RO-302

FIRST QUARTER 2003

QUARTERLY GROUNDWATER MONITORING PROGRAM

GERMAN AUTOCRAFT
301 E. 14TH STREET, SAN LEANDRO, CALIFORNIA

Prepared For:

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I. INTRODUCTION

Environmental Testing (ET) has continued the quarterly groundwater monitoring program during the calendar first quarter 2003 at German Autocraft located at 301 East 14th Street in the City of San Leandro, Alameda County, California (**Figure 1**). This report is submitted to the Alameda County Department of Environmental Health (ACDEH) on behalf of Mr. Seung Lee, owner of German Autocraft.

The purpose of this quarterly monitoring program is to evaluate groundwater quality in the area of five former underground fuel storage tanks (USTs) that were removed in 1990. Data accumulated from the program will be used to assess seasonal groundwater level fluctuations, changing groundwater quality conditions, and provide data which will support the development of corrective action plans at the site. The quarterly monitoring program presents a description of the groundwater monitoring activities, a compilation of groundwater quality and elevation data and a brief description of the progress of the development of corrective actions at the site.

The groundwater monitoring program involves sampling and testing selected monitoring wells and one (1) private well located at the Ramirez residence at 141 Farrelly Drive. The current schedule of the monitoring program is as follows:

Quarterly:	MW-12, MW-13, and MW-14
Semi-Annual:	MW-1A, MW-8, MW-9, MW-10, 141 Farrelly Drive
Annual:	MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-11

II. BACKGROUND

German Autocraft is located at 301 E. 14th Street in San Leandro (see Location Map, **Figure 1**). The approximate locations of buildings, property boundaries, and adjacent streets are presented on the Site Map, **Figure 2.** For detailed descriptions of prior environmental activities at the subject site, please refer to the references section of this report for a listing of reports which have been submitted to the ACDEH.

III. WORK PERFORMED DURING CURRENT PERIOD

Work for the groundwater monitoring program included groundwater level gauging and sampling, sample analysis, and report preparation.

Activity highlights during this period are as follows:

- **March 31, 2003** - ET collected groundwater samples at selected monitoring wells and measured groundwater depths at wells.

IV. GROUNDWATER ELEVATION AND GRADIENT

Static groundwater level elevation data collected on March 31, 2003 indicated that over the area studied, the elevation of the shallow groundwater surface ranged from 26.06 - 26.68 feet above mean sea level (see **Table 1**). **Figure 3** shows groundwater gradient/estimated flow direction. **Table 1** presents the recent groundwater elevation data. **Table 2** presents historic groundwater elevation data. The gradient determined this period is consistent with historical flow data.

V. GROUNDWATER SAMPLING, MODIFICATIONS TO WELLS SAMPLED, AND ANALYTICAL RESULTS

On March 31, 2003, groundwater samples were collected from monitoring wells following the groundwater sampling procedures presented in **Appendix A.** Due to the financial situation of the owner, wells requiring an encroachment permit and permitting fees (i.e. MW-1A, MW-6, MW-8, MW-12, MW-13, and MW-14) were not sampled this period. The private well at 141 Farrelly was not sampled due to the owners scheduling limitations. The groundwater samples were analyzed for TPHg, BTEX by EPA Methods 5030, 8015, and 8020 as tabulated on **Table 3**. All samples were tested by Entech Analytical Labs, Inc. of Santa Clara, California. The laboratory report and chain-of-custody documents are included in **Appendix B**. The field sampling data sheets are presented in **Appendix C.** Maps showing TPHg and benzene concentrations are presented on **Figures 4** and **5**. The quality assurance/quality control description is included in **Appendix D.** Historic groundwater chemical test data by EPA Methods 5030, 8015, and 8020 is tabulated in **Table 4**.

Figures 6a - 6o present logarithmic plots of historic chemical test concentrations. For the time trend plots, where chemical concentration was below the method detection limit, the plotted value is the average of the detection limit and zero. Refer to **Table 4** for historic chemical test results. Note that on some plots, the concentrations are so low that the log plots appear nearly arithmetical. Also, due to graphing and plotting software limitations, on some plots where values are negative, the plotted line appears to over-write the printed dates (for example see **Figure 6f** "MW-6 Benzene Time Trend Plot").

Selected BTEX chemical constituents continue to exceed their respective California Drinking Water Maximum Contaminant Levels (MCLs) or Federal Action Levels (AL) (see test results **Table 3**).

VI. DISCUSSION

The contaminant plume appears relatively stable with the most elevated concentrations near the former UST source. The historical data set (see **Table 4**) shows that the edge of the dissolved plume is interpreted to occur beyond well MW-12. This period time trend plots for monitoring wells were prepared showing historic logarithmic concentrations to display graphical trends for wells (see **Figures 6a - 6o**). The overall trends in TPHg and benzene chemical concentrations appear stable or slowly declining.

Historic flow data shows a consistent west-northwesterly flow direction under a calculated flow gradient of 0.001. The log plots of historic monitoring data show stable and slightly declining concentrations. Although only a limited number of monitoring wells were sampled this quarter, the results are, in our opinion, similar and consistent with the site's historic trends.

VII. CONCLUSIONS

Selected wells' various chemical constituents continue to exceed their respective California Drinking Water Maximum Contaminant Levels (MCLs) or Federal Action Levels (AL) (see historic test results **Table 4**).

Historic data, including current gauging events, indicate that groundwater elevations measured this period for the site are consistent with previous monitoring events for the project. The most elevated concentrations of TPHg and benzene appear in wells MW-1, MW-2, MW-3, and MW-4. These wells are in the vicinity of the former tank site. The dissolved plume continues to show a northwesterly orientation from the site, in a relatively stable configuration. Log plots of monitoring wells' historic chemical data were prepared to evaluate the data collected to date. ET will discuss the historic data with the ACDEH representative following review regarding future site work and monitoring given the owner's financial situation. The site is scheduled for continued monitoring.

VIII. LIMITATIONS

The data, information, interpretations and recommendations contained in this report are presented to meet current suggested regulatory requirements for determining groundwater quality on the site. Environmental Testing is not responsible for laboratory errors or completeness of other consultants reports, and no warranty is made or implied therein.

The conclusions and professional opinions presented herein were developed by ET using site specific data in accordance with current regulatory guidance and the opinions expressed are subject to revisions in light of new information which may develop in the future.

IX. REFERENCES

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TABLE 1. CURRENT GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA

		March 31, 2003	
WELL	CASING ELEVATION[1]	Depth to Groundwater	Groundwater Elevation
MW-1	49.40	22.72	26.68
MW-2	50.02	23.63	26.39
MW-3	49.32	22.82	26.50
MW-4	49.61	23.02	26.59
MW-9	48.77	22.44	26.33
MW-10	49.93	23.87	26.06

[1]Elevations in feet above mean sea level.

TABLE 2. HISTORICAL GROUNDWATER ELEVATION DATA

Elevation in Feet Above Mean Sea Level

DATE	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-8	MW-9	MW-10	MW-11	MW-1A	141 Farralley
12/21/90	19.15	-	-	-	-	-	-	-	-	-	-	-
2/10/95	29.59	29.62	29.57	-	-	-	-	-	-	-	-	-
7/7/95	26.63	26.47	26.50	-	-	-	-	-	-	-	-	-
8/10/95	25.58	25.40	25.44	-	-	-	-	-	-	-	-	-
9/11/95	24.68	24.49	24.54	-	-	-	-	-	-	-	-	-
10/2/95	24.12	23.94	24.00	-	-	-	-	-	-	-	-	-
11/7/95	23.36	23.13	23.21	-	-	-	-	-	-	-	-	-
12/8/95	22.77	22.55	22.62	-	-	-	-	-	-	-	-	-
1/12/96	24.35	24.20	24.25	-	-	-	-	-	-	-	-	-
2/12/96	29.04	29.03	29.00	-	-	-	-	-	-	-	-	-
3/12/96	31.75	31.60	31.67	-	-	-	-	-	-	-	-	-
4/13/96	29.43	29.25	29.26	-	-	-	-	-	-	-	-	-
5/14/96	27.89	27.68	27.71	-	-	-	-	-	-	-	-	-
6/20/96	27.19	26.97	27.00	-	-	-	-	-	-	-	-	-

DATE	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-8	MW-9	MW-10	MW-11	MW-1A	141 Farralley
7/26/96	25.95	25.74	25.76	-	-	-	-	-	-	-	-	-
8/19/96	25.16	24.97	25.01	-	-	-	-	-	-	-	-	-
9/17/96	24.44	24.22	24.27	-	-	-	-	-	-	-	-	-
10/21/96	23.63	23.43	23.48	-	-	-	-	-	-	-	-	-
11/27/96	24.28	24.09	24.13	-	-	-	-	-	-	-	-	-
12/27/96	28.23	28.03	28.11	-	-	-	-	-	-	-	-	-
1/28/97	33.02	32.71	32.78	-	-	-	-	-	-	-	-	-
4/25/97	27.14	26.88	26.94	-	-	-	-	-	-	-	-	-
7/17/97	24.55	24.31	24.37	-	-	-	-	-	-	-	-	-
10/21/97	22.85	22.69	22.73	-	-	-	-	-	-	-	-	-
3/10/98	34.35	34.20	34.13	-	-	-	-	-	-	-	-	-
6/6/98	30.69	30.41	30.47	-	-	-	-	-	-	-	-	-
9/30/98	25.95	25.68	25.75	-	-	-	-	-	-	-	-	-
12/30/98	25.13	24.93	24.99	25.05	25.06	25.14	24.75	24.79	24.78	24.78	24.64	-
3/13/99	29.98	29.80	29.83	29.89	29.93	29.97	29.58	29.58	29.31	29.56	29.39	28.84

DATE	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-8	MW-9	MW-10	MW-11	MW-1A	141 Farralley
9/29/99	24.39	24.12	24.20	24.27	24.26	24.38	23.93	24.05	23.80	24.03	23.89	-
12/29/99	23.75	23.52	23.60	23.64	23.64	23.75	23.36	23.45	23.23	23.43	23.29	-
3/18/00	31.92	31.87	31.82	31.85	31.94	31.86	31.66	31.46	31.26	31.38	31.25	30.86
7/18/00	26.21	26.01	26.04	-	-	26.22	25.76	25.83	25.55	25.81	25.64	-
9/26/00	25.01	24.69	24.80	-	-	24.95	24.50	24.61	24.34	24.58	24.48	24.10
12/28/00	24.63	24.39	24.45	24.52	-	24.61	24.21	24.29	24.03	24.26	24.13	-
3/30/01	27.47	27.31	27.39	27.40	-	27.41	27.14	27.12	26.79	27.03	27.02	26.51
10/5/01	23.82	23.64	23.70	23.77	-	23.82	23.47	23.54	23.33	23.52	23.38	-
3/28/02	28.66	28.43	28.49	28.58	28.60	28.65	28.15	28.32	28.06	28.31	28.14	-
9/30/02	-	24.18	24.12	24.32	-	24.41	23.97	24.11	23.88	24.09	23.96	23.42
12/21/02	-	-	-	-	-	-	-	-	-	-	-	28.69
3/31/03	26.68	26.39	26.50	26.59	-	-	-	26.33	26.06	-	-	-

DATE	MW-12	MW-13	MW-14
3/30/01	26.71	26.41	27.01
10/5/01	23.21	22.91	23.98
12/21/01	26.10	25.78	26.10
3/28/02	27.95	27.60	27.96
6/28/02	25.19	24.81	25.22
9/30/02	23.75	23.37	23.76
12/21/02	-	27.99	28.03

TABLE 3. GROUNDWATER CHEMICAL TEST RESULTS (EPA METHOD 8015/8020)

Location: German Autocraft, 301 E. 14th Street, San Leandro, California

Date Sampled: March 31, 2003 Units: µg/L

WELL	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-1	100,000	2,200	19,000	4,900	21,000
MW-2	5,000	620	<12.5	71	<25
MW-3	25,000	3,200	280	1,600	4,200
MW-4	25,000	2,000	2,100	820	2,900
MW-9	6,200	<12.5	<12.5	130	87
MW-10	5,700	31	38	67	27
MCL/AL[2]	-	1	150	700	1,750

[2]Maximum Contaminant Level or Action Level as established by the State of California, Division of Drinking Water and Environmental Management, Department of Health Services "Summary, Maximum Contaminant and Action Levels" November, 1994.

TABLE 4. HISTORIC GROUNDWATER CHEMICAL TEST RESULTS (EPA METHOD 8015/8020)

Location: German Autocraft, 301 E. 14th Street, San Leandro, California

Units: µg/L

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-1	12/31/90	51,000	2,200	1,200	<0.5	760
	1/6/95	110,000	13,000	15,000	4,800	13,000
	1/6/95	580,000	29,000	41,000	17,000	43,000
	7/6/95	49,000	8,000	17,000	1,900	9,700
	7/6/95	47,000	4,800	9,500	930	5,000
	10/2/95	120,000	16,000	36,000	3,300	17,000
	10/2/95	160,000	20,000	47,000	5,000	23,000
	1/12/96	1,100,000	11,000	18,000	15,000	51,000
	1/12/96	98,000	2,100	4,600	2,500	10,000
	4/13/96	53,000	1,300	2,900	2,100	10,000
	4/13/96	58,000	820	3,600	2,800	12,000
	7/26/96	91,000	2,900	7,200	2,900	14,000
	7/26/96	67,000	2,300	5,500	2,500	11,000
	10/21/96	210,000	4,800	17,000	2,300	15,000
	10/21/96	210,000	5,400	18,000	2,600	11,000
	1/28/97	120,000	5,600	15,000	2,100	11,000
	1/28/97	130,000	5,500	15,000	2,300	12,000

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-1	4/25/97	180,000	6,900	20,000	2,600	13,000
	4/25/97	170,000	6,500	20,000	2,500	13,000
	7/17/97	220,000	8,300	41,000	2,700	16,000
	10/21/97	240,000	9,400	33,000	3,300	22,000
	3/10/98	120,000	11,000	46,000	3,700	21,000
	6/6/98	110,000	7,600	32,000	4,800	23,000
	9/30/98	140,000	5,800	29,000	3,500	18,000
	12/30/98	78,000	5,200	24,000	3,200	19,000
	3/23/99	250,000	8,000	43,000	5,200	27,000
	9/29/99	140,000	6,100	35,000	5,400	27,000
	3/18/00	120,000	5,100	33,000	4,600	24,000
	3/20/01	120,000	3,600	41,000	4,700	25,000
	3/28/02	100,000	2,800	24,000	5,400	28,900
	3/31/03	100,000	2,200	19,000	4,900	21,000
MW-2	1/6/95	980,000	9,400	5,600	19,000	42,000
	7/6/95	71,000	5,300	1,800	6,100	9,000
	10/2/95	40,000	2,900	200	2,800	3,600
	1/12/96	260,000	2,600	2,200	6,300	7,800
	4/13/96	30,000	1,900	370	2,300	2,400
	7/26/96	180,000	1,400	640	2,100	5,000
	10/21/96	62,000	2,100	<0.5	2,100	2,700
	1/28/97	46,000	1,500	94	1,800	2,000
	4/25/97	23,000	790	26	820	730

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-2	7/17/97	95,000	2,200	<0.5	3,100	4,300
	10/21/97	31,000	2,000	<0.5	2,100	1,900
	3/10/98	19,000	730	44	820	1,000
	6/6/98	16,000	670	1,100	510	1,200
	9/30/98	24,000	600	77	680	580
	12/30/98	9,300	510	96	450	480
	3/23/99	5,700	580	9.4	400	280
	9/29/99	17,000	880	240	830	1,000
	12/29/99	11,000	800	11	860	780
	3/18/00	11,000	790	14	520	450
	7/18/00	10,000	560	27	630	530
	9/26/00	6,800	450	7.4	290	200
	12/28/00	12,000	540	30	420	330
	3/20/01	3,500	230	<10	<10	<10
	3/28/02	7,000	570	16	170	71
	3/31/03	5,000	620	<12.5	71	<25
MW-3	1/6/95	740,000	11,000	2,300	8,300	28,000
	7/6/95	86,000	12,000	8,600	4,900	19,000
	10/2/95	100,000	15,000	11,000	6,000	20,000
	1/12/96	84,000	6,500	4,100	3,200	12,000
	4/13/96	48,000	7,600	3,600	2,800	9,400
	7/26/96	62,000	6,400	3,100	3,000	11,000
	10/21/96	110,000	5,400	2,400	2,500	9,800

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-3	1/28/97	130,000	5,500	15,000	2,300	12,000
	4/25/97	180,000	6,900	20,000	2,600	13,000
	7/17/97	69,000	5,100	1,100	1,800	8,600
	10/21/97	58,000	4,300	1,300	2,100	8,000
	3/10/98	25,000	3,000	1,300	1,100	3,700
	6/6/98	52,000	4,400	1,900	2,300	6,900
	9/30/98	42,000	4,300	1,400	1,800	6,600
	12/30/98	34,000	4,200	770	2,300	9,000
	3/23/99	44,000	3,500	1000	1,700	5,200
	9/29/99	39,000	6,000	840	2,400	8,100
	12/29/99	39,000	4,600	790	2,400	8,100
	3/18/00	21,000	3,100	550	1,400	4,100
	7/18/00	30,000	5,000	950	2,000	5,700
	9/26/00	36,000	5,300	640	2,400	9,900
	12/28/00	33,000	4,700	450	2,100	6,400
	3/20/01	21,000	2,000	260	570	3,000
	3/28/02	31,000	4,400	370	2,200	6,110
	3/31/03	25,000	3,200	280	1,600	4,200
MW-4	12/30/98	12,000	1,200	1,100	290	1,400
	3/23/99	89,000	5,900	8,700	2,000	9,200
	9/29/99	48,000	5,300	6,800	1,700	7,700
	3/18/00	44,000	4,500	7,500	2,200	11,000
	3/20/01	10,000	700	620	<10	1,900

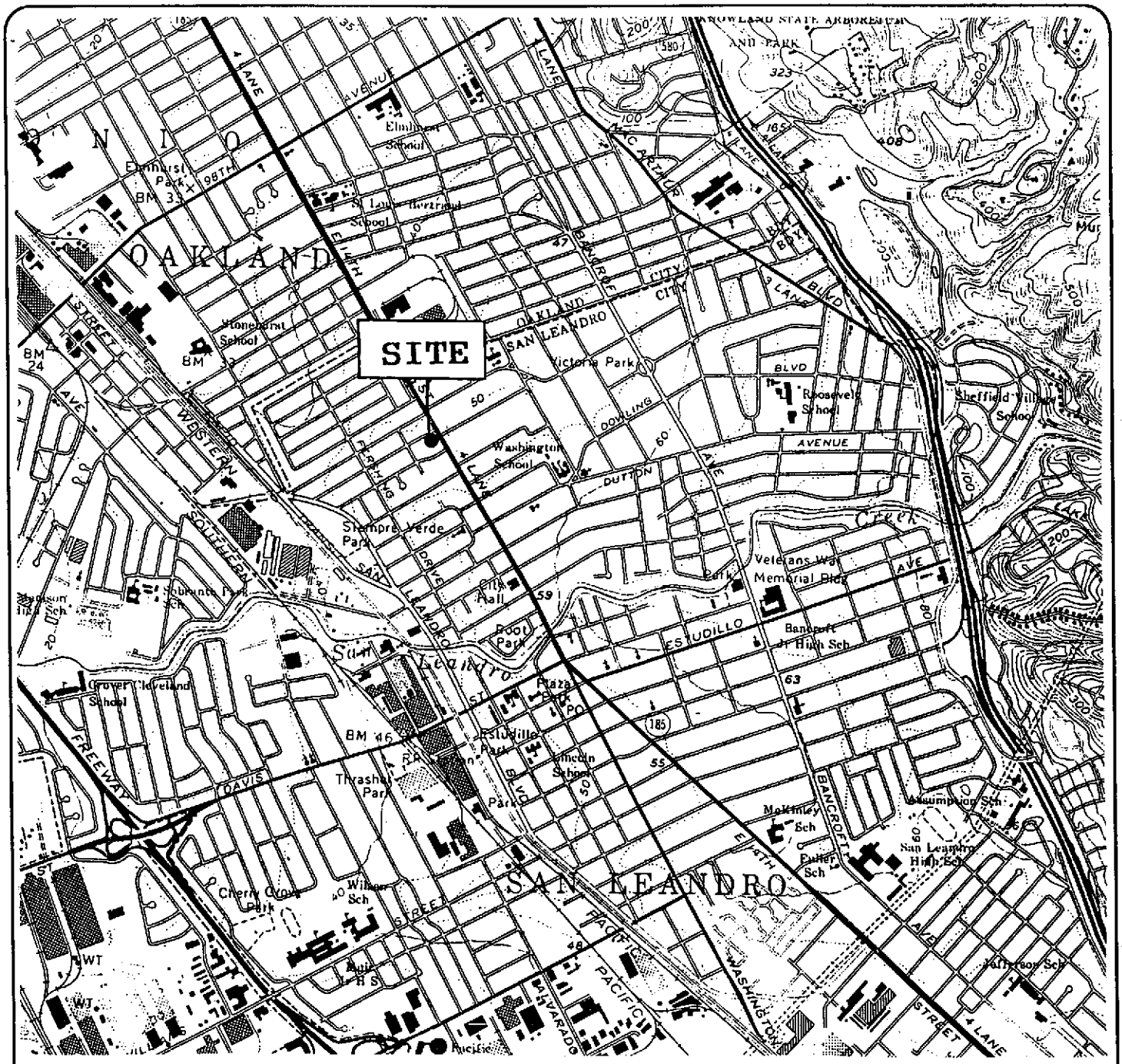
WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-4	3/28/02	30,000	3,700	3,100	1,100	4,100
	3/31/03	25,000	2,000	2,100	820	2,900
MW-5	12/30/98	170	1.1	<0.5	<0.5	0.83
	3/22/99	470	3.8	0.51	2.0	<0.5
	9/29/99	1,200	13	4.2	2.7	4.2
	3/18/00	660	5.5	0.62	1.6	1.7
MW-6	12/30/98	400	1.0	<0.5	<0.5	4.8
	3/22/99	390	<0.5	<0.5	<0.5	<0.5
	9/30/99	330	1.8	1.4	1.5	<0.5
	3/18/00	200	1.3	<0.5	<0.5	<0.5
	9/26/00	240	1.5	<0.5	<0.5	<0.5
	3/20/01	160	<0.5	<0.5	<0.5	<0.5
	3/28/02	88	0.89	<0.5	<0.5	<1.5
MW-8	12/30/98	2,200	70	0.94	26	15
	3/23/99	2,300	34	1.1	15	13
	9/30/99	8,800	140	<50	53	<50
	12/29/99	1,900	64	1.0	22	23
	3/18/00	1,400	36	<0.5	12	9.3
	7/18/00	3,000	67	9.8	38	38
	9/26/00	1,200	24	3.0	24	15
	12/28/00	1,200	47	3.7	17	18
	3/20/01	1,300	7.8	<2.5	<2.5	14
	10/5/01	1,800	28	<2.5	20	23

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-8	3/28/02	1,100	12	1.7	11	10.8
	9/30/02	1,400	15	24	32	22
MW-9	12/30/98	25,000	23	<10	180	620
	3/23/99	27,000	35	<20	600	920
	9/30/99	42,000	140	130	1,000	1,700
	12/29/99	1,100,000	1,200	1,300	4,300	8,700
	3/18/00	17,000	89	46	10	600
	7/18/00	12,000	39	8.2	540	760
	9/26/00	11,000	19	<5	470	610
	12/28/00	22,000	100	<100	610	770
	3/20/01	8,200	40	<10	14	210
	10/5/01	77,000	<100	110	780	850
	3/28/02	11,000	34	6.1	220	180
	9/30/02	34,000	<125	140	240	370
	3/31/03	6,200	<12.5	<12.5	130	87
MW-10	12/30/98	6,900	130	19	140	210
	3/23/99	6,600	150	33	240	170
	9/30/99	9,300	60	38	280	150
	12/29/99	5,800	87	10	420	180
	3/18/00	3,800	180	11	220	120
	7/18/00	9,100	120	33	210	130
	9/26/00	4,500	22	8.8	1.3	18
	12/28/00	3,900	55	13	98	38

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-10	3/20/01	4,500	48	6.0	<5	23
	10/5/01	5,200	70	28	41	30
	2/28/02	7,400	45	20	210	66
	9/30/02	670	54	5.9	76	23
	3/31/03	5,700	31	38	67	27
MW-11	12/30/98	80	<0.5	<0.5	0.93	1.6
	3/23/99	<50	<0.5	<0.5	<0.5	<0.5
	9/30/99	94	<0.5	<0.5	<0.5	<0.5
	3/18/00	<50	<0.5	<0.5	<0.5	<0.5
	9/26/00	<50	<0.5	<0.5	<0.5	<0.5
	3/20/01	<50	<0.5	<0.5	<0.5	<0.5
	3/28/02	<50	<0.5	<0.5	<0.5	<1.5
MW-12	3/20/01	4,100	28	6.2	<5	16
	6/29/01	4,200	26	25	19	29
	12/21/01	5,300	9.7	<2.5	41	14
	3/28/02	4,900	20	<2.5	69	23
	6/28/02	2,600	29	<12.5	30	<25
	9/30/02	700	16	4.9	19	9.8
MW-13	3/20/01	<50	<0.5	<0.5	<0.5	<0.5
	6/29/01	<50	<0.5	<0.5	<0.5	<0.5
	10/5/01	<50	<0.5	<0.5	<0.5	<0.5
	12/21/01	<50	<0.5	<0.5	<0.5	<0.5
	3/28/02	<50	<0.5	<0.5	<0.5	<1.5

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-13	6/28/02	<50	<0.5	<0.5	<0.5	<1
	9/30/02	<50	<0.5	<0.5	<0.5	<1
	12/21/02	<50	<0.5	<0.5	<0.5	<1
MW-14	3/20/01	200	<0.5	<0.5	<0.5	<0.5
	6/29/01	660	<0.5	<0.5	<0.5	4.6
	10/5/01	770	1.7	1.5	0.91	8.3
	12/21/01	1,500	3.1	13	1.9	22
	3/28/02	390	1.7	<0.5	<0.5	0.74
	6/28/02	120	<0.5	<0.5	<0.5	<1
	9/30/02	210	<0.5	1.7	<0.5	1.1
	12/21/02	53	<0.5	<0.5	<0.5	<1
MW-1A	5/30/97	12,000	18	8.7	90	540
	12/30/98	51	<0.5	<0.5	<0.5	<0.5
	3/23/99	1,800	4.0	<0.5	3.0	7.5
	3/23/99	2,200	10	0.52	3.1	7.1
	9/30/99	13,000	63	26	30	72
	3/8/00	6,100	36	<5	9.7	45
	9/26/00	11,000	14	<5	65	150
	3/20/01	4,800	30	6.0	<5	7.0
	10/5/01	15,000	76	41	36	140
	3/28/02	9,300	35	<12.5	17	32
	9/30/02	23,000	<50	63	77	230

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
141 Farrelly	4/6/96	<50	<0.5	<0.5	<0.5	<0.5
	10/2/99	<50	<0.5	<0.5	<0.5	<0.5
	3/18/00	<50	<0.5	<0.5	<0.5	<0.5
	7/13/00	<50	<0.5	<0.5	<0.5	<0.5
	9/26/00	<50	<0.5	<0.5	<0.5	<0.5
	12/29/00	<50	<0.5	<0.5	<0.5	<0.5
	12/21/01	<50	<0.5	<0.5	<0.5	<0.5
	9/30/02	<50	<0.5	<0.5	<0.5	<1
	12/21/02	<50	<0.5	<0.5	<0.5	<1



EXPLANATION:

Scale: 1"=2000'

0 1000' 2000'

Base Map Reference: U.S.G.S. San Leandro 7.5 Minute Topographic, Quadrangle.

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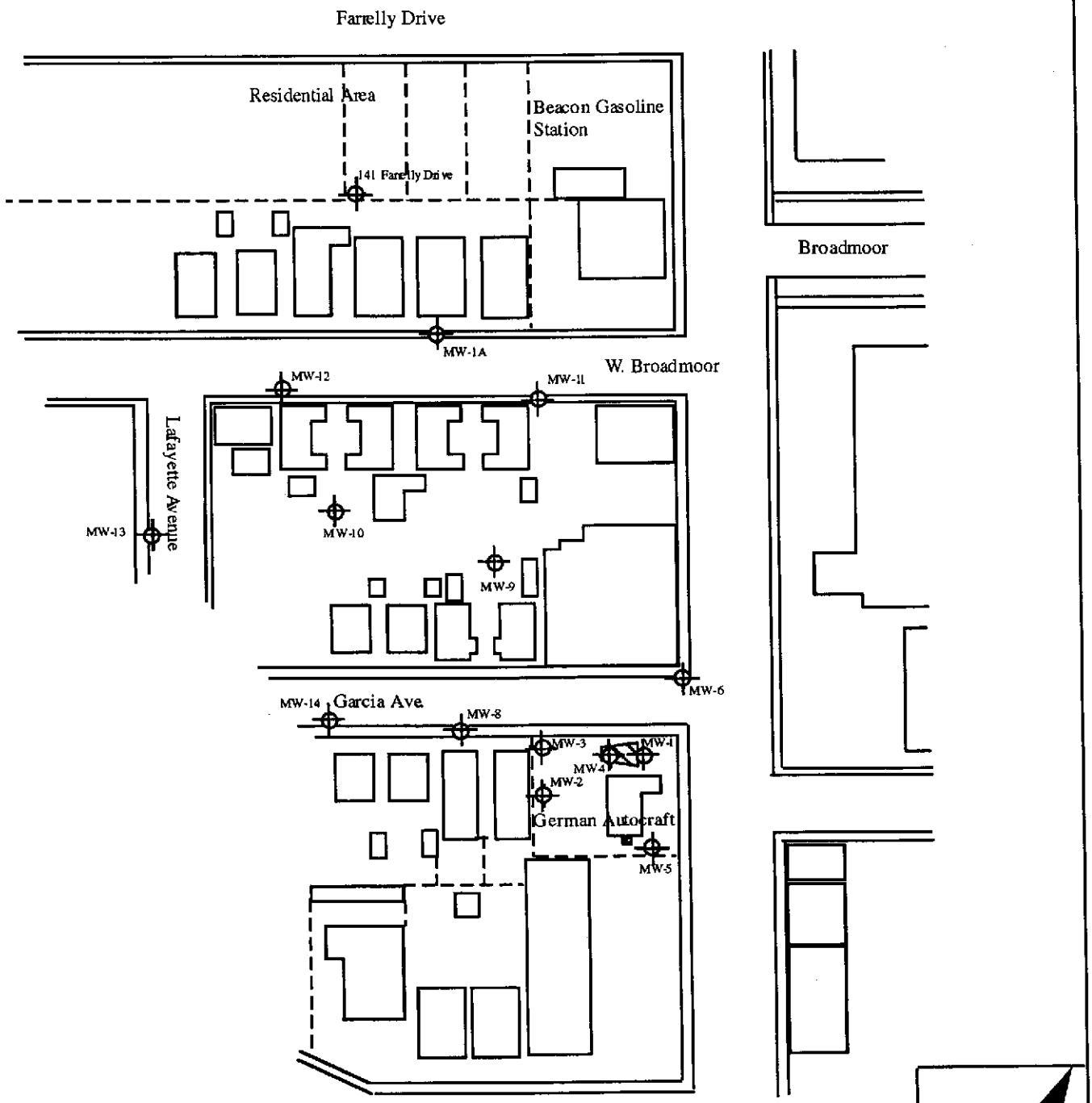
ENVIRONMENTAL TESTING & MGMT
111 N. MARKET ST. SUITE 600
SAN JOSE, CALIFORNIA 95113

LOCATION MAP
German Autocraft
301 East 14th Street
San Leandro, California

Figure 1

Project No. 94-52
Date: 3/97

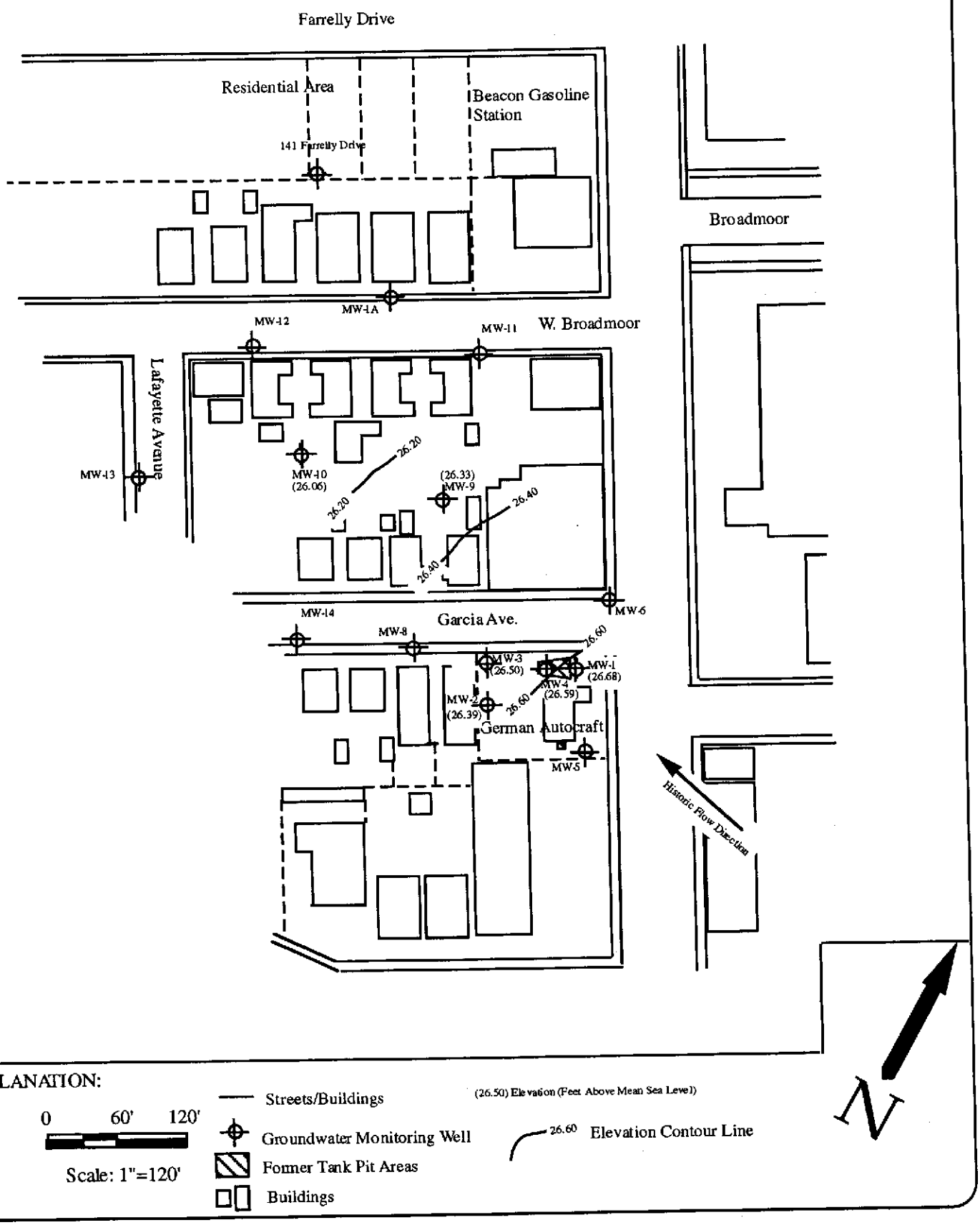


ENVIRONMENTAL TESTING
1792 ROGERS AVENUE
SAN JOSE, CA 95112

German Autocraft
301 East 14th Street
San Leandro, California

Figure 2

Date: 3/01

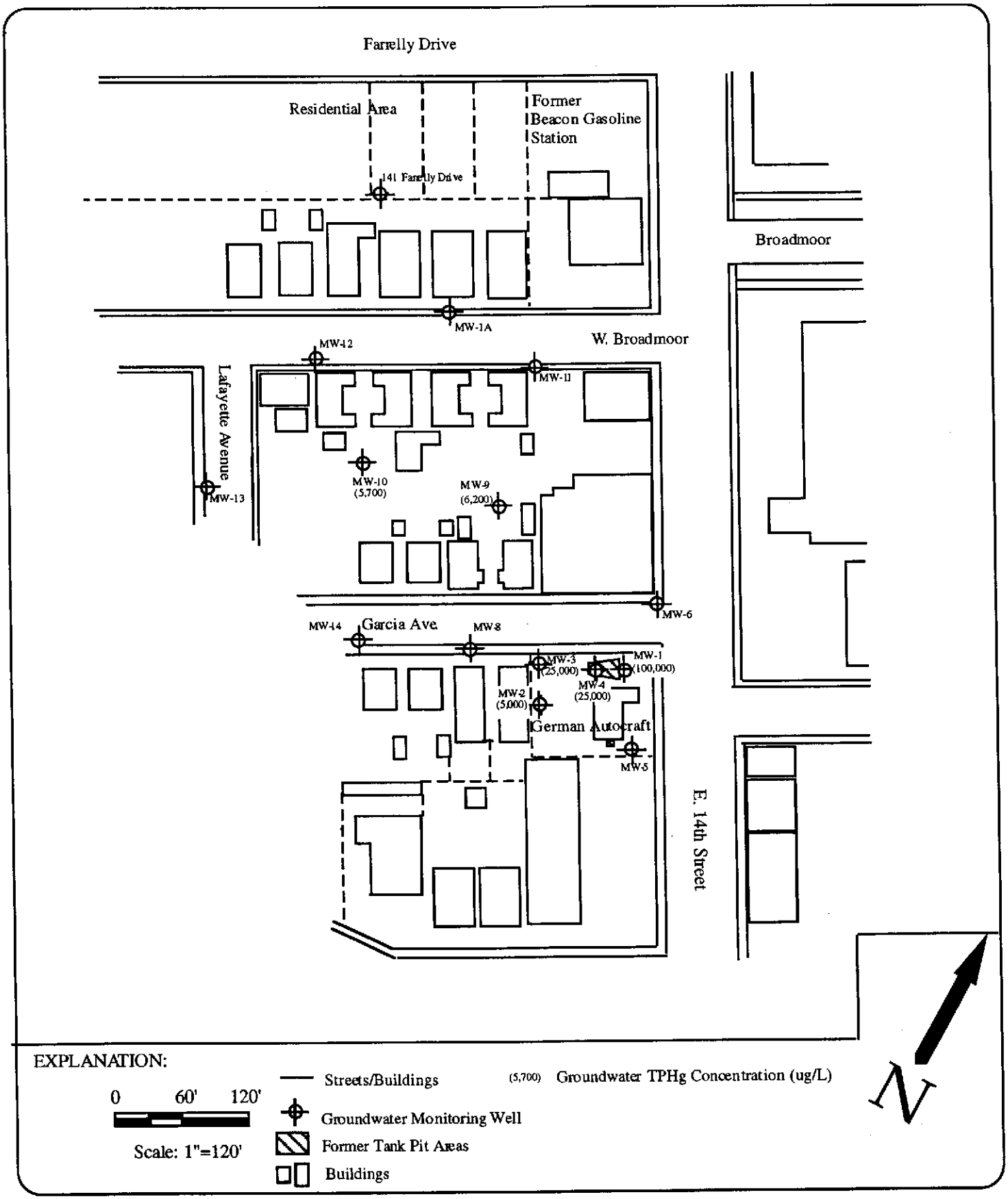


ENVIRONMENTAL TESTING
1792 ROGERS AVENUE
SAN JOSE, CA 95112

Groundwater Potentiometric Elevation Map (3/31/03)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 3

Date: 5/03

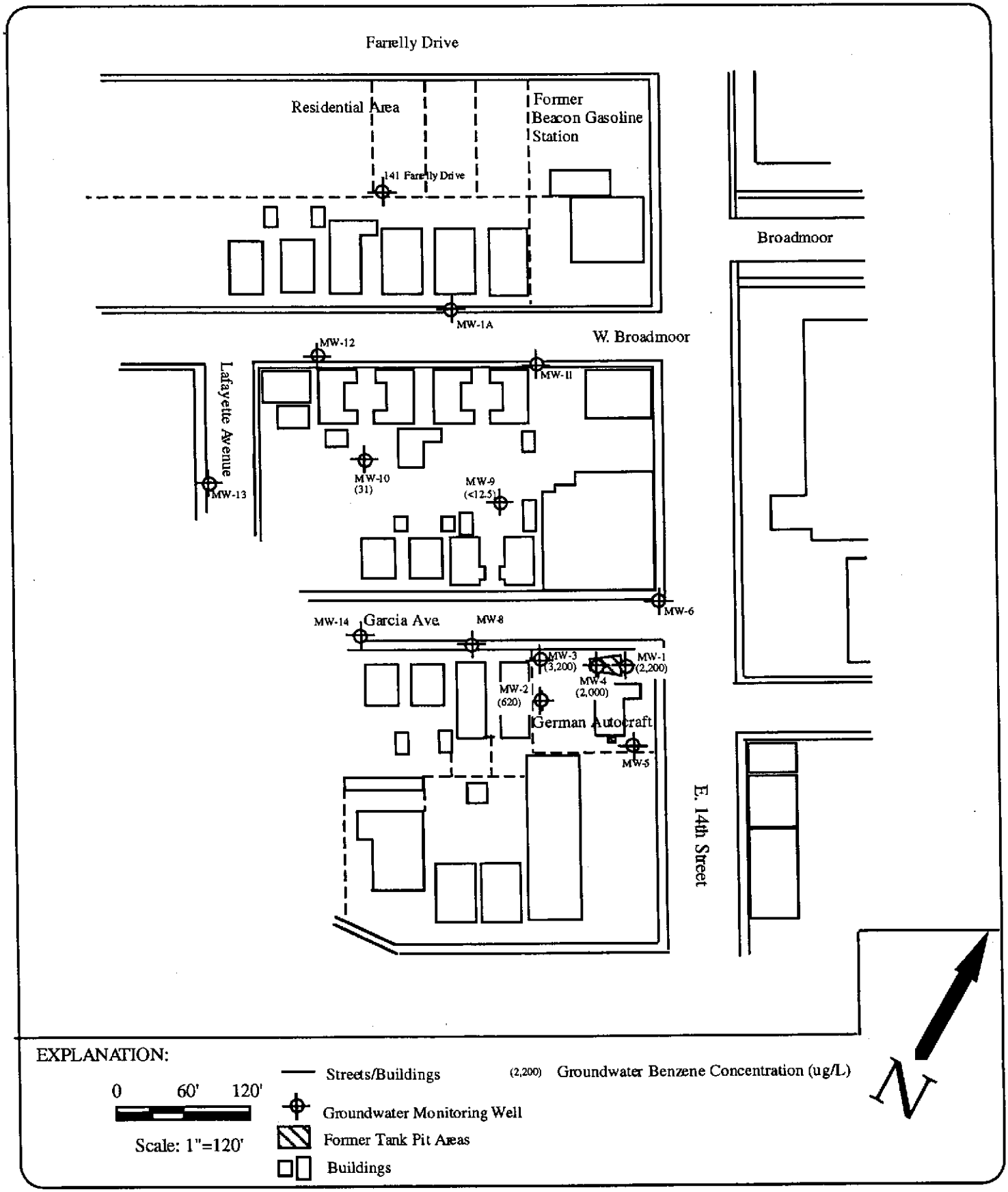


ENVIRONMENTAL TESTING
1792 ROGERS AVENUE
SAN JOSE, CA 95112
(408) 453-1800 FAX: (408) 453-1801

VICINITY MAP WITH GROUNDWATER
TPHg CONCENTRATIONS (3/31/03)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 4

Date: 5/03



ENVIRONMENTAL TESTING
1792 ROGERS AVENUE
SAN JOSE, CA 95112
(408) 453-1800 FAX: (408) 453-1801

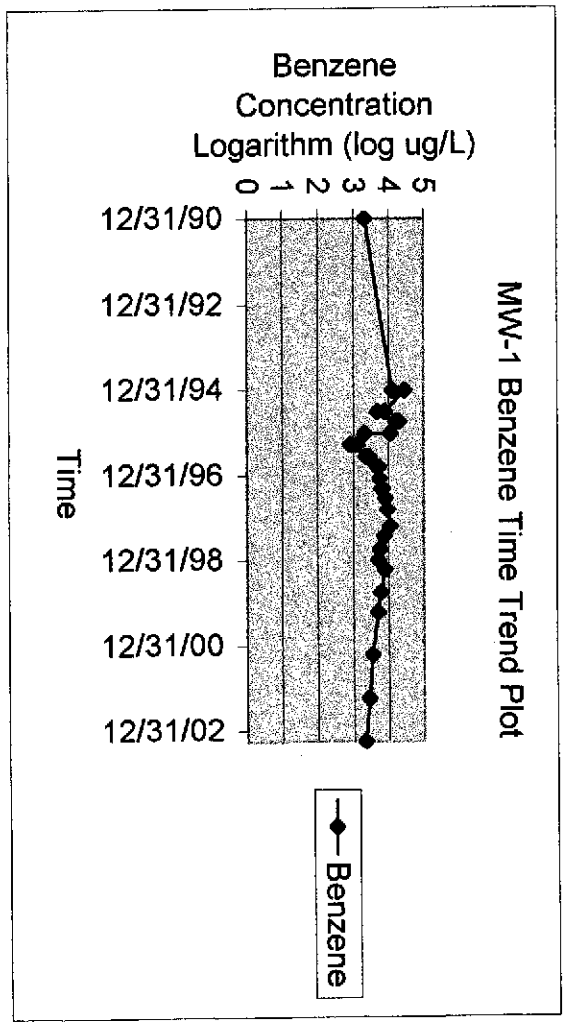
VICINITY MAP WITH GROUNDWATER
BENZENE CONCENTRATIONS (3/31/03)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 5

Date: 5/03

Figure 6a: Time Trend Plots for MW-1
German Autocraft-301 E. 14th Street, San Leandro, CA
Note: Values may represent the average of method detection limit and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/31/90	51,000	2,200	4.70757	3.342423
1/6/95	110,000	13,000	5.041393	4.113943
1/6/95	580,000	29,000	5.763428	4.462398
7/6/95	49,000	8,000	4.690196	3.90309
7/6/95	47,000	4,800	4.672098	3.681241
10/2/95	120,000	16,000	5.079181	4.20412
10/2/95	160,000	20,000	5.20412	4.30103
1/12/96	1,100,000	11,000	6.041393	4.041393
1/12/96	98,000	2,100	4.991226	3.322219
4/13/96	53,000	1,300	4.724276	3.113943
4/13/96	58,000	820	4.763428	2.913814
7/26/96	91,000	2,900	4.959041	3.462398
7/26/96	67,000	2,300	4.826075	3.361728
10/21/96	210,000	4,800	5.322219	3.681241
10/21/96	210,000	5,400	5.322219	3.732394
1/28/97	120,000	5,600	5.079181	3.748188
1/28/97	130,000	5,500	5.113943	3.740363
4/25/97	180,000	6,900	5.255273	3.838849
4/25/97	170,000	6,500	5.230449	3.812913
7/17/97	220,000	8,300	5.342423	3.919078
10/21/97	240,000	9,400	5.380211	3.973128
3/10/98	120,000	11,000	5.079181	4.041393
6/6/98	110,000	7,600	5.041393	3.880814
9/30/98	140,000	5,800	5.146128	3.763428
12/30/98	78,000	5,200	4.892095	3.716003
3/23/99	250,000	8,000	5.39794	3.90309
9/29/99	140,000	6,100	5.146128	3.78533
3/18/00	120,000	5,100	5.079181	3.70757
3/20/01	120,000	3,600	5.079181	3.556303
3/28/02	100,000	2,800	5	3.447158
3/31/03	100,000	2,200	5	3.342423


Benzene
Concentration
Logarithm (log ug/L)
0 1 2 3 4 5
12/31/90
12/31/92
12/31/94
12/31/96
12/31/98
12/31/00
12/31/02
Time
MW-1 Benzene Time Trend Plot
Benzene

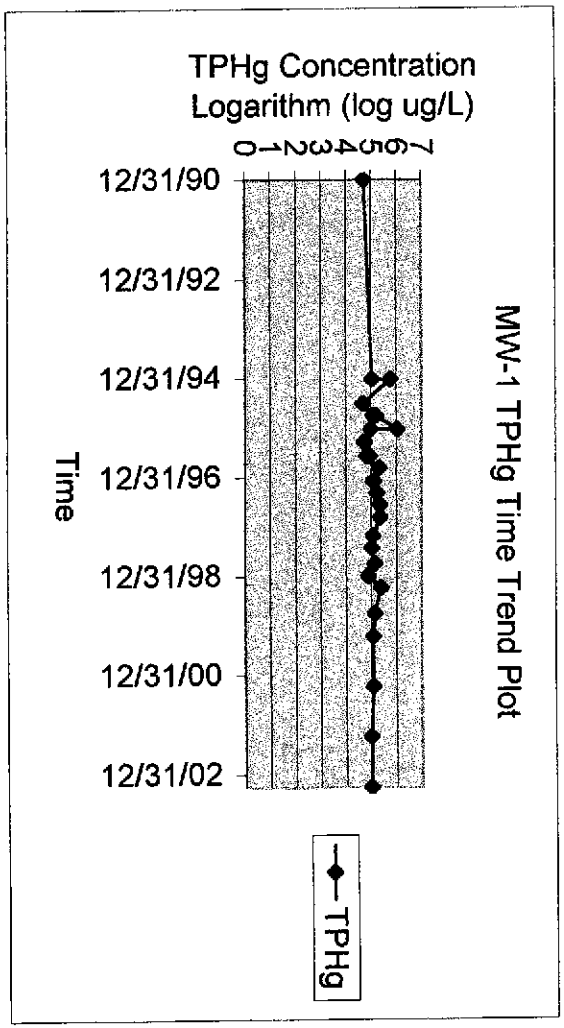

TPHg Concentration
Logarithm (log ug/L)
0 1 2 3 4 5 6 7
12/31/90
12/31/92
12/31/94
12/31/96
12/31/98
12/31/00
12/31/02
Time
MW-1 TPHg Time Trend Plot
TPHg

Figure 6b: Time Trend Plots for MW-2
German Autocraft - 301 E. 14th Steet, San Leandro, CA
Note: Values may represent the average of method detection limit and zero for non-detected results.

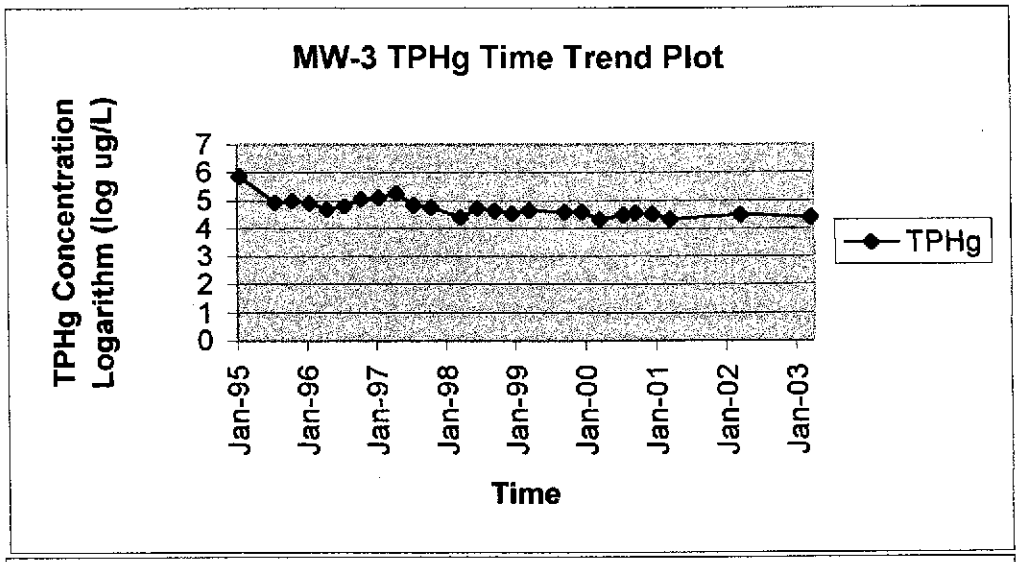
Date	TPHg	Benzene	logTPHg	logBenzene
1/6/95	980,000	9,400	5.991226	3.973128
7/6/95	71,000	5,300	4.851258	3.724276
10/2/95	40,000	2,900	4.60206	3.462398
1/12/96	260,000	2,600	5.414973	3.414973
4/13/96	30,000	1,900	4.477121	3.278754
7/26/96	180,000	1,400	5.255273	3.146128
10/21/96	62,000	2,100	4.792392	3.322219
1/28/97	46,000	1,500	4.662758	3.176091
4/25/97	23,000	790	4.361728	2.897627
7/17/97	95,000	2,200	4.977724	3.342423
10/21/97	31,000	2,000	4.491362	3.30103
3/10/98	19,000	730	4.278754	2.863323
6/6/98	16,000	670	4.20412	2.826075
9/30/98	24,000	600	4.380211	2.778151
12/30/98	9,300	510	3.968483	2.70757
3/23/99	5,700	580	3.755875	2.763428
9/29/99	17,000	880	4.230449	2.944483
12/29/99	11,000	800	4.041393	2.90309
3/18/00	11,000	790	4.041393	2.897627
7/18/00	10,000	560	4	2.748188
9/26/00	6,800	450	3.832509	2.653213
12/28/00	12,000	540	4.079181	2.732394
3/20/01	3,500	230	3.544068	2.361728
3/28/02	7,000	570	3.845098	2.755875
3/31/03	5,000	620	3.69897	2.792392

MW-2 TPHg Time Trend Plot
TPHg Concentration Logarithm (log ug/L)
8
6
4
2
0
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Time
TPHg

MW-2 Benzene Time Trend Plot
Benzene Concentration Logarithm (log ug/L)
5
4
3
2
1
0
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Time
Benzene

Figure 6c: Time Trend Plots for MW-3
German Autocraft - 301 E. 14th Street, San Leandro, CA
Note: Values may represent the average of method detection limit and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
1/6/95	740,000	11,000	5.869232	4.041393
7/6/95	86,000	12,000	4.934498	4.079181
10/2/95	100,000	15,000	5	4.176091
1/12/96	84,000	6,500	4.924279	3.812913
4/13/96	48,000	7,600	4.681241	3.880814
7/26/96	62,000	6,400	4.792392	3.80618
10/21/96	110,000	5,400	5.041393	3.732394
1/28/97	130,000	5,500	5.113943	3.740363
4/25/97	180,000	6,900	5.255273	3.838849
7/17/97	69,000	5,100	4.838849	3.70757
10/21/97	58,000	4,300	4.763428	3.633468
3/10/98	25,000	3,000	4.39794	3.477121
6/6/98	52,000	4,400	4.716003	3.643453
9/30/98	42,000	4,300	4.623249	3.633468
12/30/98	34,000	4,200	4.531479	3.623249
3/23/99	44,000	3,500	4.643453	3.544068
9/29/99	39,000	6,000	4.591065	3.778151
12/29/99	39,000	4,600	4.591065	3.662758
3/18/00	21,000	3,100	4.322219	3.491362
7/18/00	30,000	5,000	4.477121	3.69897
9/26/00	36,000	5,300	4.556303	3.724276
12/28/00	33,000	4,700	4.518514	3.672098
3/20/01	21,000	2,000	4.322219	3.30103
3/28/02	31,000	4,400	4.491362	3.643453
3/31/03	25,000	3,200	4.39794	3.50515


MW-3 TPHg Time Trend Plot
TPHg Concentration Logarithm (log ug/L)
7
6
5
4
3
2
1
0
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Time
TPHg

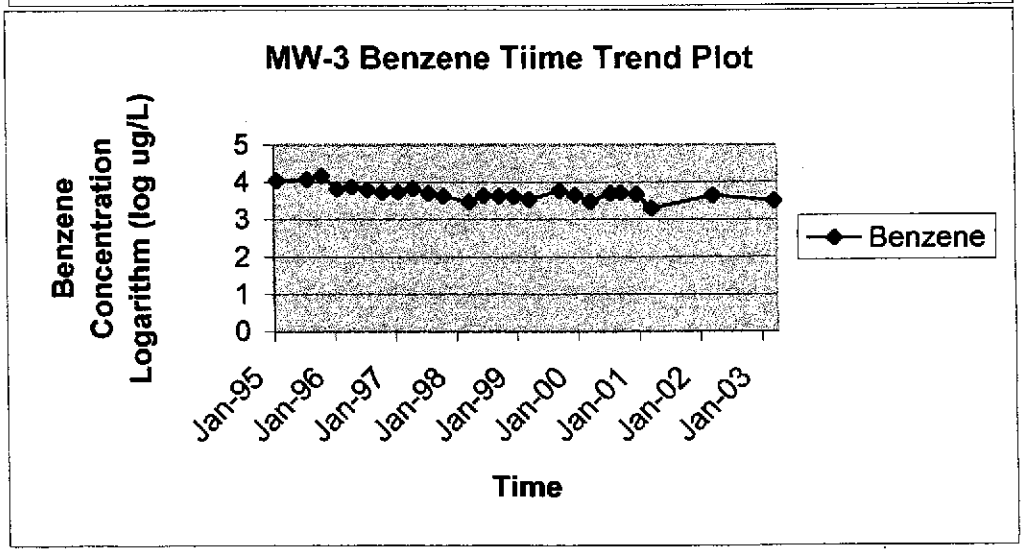
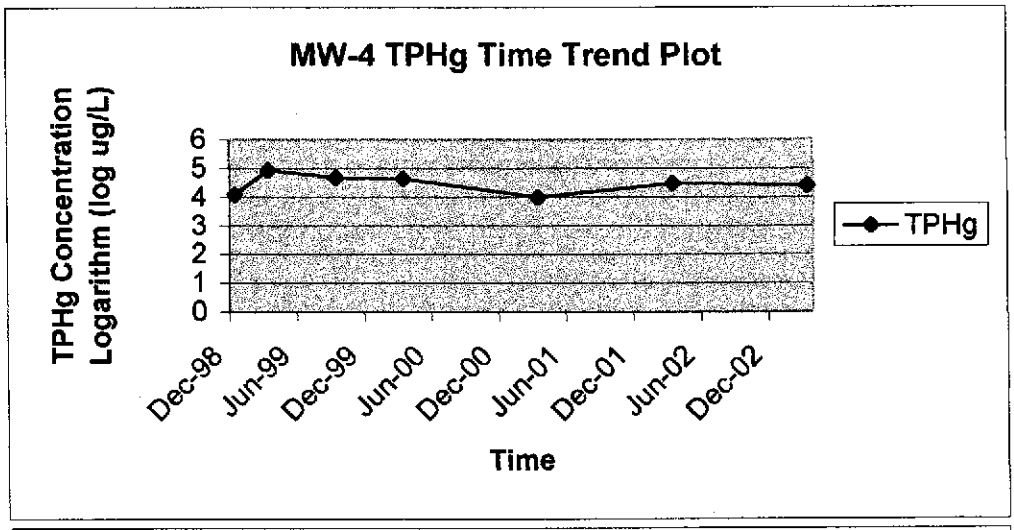

MW-3 Benzene Tiime Trend Plot
Benzene Concentration Logarithm (log ug/L)
5
4
3
2
1
0
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Time
Benzene

Figure 6d: Time Trend Plots for MW-4
German Autocraft - 301 E. 14th Street, San Leandro, CA
Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/30/98	12,000	1,200	4.079181	3.079181
3/23/99	89,000	5,900	4.94939	3.770852
9/29/99	48,000	5,300	4.681241	3.724276
3/18/00	44,000	4,500	4.643453	3.653213
3/20/01	10,000	700	4	2.845098
3/28/02	30,000	3,700	4.477121	3.568202
3/31/03	25,000	2,000	4.39794	3.30103



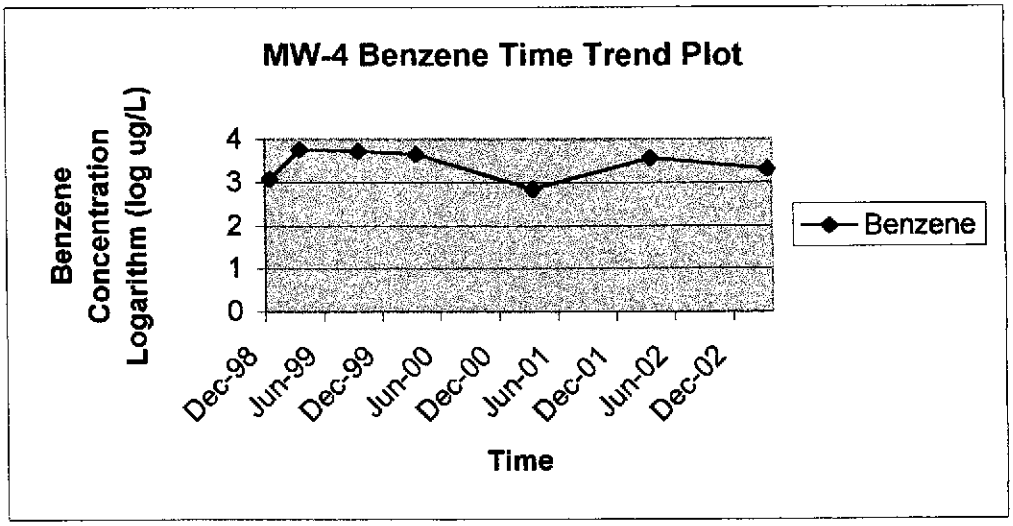
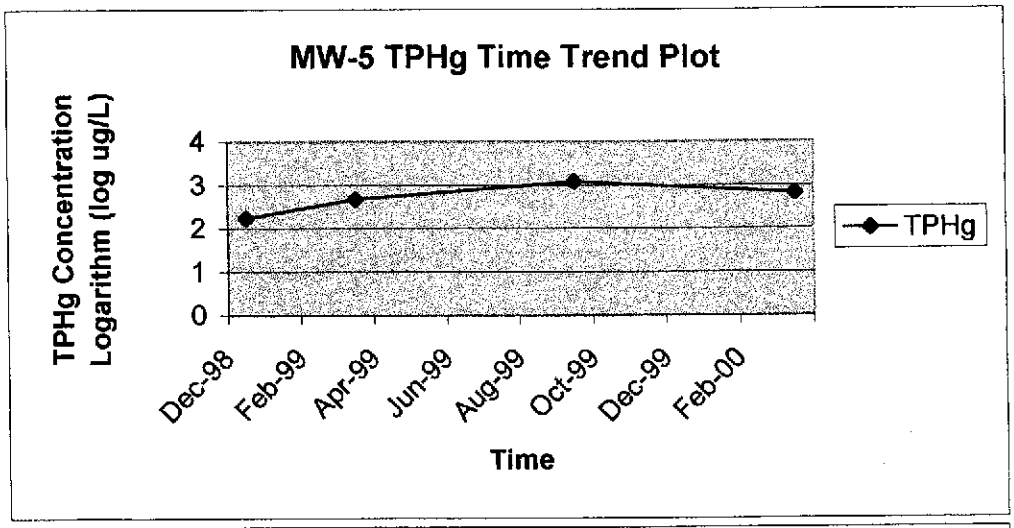


Figure 6e: Time Trend Plots for MW-5
German Autocraft - 301 E. 14th Street, San Leandro, CA
Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/30/98	170	1.1	2.230449	0.041393
3/22/99	470	3.8	2.672098	0.579784
9/29/99	1,200	13	3.079181	1.113943
3/18/00	660	5.5	2.819544	0.740363



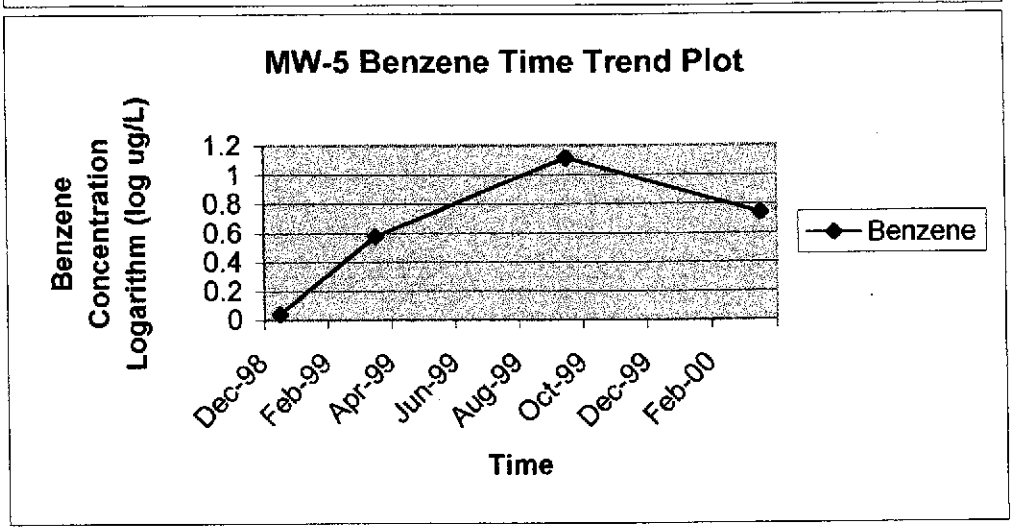
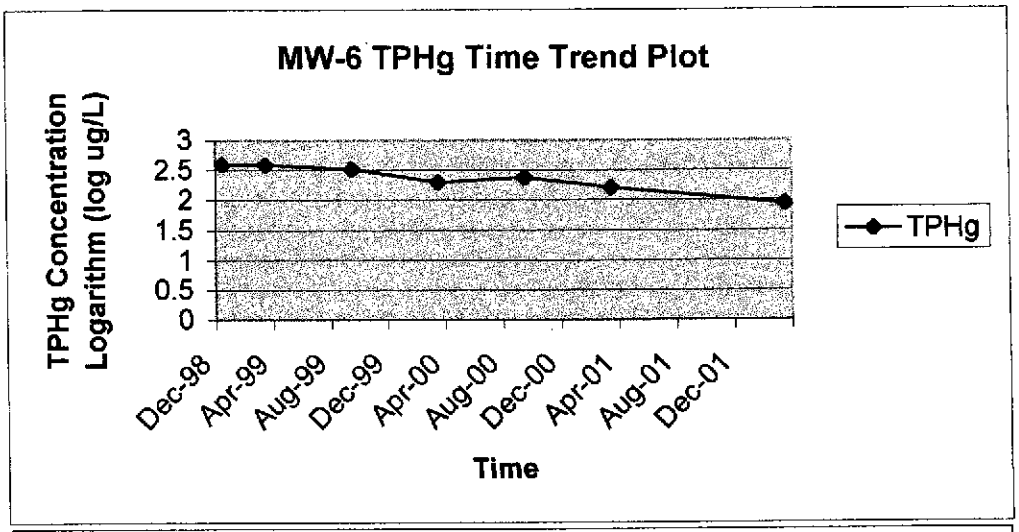


Figure 6f: Time Trend Plots for MW-6
German Autocraft - 301 E. 14th Street, San Leandro, CA
Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/30/98	400	1	2.60206	0
3/22/99	390	0.25	2.591065	-0.60206
9/30/99	330	1.8	2.518514	0.255273
3/18/00	200	1.3	2.30103	0.113943
9/26/00	240	1.5	2.380211	0.176091
3/20/01	160	0.25	2.20412	-0.60206
3/28/02	88	0.89	1.944483	-0.05061



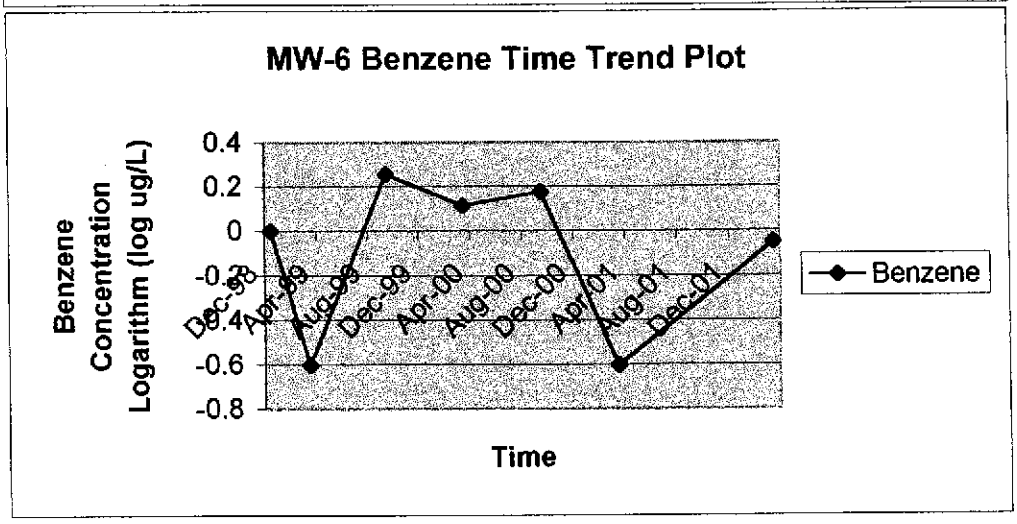
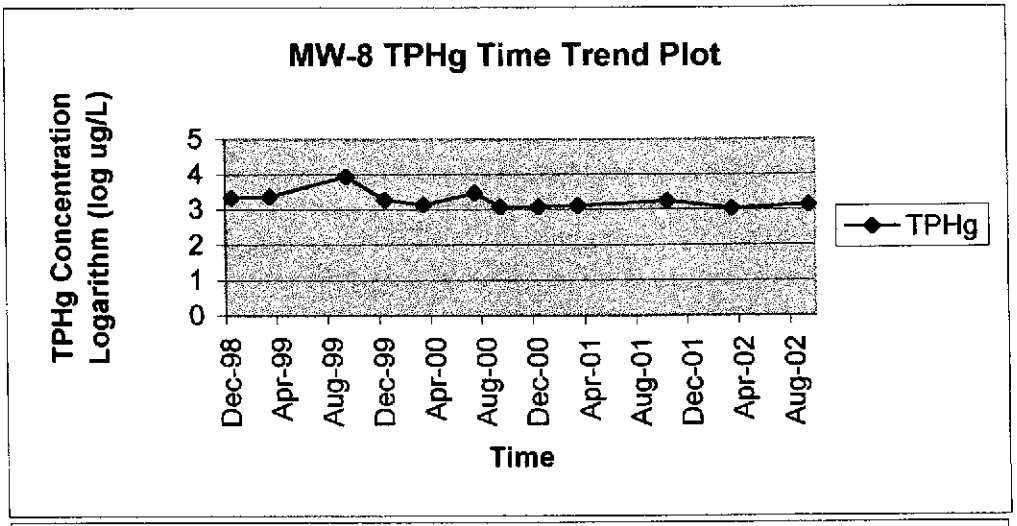


Figure 6g: Time Trend Plots for MW-8
German Autocraft - 301 E. 14th Street, San Leandro, CA
Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/30/98	2,200	70	3.342423	1.845098
3/23/99	2,300	34	3.361728	1.531479
9/30/99	8,800	140	3.944483	2.146128
12/29/99	1,900	64	3.278754	1.80618
3/18/00	1,400	36	3.146128	1.556303
7/18/00	3,000	67	3.477121	1.826075
9/26/00	1,200	24	3.079181	1.380211
12/28/00	1,200	47	3.079181	1.672098
3/20/01	1,300	7.8	3.113943	0.892095
10/15/01	1,800	28	3.255273	1.447158
3/28/02	1,100	12	3.041393	1.079181
9/30/02	1,400	15	3.146128	1.176091



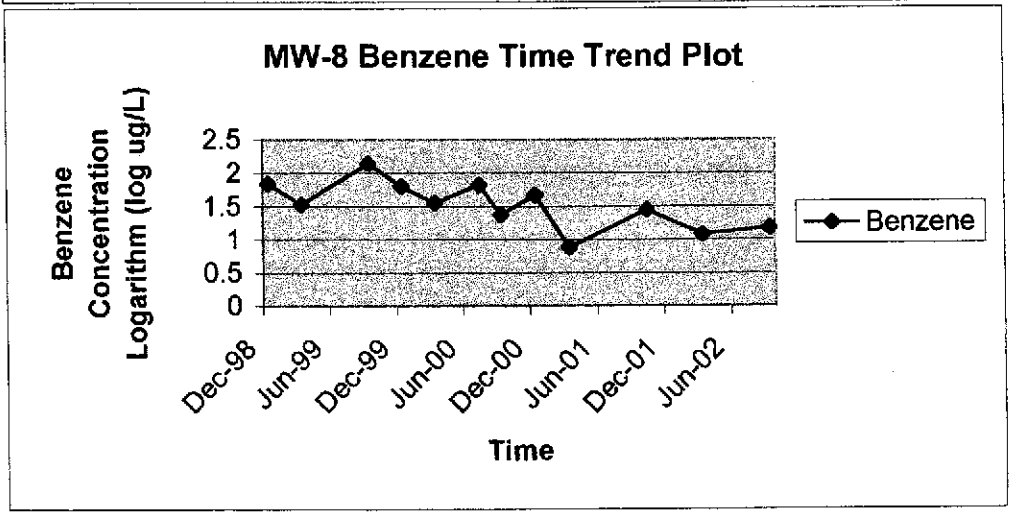
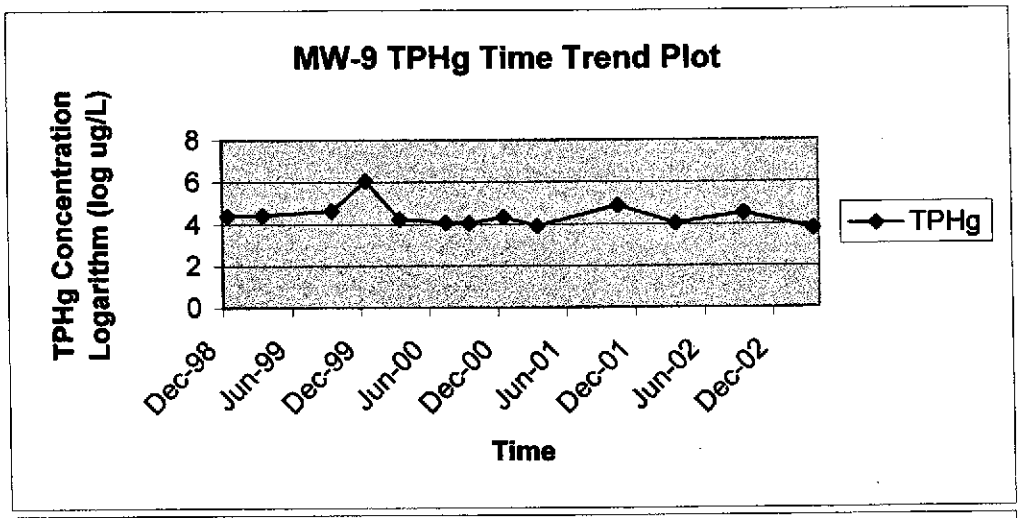


Figure 6h: Time Trend Plots for MW-9
German Autocraft: - 301 E. 14th Street, San Leandro, CA
Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/30/98	25,000	23	4.39794	1.361728
3/23/99	27,000	35	4.431364	1.544068
9/30/99	42,000	140	4.623249	2.146128
12/29/99	1,100,000	1,200	6.041393	3.079181
3/18/00	17,000	89	4.230449	1.94939
7/18/00	12,000	39	4.079181	1.591065
9/26/00	11,000	19	4.041393	1.278754
12/28/00	22,000	100	4.342423	2
3/20/01	8,200	40	3.913814	1.60206
10/5/01	77,000	50	4.886491	1.69897
3/28/02	11,000	34	4.041393	1.531479
9/30/02	34,000	62.5	4.531479	1.79588
3/31/03	6,200	6.25	3.792392	0.79588



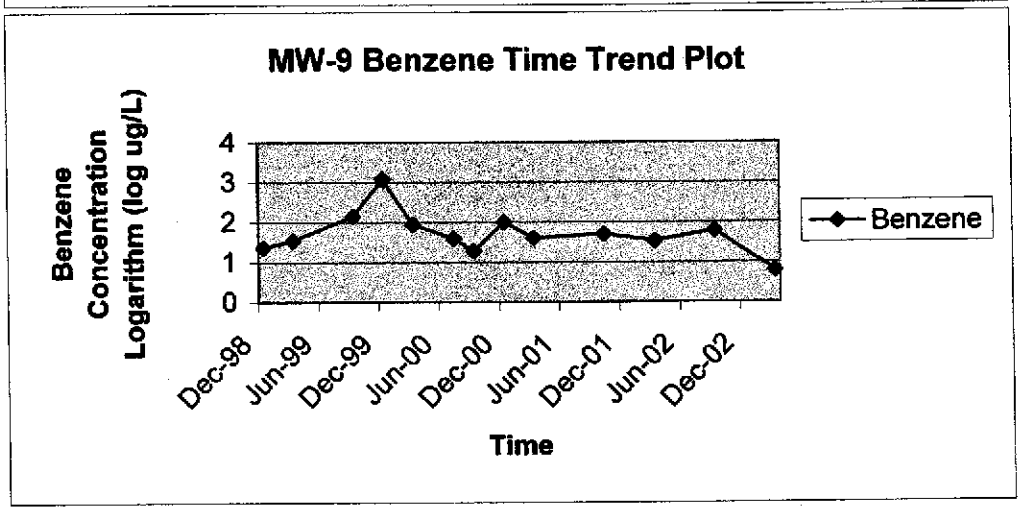
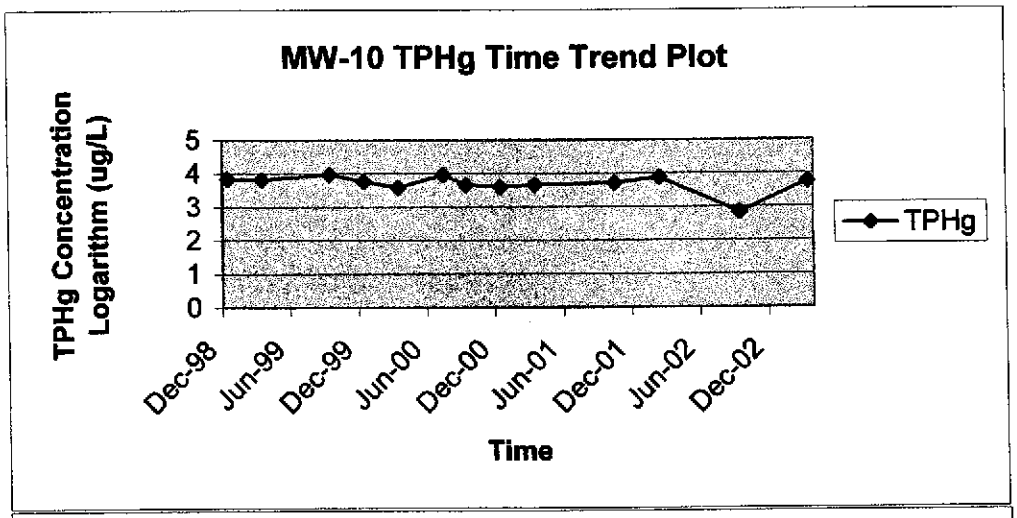


Figure 6i: Time Trend Plots for MW-10
German Autocraft - 301 E. 14th Street, San Leandro, CA
Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/30/98	6,900	130	3.838849	2.113943
3/23/99	6,600	150	3.819544	2.176091
9/30/99	9,300	60	3.968483	1.778151
12/29/99	5,800	87	3.763428	1.939519
3/18/00	3,800	180	3.579784	2.255273
7/18/00	9,100	120	3.959041	2.079181
9/26/00	4,500	22	3.653213	1.342423
12/28/00	3,900	55	3.591065	1.740363
3/20/01	4,500	48	3.653213	1.681241
10/5/01	5,200	70	3.716003	1.845098
2/28/02	7,400	45	3.869232	1.653213
9/30/02	670	54	2.826075	1.732394
3/31/03	5,700	31	3.755875	1.491362



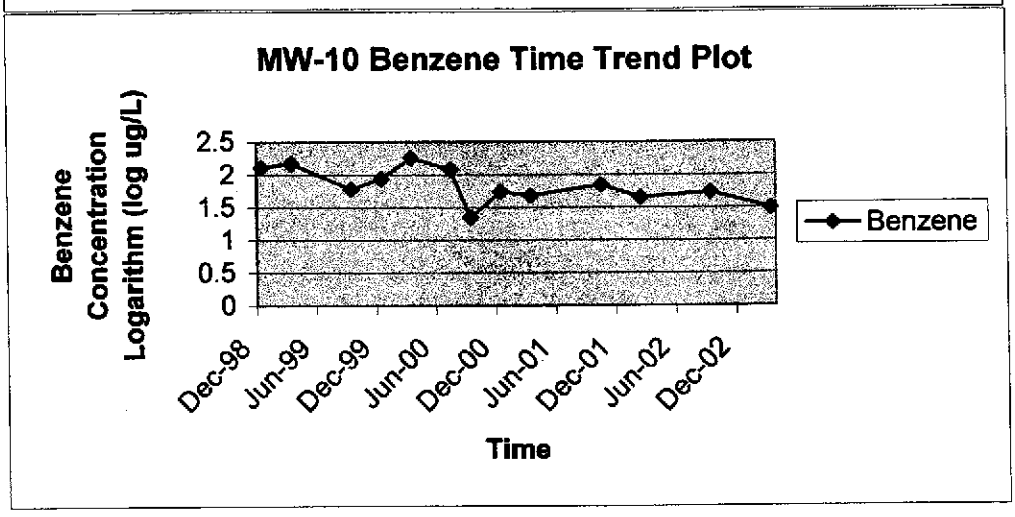
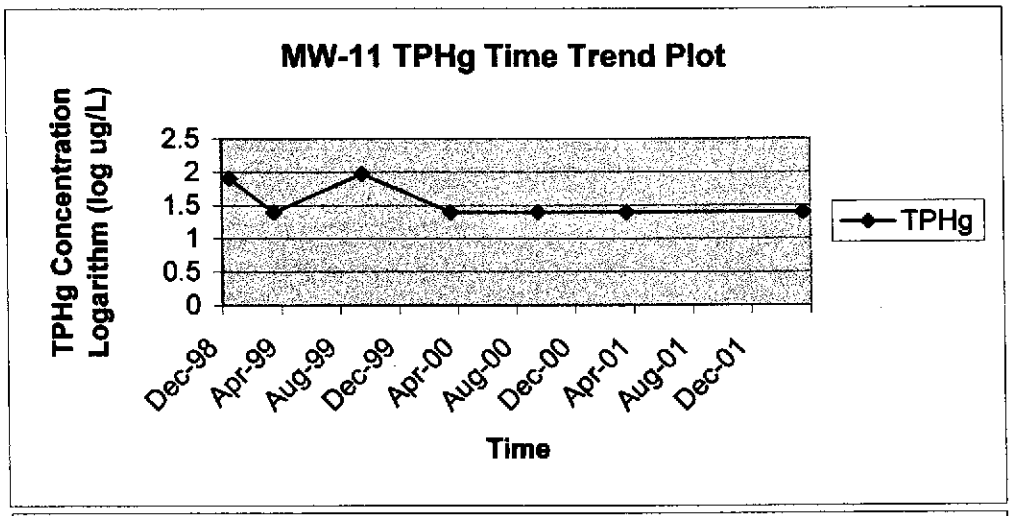


Figure 6j: Time Trend Plots for MW-11
German Autocraft - 301 E. 14th Street, San Leandro, CA
Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/30/98	80	0.25	1.90309	-0.60206
3/23/99	25	0.25	1.39794	-0.60206
9/30/99	94	0.25	1.973128	-0.60206
3/18/00	25	0.25	1.39794	-0.60206
9/26/00	25	0.25	1.39794	-0.60206
3/20/01	25	0.25	1.39794	-0.60206
3/28/02	25	0.25	1.39794	-0.60206



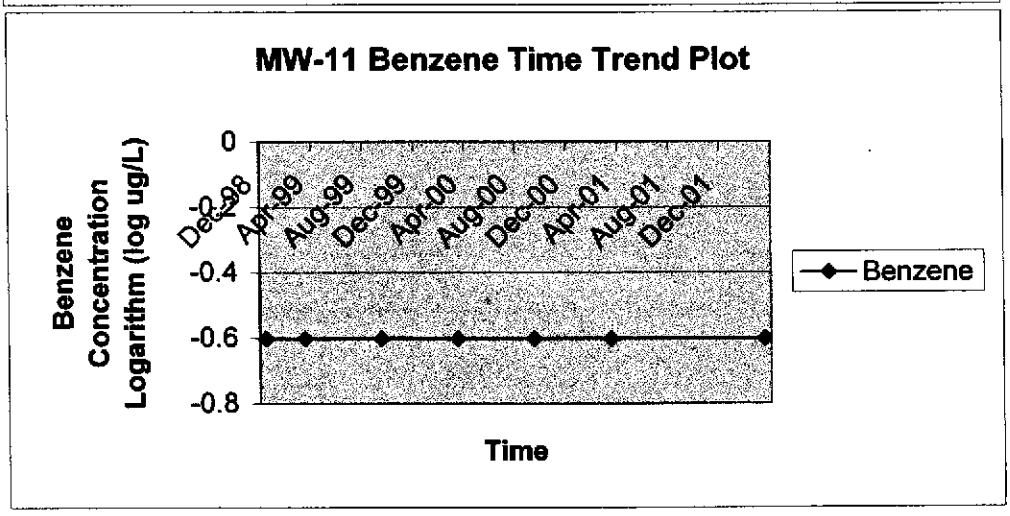
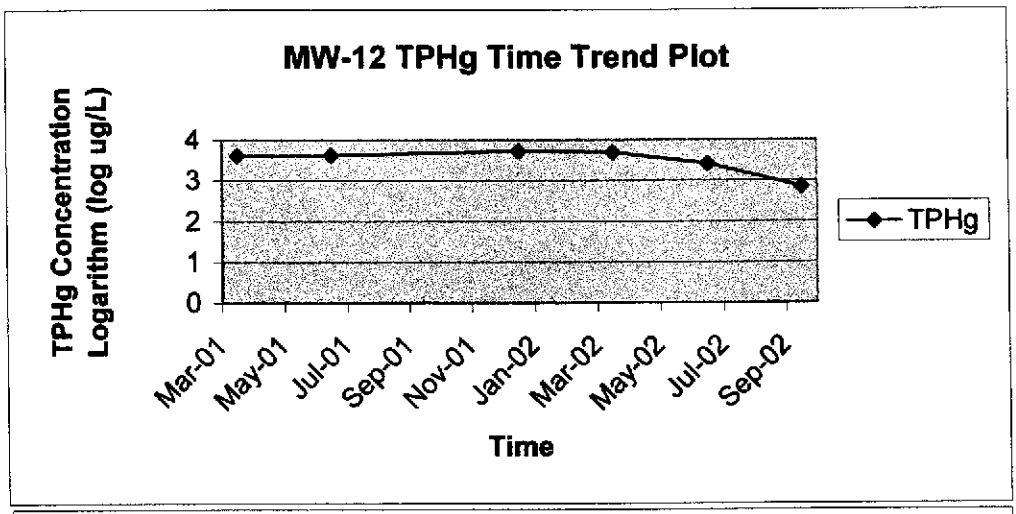


Figure 6k: Time Trend Plots for MW-12
German Autocraft - 301 E. 14th Street, San Leandro, CA
Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
3/20/01	4,100	28	3.612784	1.447158
6/29/01	4,200	26	3.623249	1.414973
12/21/01	5,300	9.7	3.724276	0.986772
3/28/02	4,900	20	3.690196	1.30103
6/28/02	2,600	29	3.414973	1.462398
9/30/02	700	16	2.845098	1.20412



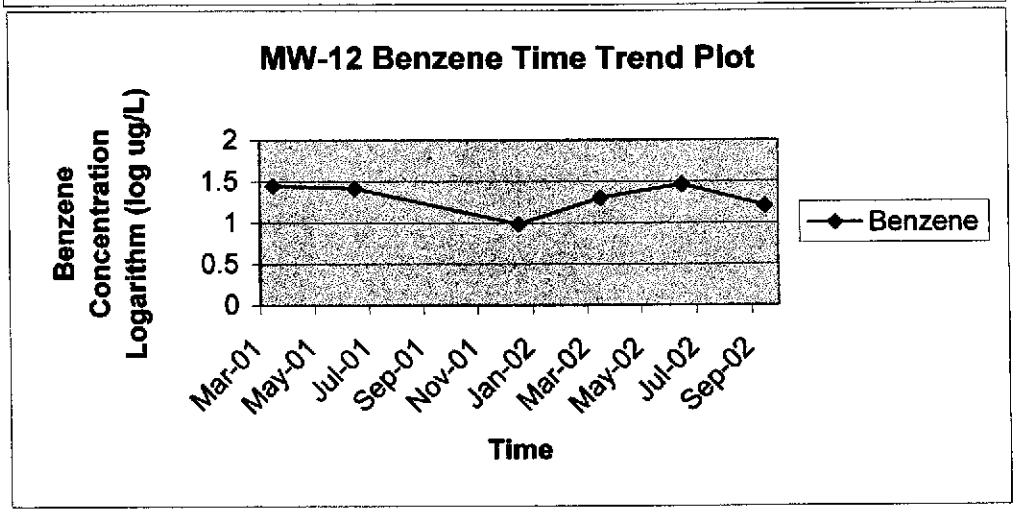
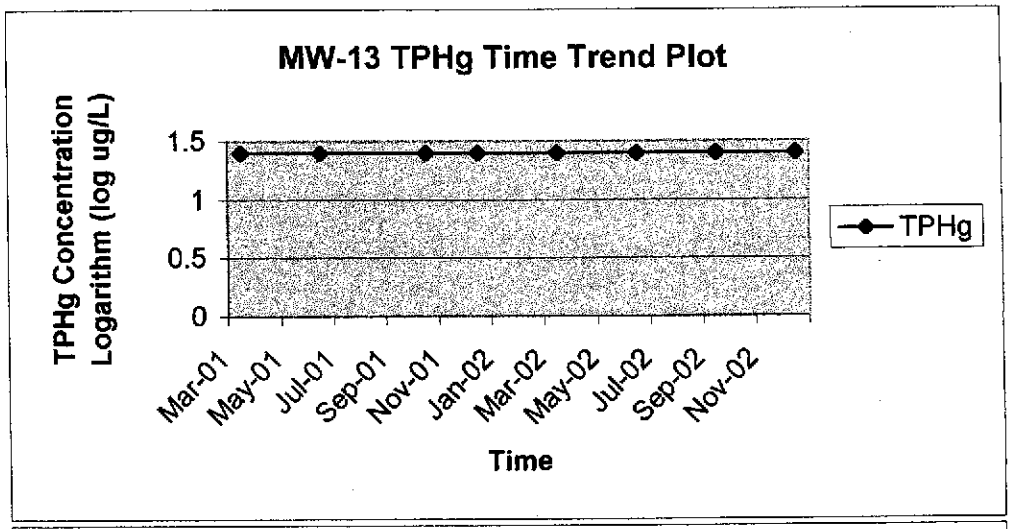


Figure 7I: Time Trend Plots for MW-13
German Autocraft - 301 E. 14th Street, San Leandro, CA
Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
3/20/01	25	0.25	1.39794	-0.60206
6/29/01	25	0.25	1.39794	-0.60206
10/5/01	25	0.25	1.39794	-0.60206
12/21/01	25	0.25	1.39794	-0.60206
3/28/02	25	0.25	1.39794	-0.60206
6/28/02	25	0.25	1.39794	-0.60206
9/30/02	25	0.25	1.39794	-0.60206
12/21/02	25	0.25	1.39794	-0.60206



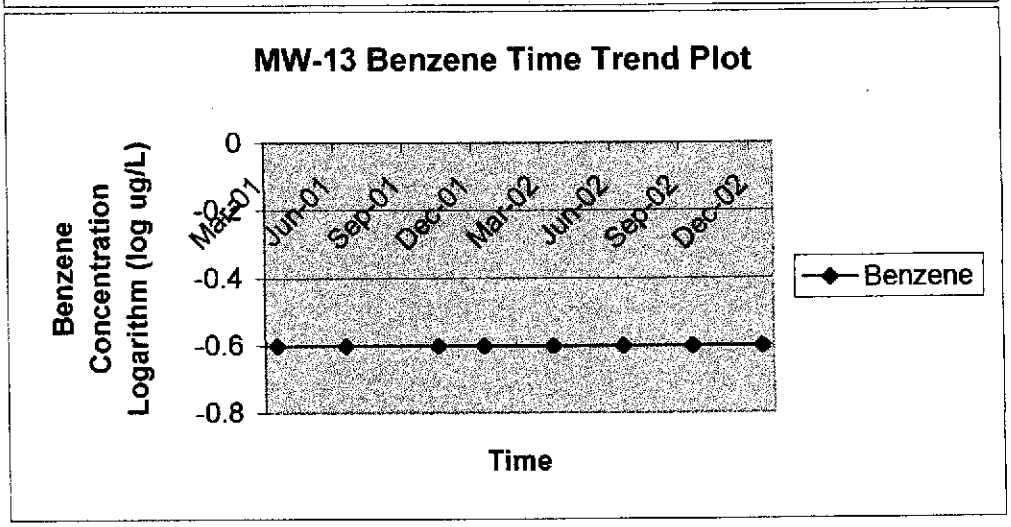
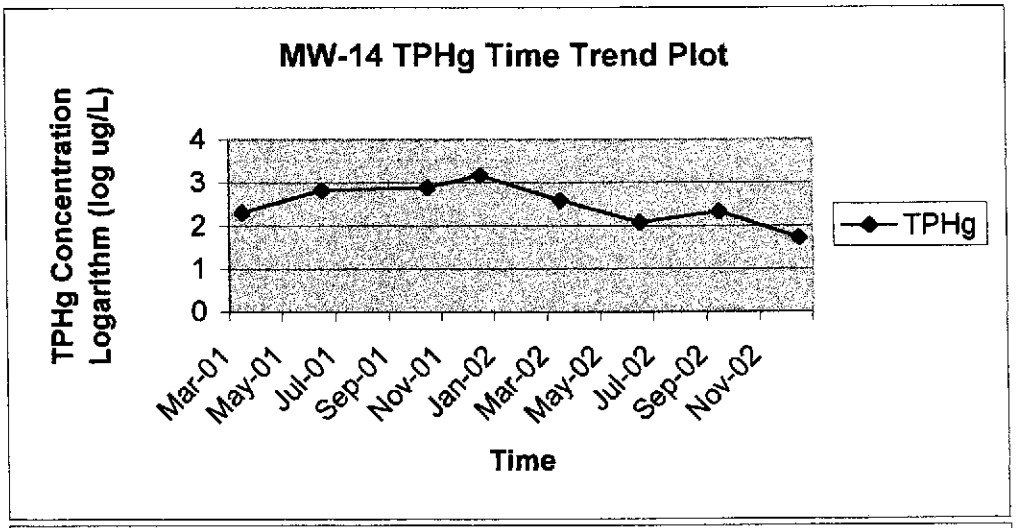


Figure 7m: Time Trend Plots for MW-14
German Autocraft - 301 E. 14th Street, San Leandro, CA
Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
3/20/01	200	0.25	2.30103	-0.60206
6/29/01	660	0.25	2.819544	-0.60206
10/5/01	770	1.7	2.886491	0.230449
12/21/01	1,500	3.1	3.176091	0.491362
3/28/02	390	1.7	2.591065	0.230449
6/28/02	120	0.25	2.079181	-0.60206
9/30/02	210	0.25	2.322219	-0.60206
12/21/02	53	0.25	1.724276	-0.60206



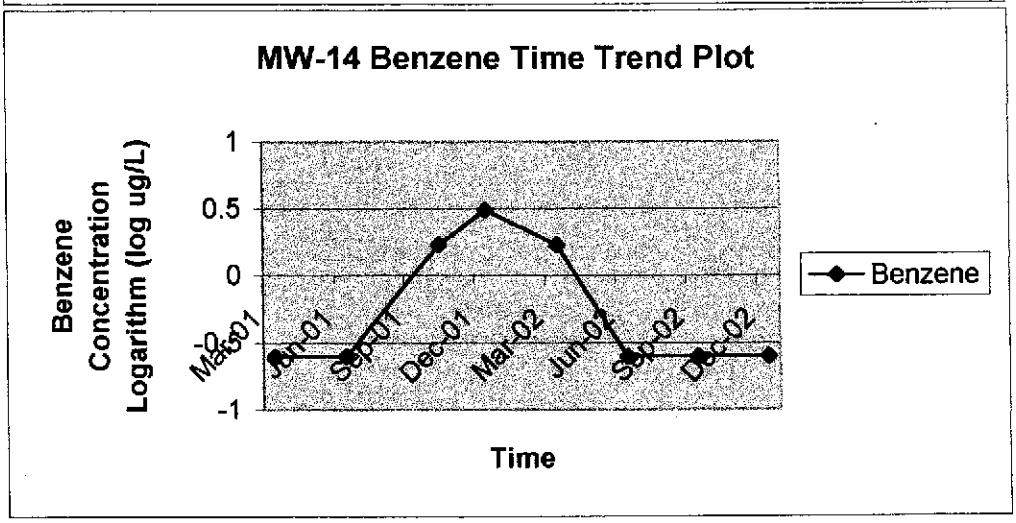
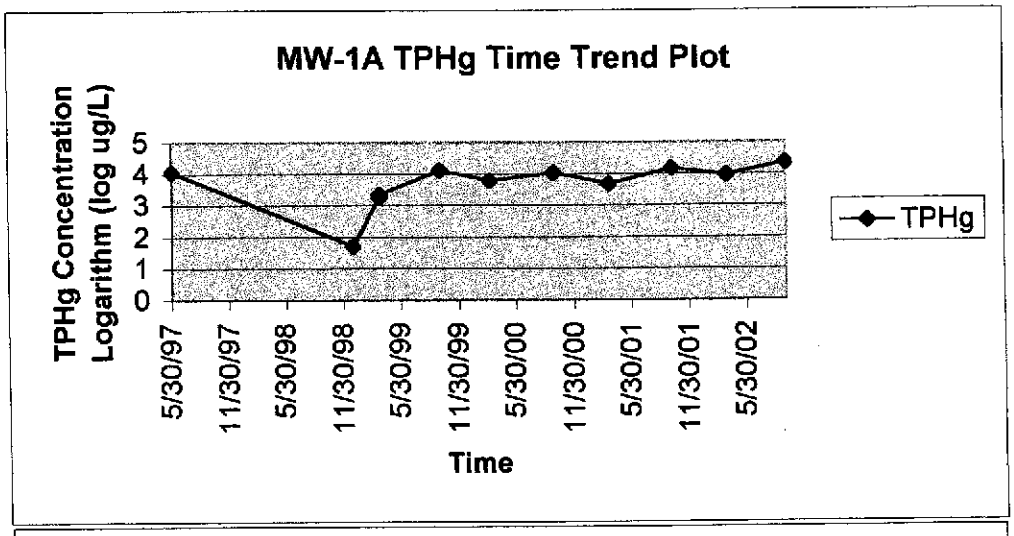


Figure 7n: Time Trend Plots for MW-1A
German Autocraft - 301 E. 14th Street, San Leandro, CA
Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
5/30/97	12,000	18	4.079181	1.255273
12/30/98	51	0.25	1.70757	-0.60206
3/23/99	1,800	4	3.255273	0.60206
3/23/99	2,200	10	3.342423	1
9/30/99	13,000	63	4.113943	1.799341
3/8/00	6,100	36	3.78533	1.556303
9/26/00	11,000	14	4.041393	1.146128
3/20/01	4,800	30	3.681241	1.477121
10/5/01	15,000	76	4.176091	1.880814
3/28/02	9,300	35	3.968483	1.544068
9/30/02	23,000	25	4.361728	1.39794



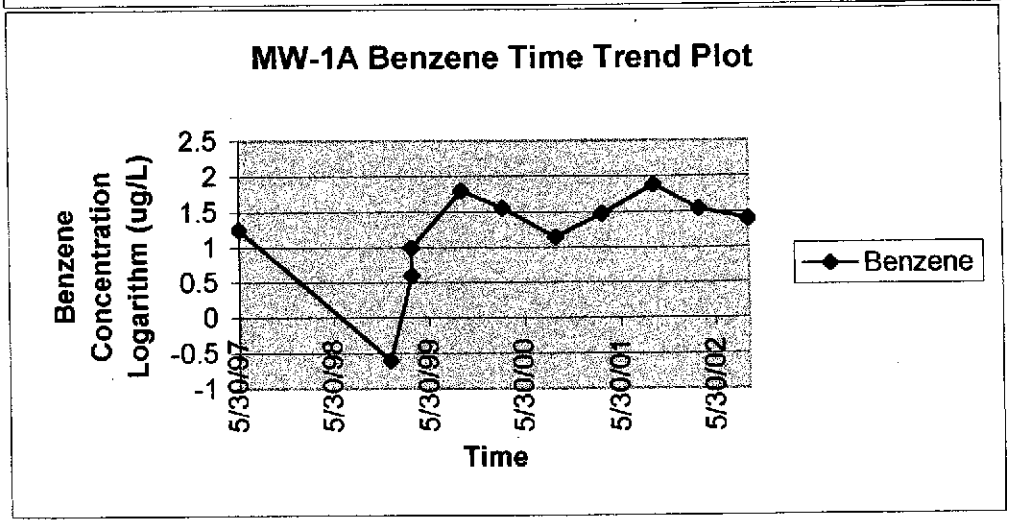
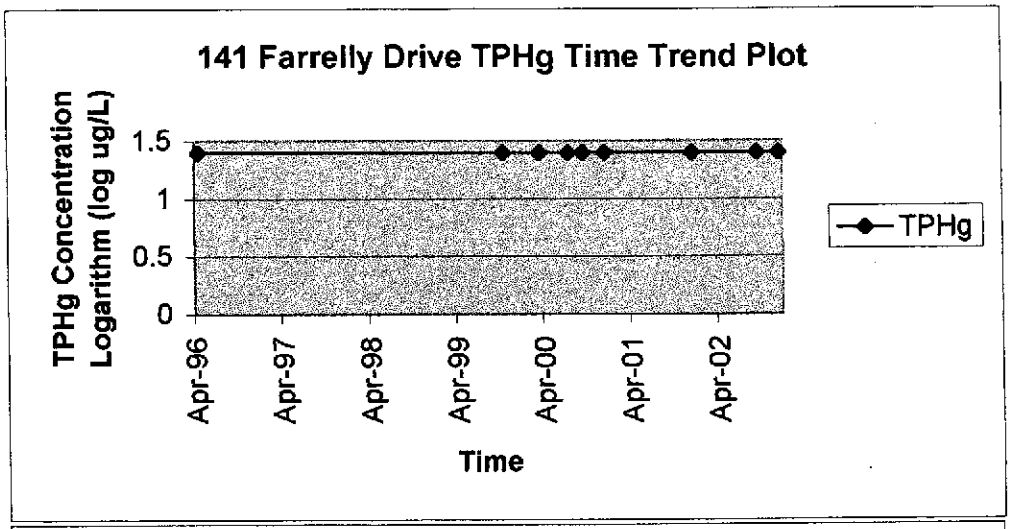
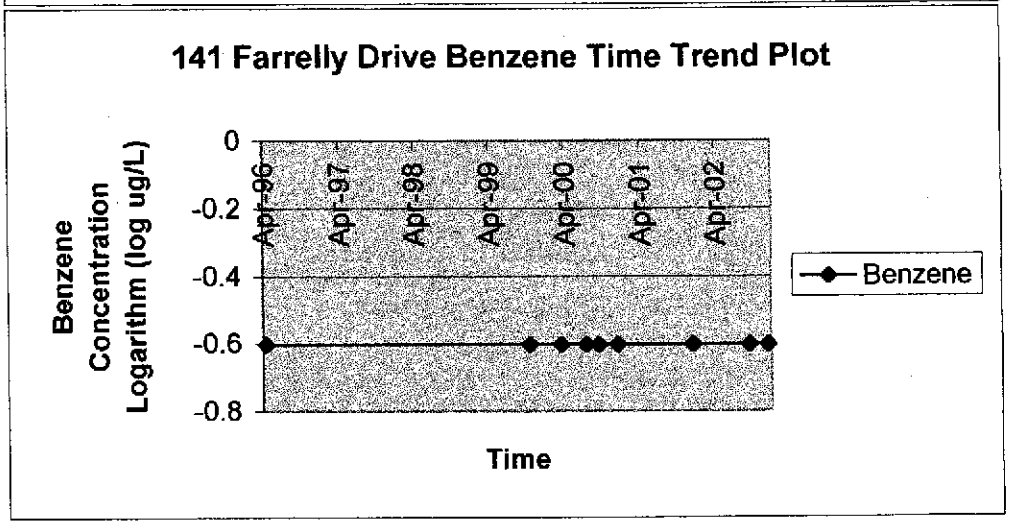


Figure 7o: Time Trend Plots for 141 Farrelly
German Autocraft - 301 14th Street, San Leandro, CA
Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
4/6/96	25	0.25	1.39794	-0.60206
10/2/99	25	0.25	1.39794	-0.60206
3/18/00	25	0.25	1.39794	-0.60206
7/13/00	25	0.25	1.39794	-0.60206
9/26/00	25	0.25	1.39794	-0.60206
12/29/00	25	0.25	1.39794	-0.60206
12/21/01	25	0.25	1.39794	-0.60206
9/30/02	25	0.25	1.39794	-0.60206
12/21/02	25	0.25	1.39794	-0.60206





APPENDIX A: FIELD SAMPLING AND GAUGING PROCEDURES

GROUNDWATER LEVEL MEASURING AND SAMPLING:

Sampling procedures commenced with measuring static water levels in monitoring wells using an electronic water level indicator accurate to 0.01 foot. Groundwater samples were collected using Teflon™ or stainless steel bailers. The bailers were cleaned prior to lowering into the groundwater by washing with Liquinox or laboratory grade detergent, rinsing with tap water, and drying. Floating product thickness was measured by gently lowering a bailer or preferably an interface sampler into the well casing. The liquid level in the sampler was allowed to equilibrate with the liquid level in the well. After raising the sampler, the thickness of floating product, if present, was measured in the transparent sampler with a ruler or noting the presence of sheen and odor. The wells were then purged a minimum of four well volumes or until the parameters of temperature, conductance, and pH stabilized.

Groundwater samples were collected by gently pouring from the bailer into a 40-milliliter vial until a positive meniscus formed at the top of the vial, each vial was capped, and visually inspected to make sure no bubbles were present. Sample containers are labeled for sampling point reference and chilled on ice immediately after collection. Chain-of-custody documentation was maintained until the samples were received by the laboratory.

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

April 11, 2003

Tom Price
Environmental Testing
1792 Rogers Avenue
San Jose, CA 95112

Order:	33843	**Date Collected:**	3/31/2003
Project Name:	GA	**Date Received:**	4/1/2003
Project Number:		**P.O. Number:**	GA
Project Notes:			

On April 01, 2003, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix	Test	Method
Liquid	Gas/BTEX	EPA 8015 MOD. (Purgeable)
		EPA 8020
	PDF	PDF

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Patti Sandrock
QA/QC Manager

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Environmental Testing
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 4/11/03
Date Received: 4/1/2003
Project Name: GA
Project Number:
P.O. Number: GA
Sampled By: Tom Price

Certified Analytical Report

Order ID: 33843 **Lab Sample ID:** 33843-001 **Client Sample ID:** MW-1

Sample Time: 5:50 PM **Sample Date:** 3/31/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	2200		500	0.5	250	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Toluene	19000		500	0.5	250	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Ethyl Benzene	4900		500	0.5	250	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Xylenes, Total	21000		500	1	500	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	91.4	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	100000		500	50	25000	µg/L	N/A	4/2/2003	WGC62803C	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	74.7	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Environmental Testing
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 4/11/03
Date Received: 4/1/2003
Project Name: GA
Project Number:
P.O. Number: GA
Sampled By: Tom Price

Certified Analytical Report

Order ID: 33843 **Lab Sample ID:** 33843-002 **Client Sample ID:** MW-2

Sample Time: 6:25 PM **Sample Date:** 3/31/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	620		25	0.5	12.5	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Toluene	ND		25	0.5	12.5	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Ethyl Benzene	71		25	0.5	12.5	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Xylenes, Total	ND		25	1	25	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	92.5	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	5000		25	50	1250	µg/L	N/A	4/2/2003	WGC62803C	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	79.3	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Environmental Testing
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 4/11/03
Date Received: 4/1/2003
Project Name: GA
Project Number:
P.O. Number: GA
Sampled By: Tom Price

Certified Analytical Report

Order ID: 33843 **Lab Sample ID:** 33843-003 **Client Sample ID:** MW-3

Sample Time: 6:40 PM **Sample Date:** 3/31/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	3200		100	0.5	50	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Toluene	280		100	0.5	50	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Ethyl Benzene	1600		100	0.5	50	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Xylenes, Total	4200		100	1	100	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	83.2	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	25000		100	50	5000	µg/L	N/A	4/2/2003	WGC62803C	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	78.6	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Environmental Testing
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 4/11/03
Date Received: 4/1/2003
Project Name: GA
Project Number:
P.O. Number: GA
Sampled By: Tom Price

Certified Analytical Report

Order ID: 33843 **Lab Sample ID:** 33843-004 **Client Sample ID:** MW-4

Sample Time: 6:10 PM **Sample Date:** 3/31/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	2000		500	0.5	250	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Toluene	2100		500	0.5	250	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Ethyl Benzene	820		500	0.5	250	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Xylenes, Total	2900		500	1	500	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	84.7	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	25000		500	50	25000	µg/L	N/A	4/2/2003	WGC62803C	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	76.7	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

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3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Environmental Testing
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 4/11/03
Date Received: 4/1/2003
Project Name: GA
Project Number:
P.O. Number: GA
Sampled By: Tom Price

Certified Analytical Report

Order ID: 33843 **Lab Sample ID:** 33843-005 **Client Sample ID:** MW-9

Sample Time: 5:35 PM **Sample Date:** 3/31/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		25	0.5	12.5	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Toluene	ND		25	0.5	12.5	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Ethyl Benzene	130		25	0.5	12.5	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Xylenes, Total	87		25	1	25	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	76.6	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	6200		25	50	1250	µg/L	N/A	4/2/2003	WGC62803C	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	67.2	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Environmental Testing
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 4/11/03
Date Received: 4/1/2003
Project Name: GA
Project Number:
P.O. Number: GA
Sampled By: Tom Price

Certified Analytical Report

Order ID: 33843 **Lab Sample ID:** 33843-006 **Client Sample ID:** MW-10

Sample Time: 5:10 PM **Sample Date:** 3/31/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	31		20	0.5	10	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Toluene	38		20	0.5	10	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Ethyl Benzene	67		20	0.5	10	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020
Xylenes, Total	27		20	1	20	µg/L	N/A	4/2/2003	WGC62803C	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	58.1	65 - 135
aaa-Trifluorotoluene	68.3	65 - 135

Comment: Poor surrogate recovery for 4-BFB due to matrix interfernce. See TFT results.

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	5700		20	50	1000	µg/L	N/A	4/2/2003	WGC62803C	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	61.8	65 - 135
aaa-Trifluorotoluene	132.6	65 - 135

Comment: Poor surrogate recovery for 4-BFB due to matrix interfernce. See TFT results.

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Quality Control Results Summary

QC Batch #: WGC62803C
Matrix: Liquid
Units: µg/L
Date Analyzed: 4/2/2003

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		250		237.	LCS	94.8			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			90.6			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		7.3	LCS	91.3			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		7.9	LCS	98.8			65.0 - 135.0
Toluene	EPA 8020	ND		8		7.5	LCS	93.8			65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		23.7	LCS	98.8			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			93.5			65 - 135					
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		250		237.5	LCSD	95.0	0.21	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			90.8			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		7.8	LCSD	97.5	6.62	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		8.	LCSD	100.0	1.26	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		8		7.7	LCSD	96.3	2.63	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		23.9	LCSD	99.6	0.84	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			91.3			65 - 135					

Entech Analytical Labs, Inc.

3334 Victor Court (408) 588-0200
Santa Clara. CA 95054 (408) 588-0201 - Fax

Chain of Custody / Analysis Request

Attention to: Tom Price	Phone No.: (408) 453-1800	Purchase Order No (Reqd).: GA.	Send Invoice to (if Different) / Phone
Company Name: Environmental Testing	Fax No.: 1801	Project Number:	Company
Mailing Address: 1792 Rogers Ave	email:	Project Name: GA	Billing Address (If Different)
City: San Jose CA 95112	State: / Zip:	Project Location: GA.	City: / State / Zip

Sampler: Tom Price — Field Org. Code:
Global ID:

Turn Around Time
- ☐ Same Day ☐ 1 Day
- ☐ 2 Day ☐ 3 Day
- ☐ 4 Day ☐ 5 Day
- ☒ Standard (10 Day)

Order ID:

Sampling

Client ID:	Field PT	Lab. No.	Date	Time	Matrix	Composite	Grab	Containers	Preservative
mw-1	33843	001	3/31/03	5:50	W		✓		HCl
mw-2		002		6:25			✓		
mw-3		003		6:40			✓		
mw-4		004		6:10			✓		
mw-9		005		5:35			✓		
mw-10		006	↓	5:10	↓		✓		↓

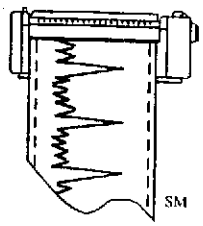
Volatile Organics by GCMS: 601/602 ☐ 624 ☐ 8260B ☐
Fuel Oxygenates by 8260 ☐ 8010 by 8260B ☐ MTBE by 8260B ☐
Pesticides-8081 ☐ PCBs - 8082 ☐
TPH as Gas/BTEX ☒ TPH as Gas/BTEX/MTBE ☐
Base/Neutral/Acid Organics 8270 ☐ 8270-SIM ☐ PNA ☐
Fuel Scan Extractable ☐ Purgeable ☐
Diesel ☐ w/ Si-gel Standard Cleanup ☐ Motor Oil ☐ w/ Si-gel Columm Cleanup ☐
pH / CN / TRPH ☐ Oil & Grease ☐
Metals - Circle Below Total ☐ Dissolved ☐ STLC / TTLC
Remarks

Relinquished by:	Received by:	Date:	Time:
Tom Price	Alex	4/1/03	0930
Relinquished by:	Received by: Guadalupe	4/1/03	932
Relinquished by:	Received by:	Date:	Time:
Relinquished by:	Received by:	Date:	Time:

Special Instructions or Comments

- ☐ NPDES Detection Limits
- ☐ EDD Report Required
- ☐ EDF Report Required
- ☐ PDF File Required

Metals:
Al, As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, K, Si, Ag, Na, Se, Sr, Tl, Sn, Ti, V, Zn, W : RCRA-8 ☐ CAM-17 ☐ Plating ☐ PPM-13 ☐ LUFT-5 ☐



ENVIRONMENTAL TESTING
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453.1800 FAX: 408.453.1801

Date: 3/31/03 Project Name: GA

Project No.: _____ Well No./Description: MW-3

Depth of Well: 34.8 1 Well Volume: 1.9 Gallons

Depth to Water: 22.82 3 Well Volumes: _____ Gallons

Casing Diameter ✓ 2" __ 4" Actual Volume Purged: 5.7 Gallons

Calculations:

1 il
12
3 2
16
12

2" - * 0.1632
4" - * 0.653

Purge Method: ✓ Bailer ___ Displacement Pump ___ Impinger/Vacuum ___

Sample Method: ✓ Bailer ___ Other Specify: _____

Sheen: ✓ No ___ Yes, Describe _____

Odor: ___ No ✓ Yes, Describe HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
630	1.9	7.3	60.1	551	gry
635	3.8	6.9	60.2	562	"
640	5.7	6.9	61.1	566	"

Remarks: _____

Sampler: _____

ENVIRONMENTAL TESTING
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453.1800 FAX: 408.453.1801

Date: 3/31/93 Project Name: GA.

Project No.: _____ Well No./Description: MW-4

Depth of Well: 34.3 1 Well Volume: 1.7 Gallons

Depth to Water: 23.92 3 Well Volumes: 5.1 Gallons

Casing Diameter: ✓ 2" __ 4" Actual Volume Purged: 5.1 Gallons

Calculations: 16 / 11 / 16 / 16 / 16

2" - * 0.1632
4" - * 0.653

Purge Method: ✓ Bailer ___ Displacement Pump ___ Impinger/Vacuum ___

Sample Method: ✓ Bailer ___ Other Specify: _____

Sheen: ___ No ✓ Yes, Describe slight

Odor: ___ No ✓ Yes, Describe HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
600	1.7	7.0	61	440	gray
605	3.4	6.8	62.9	464	"
610	5.1	6.9	59.2	455	"

Remarks: _____

Sampler: _____

ENVIRONMENTAL TESTING
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453.1800 FAX: 408.453.1801

Date: 3/31/03 Project Name: GA.

Project No.: _____ Well No./Description: MW-1

Depth of Well: 33.1 1 Well Volume: 1.7 Gallons

Depth to Water: 22.72 3 Well Volumes: 5.1 Gallons

Casing Diameter: ✓ 2" __ 4" Actual Volume Purged: 5.1 Gallons

Calculations:

2" - * 0.1632
4" - * 0.653

Purge Method: ✓ Bailer ___ Displacement Pump ___ Impinger/Vacuum ___

Sample Method: ✓ Bailer ___ Other Specify: _____

Sheen: ___ No ✓ Yes, Describe rainbow

Odor: ___ No ✓ Yes, Describe NC.

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
545	1.7	6.9	62.8	499	gray
550	3.4	6.9	63.9	521	"
550	5.1	6.7	63.6	532	"

Remarks: _____

Sampler: _____

ENVIRONMENTAL TESTING
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453.1800 FAX: 408.453.1801

Date: 3/3/03 Project Name: GA.

Project No.: _____ Well No./Description: MW-9

Depth of Well: 32.9 1 Well Volume: 1.6 Gallons

Depth to Water: 20.44 3 Well Volumes: ~~3.2~~ 4.8 Gallons

Casing Diameter: ✓ 2" __ 4" Actual Volume Purged: 4.8 Gallons

Calculations:

16
10
1.6

2" - * 0.1632
4" - * 0.653

Purge Method: ✓ Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: ~~Bailer~~ ___ Other Specify: _____

Sheen: ___ No ✓ Yes, Describe rainbow heavy.

Odor: ___ No ✓ Yes, Describe Stong HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
525	1.6	7.2	63.2	480	gray
530	3.2	7.0	~~54~~ 62.7	511	"
535	4.8	7.0	64.6	475	"

Remarks: _____

Sampler: _____

ENVIRONMENTAL TESTING
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453.1800 FAX: 408.453.1801

Date: 3/31/03 Project Name: GA

Project No.: _____ Well No./Description: MW-10

Depth of Well: 37.6 1 Well Volume: 2.0 Gallons

Depth to Water: 23.87 3 Well Volumes: 6.6 Gallons

Casing Diameter: ✓2" __4" Actual Volume Purged: 6.6 Gallons

Calculations: 2.6

14
6.4
16
-23.87

2" - * 0.1632
4" - * 0.653

Purge Method: ✓Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: ✓Bailer ___ Other Specify: _____

Sheen: ✓No ___ Yes, Describe _____

Odor: ___ No ✓ Yes, Describe H C

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
501	2.2	7.9	71	525	gray.
505	4.4	6.9	68	523	"
510	6.6	6.7	67	515	"

Remarks: _____

Sampler: _____

ENVIRONMENTAL TESTING
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453.1800 FAX: 408.453.1801

Date: 3/31/03 Project Name: GA.

Project No.: _____ Well No./Description: MW-2

Depth of Well: ~~34.8~~ 33.1 1 Well Volume: 1.9 Gallons

Depth to Water: ~~22.82~~ 23.63 3 Well Volumes: _____ Gallons

Casing Diameter: __ 2" __ 4" Actual Volume Purged: 5.7 Gallons

Calculations:

1 1L
~~1~~ 3
1 L

2" - * 0.1632
4" - * 0.653

Purge Method: ✓ Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: ✓ Bailer ___ Other Specify: _____

Sheen: ___ No ___ Yes, Describe _____

Odor: ___ No ___ Yes, Describe _____

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
615	1.9	6.9	59.6	600	gray
620	3.8	7.1	60	610	"
625	5.7	6.7	61.9	639	"

Remarks: _____

Sampler: _____

APPENDIX D: QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The quality assurance/quality control measures used for groundwater sampling included the following:

- Groundwater samples were collected in duplicate 40 milliliter vials.

APPENDIX E: REPORT DISTRIBUTION LIST

Copies of this report have been mailed to the attention of the following parties:

Seung Lee
German Autocraft
301 E. 14th Street
San Leandro, California 94577

Eva Chu
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, #250
Alameda, California 94502-6577

Mike Bakaldin
City of San Leandro Environmental Services Department
835 E. 14th Street
San Leandro, California 94577