---	---	---	---	NA
C-12	09/12/91	269.66	17.55	0.00	252.11	350	59	12	4.5	8.5	NA
C-12	01/23/92	269.66	17.11	0.00	252.55	450	110	31	7.9	22	SAL
C-13	03/07/90	284.32	11.18	---	273.14	---	---	---	---	---	NA
C-13	03/09/90	284.32	---	---	284.32	ND<50	15	3.7	1.0	6.2	SAL
C-13	06/12/90	284.32	10.70	---	273.62	ND<50	2.6	ND<0.5	ND<0.5	ND<0.5	SAL
C-13	09/24/90	284.32	11.60	0.00	272.72	ND<50	2.4	ND<0.5	ND<0.5	ND<0.5	SAL
C-13	12/20/90	284.32	10.16	0.00	274.16	ND<50	1.6	ND<0.5	ND<0.5	ND<0.5	SAL
C-13	03/27/91	284.32	7.64	0.00	276.68	---	---	---	---	---	NA
C-13	06/18/91	284.32	11.32	0.00	273.00	---	---	---	---	---	NA
C-13	09/12/91	284.32	11.84	0.00	272.48	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-13	01/23/92	284.32	10.55	0.00	273.77	---	---	---	---	---	NA
C-14	03/07/90	270.74	15.18	---	255.56	---	---	---	---	---	NA
C-14	03/09/90	270.74	---	---	270.74	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-14	06/12/90	270.74	13.42	---	257.32	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-14	09/24/90	270.74	12.84	0.00	257.90	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-14	12/20/90	270.74	16.72	0.00	254.02	ND<50	1.7	0.7	ND<0.5	0.7	SAL
C-14	03/27/91	270.74	8.00	0.00	262.74	ND<50	ND<0.5	ND<0.5	ND<0.5	1.3	SAL
C-14	06/18/91	270.74	15.21	0.00	255.53	---	---	---	---	---	NA
C-14	09/12/91	270.74	15.61	0.00	255.13	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-14	01/23/92	270.74	24.64	0.00	246.10	---	---	---	---	---	NA

Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-15	03/07/90	246.15	11.10	---	235.05	---	---	---	---	---	NA
C-15	03/09/90	246.15	---	---	246.15	410	ND<0.5	1.4	0.5	0.6	SAL
C-15	06/12/90	246.15	10.78	---	235.37	420	11	ND<0.5	ND<0.5	ND<0.5	SAL
C-15	09/24/90	246.15	10.93	0.00	235.22	430	ND<0.5	1.5	ND<0.5	ND<0.5	SAL
C-15	12/20/90	246.15	11.08	0.00	235.07	300	1.3	1.1	0.6	1.5	SAL
C-15	03/27/91	246.15	8.50	0.00	237.65	520 ***	4.6	1.1	ND<0.5	1.0	SAL
C-15	06/18/91	246.15	10.83	0.00	235.32	290	ND<0.5	1.1	ND<0.5	ND<0.5	SAL
C-15D	06/18/91	246.15	10.83	0.00	235.32	320	ND<0.5	1.3	ND<0.5	ND<0.5	SAL
C-15	09/12/91	246.15	11.05	0.00	235.10	330 ***	ND<0.5	0.9	ND<0.5	ND<0.5	SAL
C-15	01/23/92	246.15	10.80	0.00	235.35	210	ND<0.5	0.6	ND<0.5	ND<0.5	SAL
C-15D	01/23/92	246.15	10.80	0.00	235.35	190	1.2	0.8	ND<0.5	ND<0.5	SAL
C-16	03/07/90	246.69	18.50	---	228.19	---	---	---	---	---	NA
C-16	03/09/90	246.69	---	--	246.69	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-16	06/12/90	246.69	11.42	---	235.27	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-16	09/24/90	246.69	11.39	0.00	235.30	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-16	12/20/90	246.69	11.57	0.00	235.12	ND<50	ND<0.5	ND<0.5	ND<0.5	0.7	SAL
C-16	03/27/91	246.69	8.76	0.00	237.93	ND<50	ND<0.5	ND<0.5	ND<0.5	1.3	SAL
C-16D	03/27/91	246.69	8.76	0.00	237.93	ND<50	ND<0.5	ND<0.5	ND<0.5	1.2	SAL
C-16	06/18/91	246.69	11.18	0.00	235.51	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-16	09/12/91	246.69	11.95	0.00	234.74	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-16	01/23/92	246.69	12.41	0.00	234.28	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RW	12/04/89	---	---	---	---	62000	29000	1700	1800	8800	NA
RW	03/07/90	274.52	18.50	---	256.02	---	---	---	---	---	NA
RW	06/12/90	274.52	18.49	---	256.03	31000	15000	2000	560	3100	SAL
RW	09/24/90	274.52	---	0.00	---	---	---	---	---	---	NA
RW	12/20/90	274.52	---	0.00	---	ND<50	0.5	ND<0.5	ND<0.5	1.2	SAL
RW	03/27/91	274.52	---	0.00	---	---	---	---	---	---	NA
RW	06/18/91	274.52	---	0.00	---	---	---	---	---	---	NA
RW#	09/12/91	274.52	---	0.00	---	---	---	---	---	---	NA
RW#	01/23/92	274.52	---	0.00	---	---	---	---	---	---	NA



Table 1  
 Summary of Results of Ground Water Sampling  
 Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
TB	09/24/90	NA	NA	NA	NA	200	1.9	14	4.4	32	SAL
TB	12/20/90	NA	NA	NA	NA	ND<50	0.5	ND<0.5	ND<0.5	1.2	SAL
TB	03/27/91	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	06/18/91	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	09/12/91	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	01/23/92	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	09/24/90	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	12/20/90	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	0.9	SAL
RINSATE	03/27/91	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	06/18/91	NA	NA	NA	NA	ND<50	ND<0.5	0.6	ND<0.5	0.9	SAL
RINSATE	09/12/91	NA	NA	NA	NA	ND<50	ND<0.5	0.6	ND<0.5	0.9	SAL
RINSATE	01/23/92	NA	NA	NA	NA	ND<50	ND<0.5	1.3	ND<0.5	ND<0.5	SAL

EXPLANATION OF ABBREVIATIONS:

TPH-G	:Total Petroleum Hydrocarbons as Gasoline (EPA method 8015 modified)	D	:Duplicate
B	:Benzene (EPA method 8020 or 8240)	SAL	:Superior Analytical Laboratory
T	:Toluene (EPA method 8020 or 8240)	*	:Not sampled due to insufficient water in well.
E	:Ethylbenzene (EPA method 8020 or 8240)	**	:Well could not be located.
X	:Xylenes (EPA method 8020 or 8240)	***	:Typical gasoline chromatographic pattern not present.
---	:Not Analyzed/Not Measured	#	:Not sampled: Well adapted for onsite remediation system.
NA	:Not Applicable/Not Available	##	:Ground water elevation corrected assuming 0.8 specific gravity for gasoline.
ND	:Not Detected		
TB	:Trip Blank		

Note: Top of casing and ground water elevations are expressed as feet above mean sea level (NGVD-1929).

Sampling Frequency:	Annual:	C-1, C-2, C-4, C-5, C-6, C-9, RW
	Semiannual:	C-7, C-8, C-13, C-14
	Quarterly:	C-3, C-10A, C-10B, C-11, C-12, C-15, C-16

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



# Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

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

LABORATORY NO.: 84864  
CLIENT: Alton Geoscience  
CLIENT JOB NO.: 31-0321

DATE RECEIVED: 01/23/92  
DATE REPORTED: 01/29/92

Page 1 of 2

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
84864- 1	TB	01/23/92	01/27/92
84864- 2	RIN	01/23/92	01/27/92
84864- 3	C-10	01/23/92	01/24/92
84864- 4	C-10B	01/23/92	01/24/92
84864- 5	C-11	01/23/92	01/24/92
84864- 6	C-16	01/23/92	01/27/92
84864- 7	C-15	01/23/92	01/27/92
84864- 8	C-15D	01/23/92	01/26/92
84864- 9	C-12	01/23/92	01/26/92

Laboratory Number:	84864	84864	84864	84864	84864
	1	2	3	4	5

ANALYTE LIST	Amounts/Quantitation Limits (ug/L)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<50	ND<50	ND<50	ND<50	ND<50
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
TOLUENE:	ND<0.5	1.3	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

Laboratory Number:	84864	84864	84864	84864
	6	7	8	9

ANALYTE LIST	Amounts/Quantitation Limits (ug/L)			
OIL AND GREASE:	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<50	210	190	450
TPH/DIESEL RANGE:	NA	NA	NA	NA
BENZENE:	ND<0.5	ND<0.5	1.2	110
TOLUENE:	ND<0.5	0.6	0.8	31
ETHYL BENZENE:	ND<0.5	ND<0.5	ND<0.5	7.9
XYLENES:	ND<0.5	ND<0.5	ND<0.5	22



# Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

## 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: 84864

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-SW846 Method 8015 for Extractable Hydrocarbons:  
Minimum Quantitation Limit for Diesel in Water: 50ug/L  
Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:  
Minimum Quantitation Limit for Gasoline in Water: 50ug/L  
Standard Reference: 10/04/91

SW-846 Method 8020/BTXE  
Minimum Quantitation Limit in Water: 0.5ug/L  
Standard Reference: 10/11/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	01/02/92	200 ng	117/123	5	70-130
Benzene	01/06/92	200 ng	110/95	15	70-130
Toluene	01/06/92	200 ng	111/94	17	70-130
Ethyl Benzene	01/06/92	200 ng	111/96	14	70-130
Total Xylenes	01/06/92	200 ng	111/97	13	70-130

Richard Srna, Ph.D.

*Delomina V. Langley* for  
Laboratory Director

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

84864

# Chain-of-Custody-Record

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

Chevron Facility Number 9-5607  
Facility Address 5269 Crow Canyon Rd.  
Consultant Project Number 31-0321  
Consultant Name Alton Geoscience  
Address 1000 Burnett Ave., Concord  
Project Contact (Name) Fred Peavey John DeG...  
(510) Phone 682-1582 (Fax Number) 682-892

Chevron Contact (Name) Nancy Vukelich  
(Phone) (510) 842-9581  
Laboratory Name SAL  
Laboratory Release Number 2542150  
Samples Collected by (Name) Lamy & Andy  
Collection Date 1/23/92  
Signature [Signature]

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		1	W	G	1254	HCL	Yes	X											
RIN		2			1256														
C-10		2			1257														
C-10B					1305														
C-11					1333														
C-16					1410														
C-15					1430														
C-15D					1430														
C-12					1457														

Please initial: AT  
 Samples stored in ice \_\_\_\_\_  
 Appropriate containers \_\_\_\_\_  
 Samples preserved \_\_\_\_\_  
 VDA's without hook/space \_\_\_\_\_  
 Comments: \_\_\_\_\_

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>Alton</u>	Date/Time <u>1/23/92/18:30</u>	Received By (Signature) _____	Organization _____	Date/Time _____	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. <b>5 Days</b> 10 Days 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>[Signature]</u>	Organization _____	Date/Time <u>1-23-92/18:30</u>	

COC-3.DWG/03 8/1/92