

APRIL, 1999
GROUND WATER SAMPLING REPORT
FOR
STID 553 - GRIMIT AUTO AND REPAIR
1970 SEMINARY AVENUE
OAKLAND, CALIFORNIA

May 12, 1999

Prepared by

HOEXTER CONSULTING, INC.
734 Torrey Court
Palo Alto, California 94303-4160

650-494-2505 (ph. & fax)

HOEXTER CONSULTING, INC.

734 Torrey Court
Palo Alto, California 94303

(650) 494-2505 (phone & fax)

TRANSMITTAL

TO Alameda County Health - Haz Mat DATE 5/19/99
1131 Harbor Bay Parkway # 250 VIA US Mail
Alameda CA 94502-6577 FAX NO. _____

ATTENTION [REDACTED]

PROJECT 1970 Seminary JOB NO. E-10-1C-261C
Dakota CA

DESCRIPTION May 12, 1999 Report
- Ground Water Sampling

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Geology / Engineering Geology / Environmental Studies

**HOEXTER CONSULTING, INC.
David F. Hoexter, RG/CEG/REA**

**734 Torrey Court
Palo Alto, California 94303-4160**

(650) 494-2505 (ph. & fax)

May 12, 1999

E-10-1C-261C
HCQuartEnvrRpts:Sem.1970/11(5/99)

Mr. Doyle Gruit
14366 Lark Street
San Leandro, California 94578

RE: **APRIL, 1999
GROUND WATER SAMPLING REPORT
STID 553 - GRIMIT AUTO AND REPAIR
1970 SEMINARY AVENUE
OAKLAND, CALIFORNIA**

Dear Mr. Gruit:

Enclosed is our April, 1999 ground water sampling report for the property located at 1970 Seminary Avenue, corner of Harmon, in Oakland, California. This sampling round is the seventeenth round performed by Hoexter Consulting and others at the site, dating from August, 1990. This sampling event is the second to be conducted following ASTM RBCA Tier Two evaluation of the site. The results of previous sampling events are included in the analytical results summary tables.

The results of this investigation indicate that the water samples from the nine on-site wells continue to range from relatively low to elevated levels of total petroleum hydrocarbons as gasoline (TPH-G); purgeable aromatic compounds (BTEX) and MTBE; oil (total recoverable petroleum hydrocarbons, TRPH); and halogenated volatile compounds (HVOC). The analyses indicate that all analyzed compounds remain at levels of the same order-of-magnitude as previous results, with an overall, average decline in contaminant levels since initiation of sampling, particularly in wells more distant from the source area.

Ground water levels rose appreciably from the previous December, 1998 sampling event, approaching or exceeding the previous highest recorded levels. Ground water gradient directions, which differ between the "shallow" and "deep" wells, were similar to previous sampling events.

We recommend that copies of the enclosed report be submitted to the Alameda County Health Care Services Agency. The next round of sampling is currently scheduled to be conducted during October, 1999. Please note that in the body of this report, we recommend

that consideration be made for conditional site closure, requiring biannual ground water sampling to verify that conditions improve or remain essentially unchanged.

We appreciate the opportunity to provide services to you on this project and trust this report meets your needs at this time. If you have any questions, or require additional information, please do not hesitate to call.

Very truly yours,

HOEXTER CONSULTING, INC.



David F. Hoexter, RG/CEG/REA
Principal Geologist

Copies: Addressee (2)
Alameda County Health Care Services Agency (1)
Attention: Eva Chu, Hazardous Materials Specialist

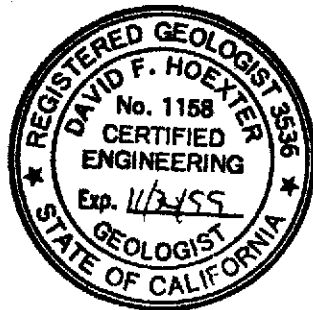
APRIL, 1999
GROUND WATER SAMPLING REPORT

For

STID 553 - Gritmit Auto and Repair
1970 Seminary Avenue
Oakland, California

To

Mr. Doyle Gritmit
14366 Lark Street
San Leandro, California 94578



May 12, 1999

David F. Hoexter

David F. Hoexter, RG/CEG/REA
Principal Geologist

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APRIL, 1999
GROUND WATER SAMPLING REPORT
FOR
STID 553 - GRIMIT AUTO AND REPAIR
1970 SEMINARY
OAKLAND, CALIFORNIA

1.0 INTRODUCTION

This report presents the results of the April, 1999 ground water sampling at 1970 Seminary Avenue, Oakland, California. The project location is shown on the Location Map, Figure 1. The scope of services provided during this investigation consisted primarily of collecting and analyzing ground water samples from nine on-site monitoring wells. Ground water samples were analyzed for petroleum hydrocarbons and halogenated volatile organic compounds. Well locations are shown on Figure 2, Site Plan.

2.0 FIELD INVESTIGATION

The ground water monitoring wells were sampled April 24, 1999 by representatives of Hoexter Consulting, Inc. Due to past, very slow equilibration of ground water levels, the well caps were loosened on April 22, 1999, two days prior to the planned purging and sampling. The wells were then secured with the caps sufficiently loose to allow venting, and left to equilibrate over the following approximately 48 hours. Following water level measurements on the morning of April 24, 1999, the wells were purged and sampled.

As noted, the well caps were loosened two days prior to the water level measurement, to allow the water level in the wells to equilibrate. Following ground water level measurement (Table 1) at the time of purging, each well was checked for free-product with the bailer, and then four well-casing volumes of water were purged from the well (due to rapid draw-down of the water level, three well volumes were removed from well MW-9). A dedicated polyethylene bailer was employed for each well. Ground water parameters, including temperature, pH and specific conductivity, were measured prior to and following each purge volume removal.

The samples were collected using the bailer, placed in appropriate sample containers supplied by the analytical laboratory, labeled, and placed in refrigerated storage for transport to the laboratory under chain-of-custody control. All sampling equipment was thoroughly cleaned with "Alconox" detergent and rinsed with distilled water prior to sampling the well. Monitoring well sampling logs and the chain of custody are attached to this report as a part of Appendix A.

Prior to purging, and following a period of two days for the wells to stabilize, ground water levels were measured in each well using the top of 2-inch PVC casing (north side) as reference point. The ground water elevation increased notably in the five "deeper" wells, and increased to a lesser extent in the four "shallow" wells, compared to the prior (December, 1998) sampling event. The five "deeper" wells averaged an elevation increase of 2.78 feet, with all five wells increasing; the four "shallow" wells increased an average of 0.50 feet, with two wells increasing and two wells decreasing in elevation.

Well-top elevations, depth to water, and calculated water-surface elevations are presented in Table 1. These data have been used to generate the Ground Water Contour and Gradient Direction Maps, Figures 3A ("shallow wells") and 3B ("deep wells").

The ground water gradient direction and inclination are essentially consistent with the previous data. The data for the four "shallow" wells indicate a gradient direction towards Seminary Avenue. The apparent gradient varies across the site, but averages 0.17 foot per foot in the source area. The approximate gradient direction is North 59° West. The data for the five "deeper" wells indicate a gradient direction away from Seminary towards the southeast. The apparent gradient varies across the site, but averages 0.07 foot per foot. The approximate gradient direction is South 44° East.

The data appear to indicate a downward gradient from a relatively shallow (perched ?) zone represented by the four "shallow" wells, to the deeper zone represented by the five "deeper" wells, particularly in the source area. Based on the slow equilibration and recovery time following purging, we infer a relatively slow ground water flow rate, despite the unusually steep gradient.

3.0 ANALYTICAL RESULTS

3.1 Laboratory Procedures

The ground water samples were analyzed by McCampbell Analytical, Inc. of Pacheco, California. McCampbell Analytical is certified by the State of California EPA/DTSC for the conducted analyses. The samples were analyzed as follows:

- Total petroleum hydrocarbons as gasoline (TPH-G) using EPA Method 5030/8015.
- Purgeable aromatic compounds (BTEX) and MTBE using EPA Method 8020.
- Oil and grease (total recoverable petroleum, TRPH) using SM 5520B/F, gravimetric with cleanup.
- Halogenated volatile organic compounds (HVOC) by EPA Method 8010.

3.2 Observations and Analytical Results

Free product was not observed in the initial sounding of the wells, although a sheen (floating film) of oil was observed in well MW-1, and shortly after purging began, in well MW-4. The purge water from well MW-1 contained globules of "oil", which were observed in earlier sampling rounds.

The results of the chemical analyses are presented on Tables 2, 3 and 4, and are attached to this report as a part of Appendix A. Analytical results of all previous testing are also included. The current analytical results indicate that TRPH, TPH-G, and BTEX compounds, as well as HVOCs, are present at elevated levels which are generally on the same order of magnitude as the most recent, previous analyses.

Two MW-1 samples for analysis of TPH-G and related compounds were obtained. TPH-G was present in the initial sample at 33,000 ug/l (equivalent to parts per billion, ppb). This represents a decrease from previous sampling events, although a similar order of magnitude. MTBE was not detected at an elevated detection limit of 200 ppb; the BTEX compounds in MW-1 were of similar order of magnitude to previous sampling events. Oil and grease were detected at 140,000 ppb, similar to most of the sampling events. The subsequent bailer

extraction exhibited a sheen of product. A second TPH-G/MTBE/BTEX sample was obtained; the sample results were similar, with the exception of MTBE, detected at a concentration of 1,100 ppb

TPH-G, MTBE and BTEX levels variably rose and declined in the other eight wells. Detected levels in wells MW-2 through 9, as during previous sampling events, are generally one to two orders of magnitude less than in MW-1. Oil/grease were detected only in wells MW-1 and MW-4. Various HVOCs were detected in each well. See Table 3 for the presence and concentrations of particular HVOCs.

4.0 CONCLUSIONS AND RECOMMENDATIONS

ASTM Tier Two evaluation of the site, as discussed in the Hoexter Consulting September 3, 1998 addendum letter, resulted in the conclusion that contaminant levels at the site are less than the respective Tier Two SSTLs. Ground water gradient conditions, although variable, are essentially the same as previous sampling events. Overall, the site exhibits a variable but overall decline in contaminant levels, particularly in the wells more distant from the source area. We therefore recommend that regulatory agencies consider granting conditional site closure, requiring biannual ground water sampling to verify that conditions improve or remain essentially unchanged.

5.0 LIMITATIONS

This report has been prepared according to generally accepted geologic and environmental practices. No other warranty, either expressed or implied as to the methods, results, conclusions or professional advice provided is made. It should be recognized that certain limitations are inherent in the evaluation of subsurface conditions, and that certain conditions may not be detected during an investigation of this type. If you wish to reduce the level of uncertainty associated with this study, we should be contacted for additional consultation.

The analysis, conclusions and recommendations contained in this report are based on site conditions as they existed at the time of our investigation; review of previous reports relevant to the site conditions; and laboratory results from an outside analytical laboratory. Changes in the information or data gained from any of these sources could result in changes in our conclusions or recommendations. If such changes do occur, we should be advised so that we can review our report in light of those changes.

TABLE 1
GROUND WATER ELEVATION DATA
 (All Measurements in Feet)

Well Number and Date of Measurement	Reference Elevation (2)	Depth to Water	Relative Ground Water Elevation (2)	
MW-1 ("deep")				
8/6/90	37.0	21.5	15.5	
1/28/92		21.0	16.0	
4/27/92		20.95	16.05	
8/10/92		22.20	14.8	
2/11/94		15.93 (3)	21.07 (3)	
2/28/94		13.85 (4)	23.15 (4)	
9/9/94		20.19	16.81	
12/28/94		14.91	22.09	
4/13/95		14.18	22.82	
11/1/95		20.90	16.10	
3/8/96	36.97	11.82	25.18	
3/25-26/96		13.54	23.43	
10/7/96		21.41	15.59	
1/15/97		13.34	23.63	
6/23/97		36.99	19.91	17.08
10/6/97			21.55	15.44
12/12/98			16.24	20.75
4/24/99			14.21	22.78
MW-2 ("deep")				
2/11/94		36.40	14.16 (3)	22.24 (3)
2/28/94	16.01 (4)		20.39 (4)	
9/9/94	18.96		17.44	
12/28/94	21.42		14.98	
4/13/95	19.69		16.71	
11/1/95	21.91		14.49	
3/8/96	14.56 (6)		21.84 (6)	
3/25-26/96	36.39		10.84	25.55
10/7/96			18.41	17.98
1/15/97			10.07	26.32
6/23/97		36.40	13.73	22.67
10/6/97	17.03		19.37	
12/12/98	11.39		25.01	
4/24/99	10.45		25.95	
MW-3 ("shallow")				
2/11/94	36.94	6.97 (3)	29.97 (3)	
2/28/94		7.74 (4)	29.20 (4)	
9/9/94		9.68	27.26	
12/28/94		8.15	28.79	
4/13/95		8.05	28.89	
11/1/95		7.82	29.12	
3/8/96		5.69	31.25	
3/25-26/96		36.94	6.91	30.03

Table continued following page

Table 1 continued

Well Number and Date of Measurement	Reference Elevation (2)	Depth to Water	Relative Ground Water Elevation (2)
MW-3 (cont')			
6/23/97	36.94	9.65	27.29
10/6/97		10.53	26.41
12/12/98		7.12	29.82
4/24/99		7.17	29.77
MW-4 ("deep")			
3/25-26/96	36.46	14.14	22.32
10/7/96		22.31	14.15
1/15/97		13.78	22.68
6/23/97	36.47	20.90	15.57
10/6/97		22.77	13.60
12/12/98		17.16	19.31
4/24/99		14.55	21.92
MW-5 ("deep")			
3/25-26/96	36.77	15.63	21.14
10/7/96		22.86	13.91
1/15/97		17.33	19.44
6/23/97	36.77	21.91	14.86
10/6/97		24.26	12.51
12/12/98		20.66	16.11
4/24/99		17.19	19.58
MW-6 ("shallow")			
3/25-26/96	36.42	8.52	27.90
10/7/96		12.82	23.60
1/15/97		7.72	28.70
6/23/97	36.42	11.42	25.00
10/6/97		12.67	23.75
12/12/98		9.15	27.27
4/24/99		8.56	27.86
MW-7 ("deep")			
6/23/97	36.83	19.93	16.90
10/6/97		21.43	15.40
12/12/98		16.56	20.27
4/24/99		14.48	22.35
MW-8 ("shallow")			
6/23/97	36.55	5.74	30.81
10/6/97		5.69	30.86
12/12/98		4.01	32.54
4/24/99		4.40	32.15
MW-9 ("shallow")			
6/23/97	36.70	17.04	19.66
10/6/97		19.17	20.53
12/12/98		14.18	22.52
4/24/99		12.33	24.37

Notes to Table 1

- (1) N/A = not applicable.
- (2) Elevations from a survey conducted by Andreas Deak, California Licensed Land Surveyor, March 21, 1996, City of Oakland datum.
- (3) Well under pressure when locking cap removed; water level may not have been stabilized.
- (4) Depth to water was measured over a 120 minute period; indicated depths appear to be stabilized readings.
- (5) Surveyed elevations of wells MW 1 and MW-2 varied to 0.02 foot on March 21, 1996 survey as compared to February 11, 1994 survey; previously calculated measurements of elevation have not been modified to reflect the new survey data. Similar slight survey differences on June 20, 1997 have not been corrected.
- (6) Well not stabilized (water level rising).

TABLE 2
GROUND WATER
SUMMARY OF ANALYTICAL TEST RESULTS -
PETROLEUM HYDROCARBONS
(Results reported in parts per billion, ppb/ug/l) (1)

Well and Date	TPH Gasoline	MTBE	Benzene	Toluene	Ethyl-Benzene	Xylenes	Oil & Grease HVOC (7)
MW-1 ("deep")							
8/6/90 (2)	54,000	NA	3,500	3,200	1,900	9,400	7,600
1/28/92	2,000,000	NA	7,400	17,000	28,000	120,000	7,500 (5)
4/27/92 (3)	500,000	NA	3,400	6,400	10,000	45,000	440,000 (6)
4/27/92 (4)	175,000	NA	4,200	4,400	3,200	14,600	N/A
8/10/92	170,000	NA	4,200	4,200	3,300	15,900	120,000 (6)
2/11/94	1,800,000	NA	ND	5,100	5,200	23,900	16,000 (6)
9/9/94	23,000,000	NA	56,000	61,000	9,100	137,000	880,000 (6)
12/28/94	55,000	NA	3,700	5,300	1,400	5,800	83,000 (6)
4/13/95	45,000	NA	2,800	3,400	1,200	5,100	50,000 (5)
11/1/95	44,000	NA	2,600	3,400	1,400	5,900	52,000 (5)
3/25/96	45,000	NA	3,000	4,100	1,600	6,800	46,000 (5) (7)
10/8/96	55,000	490	3,300	4,500	1,700	7,100	11,000 (5) (7)
1/16/97	48,000	310	2,600	3,200	1,300	5,300	110,000 (5) (7)
6/23/97	40,000	ND<100	2,300	3,500	1,500	6,300	190,000 (5) (7)
10/7/97	45,000	ND<680	2,500	3,600	1,700	6,800	150,000 (5) (7)
12/12/98	39,000	ND<1,500	3,000	100	1,400	5,800	67,000 (5) (7)
4/24/99	33,000	ND<200	2,300	3,300	1,100	4,100	140,000 (5) (7)
4/24/99 (8)	41,000	1,100	2,500	3,700	1,500	5,700	N/A
MW-2 ("deep")							
2/11/94	130	NA	22	1.1	5.2	7.3	ND (6)
9/9/94	1,000	NA	89	ND	ND	6.9	ND (6)
12/28/94	330	NA	100	3.8	5.4	4.7	5100 (6)
4/13/95	1,300	NA	280	6.9	33	23	ND (5)
11/1/95	100	NA	9.9	ND	ND	ND	ND (5)
3/25/96	4,500	NA	470	57	220	280	ND (5) (7)
10/8/96	710	41	1.9	0.54	1.0	1.0	ND (5) (7)
1/16/97	330	12	41	2.4	1.3	9.9	ND (5) (7)
6/23/97	280	10	12	0.69	ND	13	NA (7)
10/7/97	320	ND<35	4.5	ND	ND	ND	NA (7)
12/12/98	290	ND<11	21	0.76	10	19	ND (5) (7)
4/24/99	360	21	36	1.3	9.2	19	ND<5000 (5) (7)
MW-3 ("shallow")							
2/11/94	ND	NA	ND	ND	ND	ND	ND (6)
9/9/94	710	NA	10	ND	ND	3.5	ND (6)
12/28/94	2,300	NA	7.8	ND	130	73	ND (6)
4/13/95	1,700	NA	2.9	ND	61	24	ND (5)
11/1/95	1,100	NA	4.4	ND	27	22	ND (5)
3/25/96	2,300	NA	4.0	0.96	120	65	ND (5) (7)
10/8/96	160	ND	ND	0.5	1.2	0.77	ND (5) (7)
1/16/97	1,800	7.1	2.8	0.68	48	66	ND<5000 (5) (7)

Table continued following page

Table 2 continued

Well and Date	TPH Gasoline	MTBE	Benzene	Toluene	Ethyl-Benzene	Xylenes	Oil & Grease HVOC (7)
MW-3 ("shallow") (continued)							
6/23/97	ND	ND	ND	ND	ND	ND	NA (7)
10/7/97	ND	ND	ND	ND	ND	ND	NA (7)
12/12/98	1,900	ND	1.8	0.78	78	42	ND (5) (7)
4/24/99	2100	ND	1.5	0.85	79	43	ND<5000 (5) (7)
MW-4 ("deep")							
3/26/96	9,900	NA	4,000	40	71	100	ND (5) (7)
10/8/96	7,800	140	3,900	33	31	40	ND (5) (7)
1/16/97	4,800	84	1,900	21	2.5	27	5,200 (5) (7)
6/23/97	6,200	160	2,800	20	20	23	ND (5) (7)
10/7/97	4,400	85	1,800	14	18	14	ND (5) (7)
12/12/98	3,500	110	1,500	13	39	14	ND (5) (7)
4/24/99	3,100	ND<10	1,700	22	67	21	7,500 (5) (7)
MW-5 ("deep")							
3/26/96	1,200	NA	43	8.2	83	95	ND (5) (7)
10/8/96	6,700	190	260	92	410	370	ND (5) (7)
1/16/97	3,000	90	150	68	190	180	ND (5) (7)
6/23/97	12,000	150	410	170	920	800	NA (7)
10/7/97	10,000	ND<480	310	62	530	500	NA (7)
12/12/98	11,000	ND<660	400	120	740	480	ND (5) (7)
4/24/99	9,300	ND<100	390	290	820	770	ND<5000 (5) (7)
MW-6 ("shallow")							
3/26/96	9,900	NA	1,000	150	470	720	ND (5) (7)
10/8/96	1,300	57	120	2.3	1.4	4.0	ND (5) (7)
1/15/97	6,500	220	570	65	170	630	ND (5) (7)
6/23/97	3,100	100	410	16	110	140	NA (7)
10/7/97	960	ND<74	78	3.4	1.8	5.8	NA (7)
12/12/98	2,500	ND<160	230	10	92	110	ND (5) (7)
4/24/99	2,900	ND<10	430	33	160	200	ND<5000 (5) (7)
MW-7 (deep")							
6/23/97	8,700	ND<20	950	260	520	380	ND (5) (7)
10/7/97	7,500	ND<310	1,100	86	280	150	ND (5) (7)
12/12/98	5,000	ND<190	640	43	200	55	ND (5) (7)
4/24/99	5,500	ND<10	640	180	290	210	ND<5000 (5) (7)
MW-8 ("shallow")							
6/23/97	610	5.9	25	1.4	4.3	2.4	ND (5) (7)
10/7/97	120	ND	6.9	ND	ND	ND	ND (5) (7)
12/12/98	ND	ND	ND	ND	ND	ND	ND (5) (7)
4/24/99	ND	ND	ND	ND	ND	ND	ND<5000 (5) (7)

Table continued following page

Table 2 continued

Well and Date	TPH Gasoline	MTBE	Benzene	Toluene	Ethyl-Benzene	Xylenes	Oil & Grease HVOC (7)
MW-9 ("shallow")							
6/23/97	32,000	250	340	280	1,500	4,300	ND (5) (7)
10/7/97	33,000	ND<690	880	350	1900	4,700	ND (5) (7)
12/12/98	3,400	ND<78	160	14	220	210	ND (5) (7)
4/24/99	3,100	22	130	18	220	190	ND (5) (7)
EB-4 ("grab" gw sample)							
3/8/96	15,000	NA	780	840	1,300	590	7,500 (5) (7)
MCL	NA	NA	1	150	700	1,750	NA

Notes to Table 2

- (1) ND - non-detect; N/A - not applicable
- (2) Kaldveer Associates report, September, 1990
- (3) Sequoia Analytical Laboratory
- (4) Applied Remediation Laboratory
- (5) Gravimetric Method
- (6) Infrared Method
- (7) **HVOC detected:** see Table 3
- (8) Free-phase product observed in bailer (additional sample)

TABLE 3
GROUND WATER
SUMMARY OF ANALYTICAL TEST RESULTS -
HALOGENATED VOLATILE ORGANIC COMPOUNDS (HVOC)
(Results reported in parts per billion, ppb/ug/l) (1) (2)

Well and Date	CA	1,2 DCB	1,2 DCA	cis 1,2 DCE	trans 1,2 DCE	1,2 DCP	PCE	TCE	VCL
MW-1 ("deep")									
3/25/96	ND<5	7.2	5.3	82	ND<5	ND<5	ND<5	7.8	25
10/8/96	ND<20	ND<20	ND<20	45	ND<20	ND<20	ND<20	ND<20	26
1/16/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/23/97	ND<2	10	4.1	130	3.7	ND<2	5.0	23	54
10/7/97	3.5	7.4	2.2	82	3.8	ND<2	ND<3	9.5	68
12/12/98	ND<2.5	7.4	ND<2.5	26	ND<2.5	ND<2.5	ND<2.7	ND<2.5	7.3
4/24/99 (8)	2.1	9.9	3.5	61	2.8	2.0	ND<4.2	ND<1.5	22
MW-2 ("deep")									
3/25/96	ND<0.5	ND<0.5	8.7	11	ND<0.5	1.0	ND<0.5	3.2	0.92
10/8/96	ND<0.5	ND<0.5	15	9.6	ND<0.5	1.1	ND<0.5	6.6	ND<0.5
1/16/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/23/97	ND<0.5	ND<0.5	9.7	8.0	ND<0.5	0.86	ND<0.5	9.6	ND<0.5
10/7/97	ND<0.5	ND<0.5	18	11	ND<0.5	1.2	ND<0.5	15	ND<0.5
12/12/98	ND<0.5	ND<0.5	16	9.4	ND<0.5	1.1	ND<1	7.5	ND<0.5
4/24/99	ND<0.5	ND<0.5	13	7.8	ND<0.5	0.92	ND<0.5	8.4	ND<0.5
MW-3 ("shallow")									
3/25/96	ND<0.5	ND<0.5	0.56	1.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
10/8/96	ND<0.5	ND<0.5	1.1	0.87	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
1/16/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/23/97	ND<0.5	ND<0.5	0.54	0.76	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
10/7/97	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
12/12/98	ND<0.5	ND<0.5	0.51	0.82	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<0.5
4/24/99	ND<0.5	ND<0.5	ND<0.5	0.65	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-4 ("deep")									
3/26/96	ND<8	22	ND<8	300	9.2	ND<8	38	150	44
10/8/96	ND<15	22	4.9	320	ND<15	ND<15	52	130	60
1/16/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/23/97 (5)	3.6	21	5.3	340	10	ND<3	11	110	83
10/7/97	ND<8	20	ND<8	380	9.9	ND<8	ND<12	56	56
12/12/98 (7)	ND<3.5	18	ND<3.5	150	12	ND<8	ND<4.5	12	57
4/24/99	ND<8.5	20	ND<8.5	390	12	ND<8.5	33	240	43
MW-5 ("deep")									
3/26/96	1.4	ND<0.5	2.1	6.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10
10/8/96	ND<2.5	ND<2.5	4.9	4.4	ND<2.5	ND<2.5	ND<2.5	ND<2.5	9.4
1/16/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/23/97 (5)	2.0	2.1	2.0	7.2	0.71	ND<0.5	ND<0.5	ND<0.5	13
10/7/97	1.9	1.4	2.8	3.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10

Continued following page

Table 3 continued

Well and Date	CA	1,2 DCB	1,2 DCA	cis 1,2 DCE	trans 1,2 DCE	1,2 DCP	PCE	TCE	VCL
MW-5 ("deep") continued									
12/12/98	1.4	2.0	1.1	3.7	ND<1	ND<1	ND<1.5	ND<1	5.8
4/24/99	ND<1	1.9	1.9	4.8	ND<1	ND<1	ND<1	ND<1	6.3
MW-6 ("shallow")									
3/26/96	ND<0.5	ND<0.5	3.9	15	ND<0.5	1.9	0.77	2	ND<0.5
10/8/96	ND<0.5	ND<0.5	2.3	9.9	ND<0.5	ND<0.5	ND<0.5	0.57	ND<0.5
1/16/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/23/97	ND<0.5	ND<0.5	1.6	10	ND<0.5	ND<0.5	ND<0.5	0.63	0.50
10/7/97	ND<0.5	ND<0.5	3.4	7.9	ND<0.5	ND<0.5	ND<0.5	0.82	ND<0.5
12/12/98 (7)	ND<0.5	ND<0.5	1.5	8.4	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<0.5
4/24/99	ND<0.5	ND<0.5	2.3	17	ND<0.5	0.89	ND<1	0.73	0.59
MW-7 ("deep")									
6/23/97	0.93	1.6	ND<0.5	2.4	1.2	ND<0.5	9.8	17	1.5
10/7/97	ND<2	ND<2	ND<2	8.5	2.4	ND<2	38	110	ND<2
12/12/98	ND<2	2.2	ND<2	97	ND<2	ND<2	ND<3.5	ND<2	ND<2
4/24/99	ND<2	2.4	ND<2	31	ND<2	ND<2	9.3	82	ND<2
MW-8 ("shallow")									
6/23/97	ND<1	5.4	ND<1	64	ND<1	ND<1	97	100	ND<1
10/7/97	ND<0.5	1.1	ND<0.5	16	ND<0.5	ND<0.5	30	27	ND<0.5
12/12/98	ND<0.5	ND<0.5	ND<0.5	3.4	ND<0.5	ND<0.5	4.8	4.7	ND<0.5
4/24/99	ND<0.5	ND<0.5	ND<0.5	1.9	ND<0.5	ND<0.5	3.4	3.4	ND<0.5
MW-9 (shallow)									
6/23/97 (5)	ND<1	2.1	ND<1	7.4	ND<1	ND<1	3.5	1.4	ND<1
10/7/97 (6)	ND<0.5	1.6	2.1	21	ND<0.5	0.7	ND<2	0.53	2.7
12/12/98	ND<0.5	0.7	0.53	1.9	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<0.5
4/24/99	ND<0.5	0.81	0.52	3.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
EB-4 (grab)									
3/8/96	ND	ND	ND	42	ND	ND	130	340	ND
MCL	NA	600	0.5	6	10	5	7	5	0.5

Notes on following page

Notes to Table 3

(1) ND = non-detect; reporting limit 0.5 ug/l (ppb) unless otherwise stated

(2) N/A = not applicable

(3) Composite

(4) Abbreviations as follows:

CA	Chloroethane	1,2 DCP	1,2 Dichloropropane
1,2 DCB	1,2 Dichlorobenzene	PCE	Tetrachloroethene (perchloroethen
1,2 DCA	1,2 Dichloroethane	TCE	trichloroethene
cis 1,2 DCE	cis 1,2 Dichloroethene	VCL	vinyl chloride
trans 1,2 DCE	trans 1,2 Dichloroethene		

(5) 6/23/97 additional detections:

MW-4, 4.8 ppb 1,4-Dichlorobenzene

MW-5, 0.53 ppb 1,4-Dichlorobenzene

MW-9 2.1 ppb chloroform (tetrachloromethane)

(6) 10/7/97 additional detections:

MW-9, 0.65 chloroform (tetrachloromethane)

(7) 12/12/98 additional detections:

MW-4, 6.2 ppb 1,3-Dichlorobenzene

MW-4, 4.8 ppb 1,4-Dichlorobenzene

MW-6, 8.9 ppb 1,1,1-Trichloroethane

(8) 4/24/99 additional detections:

MW-1, 1.6 ppb chloroform

MW-1, 2.5 1,4-Dichlorobenzene

TABLE 4
GROUND WATER
SUMMARY OF ANALYTICAL TEST RESULTS -
POLYNUCLEAR AROMATIC HYDROCARBONS (PNA, PAH)
 (Results reported in parts per billion, ppb/ug/l) (1) (2) (3)

Well and Date	Phenanthrene	Naphthalene
MW-1 ("deep")		
6/23/97	12	2200
10/7/97	ND<100	810
12/12/98	N/A	N/A
MCL	N/A	N/A

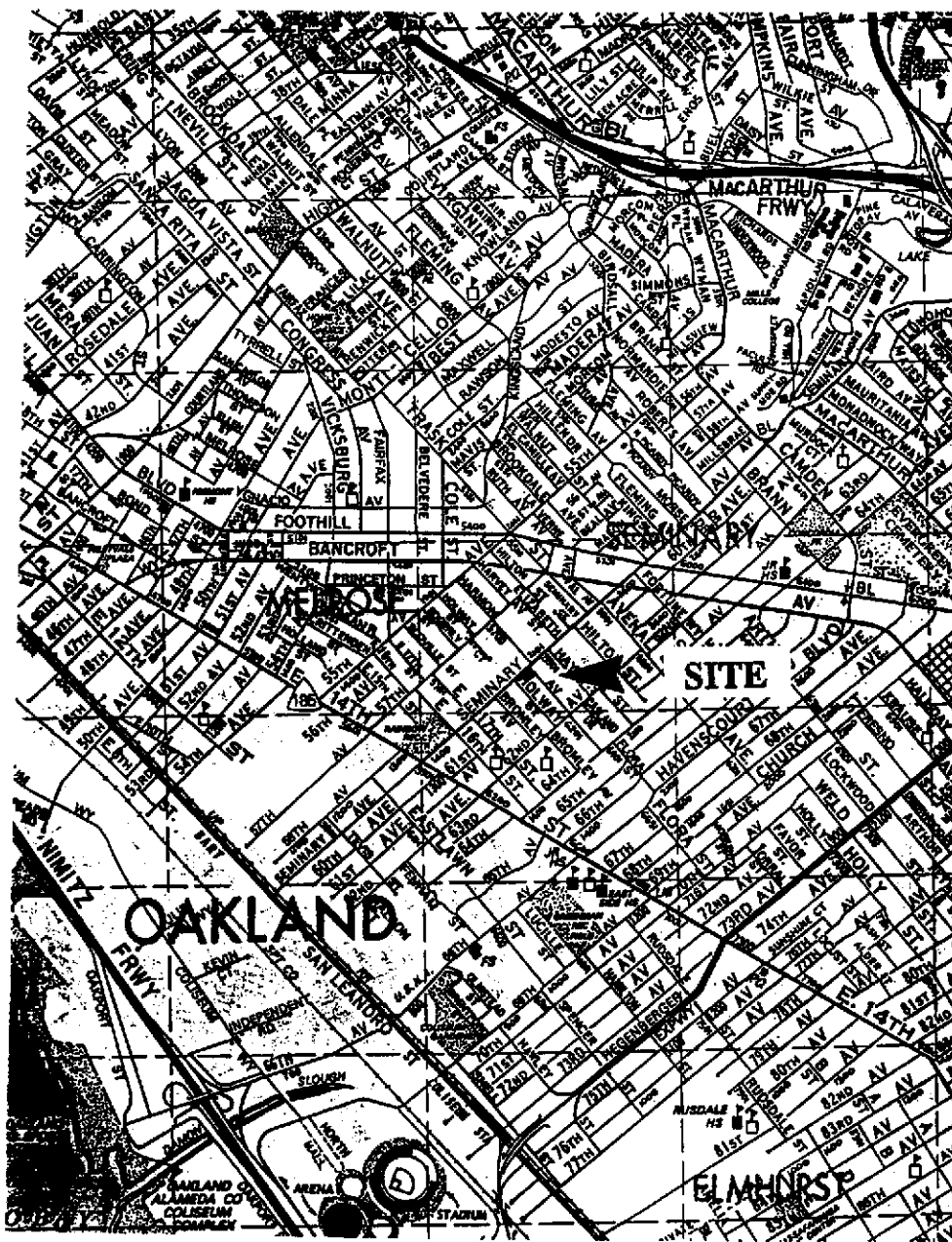
Notes to Table 4

- (1) ND = non-detect
- (2) N/A = not applicable
- (3) Detected compounds only

TABLE 5
GROUND WATER
SUMMARY OF ANALYTICAL TEST RESULTS -
ADDITIONAL CHEMICAL PARAMETERS
(Results reported in parts per million, mg/l) (1)

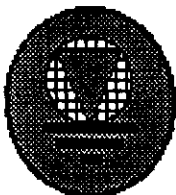
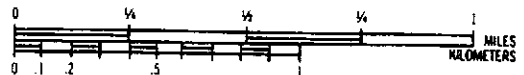
Well and Date	Dissolved Oxygen	Ferrous Iron	Nitrate	Sulfate
MW-1 ("deep")				
10/8/96	1.5	ND	ND	ND
1/16/97	1.4	3.6	ND	ND
6/23/97	N/A	N/A	N/A	N/A
10/7/97	N/A	N/A	N/A	N/A
12/12/98	N/A	N/A	N/A	N/A
MW-2 ("deep")				
10/8/96	3.7	ND	3	25
1/16/97	5.4	0.28	3	25
6/23/97	N/A	N/A	N/A	N/A
10/7/97	N/A	N/A	N/A	N/A
12/12/98	N/A	N/A	N/A	N/A
MW-3 ("shallow")				
10/8/96	3.8	ND	ND	5
1/16/97	5.2	ND	ND	5
6/23/97	N/A	N/A	N/A	N/A
10/7/97	N/A	N/A	N/A	N/A
12/12/98	N/A	N/A	N/A	N/A
MW-4 ("deep")				
10/8/96	3.0	ND	ND	ND
1/16/97	4.7	0.75	ND	5
6/23/97	N/A	N/A	N/A	N/A
10/7/97	N/A	N/A	N/A	N/A
12/12/98	N/A	N/A	N/A	N/A
MW-5 ("deep")				
10/8/96	2.8	ND	ND	8
1/16/97	3.4	0.38	ND	9
6/23/97	N/A	N/A	N/A	N/A
10/7/97	N/A	N/A	N/A	N/A
12/12/98	N/A	N/A	N/A	N/A
MW-6 ("shallow")				
10/8/96	2.7	ND	ND	6
1/16/97	2.7	0.28	ND	8
6/23/97	N/A	N/A	N/A	N/A
10/7/97	N/A	N/A	N/A	N/A
12/12/98	N/A	N/A	N/A	N/A

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ALAMEDA COUNTY

1991 *Thomas Guide*.

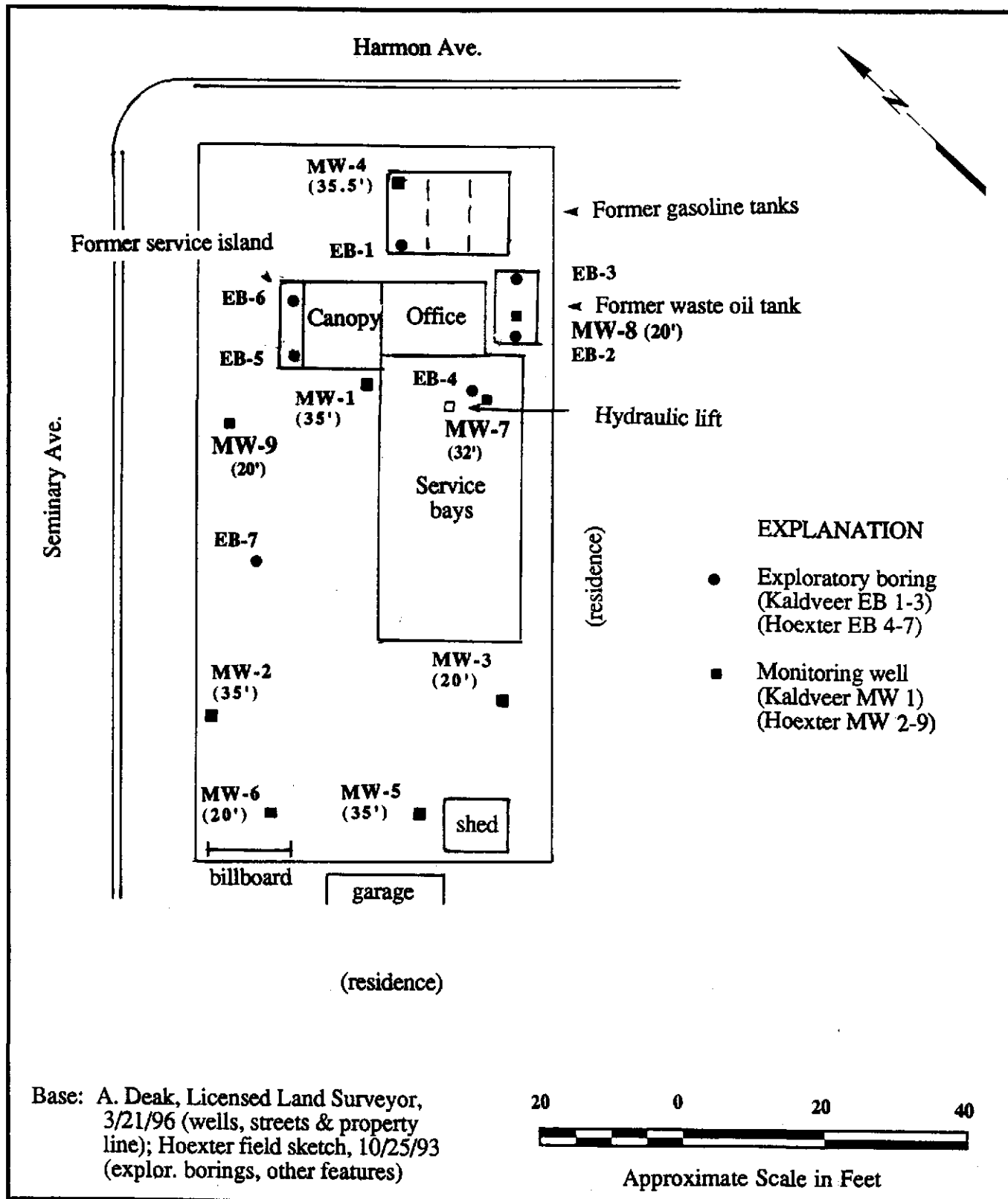


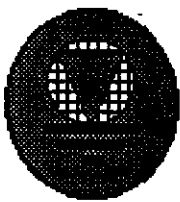
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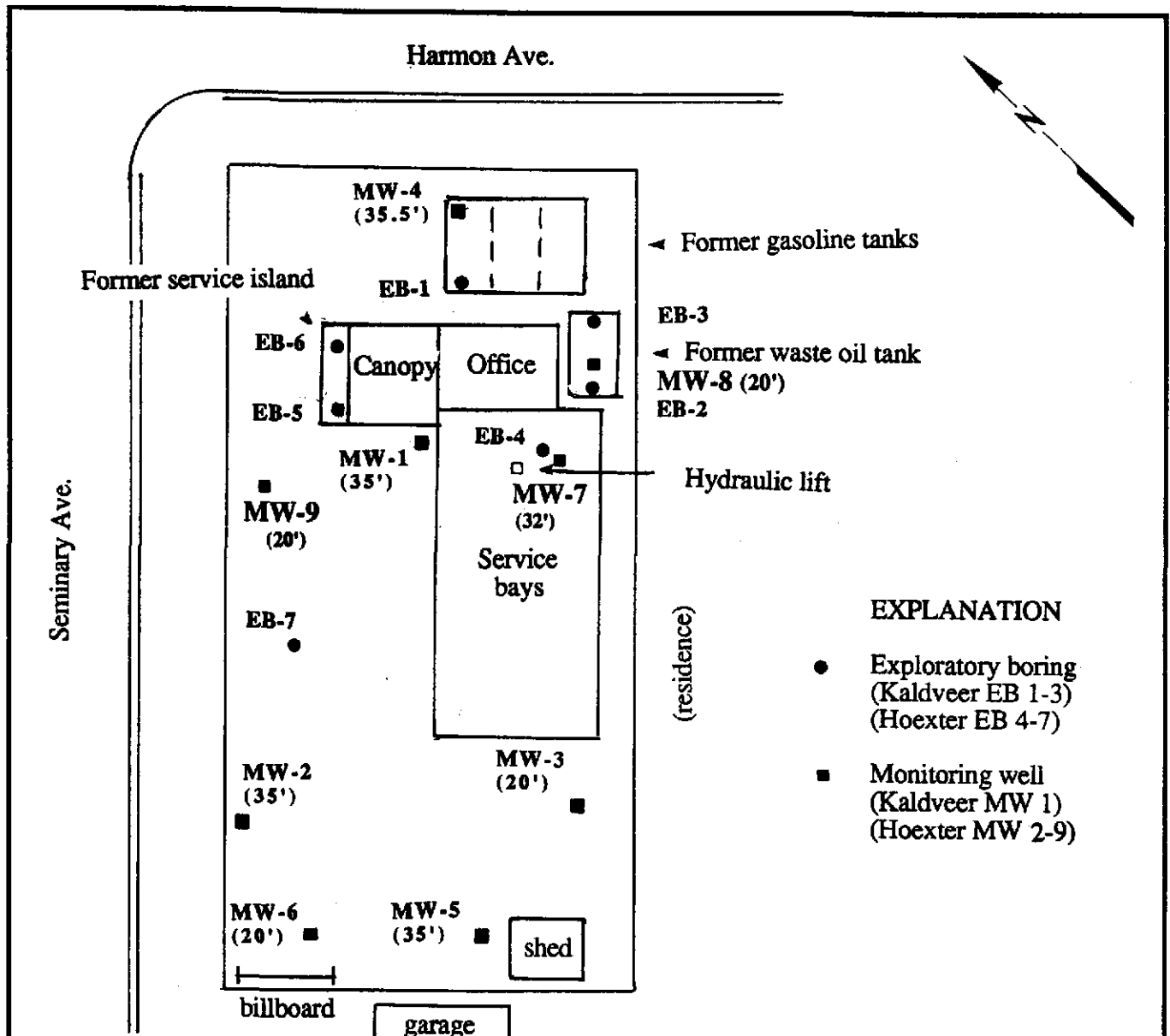
LOCATION MAP

1970 Seminary Ave.
 Oakland, California

Project No.	Date	Figure 1
E-10-1C-261C	May, 1999	



 <p>HOEXTER CONSULTING Geology Engineering Geology Environmental Studies</p>	SITE PLAN		
	1970 Seminary Ave. Oakland, California		
	Project No.	Date	Figure 2
	E-10-1C-261C	May, 1999	

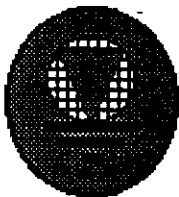


- EXPLANATION**
- Exploratory boring (Kaldveer EB 1-3) (Hoexter EB 4-7)
 - Monitoring well (Kaldveer MW 1) (Hoexter MW 2-9)

Base: A. Deak, Licensed Land Surveyor, 3/21/96 (wells, streets & property line); Hoexter field sketch, 10/25/93 (explor. borings, other features)



Approximate Scale in Feet

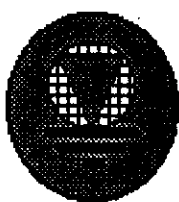
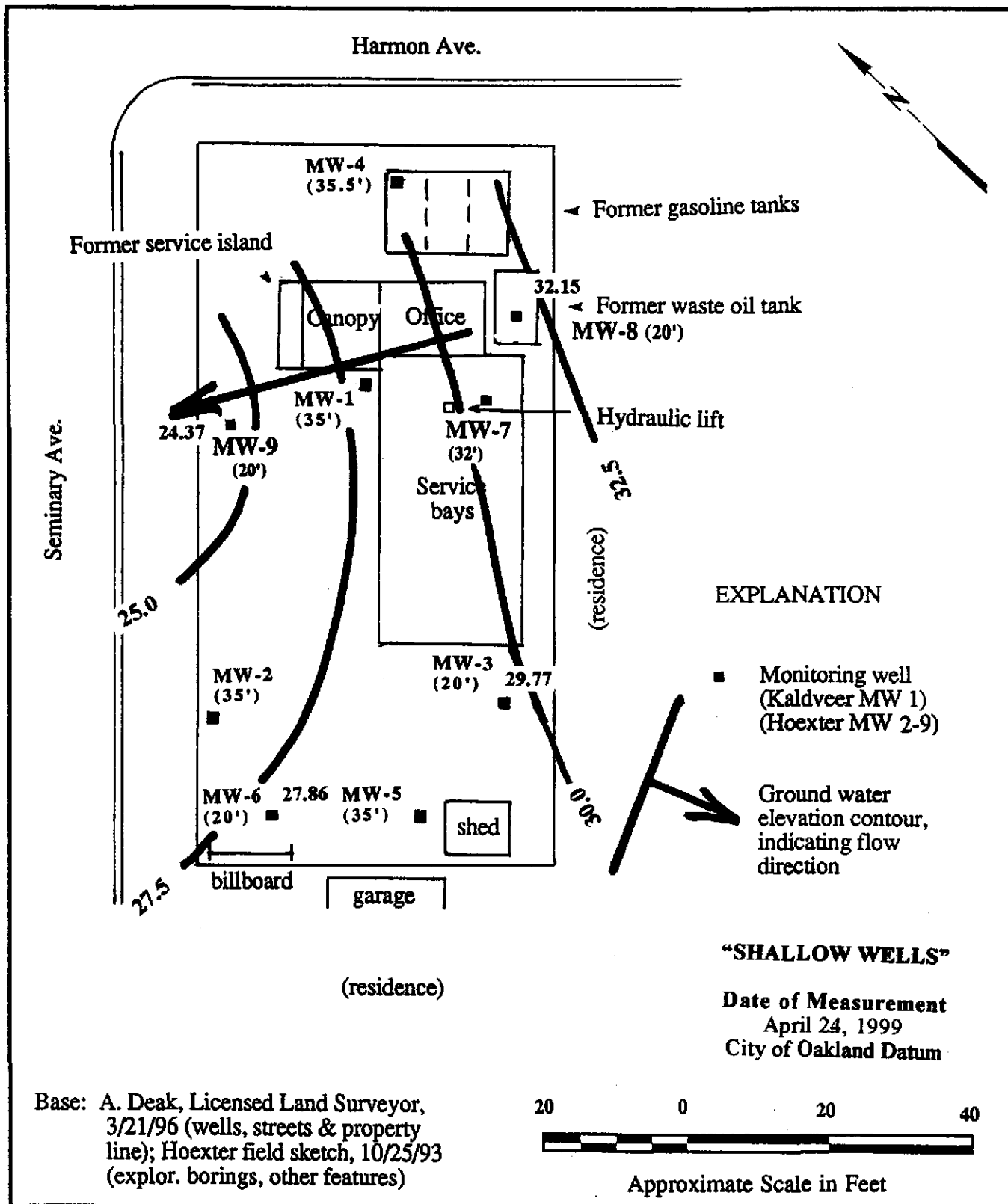


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SITE PLAN

1970 Seminary Ave.
 Oakland, California

Project No.	Date	Figure 2
E-10-1C-261C	May, 1999	

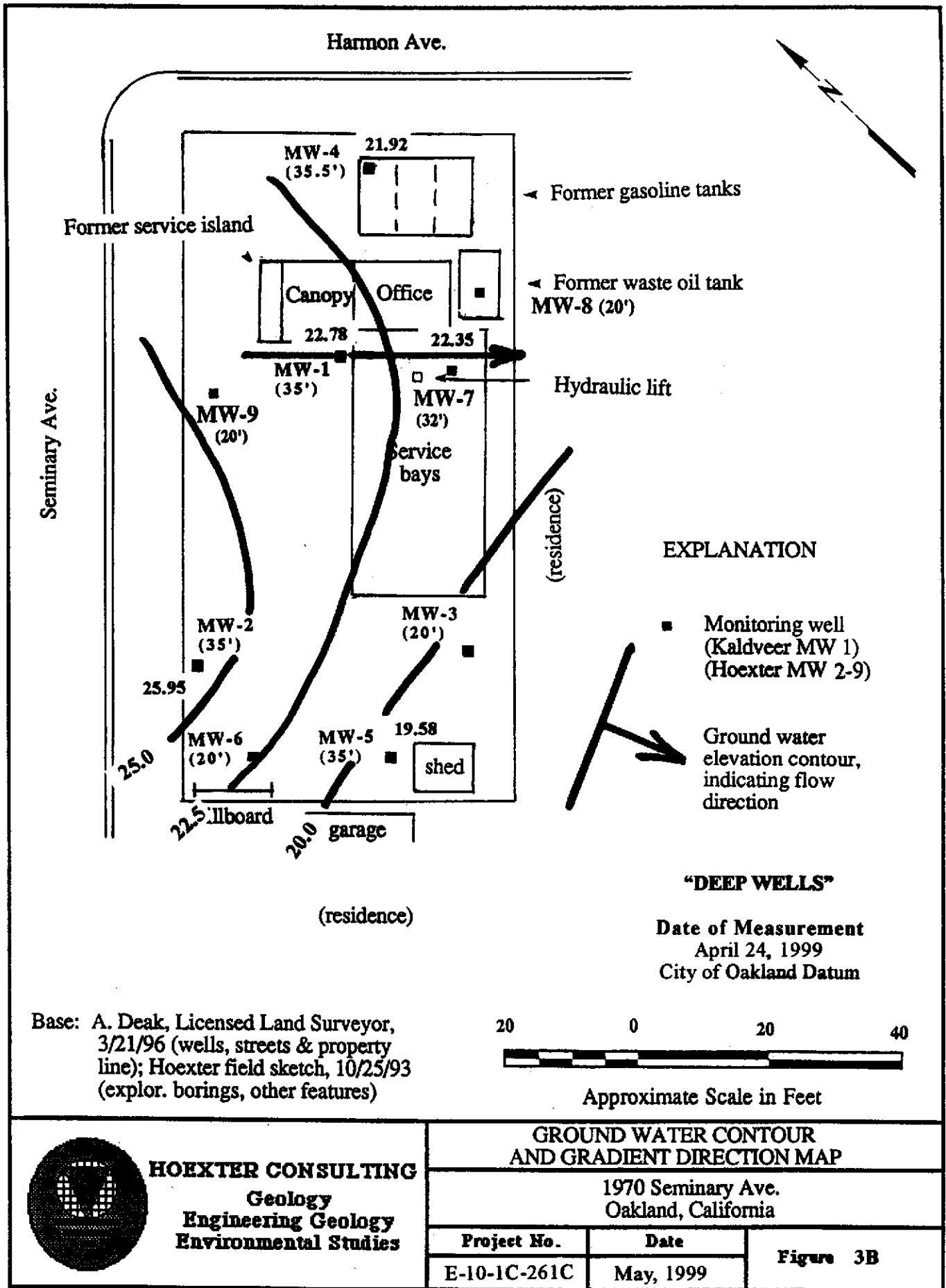


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**GROUND WATER CONTOUR
 AND GRADIENT DIRECTION MAP**

1970 Seminary Ave.
 Oakland, California

Project No.	Date	Figure 3A
E-10-1C-261C	May, 1999	



APPENDIX A

**WATER SAMPLE LOGS
CHAIN OF CUSTODY
ANALYTICAL TEST RESULTS**

HOEXTER CONSULTING

Groundwater Sampling Field Log

Project Name/No.: 1970 Seminary, Oakland
 Client: D. G. MIT
 Project Manager: D. F. Hoexter
 Sampler: Hoexter / Ferry the
 Casing Diameter: 2 inch 20 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

Lab I.D.: 09873, 09882
 Date: 4/24/99
 Sample Location/I.D.: MW-1
 Start Time: _____

Depth of Well (feet): 35
 Depth to Water (feet): 14.21
 Sample Depth (feet): _____

Calculated Purged Volume: 13.56 gal.
 Actual Purged Volume 14.0
 20.79 intr → 3.39 gal/wd.

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature (Degrees F)	Color (visual)	Other
1341	3.5	3.5	6.52	925	63.7	Green Gray	
1355	7.0	↓	6.56	921	64.7	↓	
1404	10.5		6.52	547	65.2		
1515	14.0		6.60	609	65.4		

Purge Method

2" Bladder Pump Bailer Well Wizard Dedicated
 Submersible Pump Centrifugal Pump Dipper Other
 Pneumatic Displacement Pump

Sample Method

2" Bladder Pump Bailer Well Wizard Dedicated
 Surface Sampler Dipper Fultz Pump Other

Well Integrity: OK - opened 4/22/99, raised gw 4/24/99
 Remarks: Initial purge moderate show, strong odor, oil globules.
Sampled 1630 TPH-G (no obs. oil); 1631 H2O2 (obs oil); 1632 TPH-G (obs oil); 1633 TOC
 Signature: D. F. Hoexter

Volumes Per Unit Length Selected Well Casing Diameters

Well Casing I.D. (inches)	Volume Per Unit Length			
	Gal/ft	Cubic Ft/ft	L/M	L/R
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

Conversion Factors

To Convert	Into	Multiply
Ft. of Water	Lbs/sq.in.	0.4335
Lbs/Sq. inch	Ft. of Water	2.3070
Cubic feet	Gallons	7.4800
Gallons	Liters	3.7850
Feet	Meters	0.30048
Inches	Centimeters	2.5400

MW-1

HOEXTER CONSULTING

Groundwater Sampling Field Log

Project Name/ No.: 1970 Seminary, Oakland
 Client: D. Gruit
 Project Manager: D.F. Hoexter
 Sampler: Hoexter / Forythe
 Casing Diameter: 2 inch 2 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

Lab I.D.: 09874
 Date: 4/24/99
 Sample Location/I.D.: MW-2
 Start Time: _____

Depth of Well (feet): 35
 Depth to Water (feet): 10.45
 Sample Depth (feet): _____

Calculated Purged Volume: 16.0 gal.
 Actual Purged Volume 16.0
 24.55 'ltr → 4.0 gal/rod

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees F	Color (visual)	Other
<u>1127</u>	<u>4</u>	<u>4</u>	<u>6.56</u>	<u>903</u>	<u>63.5</u>	<u>clear</u>	
<u>1150</u>	<u>8</u>	↓	<u>6.57</u>	<u>825</u>	<u>64.1</u>	↓	
<u>1202</u>	<u>12</u>	↓	<u>6.59</u>	<u>837</u>	<u>64.6</u>	↓	
<u>1213</u>	<u>16</u>	↓	<u>6.58</u>	<u>852</u>	<u>64.1</u>	↓	

Purge Method

_____ 2" Bladder Pump Bailer _____ Well Wizard Dedicated
 _____ Submersible Pump _____ Centrifugal Pump _____ Dipper _____ Other
 _____ Pneumatic Displacement Pump _____

Sample Method

_____ 2" Bladder Pump Bailer _____ Well Wizard Dedicated
 _____ Surface Sampler _____ Dipper _____ Fultz Pump _____ Other

Well Integrity: OK - opened 4/22/99; measured SW 4/24/99
 Remarks: no odor, product shown, sampled 1519 TPT-G; 1520 HVOE, 1521 TOG

Signature: D.F. Hoexter

Volumes Per Unit Length Selected Well Casing Diameters

Well Casing I.D. (inches)	Volume Per Unit Length			
	Gal/ft	Cu/ft	L/M	L/Ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

Conversion Factors

To Convert	Into	Multiply
Ft. of Water	Lbs/sq.in.	0.4335
Lbs/Sq. inch	Ft. of Water	2.3070
Cubic feet	Gallons	7.4800
Gallons	Liters	3.7850
Feet	Meters	0.30048
Inches	Centimeters	2.5400

MW-2

HOEXTER CONSULTING

Groundwater Sampling Field Log

Project Name/No.: 1970 Seminary, Oakland Lab I.D.: 09875
 Client: D-GRMIT Date: 4/24/99
 Project Manager: D.F. Hoexter Sample Location/I.D.: MW-3
 Sampler: Hoexter/Ferry Start Time: _____
 Casing Diameter: 2 inch 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

Depth of Well (feet): 20
 Depth to Water (feet): 7.17
 Sample Depth (feet): _____

Calculated Purged Volume: 8.36 gal.
 Actual Purged Volume 9
 12-83' wtr → 2.09 gal/foot

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature (Degrees F)	Color (visual)	Other
<u>1025</u>	<u>2.25</u>	<u>2.25</u>	<u>6.39</u>	<u>610</u>	<u>62.0</u>		
<u>1031</u>	<u>4.50</u>		<u>6.47</u>	<u>616</u>	<u>60.9</u>	<u>Orange</u>	
<u>1038</u>	<u>6.75</u>		<u>6.42</u>	<u>612</u>	<u>61.0</u>		
<u>1045</u>	<u>9.00</u>		<u>6.51</u>	<u>612</u>	<u>61.3</u>		

Purge Method

_____ 2" Bladder Pump Bailer _____ Well Wizard Dedicated
 _____ Submersible Pump _____ Centrifugal Pump _____ Dipper _____ Other
 _____ Pneumatic Displacement Pump _____

Sample Method

_____ 2" Bladder Pump Bailer _____ Well Wizard Dedicated
 _____ Surface Sampler _____ Dipper _____ Fultz Pump _____ Other

Well Integrity: OK - opened 4/22/99; measured SW 4/24/99
 Remarks: No odor, product shown. Sampled 1437 TPH-G; 1438 - S.O.D. H₂O₂; 1439 TOG. (small vol. algal (?) growth - orange globules, sink to bottom of pail) -

Signature: D.F. Hoexter

- orange globules, sink to bottom of pail -
 Conversion Factors

Volumes Per Unit Length Selected Well Casing Diameters

Well Casing I.D. (inches)	Volume Per Unit Length		L/M	L/F
	Gal/ft	Ft/ft		
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

To Convert	Into	Multiply
Ft. of Water	Lbs/sq.in.	0.4335
Lbs/Sq. inch	Ft. of Water	2.3070
Cubic feet	Gallons	7.4800
Gallons	Liters	3.7850
Feet	Meters	0.30048
Inches	Centimeters	2.5400

MW-3

HOEXTER CONSULTING

Groundwater Sampling Field Log

Project Name/ No.: 1970 Seminary, Oakland
 Client: D. GRIFFIN
 Project Manager: D.F. Hoexter
 Sampler: Hoexter / Ferrythe
 Casing Diameter: 2 inch 2 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

Lab I.D.: 09876
 Date: 4/24/99
 Sample Location/I.D.: MW-4
 Start Time: _____

Depth of Well (feet): 35.5
 Depth to Water (feet): 14.55
 Sample Depth (feet): _____

Calculated Purged Volume: 13.68 gal.
 Actual Purged Volume 14.0
 20.95' wt → 3.42 gal/vol

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees F	Color (visual)	Other
1238	3.5	3.5	6.52	912	63.9		
1248	7.0	↓	6.52	909	64.6	cloudy/green-gray	
1259	10.5		6.53	899	65.2		
1309	14.0		6.53	890	65.4		

Purge Method

_____ 2" Bladder Pump Bailer _____ Well Wizard Dedicated
 _____ Submersible Pump _____ Centrifugal Pump _____ Dipper _____ Other
 _____ Pneumatic Displacement Pump _____

Sample Method

_____ 2" Bladder Pump Bailer _____ Well Wizard Dedicated
 _____ Surface Sampler _____ Dipper _____ Fultz Pump _____ Other

Well Integrity: OK - opened 4/22/99; measured SW 4/24/99
 Remarks: Moderate strong odor; sampled 1559 TPH-G;
1600 Hvoc; 1601 TOC

Signature: D.F. Hoexter

Volumes Per Unit Length Selected Well Casing Diameters

Well Casing I.D. (inches)	Volume Per Unit Length			
	Gal/ft	Cubic Ft/ft	L/M	L/Ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

Conversion Factors

To Convert	Into	Multiply
Ft. of Water	Lbs/sq. in.	0.4335
Lbs/Sq. inch	Ft. of Water	2.3070
Cubic feet	Gallons	7.4800
Gallons	Liters	3.7850
Feet	Meters	0.30048
Inches	Centimeters	2.5400

MW-4

HOEXTER CONSULTING

Groundwater Sampling Field Log

Project Name/No: 1970 Seminary, Oakland
 Client: D. Gruit
 Project Manager: D.F. Hoexter
 Sampler: Hoexter / Farrythe
 Casing Diameter: 2 inch 20 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

Lab I.D.: 09877
 Date: 4/24/99
 Sample Location/I.D.: MW-5
 Start Time: _____

Depth of Well (feet): 35
 Depth to Water (feet): 17.19
 Sample Depth (feet): _____

Calculated Purged Volume: 11.6 gal.
 Actual Purged Volume 12.0
 17.81' water → 2.9 gal/foot

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees F	Color (visual)	Other
<u>1030</u>	<u>3</u>	<u>3</u>	<u>6.42</u>	<u>697</u>	<u>62.7</u>		
<u>1042</u>	<u>6</u>	<u>↓</u>	<u>6.52</u>	<u>713</u>	<u>62.3</u>	<u>cloudy - light grey</u>	
<u>1050</u>	<u>9</u>	<u>↓</u>	<u>6.52</u>	<u>851</u>	<u>63.1</u>		
<u>1100</u>	<u>12</u>	<u>↓</u>	<u>6.57</u>	<u>863</u>	<u>63.2</u>		

Purge Method

2" Bladder Pump Bailer Well Wizard Dedicated
 Submersible Pump Centrifugal Pump Dipper Other
 Pneumatic Displacement Pump

Sample Method

2" Bladder Pump Bailer Well Wizard Dedicated
 Surface Sampler Dipper Fultz Pump Other

Well Integrity: OK - opened well 4/22/99; measured SW 4/24/99
 Remarks: no product, shown, color. Pos. H₂S odor.
Sampled 1450 TPH-G, 1451-8010; 1452 TOG.

Signature: D. J. Farrythe

Volumes Per Unit Length Selected Well Casing Diameters

Well Casing I.D. (inches)	Volume Per Unit Length			
	Gal/ft	Cubic Ft/ft	L/M	L/Ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6328	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

Conversion Factors

To Convert	Into	Multiply
Ft. of Water	Lbs/sq.in.	0.4335
Lbs/Sq. inch	Ft. of Water	2.3070
Cubic feet	Gallons	7.4800
Gallons	Liters	3.7850
Feet	Meters	0.30048
Inches	Centimeters	2.5400

MW-5

HOEXTER CONSULTING

Groundwater Sampling Field Log

Project Name/ No.: 1970 Seminary, Oakland
 Client: D-GRMIT
 Project Manager: D.F. Hoexter
 Sampler: Hoexter / Farrythe
 Casing Diameter: 2 inch 2 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

Lab I.D.: 09878
 Date: 4/24/99
 Sample Location/I.D.: MW-6
 Start Time: _____

Depth of Well (feet): 20
 Depth to Water (feet): 8.56
 Sample Depth (feet): _____

Calculated Purged Volume: 7.48 gal.
 Actual Purged Volume 8.2
11.44 ltr → 1.875 gal

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees F	Color (visual)	Other
1130	2	2	6.41	807	61.7		
1137	4	↓	6.45	815	61.9	sl. cloudy	
1146	6		6.38	812	61.5		
1153	8		6.44	818	61.8		

Purge Method

_____ 2" Bladder Pump Bailer _____ Well Wizard Dedicated
 _____ Submersible Pump _____ Centrifugal Pump _____ Dipper _____ Other
 _____ Pneumatic Displacement Pump _____

Sample Method

_____ 2" Bladder Pump Bailer _____ Well Wizard Dedicated
 _____ Surface Sampler _____ Dipper _____ Fultz Pump _____ Other

Well Integrity: OK - opened well 4/22/99, measured gw 4/24/99
 Remarks: No product odor, shower, sampled 1508 TPH-G, 1509 HWE; 1515 TOG-

Signature: D.F. Hoexter

Volumes Per Unit Length Selected Well Casing Diameters

Well Casing I.D. (inches)	Volume Per Unit Length			
	Gal/ft	Cubic Ft/ft	L/M	L/Ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

Conversion Factors

To Convert	Into	Multiply
Ft. of Water	Lbs/sq.in.	0.4335
Lbs/Sq. inch	Ft. of Water	2.3070
Cubic feet	Gallons	7.4800
Gallons	Liters	3.7850
Feet	Meters	0.30048
Inches	Centimeters	2.5400

MW-6

HOEXTER CONSULTING

Groundwater Sampling Field Log

Project Name/No.: 1970 Seminary, Oakland
 Client: D. Grimit
 Project Manager: D.F. Hoexter
 Sampler: Hoexter/Ferry
 Casing Diameter: 2 inch ~~3 inch~~ 4 inch 6 inch Other: _____

Lab I.D.: 05879
 Date: 4/24/99
 Sample Location/I.D.: MW-7
 Start Time: _____

Depth of Well (feet): 32
 Depth to Water (feet): 14.48
 Sample Depth (feet): _____

Calculated Purged Volume: 11.44 gal.
 Actual Purged Volume 12.0
 17.52 ft wtr. → 2.86 gal./vol.

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature (Degrees F)	Color (visual)	Other
1310	3	3	6.47	814	64.4		
1319	6	↓	6.47	823	63.7	sl. cloudy, brown	
1330	9	↓	6.61	753	63.6		
1347	12	↓	6.63	771	64.1		

Purge Method

2" Bladder Pump Bailer Well Wizard Dedicated
 Submersible Pump Centrifugal Pump Dipper Other
 Pneumatic Displacement Pump

Sample Method

2" Bladder Pump Bailer Well Wizard Dedicated
 Surface Sampler Dipper Fultz Pump Other

Well Integrity: OK - opened well 4/22/99 ; measured gw 4/24/99
 Remarks: OK ; sl. sheer, no sand ; sl. clear
Sampled 1611 TPH-G ; 1612 HVC ; 1613 TCG

Signature: D.F. Hoexter

Volumes Per Unit Length Selected Well Casing Diameters

Well Casing I.D. (inches)	Volume Per Unit Length			
	Gal/ft	Cubic Ft/ft	L/M	L/Ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

Conversion Factors

To Convert	Into	Multiply
Ft. of Water	Lbs/sq.in.	0.4335
Lbs/Sq. inch	Ft. of Water	2.3070
Cubic feet	Gallons	7.4800
Gallons	Liters	3.7850
Feet	Meters	0.30048
Inches	Centimeters	2.5400

MW-7

HOEXTER CONSULTING

Groundwater Sampling Field Log

Project Name/No: 1970 Seminary, Oakland
 Client: D. Gornit
 Project Manager: D.F. Hoexter
 Sampler: Hoexter / Ferry the
 Casing Diameter: 2 inch 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

Lab I.D.: 09880
 Date: 4/24/99
 Sample Location/I.D.: MW-8
 Start Time: _____

Depth of Well (feet): 20
 Depth to Water (feet): 4.40
 Sample Depth (feet): _____

Calculated Purged Volume: 10.2 gal.
 Actual Purged Volume 12
 15.6 ft wtr → 2.55 gal/vol-

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees F	Color (visual)	Other
1208	3	3	6.66	229	61.4		
1215	6	↓	6.75	217	61.1	sl. cloudy, lgt. brown	
1222	9	↓	6.80	205	60.4	possible sl. shooa	
1235	12	↓	6.80	216	61.4		

Purge Method

_____ 2" Bladder Pump Bailer _____ Well Wizard Dedicated
 _____ Submersible Pump _____ Centrifugal Pump _____ Dipper _____ Other
 _____ Pneumatic Displacement Pump _____

Sample Method

_____ 2" Bladder Pump Bailer _____ Well Wizard Dedicated
 _____ Surface Sampler _____ Dipper _____ Fultz Pump _____ Other

Well Integrity: OK - opened well 4/22/99, sam measured gw 4/24/99
 Remarks: OK - no product, shooa, slt; possible slight shooa from third bailer volume. Sampled 1542 TPH-G; 1543 HUCG;
 1544- TO G

Signature: D. F. Hoexter

Volumes Per Unit Length Selected Well Casing Diameters

Well Casing I.D. (inches)	Volume Per Unit Length			
	Gal/ft	Cubic Ft/ft	L/M	L/Ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

Conversion Factors

To Convert	Into	Multiply
Ft. of Water	Lbs/sq.in.	0.4335
Lbs/Sq. inch	Ft. of Water	2.3070
Cubic feet	Gallons	7.4800
Gallons	Liters	3.7850
Feet	Meters	0.30048
Inches	Centimeters	2.5400

MW-8

HOEXTER CONSULTING

Groundwater Sampling Field Log

Project Name/No.: 1970 Seminary, Oakland Lab I.D.: 09881
 Client: D. G. MIT Date: 4/24/99
 Project Manager: D.F. Hoexter Sample Location/I.D.: MW-9
 Sampler: Hoexter/Ferry Start Time: _____
 Casing Diameter: 2 inch 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

Depth of Well (feet): 20
 Depth to Water (feet): 12.33
 Sample Depth (feet): _____

Calculated Purged Volume: 5 gal
 Actual Purged Volume 3.5 gal
 7.67 ft wtr → 1.25 gal./wt.

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature (Degrees F)	Color (visual)	Other
<u>1059</u>	<u>1.25</u>	<u>1.25</u>	<u>6.58</u>	<u>1001</u>	<u>63.0</u>	<u>clear</u>	
<u>1104</u>	<u>2.5</u>	<u>1.25</u>	<u>6.61</u>	<u>1016</u>	<u>63.5</u>	<u>sl. cloudy</u>	
<u>1107</u>	<u>3.5</u>	<u>1.0</u>	<u>6.61</u>	<u>1038</u>	<u>63.6</u>	<u>↓</u>	
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>		

Purge Method

_____ 2" Bladder Pump Bailer _____ Well Wizard Dedicated
 _____ Submersible Pump _____ Centrifugal Pump _____ Dipper _____ Other
 _____ Pneumatic Displacement Pump _____

Sample Method

_____ 2" Bladder Pump Bailer _____ Well Wizard Dedicated
 _____ Surface Sampler _____ Dipper _____ Fultz Pump _____ Other

Well Integrity: OK - no product sheen, odor
 Remarks: opened well 4/22/99; measured gw 4/24/99
Sampled 1532 TPH-G; 1533 Hvoc; 1534 TOG.

Signature: D.F. Hoexter Fourth purge volume omitted due to draw down in well.

Volumes Per Unit Length Selected Well Casing Diameters

Well Casing I.D. (inches)	Volume Per Unit Length			
	Gal/ft	Cubic Ft/ft	LM	L/Ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

Conversion Factors

To Convert	Into	Multiply
Ft. of Water	Lbs/sq.in.	0.4335
Lbs/Sq. inch	Ft. of Water	2.3070
Cubic feet	Gallons	7.4800
Gallons	Liters	3.7850
Feet	Meters	0.30048
Inches	Centimeters	2.5400

MW-9



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Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

Hoexter Consulting Engineering Geology 734 Torreya Court Palo Alto, CA 94303	Client Project ID: #E10-1C-261C	Date Sampled: 04/24/99
		Date Received: 04/26/99
	Client Contact: David Hoexter	Date Extracted: 04/26/99
	Client P.O:	Date Analyzed: 04/26/99

05/03/99

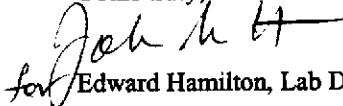
Dear David:

Enclosed are:

- 1). the results of 9 samples from your #E10-1C-261C project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,


for Edward Hamilton, Lab Director



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 Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

Hoexter Consulting Engineering Geology 734 Torrey Court Palo Alto, CA 94303	Client Project ID: #E10-1C-261C	Date Sampled: 04/24/99
		Date Received: 04/26/99
	Client Contact: David Hoexter	Date Extracted: 04/26-04/28/99
	Client P.O:	Date Analyzed: 04/26-04/28/99

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*
 EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Recovery Surrogate
09873	MW-1	W	33,000,a,h	ND<200	2300	3300	1100	4100	104
09874	MW-2	W	360,a	21	36	1.3	9.2	19	104
09875	MW-3	W	2100,b,j	ND	1.5	0.85	79	43	101
09876	MW-4	W	3100,a,h	ND<10	1700	22	67	21	---
09877	MW-5	W	9300,a	ND<100	390	290	820	770	100
09878	MW-6	W	2900,a	ND<10	430	33	160	200	106
09879	MW-7	W	5500,a,h	ND<10	640	180	290	210	---
09880	MW-8	W	ND	ND	ND	ND	ND	ND	111
09881	MW-9	W	3100,a	22	130	18	220	190	97
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	5.0	0.5	0.5	0.5	0.5	
	S		1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

* cluttered chromatogram; sample peak coelutes with surrogate peak

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mcccampbell.com> E-mail: main@mcccampbell.com

Hoexter Consulting Engineering Geology 734 Torrey Court Palo Alto, CA 94303	Client Project ID: #E10-1C-261C	Date Sampled: 04/24/99
		Date Received: 04/26/99
	Client Contact: David Hoexter	Date Extracted: 04/26/99
	Client P.O:	Date Analyzed: 04/26-04/30/99

Petroleum Oil & Grease (with Silica Gel Clean-up) *

EPA methods 413.1, 9070 or 9071; Standard Methods 5520 D/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

Lab ID	Client ID	Matrix	Oil & Grease*
09873	MW-1	W	140,h
09874	MW-2	W	ND
09875	MW-3	W	ND
09876	MW-4	W	7.5,h
09877	MW-5	W	ND
09878	MW-6	W	ND
09879	MW-7	W	ND,h
09880	MW-8	W	ND
09881	MW-9	W	ND
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		5 mg/L
	S		50 mg/kg

* water samples are reported in mg/L, wipe samples in mg/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in mg/L

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5vol. % sediment.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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 Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

Hoexter Consulting Engineering Geology 734 Torrey Court Palo Alto, CA 94303	Client Project ID: #E10-1C-261C	Date Sampled: 04/24/99
		Date Received: 04/26/99
	Client Contact: David Hoexter	Date Extracted: 04/26-04/29/99
	Client P.O:	Date Analyzed: 04/26-04/29/99

Volatile Halocarbons

EPA method 601 or 8010

Lab ID	09873	09874	09875	09876
Client ID	MW-1	MW-2	MW-3	MW-4
Matrix	W	W	W	W
Compound	Concentration*			
Bromodichloromethane	ND<1.5	ND	ND	ND<8.5
Bromoform ^(b)	ND<1.5	ND	ND	ND<8.5
Bromomethane	ND<1.5	ND	ND	ND<8.5
Carbon Tetrachloride ^(c)	ND<1.5	ND	ND	ND<8.5
Chlorobenzene	ND<1.5	ND	ND	ND<8.5
Chloroethane	2.1	ND	ND	ND<8.5
2-Chloroethyl Vinyl Ether ^(d)	ND<1.5	ND	ND	ND<8.5
Chloroform ^(e)	1.6	ND	ND	ND<8.5
Chloromethane	ND<1.5	ND	ND	ND<8.5
Dibromochloromethane	ND<1.5	ND	ND	ND<8.5
1,2-Dichlorobenzene	9.9	ND	ND	20
1,3-Dichlorobenzene	ND<1.5	ND	ND	ND<8.5
1,4-Dichlorobenzene	2.5	ND	ND	ND<8.5
Dichlorodifluoromethane	ND<1.5	ND	ND	ND<8.5
1,1-Dichloroethane	ND<1.5	ND	ND	ND<8.5
1,2-Dichloroethane	3.5	13	ND	ND<8.5
1,1-Dichloroethene	ND<1.5	ND	ND	ND<8.5
cis 1,2-Dichloroethene	61	7.8	0.65	390
trans 1,2-Dichloroethene	2.8	ND	ND	12
1,2-Dichloropropane	2.0	0.92	ND	ND<8.5
cis 1,3-Dichloropropene	ND<1.5	ND	ND	ND<8.5
trans 1,3-Dichloropropene	ND<1.5	ND	ND	ND<8.5
Methylene Chloride ^(f)	ND<3.7	ND<1	ND<1	ND<14
1,1,2,2-Tetrachloroethane	ND<1.5	ND	ND	ND<8.5
Tetrachloroethene	ND<4.2	ND	ND	33
1,1,1-Trichloroethane	ND<1.5	ND	ND	ND<8.5
1,1,2-Trichloroethane	ND<1.5	ND	ND	ND<8.5
Trichloroethene	ND<1.5	8.4	ND	240
Trichlorofluoromethane	ND<1.5	ND	ND	ND<8.5
Vinyl Chloride ^(g)	22	ND	ND	43
% Recovery Surrogate	115	102	103	100
Comments	h			h

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe
 Reporting limit unless otherwise stated: water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg; wipes, ND<0.2ug/wipe
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy)ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton Edward Hamilton, Lab Director



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 Telephone : 925-798-1620 Fax : 925-798-1622
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Hoexter Consulting Engineering Geology 734 Torreya Court Palo Alto, CA 94303	Client Project ID: #E10-1C-261C	Date Sampled: 04/24/99
		Date Received: 04/26/99
	Client Contact: David Hoexter	Date Extracted: 04/26-04/29/99
	Client P.O.:	Date Analyzed: 04/26-04/29/99

Volatile Halocarbons

EPA method 601 or 8010

Lab ID	09877	09878	09879	09880
Client ID	MW-5	MW-6	MW-7	MW-8
Matrix	W	W	W	W
Compound	Concentration			
Bromodichloromethane	ND<1	ND	ND<2	ND
Bromoform ^(b)	ND<1	ND	ND<2	ND
Bromomethane	ND<1	ND	ND<2	ND
Carbon Tetrachloride ^(c)	ND<1	ND	ND<2	ND
Chlorobenzene	ND<1	ND	ND<2	ND
Chloroethane	ND<1	ND	ND<2	ND
2-Chloroethyl Vinyl Ether ^(d)	ND<1	ND	ND<2	ND
Chloroform ^(e)	ND<1	ND	ND<2	ND
Chloromethane	ND<1	ND	ND<2	ND
Dibromochloromethane	ND<1	ND	ND<2	ND
1,2-Dichlorobenzene	1.9	ND	2.4	ND
1,3-Dichlorobenzene	ND<1	ND	ND<2	ND
1,4-Dichlorobenzene	ND<1	ND	ND<2	ND
Dichlorodifluoromethane	ND<1	ND	ND<2	ND
1,1-Dichloroethane	ND<1	ND	ND<2	ND
1,2-Dichloroethane	1.9	2.3	ND<2	ND
1,1-Dichloroethene	ND<1	ND	ND<2	ND
cis 1,2-Dichloroethene	4.8	17	31	1.9
trans 1,2-Dichloroethene	ND<1	ND	ND<2	ND
1,2-Dichloropropane	ND<1	0.89	ND<2	ND
cis 1,3-Dichloropropene	ND<1	ND	ND<2	ND
trans 1,3-Dichloropropene	ND<1	ND	ND<2	ND
Methylene Chloride ^(f)	ND<2	ND<1	ND<4	ND<1
1,1,2,2-Tetrachloroethane	ND<1	ND	ND<2	ND
Tetrachloroethene	ND<1	ND<1	9.3	3.4
1,1,1-Trichloroethane	ND<1	ND	ND<2	ND
1,1,2-Trichloroethane	ND<1	ND	ND<2	ND
Trichloroethene	ND<1	0.73	82	3.4
Trichlorofluoromethane	ND<1	ND	ND<2	ND
Vinyl Chloride ^(g)	6.3	0.59	ND<2	ND
% Recovery Surrogate	111	107	102	102
Comments	j		h	

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe
 Reporting limit unless otherwise stated: water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg; wipes, ND<0.2ug/wipe
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy)ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton Edward Hamilton, Lab Director



McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

Hoexter Consulting Engineering Geology 734 Torrey Court Palo Alto, CA 94303	Client Project ID: #E10-1C-261C	Date Sampled: 04/24/99
		Date Received: 04/26/99
	Client Contact: David Hoexter	Date Extracted: 04/26-04/29/99
	Client P.O:	Date Analyzed: 04/26-04/29/99

Volatile Halocarbons

EPA method 601 or 8010

Lab ID	09881			
Client ID	MW-9			
Matrix	W			
Compound	Concentration			
Bromodichloromethane	ND			
Bromoform ^(b)	ND			
Bromomethane	ND			
Carbon Tetrachloride ^(c)	ND			
Chlorobenzene	ND			
Chloroethane	ND			
2-Chloroethyl Vinyl Ether ^(d)	ND			
Chloroform ^(e)	ND			
Chloromethane	ND			
Dibromochloromethane	ND			
1,2-Dichlorobenzene	0.81			
1,3-Dichlorobenzene	ND			
1,4-Dichlorobenzene	ND			
Dichlorodifluoromethane	ND			
1,1-Dichloroethane	ND			
1,2-Dichloroethane	0.52			
1,1-Dichloroethene	ND			
cis 1,2-Dichloroethene	3.1			
trans 1,2-Dichloroethene	ND			
1,2-Dichloropropane	ND			
cis 1,3-Dichloropropene	ND			
trans 1,3-Dichloropropene	ND			
Methylene Chloride ^(f)	ND<1			
1,1,2,2-Tetrachloroethane	ND			
Tetrachloroethene	ND			
1,1,1-Trichloroethane	ND			
1,1,2-Trichloroethane	ND			
Trichloroethene	ND			
Trichlorofluoromethane	ND			
Vinyl Chloride ^(g)	ND			
% Recovery Surrogate	104			
Comments				

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe
Reporting limit unless otherwise stated: water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg; wipes, ND<0.2ug/wipe
ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy)ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton, Lab Director

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/25/99-04/26/99

Matrix: WATER

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		RPD
	Sample (#09710)	MS	MSD		MS	MSD	
TPH (gas)	0.0	103.1	103.9	100.0	103.1	103.9	0.8
Benzene	0.0	9.9	9.7	10.0	99.0	97.0	2.0
Toluene	0.0	9.6	9.9	10.0	96.0	99.0	3.1
Ethyl Benzene	0.0	9.9	10.0	10.0	99.0	100.0	1.0
Xylenes	0.0	29.4	29.9	30.0	98.0	99.7	1.7
TPH(diesel)	0.0	7840	7558	7500	105	101	3.7
TRPH (oil & grease)	0	22300	23300	23700	94	98	4.4

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

QC REPORT FOR EPA 8010/8020/EDB

Date: 04/25/99-04/26/99

Matrix: WATER

Analyte	Concentration (ug/L)				% Recovery		RPD
	Sample (#09234)	MS	MSD	Amount Spiked	MS	MSD	
1,1-DCE	0.0	10.0	9.8	10.0	100	98	2.0
Trichloroethene	0.0	9.1	9.0	10.0	91	90	1.1
EDB	0.0	8.9	8.9	10.0	89	89	0.0
Chlorobenzene	0.0	9.7	9.7	10.0	97	97	0.0
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobz (PID)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

148532 HC4

CHAIN-OF-CUSTODY RECORD

Project Number		Project Name					Number / Type of Containers	Analytical Tests				Remarks	
E-10-K-261C		1970 Seminary Oakland CA						TPA-G / BTEX / MTBE H2OC - 8010 314 5720 B/F * Preserved					
Sampler's Name (printed)													
Hoexter / Forsythe													
Boring Number	Date	Time	Soil	Water	Sample Location or Depth	Sample Number							
(+) MW-1	4/24/99	1630				VOA	8						
		1631				VOA		8					
		1633				1-L			8				
(+) MW-2		1519				VOA	8						
		1520				VOA		8					
		1521				1-L			8				
(+) MW-3		1437				VOA							
		1438				VOA							
		1439				1-L							
(+) MW-4		1559				VOA							
		1600				VOA							
		1601				1-L							
(+) MW-5		1450				VOA							
		1451				VOA							
		1452				1-L							

Pg 1 of 2

Relinquished by: (Signature) D. J. F. Hoexter	Date/Time 4/24/99 10:20	Received by: (Signature) John Hall 2839
Relinquished by: (Signature) John Hall	Date/Time 4-26-99 11:30	Received by: (Signature) Vicki Preece
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)

Ship To: McCoybell Ancl.
Pacheco CA

Attention: _____
 Phone No: _____

Requested Turnaround Time: Normal Contact: David F. Hoexter Phone: 650-494-2505

Remarks: All VOAs preserved HCL *

ICE/GOOD CONDITION/HEAD SPACE ABSENT PRESERVATION APPROPRIATE CONTAINERS
 VOAS O&G METALS OTHER

Hoexter Consulting Engineering Geology
 734 Torreya Court
 Palo Alto, CA 94303

14853 ZHC4

CHAIN-OF-CUSTODY RECORD

Project Number		Project Name		Number / Type of Containers	Analytical Tests	Remarks	
E-10-10-2610		1970 Sawinery, Oakland CA					
Sampler's Name (printed)							
Hoexter / Forsythe							
Boring Number	Date	Time	Soil	Water	Sample Location or Depth	Sample Number	
(+)	MW-6	4/24/89	1508			VOA	X
			1509			VOA	X
			1510			1-L	
(+)	MW-7		1611			VOA	X
			1612			VOA	X
			1613			1-L	
+	MW-8		1542			VOA	X
			1543			VOA	X
			1544			1-L	
+	MW-9		1532			VOA	X
			1533			VOA	X
			1534			1-L	

Relinquished by: (Signature) <i>D. J. H.</i>	Date/Time 4/26/89 10:20	Received by: (Signature) <i>Stan Salch 2839</i>
Relinquished by: (Signature) <i>Stan Salch</i>	Date/Time 4-26-89 11:30	Received by: (Signature) <i>Quinn Thoma</i>
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)

Ship To: Mc Campbell Anal.
Pacheco CA

Attention: _____
Phone No: _____

Requested Turnaround Time: Normal Contact: David F. Hoexter Phone: 650-494-2525

Remarks: All VOAs preserved AEL

ICEA GOOD CONDITION HEAD SPACE ABSENT PRESERVATION APPROPRIATE CONTAINERS

File O&G METAL OTHER

Hoexter Consulting Engineering Geology
734 Torrey Court
Palo Alto, CA 94303

Pg 2 of 2



McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

Hoexter Consulting Engineering Geology 734 Torrey Court Palo Alto, CA 94303	Client Project ID: #E-1 ^{***} 1C-261C; 1970 Seminary, Oakland	Date Sampled: 04/24/99
		Date Received: 04/26/99
	Client Contact: David Hoexter	Date Extracted: 04/26/99
	Client P.O:	Date Analyzed: 04/26/99

05/03/99

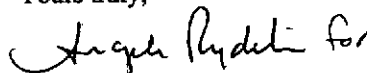
Dear David:

Enclosed are:

- 1). the results of 1 samples from your #E-16-1C-261C; 1970 Seminary, Oakland project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,


Edward Hamilton, Lab Director



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Hoexter Consulting Engineering Geology 734 Torrey Court Palo Alto, CA 94303	Client Project ID: #E-10-1C-261C; 1970 Seminary, Oakland	Date Sampled: 04/24/99
	Client Contact: David Hoexter	Date Received: 04/26/99
	Client P.O:	Date Analyzed: 04/27/99
		Date Extracted: 04/27/99

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Recovery Surrogate
09882	MW-1	W	41,000,a,h	1100	2500	3700	1500	5700	101
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	5.0	0.5	0.5	0.5	0.5	
	S		1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

* cluttered chromatogram; sample peak coelutes with surrogate peak

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/26/99-04/27/99

Matrix: WATER

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		RPD
	Sample (#09710)	MS	MSD		MS	MSD	
TPH (gas)	0.0	103.1	103.9	100.0	103.1	103.9	0.8
Benzene	0.0	9.9	9.7	10.0	99.0	97.0	2.0
Toluene	0.0	9.6	9.9	10.0	96.0	99.0	3.1
Ethyl Benzene	0.0	9.9	10.0	10.0	99.0	100.0	1.0
Xylenes	0.0	29.4	29.9	30.0	98.0	99.7	1.7
TPH(diesel)	0.0	7840	7558	7500	105	101	3.7
TRPH (oil & grease)	0	22300	23300	23700	94	98	4.4

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

14854 ZHC 5

CHAIN-OF-CUSTODY RECORD

Project Number E-10-K-261C		Project Name 1970 Seminary, Oakland CA		Number / Type of Containers 1-10A	Analytical Tests TPH-G/BTEX/PTBE	Remarks Pg 1 of 1
Sampler's Name (printed) Hoexter / Forsythe						
Boring Number	Date	Time	Soil	Water	Sample Location or Depth	Sample Number
MW-1	4/24/99	1632		X		1-10A
						PHS HEL

Relinquished by: (Signature) D. J. H.	Date/Time 4/24/99 1020	Received by: (Signature) Stan Bull 2839
Relinquished by: (Signature) Stan Bull	Date/Time 4/26/99 11:30	Received by: (Signature) M. J. Trucca
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)

Ship To: McC Campbell Anal.
Pacheco CA

Attention: _____
Phone No: _____

Requested Turnaround Time: Normal

Remarks:

Contact: David F. Hoexter (510) 494-2255

ICEM GOOD CONDITION HEAD SPACE ABSENT

PRESERVATION APPROPRIATE CONTAINERS

VOAS | O&G METALS | OTHER

Hoexter Consulting Engineering Geology
734 Torrey Court
Palo Alto, CA 94303