



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

91 NOV 13 PM 1:13

Marketing Department

November 11, 1991

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:

Enclosed is a report dated October 25, 1991 which describes groundwater monitoring by Chevron's consultant, Alton Geoscience (Alton), on September 12, 1991 at the site referenced above.

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. Geraghty & Miller is evaluating the effect of the additional extraction well on the local hydraulic gradient.

If you have any questions or comments, you may contact me at (510) 842-8658.

Sincerely,

Clint B. Rogers
Environmental Engineer

Enclosure

cc: Lester Feldman, San Francisco Bay RWQCB, Oakland, CA
Kevin Hinckley, 5269 Crow Canyon Road, Castro Valley, CA 94546
Paul Hehn, Geraghty and Miller, Richmond, CA



October 25, 1991

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

310-321

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 September 12, 1991, 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 thickness 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
October 25, 1991
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SAMPLING AND ANALYTICAL RESULTS

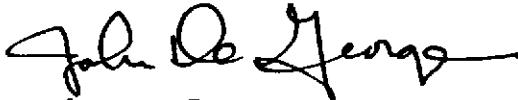
The results of the monitoring and laboratory analyses of the ground water samples for this quarter, as well as the results of previous quarterly monitoring and sampling events, are summarized in Table 1. Based on the previous wellhead elevation survey data and depth to water measurements collected during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

Liquid-phase hydrocarbons were observed in monitoring well C-3 at an approximate thickness of 0.03 feet. The official laboratory reports and chain of custody records are included in Appendix A.

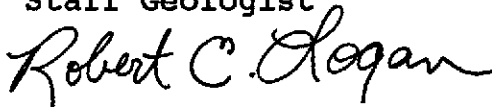
Please call John De George at (510) 682-1582 if you have any questions concerning this report.

Sincerely,

ALTON GEOSCIENCE,



John De George
Staff Geologist



Robert E. Logan R. G. 5088
Manager, Concord Operations

wp95607jd

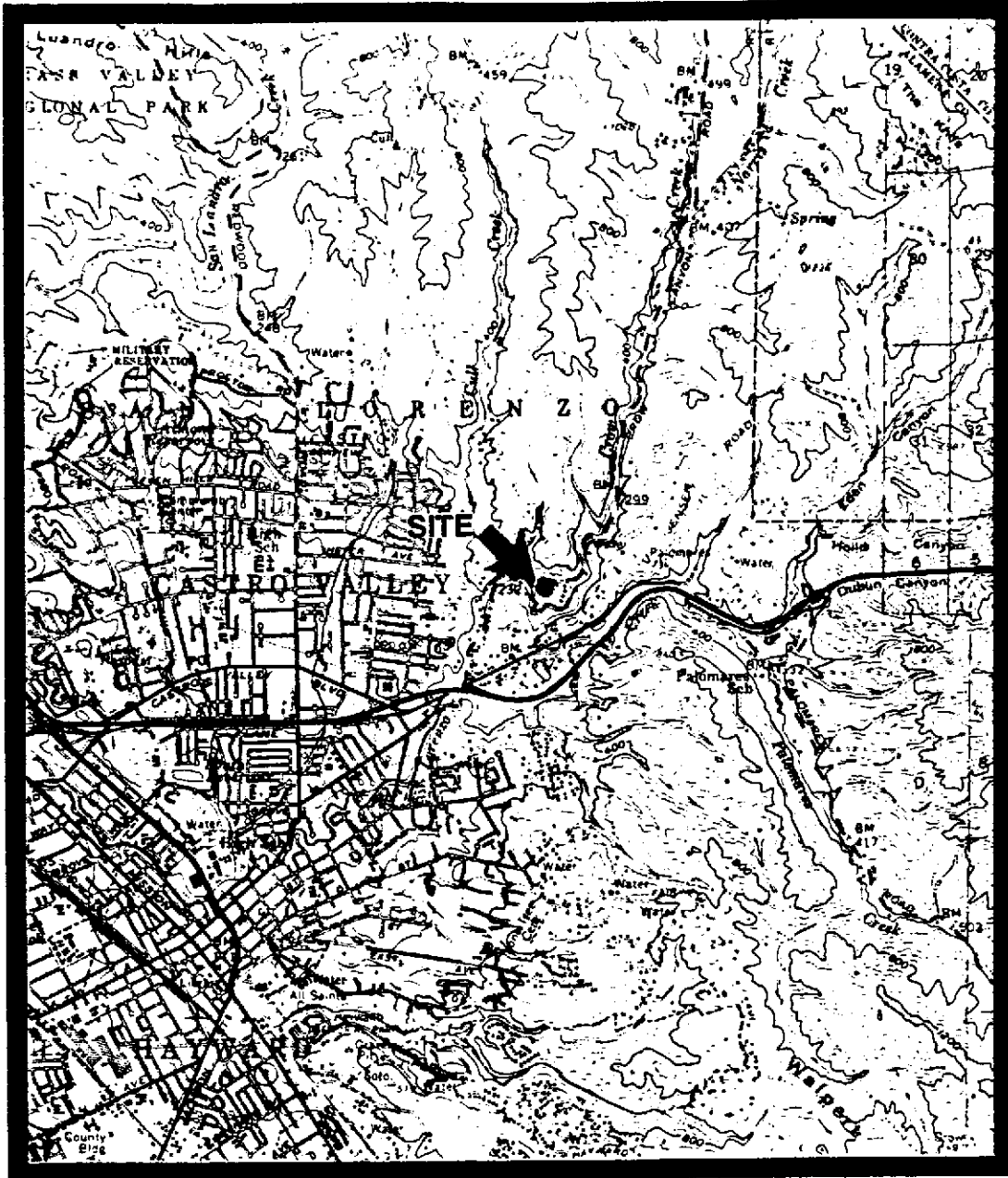


FIGURE 1. SITE VICINITY MAP

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



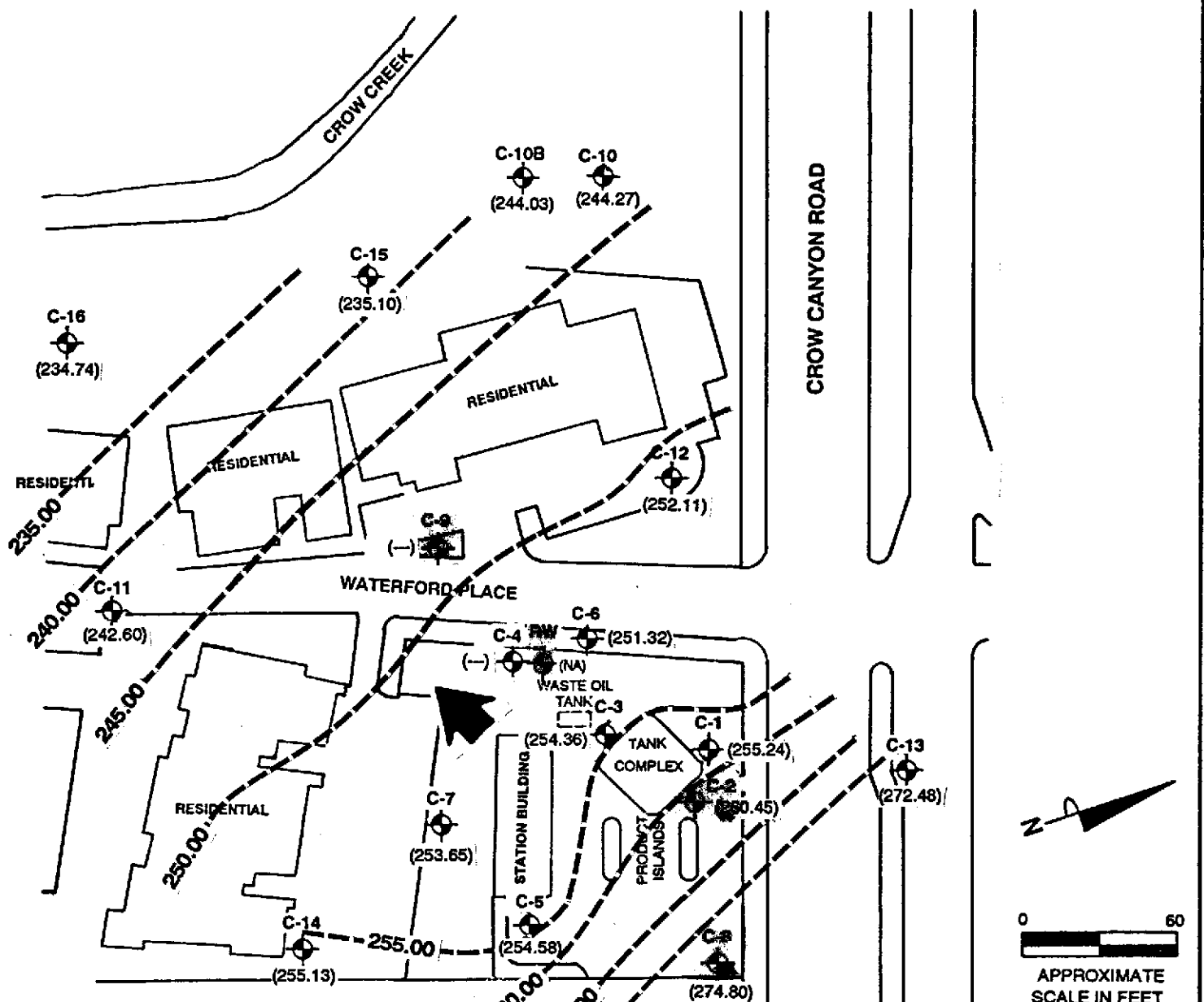
SCALE IN MILES

PROJECT NO. 310-321

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



ALTON GEOSCIENCE
 1000 Burnett Ave., Ste. 140
 Concord, CA 94520



LEGEND:

- GROUND WATER MONITORING WELL
- (242.60) GROUND WATER ELEVATION
(FEET ABOVE MEAN SEA LEVEL [NGVD-1929])
- (-) WELL ELEVATION DATA NOT AVAILABLE
- GROUND WATER ELEVATION CONTOUR
- GENERAL GROUND WATER GRADIENT

NOTE:
 1. CONTOUR LINES ARE INTERPRETIVE BASED ON FLUID LEVELS IN MONITORING WELLS MEASURED ON 9/12/91.

FIGURE 2. GROUND WATER ELEVATION CONTOUR MAP

Chevron Service Station No. 9-5607
 5269 Crow Canyon Road
 Castro Valley, California

ALTON GEOSCIENCE
 1000 Burnett Ave. Ste. 140
 Concord, 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

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

Table 1
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 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	520000	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

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 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

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

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 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

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

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

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

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-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-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-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

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-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-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-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-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

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

SEP 25 1991

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

LABORATORY NO.: 83921
CLIENT: Alton Geoscience
CLIENT JOB NO.: 310-321

DATE RECEIVED: 09/13/91
DATE REPORTED: 09/23/91

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Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
83921- 1	TB	09/12/91	09/18/91
83921- 2	RIN	09/12/91	09/20/91
83921- 3	C10	09/12/91	09/18/91
83921- 4	C10B	09/12/91	09/18/91
83921- 5	C11	09/12/91	09/18/91
83921- 6	C13	09/12/91	09/18/91
83921- 7	C14	09/12/91	09/18/91
83921- 8	C16	09/12/91	09/18/91
83921- 9	C15	09/12/91	09/18/91
83921-10	C12	09/12/91	09/18/91

Laboratory Number:	83921	83921	83921	83921	83921
	1	2	3	4	5

ANALYTE LIST	Amounts/Quantitation Limits (ug/L)				
	83921	83921	83921	83921	83921
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	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

Laboratory Number:	83921	83921	83921	83921	83921
	6	7	8	9	10

ANALYTE LIST	Amounts/Quantitation Limits (ug/L)				
	83921	83921	83921	83921	83921
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND <50	ND <50	ND <50	*330	350
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND <0.5	ND <0.5	ND <0.5	ND <0.5	59
TOLUENE:	ND <0.5	ND <0.5	ND <0.5	0.9	12
ETHYL BENZENE:	ND <0.5	ND <0.5	ND <0.5	ND <0.5	4.5
XYLENES:	ND <0.5	ND <0.5	ND <0.5	ND <0.5	8.5

Certified Laboratories



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.: 83921
CLIENT: Alton Geoscience
CLIENT JOB NO.: 310-321

DATE RECEIVED: 09/13/91
DATE REPORTED: 09/23/91

Page 2 of 3

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
83921-11	C8	09/12/91	09/18/91
83921-12	C7	09/12/91	09/19/91
83921-13	C8D	09/12/91	09/18/91

Laboratory Number:	83921 11	83921 12	83921 13
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ANALYTE LIST	Amounts/Quantitation Limits (ug/L)		
OIL AND GREASE:	NA	NA	NA
TPH/GASOLINE RANGE:	ND <50	*1200	ND <50
TPH/DIESEL RANGE:	NA	NA	NA
BENZENE:	ND <0.5	ND <0.5	ND <0.5
TOLUENE:	ND <0.5	3.1	ND <0.5
ETHYL BENZENE:	ND <0.5	6.5	ND <0.5
XYLENES:	ND <0.5	2.7	ND <0.5



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

A N A L Y S I S F O R T O T A L P E T R O L E U M H Y D R O C A R B O N S

Page 3 of 3
QA/QC INFORMATION
SET: 83921

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
* = Gasoline range concentration reported. A non-standard gasoline pattern was observed in the chromatogram.
ug/L = part per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 503E:
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: 06/26/91

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/L
Standard Reference: 07/08/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	06/26/91	200 ng	86/90	4	70-130
Benzene	07/08/91	200 ng	92/88	4	70-130
Toluene	07/08/91	200 ng	96/93	3	70-130
Ethyl Benzene	07/08/91	200 ng	99/101	2	70-130
Total Xylene	07/08/91	200 ng	96/98	2	70-130

Richard Srna, Ph.D.

Richard Srna
Laboratory Director

