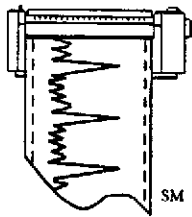


THIRD QUARTER 2000  
GROUNDWATER MONITORING PROGRAM  
GERMAN AUTOCRAFT  
301 E. 14TH STREET, SAN LEANDRO, CALIFORNIA

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## I. INTRODUCTION

Environmental Testing (ET) has continued the quarterly groundwater monitoring program and related environmental activities completed during the calendar third quarter 2000 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 of eleven (11) monitoring wells and one (1) private well located at the Ramirez residence at 141 Farrelly Drive. Installation of three (3) additional monitoring wells is pending. The schedule of the monitoring program is as follows:

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

## **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 THIRD QUARTER 2000**

Work included groundwater level gauging and sampling, data analysis, and report preparation.

Activity highlights during this period are as follows:

- **September 26, 2000** - ET measured groundwater elevations for all wells for the project and sampled wells scheduled for sampling under the monitoring program.

#### **IV. GROUNDWATER ELEVATION AND GRADIENT**

Static groundwater level elevation data collected on September 26, 2000 indicated that over the area studied, the elevation of the shallow groundwater surface ranged from 24.10 to 25.01 feet above mean sea level. The estimated groundwater flow direction was westerly (approximate gradient = 0.002 ft/ft).

**Table 1** presents the recent groundwater elevation data and **Figure 3** shows estimated groundwater flow direction as interpreted from the groundwater potentiometric elevation data. **Table 2** presents historic groundwater elevation data.

The groundwater flow patterns observed this quarter is consistent with previous observations.

#### **V. GROUNDWATER SAMPLING AND ANALYTICAL RESULTS**

On September 26, 2000, groundwater samples were collected from MW-2, MW-3, MW-8, MW-9, MW-10 and the private well at 141 Farrelly Drive following the groundwater sampling procedures presented in **Appendix A**. 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 Sunnyvale, California. The laboratory report and chain-of-custody documents are included in **Appendix B**. The field sampling data sheets are presented in **Appendix C**. 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 5**. A City of San Leandro encroachment permit is included in **Appendix E**.

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

The sample collected 9/26/00 from MW-2, located down gradient of the former gasoline tank area, contained 6,800 µg/L of TPHg, 450 µg/L of benzene, 7.4 µg/L of toluene, 290 µg/L of ethyl benzene, and 200 µg/L of total xylenes.

The sample collected 9/26/00 from monitoring well MW-3, also located down gradient of the former gasoline tank area, contained 36,000 µg/L of TPHg, 5,300 µg/L of benzene, 640 µg/L of toluene, 2,400 µg/L of ethyl benzene, and 9,900 µg/L of total xylenes.

The sample collected 9/26/00 from monitoring well MW-6 contained 240 µg/L of TPHg, 1.5 µg/L of benzene, <0.5 µg/L of toluene, <0.5 µg/L of ethyl benzene, and <0.5 µg/L of total xylenes.

The sample collected 9/26/00 from monitoring well MW-8 contained 1,200 µg/L of TPHg, 24 µg/L of benzene, 3.0 µg/L of toluene, 24 µg/L of ethyl benzene, and 15 µg/L of total xylenes.

The sample collected 9/26/00 from monitoring well MW-9 contained 11,000 µg/L of TPHg, 19 µg/L of benzene, <5 µg/L of toluene, 470 µg/L of ethyl benzene, and 610 µg/L of total xylenes.

The sample collected 9/26/00 from monitoring well MW-10 contained 4,500 µg/L of TPHg, 22 µg/L of benzene, 8.8 µg/L of toluene, 1.3 µg/L of ethyl benzene, and 18 µg/L of total xylenes.

The sample collected 9/26/00 from monitoring well MW-11 contained <50 µg/L of TPHg, <0.5 µg/L of benzene, <0.5 µg/L of toluene, <0.5 µg/L of ethyl benzene, and <0.5 µg/L of total xylenes.

The sample collected 9/26/00 from monitoring well MW-1A contained 11,000 µg/L of TPHg, 14 µg/L of benzene, <5 µg/L of toluene, 65 µg/L of ethyl benzene, and 150 µg/L of total xylenes.

The private well sampled on 9/26/00 at 141 Farrelly did not contain gasoline above detection limits as follows: <50 µg/L of TPHg, <0.5 µg/L of benzene, <0.5 µg/L of toluene, <0.5 µg/L of ethyl benzene, and <0.5 µg/L of total xylenes.

## VI. DISCUSSION AND CONCLUSIONS

Selected wells' various chemical constituents continue to exceed their respective California Drinking Water Maximum Contaminant Levels (MCLs) or Federal Action Levels (AL).

Available data, including data from the September 26, 2000 monitoring events, indicate that groundwater flow patterns beneath the site are consistent with previous monitoring events for the project.

The current contaminant distribution shows the most elevated TPHG and benzene levels are near the source. The TPHG plume has moved west-northwesterly, as has the benzene plume.



## **VII. 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.

## VIII. REFERENCES

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of Regional Groundwater Contamination, San Leandro Plume, San Leandro, California*,  
*Volume I*, December 23, 1993.

**TABLE 1. CURRENT GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA**

		SEPTEMBER 26, 2000	
WELL	CASING ELEVATION <sup>1</sup>	Depth to Groundwater	Groundwater Elevation
MW-1	49.49	24.48	25.01
MW-2	50.01	25.32	24.69
MW-3	49.32	24.52	24.80
MW-4	49.60	-	-
MW-5	49.57	Dewatered	-
MW-6	48.06	23.11	24.95
MW-8	49.35	24.85	24.50
MW-9	48.77	24.16	24.61
MW-10	49.92	25.58	24.34
MW-11	47.93	23.35	24.58
MW-1A	48.24	23.76	24.48
141 Farrelly	48.81	24.71	24.10

<sup>1</sup>Elevations 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
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



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

Locations: MW-2, MW-3, MW-6, MW-8, MW-9, MW-10, MW-11, MW-1A, 141 Farrelly

Date Sampled: September 26, 2000 Units: µg/L

WELL	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-2	6,800	450	7.4	290	200
MW-3	36,000	5,300	640	2,400	9,900
MW-6	240	1.5	<0.5	<0.5	<0.5
MW-8	1,200	24	3.0	24	15
MW-9	11,000	19	<5	470	610
MW-10	4,500	22	8.8	1.3	18
MW-11	<50	<0.5	<0.5	<0.5	<0.5
MW-1A	11,000	14	<5	65	150
141 Farrelly	<50	<0.5	<0.5	<0.5	<0.5
MCL/AL <sup>2</sup>	-	1	150	700	1,750

<sup>2</sup>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)**

Locations: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-1A, 141 Farrelly Units:  $\mu\text{g/L}$

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

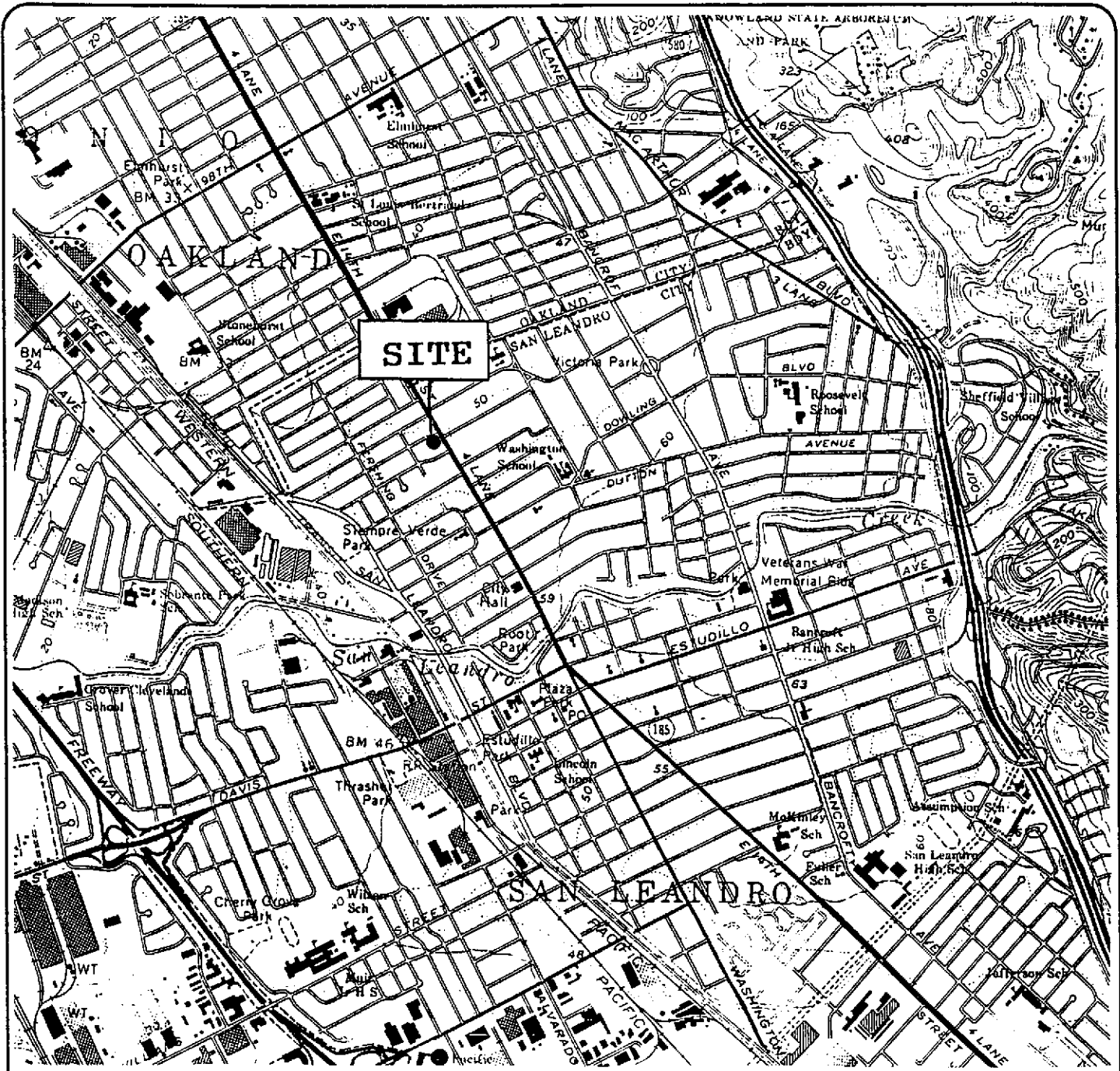
WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-1	4/25/97	180,000	6,900	20,000	2,600	13,000
	4/25/97	170,000	6,500	20,000	2,500	13,000
	7/17/97	220,000	8,300	41,000	2,700	16,000
	10/21/97	240,000	9,400	33,000	3,300	22,000
	3/10/98	120,000	11,000	46,000	3,700	21,000
	6/6/98	110,000	7,600	32,000	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
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
	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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-2	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
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
	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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-3	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
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
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
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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-8	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
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
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
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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES
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
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



**EXPLANATION:**

Scale: 1"=2000'

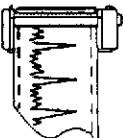
0 1000' 2000'



Base Map Reference:

U.S.G.S. San Leandro 7.5 Minute Topographic, Quadrangle.

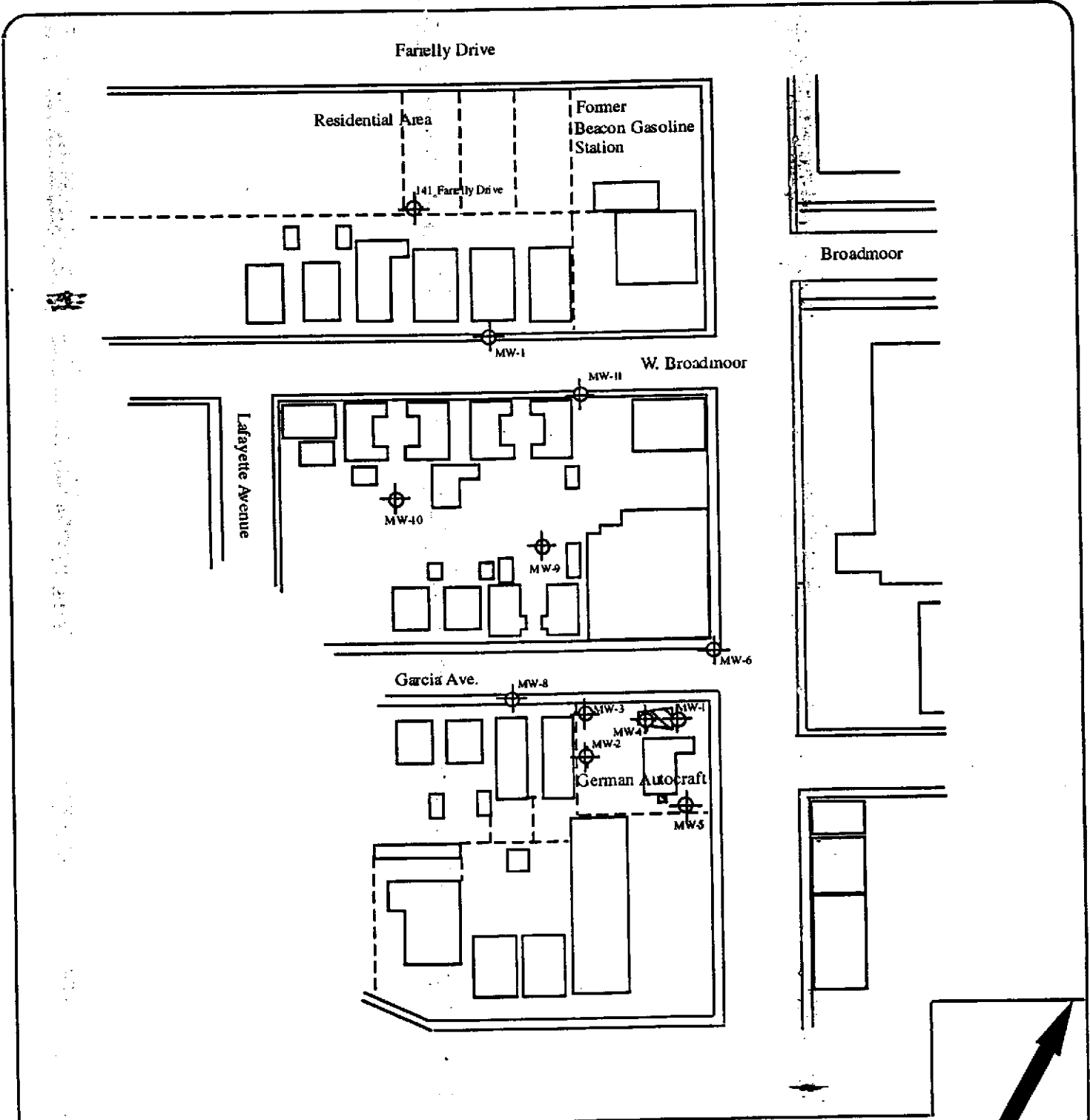


 ENVIRONMENTAL TESTING & MGMT  
111 N. MARKET ST. SUITE 600  
SAN JOSE, CALIFORNIA 95113

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

**Figure 1**  
Project No.  
94-52  
Date: 3/97





**EXPLANATION:**



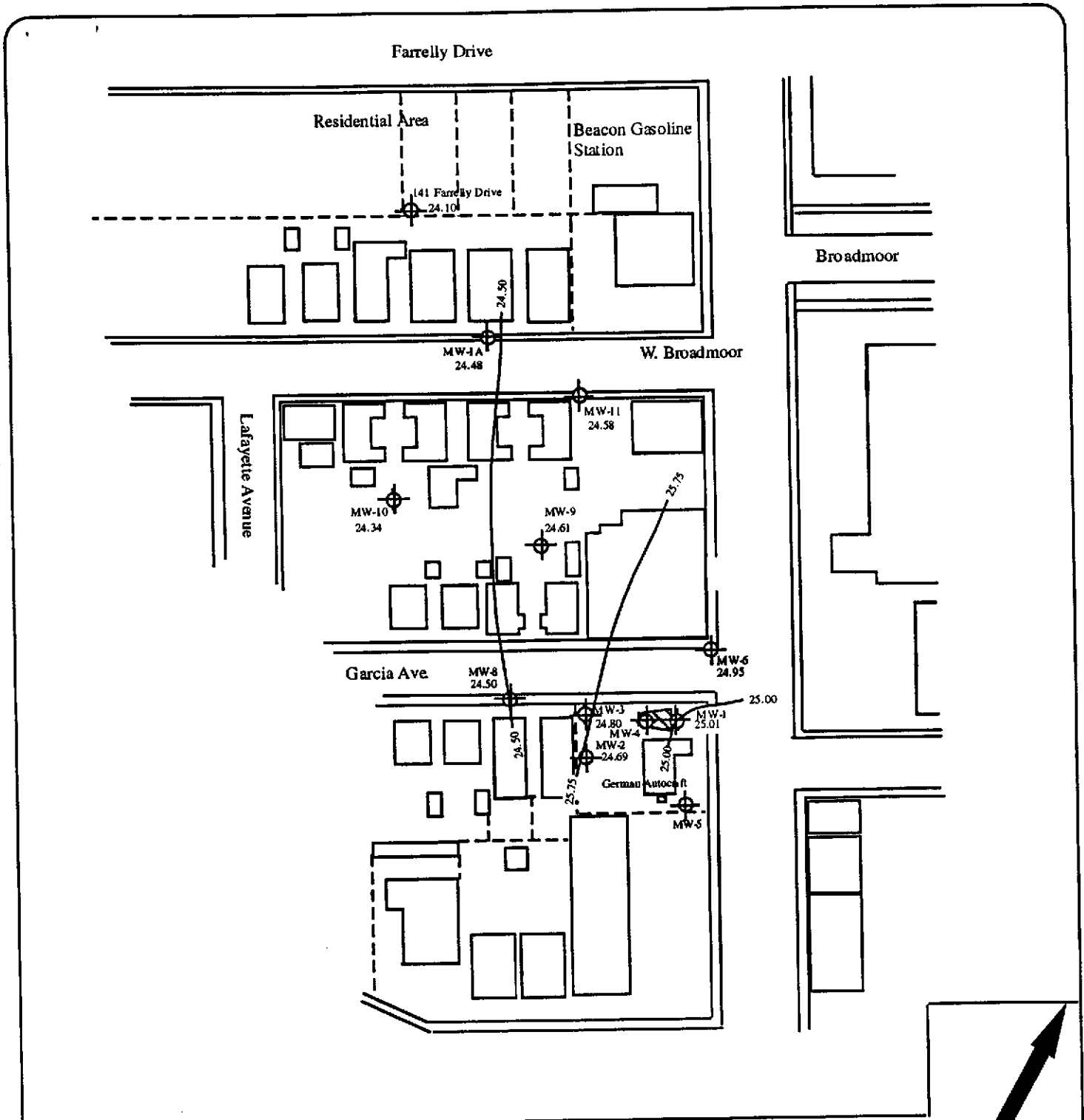
Scale: 1"=120'

- Streets/Buildings
- ⊕ Groundwater Monitoring Well
- ▨ Former Tank Pit Areas
- Buildings

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SAN JOSE, CA 95112

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

Figure 2  
Date: 7/99



**EXPLANATION:**



Scale: 1"=120'

— Streets/Buildings



Groundwater Monitoring Well

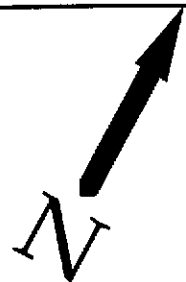


Former Tank Pit Areas



Buildings

— 25.00 Groundwater Potentiometric Elevation (MSL)

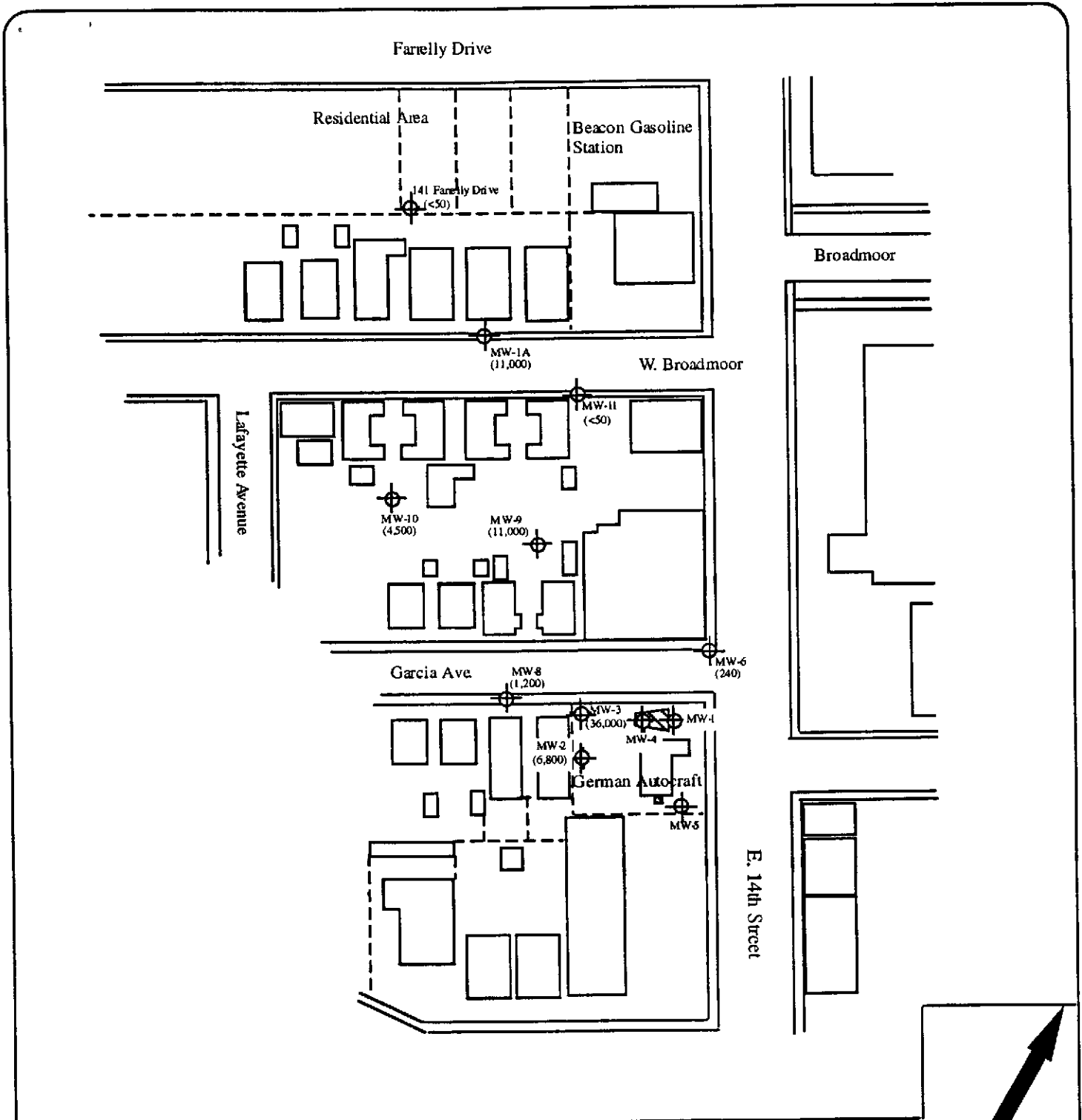


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SAN JOSE, CALIFORNIA 95112  
(408) 453-1800

**GROUNDWATER POTENTIOMETRIC SURFACE  
ELEVATION ISOCONTOUR MAP (9/26/00)**  
German Autocraft  
301 East 14th Street  
San Leandro, California

Figure 3

Date: 10/00



**EXPLANATION:**



Scale: 1"=120'

— Streets/Buildings



Groundwater Monitoring Well



Former Tank Pit Areas



Buildings

(6,800) Groundwater TPHG Concentration (ug/L)

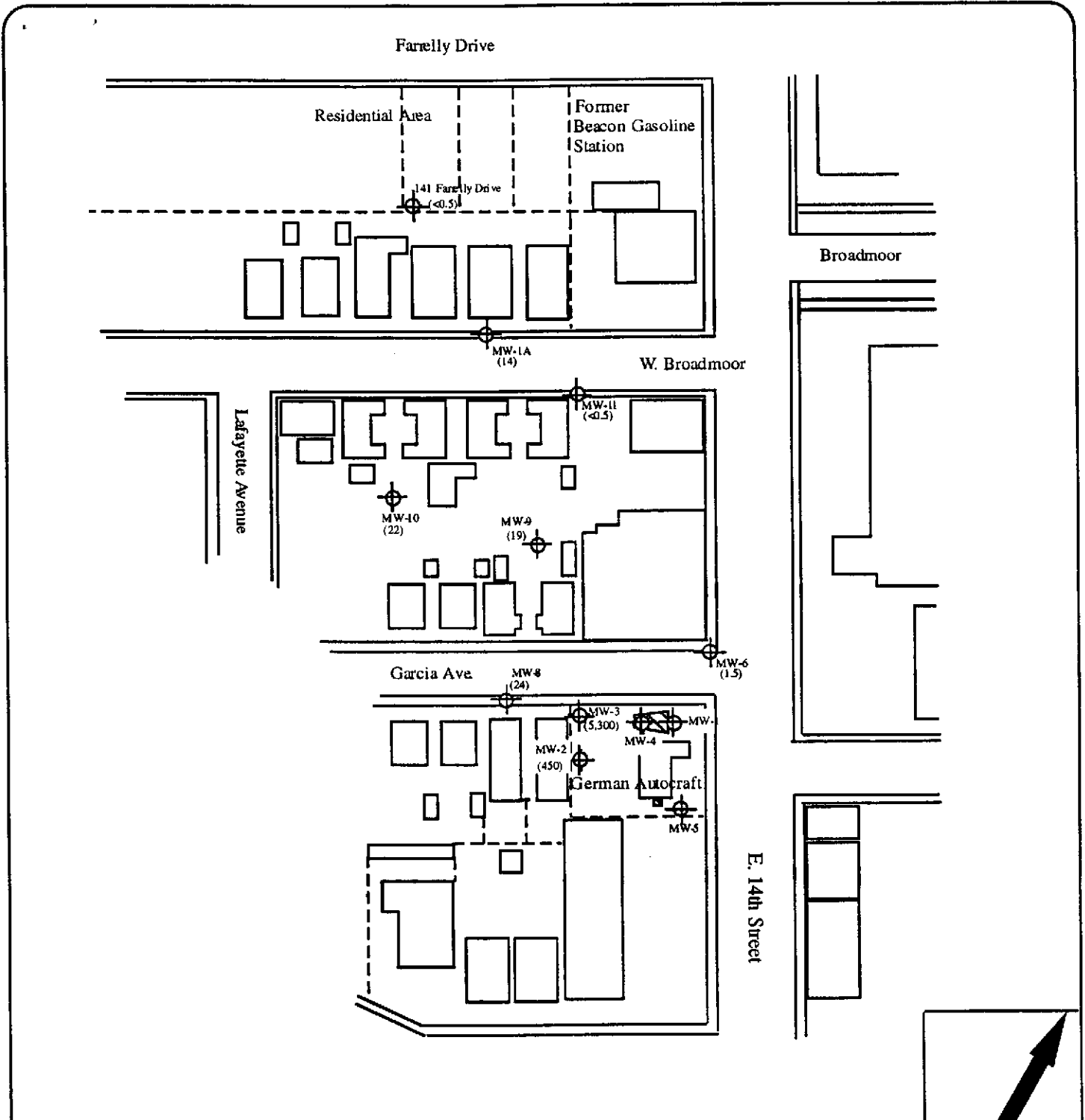


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 SAN JOSE, CA 95112  
 (408) 453-1800 FAX: (408) 453-1801

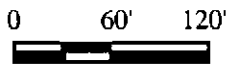
**VICINITY MAP WITH GROUNDWATER TPHG  
 CONCENTRATIONS (9/26/00)**  
**German Autocraft**  
 301 East 14th Street  
 San Leandro, California

Figure 4

Date: 10/00



**EXPLANATION:**



Scale: 1"=120'

— Streets/Buildings



Groundwater Monitoring Well



Former Tank Pit Areas



Buildings

(450) Groundwater Benzene Concentration (ug/L)



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SAN JOSE, CA 95112  
(408) 453-1800 FAX: (408) 453-1801

VICINITY MAP WITH GROUNDWATER  
BENZENE CONCENTRATIONS (9/26/00)

Gem an Autocraft  
301 East 14th Street  
San Leandro, California

Figure 5

Date: 10/00

## **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 inch. 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.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

October 06, 2000

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

**Order:** 22516

**Date Collected:** 9/26/00

**Project Name:** GA

**Date Received:** 9/29/00

**Project Number:**

**P.O. Number:**

**Project Notes:**


On September 29, 2000, samples were received under documented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>
Liquid	Gas/BTEX	EPA 8015 MOD. (Purgeable) EPA 8020

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 408-735-1550.

Sincerely,



Michelle L. Anderson  
Lab Director

# Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

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

Date: 10/06/00  
Date Received: 9/29/00  
Project Name: GA  
Project Number:  
P.O. Number:  
Sampled By: Client

## Certified Analytical Report

Order ID: 22516

Lab Sample ID: 22516-001

Client Sample ID: MW-2

Sample Time:

Sample Date: 9/26/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	450		10	0.5	5	µg/L	N/A	10/4/00	WGC2001003	EPA 8020
Toluene	7.4		10	0.5	5	µg/L	N/A	10/4/00	WGC2001003	EPA 8020
Ethyl Benzene	290		10	0.5	5	µg/L	N/A	10/4/00	WGC2001003	EPA 8020
Xylenes, Total	200		10	0.5	5	µg/L	N/A	10/4/00	WGC2001003	EPA 8020
				Surrogate		Surrogate Recovery		Control Limits (%)		
				aaa-Trifluorotoluene		83		65 - 135		

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	6800		10	50	500	µg/L	N/A	10/4/00	WGC2001003	EPA 8015 MOD. (Purgeable)
				Surrogate		Surrogate Recovery		Control Limits (%)		
				aaa-Trifluorotoluene		72		65 - 135		

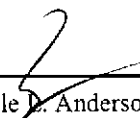
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

  
Michelle D. Anderson, Laboratory Director

Environmental Analysis Since 1983

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

Date: 10/06/00  
Date Received: 9/29/00  
Project Name: GA  
Project Number:  
P.O. Number:  
Sampled By: Client

## Certified Analytical Report

Order ID: 22516

Lab Sample ID: 22516-002

Client Sample ID: MW-3

Sample Time:

Sample Date: 9/26/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	5300		50	0.5	25	µg/L	N/A	10/3/00	WGC4001002B	EPA 8020
Toluene	640		50	0.5	25	µg/L	N/A	10/3/00	WGC4001002B	EPA 8020
Ethyl Benzene	2400		50	0.5	25	µg/L	N/A	10/3/00	WGC4001002B	EPA 8020
Xylenes, Total	9900		50	0.5	25	µg/L	N/A	10/3/00	WGC4001002B	EPA 8020
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							97		65 - 135	

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	36000		50	50	2500	µg/L	N/A	10/3/00	WGC4001002B	EPA 8015 MOD. (Purgeable)
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							100		65 - 135	

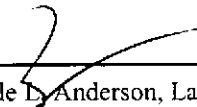
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Date: 10/06/00  
Date Received: 9/29/00  
Project Name: GA  
Project Number:  
P.O. Number:  
Sampled By: Client

## Certified Analytical Report

Order ID: 22516

Lab Sample ID: 22516-003

Client Sample ID: MW-6

Sample Time:

Sample Date: 9/26/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	1.5		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001002B	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001002B	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001002B	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001002B	EPA 8020
				Surrogate		Surrogate Recovery		Control Limits (%)		
				aaa-Trifluorotoluene		95		65 - 135		

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	240	x	1	50	50	µg/L	N/A	10/3/00	WGC4001002B	EPA 8015 MOD. (Purgeable)
				Surrogate		Surrogate Recovery		Control Limits (%)		
				aaa-Trifluorotoluene		104		65 - 135		

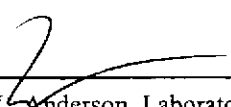
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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**Environmental Testing**  
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 San Jose, CA 95112  
 Attn: Tom Price

Date: 10/06/00  
 Date Received: 9/29/00  
 Project Name: GA  
 Project Number:  
 P.O. Number:  
 Sampled By: Client


## Certified Analytical Report

**Order ID:** 22516      **Lab Sample ID:** 22516-004      **Client Sample ID:** MW-8  
**Sample Time:**      **Sample Date:** 9/26/00      **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	24		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001002B	EPA 8020
Toluene	3.0		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001002B	EPA 8020
Ethyl Benzene	24		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001002B	EPA 8020
Xylenes, Total	15		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001002B	EPA 8020
			<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>	
			aaa-Trifluorotoluene			76			65 - 135	

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	1200		1	50	50	µg/L	N/A	10/3/00	WGC4001002B	EPA 8015 MOD. (Purgeable)
			<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>	
			aaa-Trifluorotoluene			67			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)

  
 Michelle Anderson, Laboratory Director

*Environmental Analysis Since 1983*

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CA ELAP# 2346

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**Environmental Testing**

1792 Roger Avenue

San Jose, CA 95112

Attn: Tom Price

Date: 10/06/00

Date Received: 9/29/00

Project Name: GA

Project Number:

P.O. Number:

Sampled By: Client

**Certified Analytical Report**

Order ID: 22516

Lab Sample ID: 22516-005

Client Sample ID: MW-9

Sample Time:

Sample Date: 9/26/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	19		10	0.5	5	µg/L	N/A	10/4/00	WGC2001003	EPA 8020
Toluene	ND		10	0.5	5	µg/L	N/A	10/4/00	WGC2001003	EPA 8020
Ethyl Benzene	470		10	0.5	5	µg/L	N/A	10/4/00	WGC2001003	EPA 8020
Xylenes, Total	610		10	0.5	5	µg/L	N/A	10/4/00	WGC2001003	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	81	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	11000		10	50	500	µg/L	N/A	10/4/00	WGC2001003	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	69	65 - 135

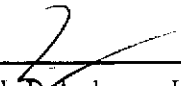
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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**Environmental Testing**1792 Roger Avenue  
San Jose, CA 95112  
Attn: Tom PriceDate: 10/06/00  
Date Received: 9/29/00  
Project Name: GA  
Project Number:  
P.O. Number:  
Sampled By: Client**Certified Analytical Report**

Order ID: 22516

Lab Sample ID: 22516-006

Client Sample ID: MW-10

Sample Time:

Sample Date: 9/26/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	22		2	0.5	1	µg/L	N/A	10/4/00	WGC2001003	EPA 8020
Toluene	8.8		2	0.5	1	µg/L	N/A	10/4/00	WGC2001003	EPA 8020
Ethyl Benzene	1.3		2	0.5	1	µg/L	N/A	10/4/00	WGC2001003	EPA 8020
Xylenes, Total	18		2	0.5	1	µg/L	N/A	10/4/00	WGC2001003	EPA 8020
				Surrogate		Surrogate Recovery		Control Limits (%)		
				aaa-Trifluorotoluene		163		65 - 135		

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	4500		2	50	100	µg/L	N/A	10/4/00	WGC2001003	EPA 8015 MOD. (Purgeable)
				Surrogate		Surrogate Recovery		Control Limits (%)		
				aaa-Trifluorotoluene		197		65 - 135		

Comment: Surrogate recovery out of control limits due to matrix interference

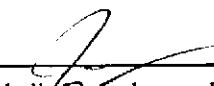
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Date: 10/06/00  
Date Received: 9/29/00  
Project Name: GA  
Project Number:  
P.O. Number:  
Sampled By: Client

## Certified Analytical Report

Order ID: 22516

Lab Sample ID: 22516-007

Client Sample ID: MW-11

Sample Time:

Sample Date: 9/26/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001003	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001003	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001003	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001003	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	95	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	10/3/00	WGC4001003	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	106	65 - 135

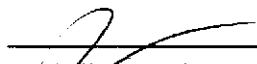
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

  
Michelle L. Anderson, Laboratory Director*Environmental Analysis Since 1983*

# Entech Analytical Labs, Inc.

CA ELAP# 2346

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

Date: 10/06/00  
Date Received: 9/29/00  
Project Name: GA  
Project Number:  
P.O. Number:  
Sampled By: Client

## Certified Analytical Report

Order ID: 22516

Lab Sample ID: 22516-008

Client Sample ID: MW-1A

Sample Time:

Sample Date: 9/26/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	14		10	0.5	5	µg/L	N/A	10/5/00	WGC2001003	EPA 8020
Toluene	ND		10	0.5	5	µg/L	N/A	10/5/00	WGC2001003	EPA 8020
Ethyl Benzene	65		10	0.5	5	µg/L	N/A	10/5/00	WGC2001003	EPA 8020
Xylenes, Total	150		10	0.5	5	µg/L	N/A	10/5/00	WGC2001003	EPA 8020
			<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>	
			aaa-Trifluorotoluene			85			65 - 135	

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	11000		10	50	500	µg/L	N/A	10/5/00	WGC2001003	EPA 8015 MOD. (Purgeable)
			<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>	
			aaa-Trifluorotoluene			73			65 - 135	

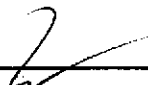
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

  
Michelle L. Anderson, Laboratory Director

*Environmental Analysis Since 1983*

# Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

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

Date: 10/06/00  
Date Received: 9/29/00  
Project Name: GA  
Project Number:  
P.O. Number:  
Sampled By: Client

## Certified Analytical Report

Order ID: 22516      Lab Sample ID: 22516-009      Client Sample ID: 141 Farrelly  
Sample Time:      Sample Date: 9/26/00      Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001003	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001003	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001003	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	µg/L	N/A	10/3/00	WGC4001003	EPA 8020
			Surrogate			Surrogate Recovery			Control Limits (%)	
			aaa-Trifluorotoluene			96			65 - 135	

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	10/3/00	WGC4001003	EPA 8015 MOD. (Purgeable)
			Surrogate			Surrogate Recovery			Control Limits (%)	
			aaa-Trifluorotoluene			109			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)

  
Michelle L. Anderson, Laboratory Director*Environmental Analysis Since 1983*

**QUALITY CONTROL RESULTS SUMMARY**METHOD: Gas Chromatography  
Laboratory Control Sample

QC Batch #: WGC2001003

Matrix: Water

Units: µg/Liter

Date Analyzed: 10/03/00

Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/Liter	SA µg/Liter	SR µg/Liter	SP µg/Liter	SP % R	SPD µg/Liter	SPD %R	RPD	QC LIMITS	
										RPD	%R
Benzene	8020	<0.50	4.3	ND	4.2	98	4.2	99	0.7	25	67-115
Toluene	8020	<0.50	28.0	ND	32	113	31	112	0.5	25	82-122
Ethyl Benzene	8020	<0.50	6.8	ND	6.2	91	6.2	91	0.4	25	77-114
Xylenes	8020	<0.50	26.0	ND	30	116	30	114	1.6	25	86-126
Gasoline	8015	<50.0	484	ND	588	122	574	119	2.5	25	74-122
aaa-TFT(S.S.)-PID	8020			121%	113%		113%				65-135
aaa-TFT(S.S.)-FID	8015			106%	103%		102%				65-135

## Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank

SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike % Recovery

nc: Not Calculated



**QUALITY CONTROL RESULTS SUMMARY**

METHOD: Gas Chromatography  
Laboratory Control Sample

QC Batch #: WGC4001002B  
Matrix: Liquid  
Units: µg/Liter

Date Analyzed: 10/02/00  
Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/Liter	SA µg/Liter	SR µg/Liter	SP µg/Liter	SP % R	SPD µg/Liter	SPD %R	% RPD	QC LIMITS	
										RPD	%R
Benzene	8020	<0.50	5.2	ND	5.5	105	5.4	104	0.9	25	70-130
Toluene	8020	<0.50	29	ND	30	101	30	101	0.1	25	70-130
Ethyl Benzene	8020	<0.50	5.6	ND	5.9	105	5.2	92	12.8	25	70-130
Xylenes	8020	<0.50	32	ND	31	94	31	96	1.5	25	70-130
Gasoline	8015	<50.0	469	ND	469	100	477	102	1.6	25	70-130
aaa-TFT(S.S.)-FID	8020			109%	103%		105%				65-135
aaa-TFT(S.S.)-PID	8015			97%	103%		103%				65-135

Definition of Terms:

- na: Not Analyzed in QC batch
- MB: Method Blank
- SA: Spike Added
- SR: Sample Result
- RPD(%): Duplicate Analysis - Relative Percent Difference
- SP: Spike Result
- SP (%R): Spike % Recovery
- SPD: Spike Duplicate Result
- SPD (%R): Spike % Recovery
- nc: Not Calculated

**QUALITY CONTROL RESULTS SUMMARY**

METHOD: Gas Chromatography  
Laboratory Control Sample

QC Batch #: WGC4001003

Matrix: Liquid  
Units: µg/Liter

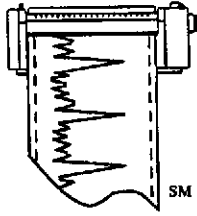
Date Analyzed: 10/03/00  
Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/Liter	SA µg/Liter	SR µg/Liter	SP µg/Liter	SP % R	SPD µg/Liter	SPD %R	% RPD	QC LIMITS	
										RPD	%R
Benzene	8020	<0.50	5.2	ND	6.0	115	6.0	115	0.0	25	70-130
Toluene	8020	<0.50	29	ND	30	102	29	100	2.1	25	70-130
Ethyl Benzene	8020	<0.50	5.6	ND	6.3	113	6.5	116	2.1	25	70-130
Xylenes	8020	<0.50	32	ND	32	99	32	99	0.1	25	70-130
Gasoline	8015	<50.0	469	ND	502	107	482	103	4.1	25	70-130
aaa-TFT(S.S.)-FID	8020			115%	104%		105%				65-135
aaa-TFT(S.S.)-PID	8015			101%	107%		107%				65-135

Definition of Terms:

- na: Not Analyzed in QC batch
- MB: Method Blank
- SA: Spike Added
- SR: Sample Result
- RPD(%): Duplicate Analysis - Relative Percent Difference
- SP: Spike Result
- SP (%R): Spike % Recovery
- SPD: Spike Duplicate Result
- SPD (%R): Spike % Recovery
- nc: Not Calculated





# ENVIRONMENTAL TESTING

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

Date: 9/26/00

Project Name: GA

Project No.: \_\_\_\_\_

Well No./Description: MW-1

Depth of Well: 24.42 + 0.06 1 Well Volume: \_\_\_\_\_

Depth to Water: 36.03 + cap 4 Well Volumes: \_\_\_\_\_

Casing Diameter:  2"  4" Actual Volume Purged: \_\_\_\_\_

### Calculations:

2" - \* 0.1632

4" - \* 0.653

Purge Method:  Bailer  Displacement Pump  Impinger/Vacuum \_\_\_\_\_

Sample Method:  Bailer  Other Specify: \_\_\_\_\_

Sheen:  No  Yes, Describe Heavy

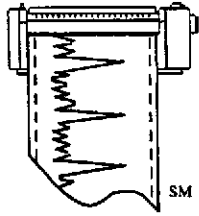
Odor:  No  Yes, Describe strong HC

### Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
_____	<u>2</u>	<u>6.9</u>	<u>67</u>	<u>0.4E3</u>	_____
_____	<u>4</u>	<u>7.0</u>	<u>67</u>	<u>0.5E3</u>	_____
_____	<u>6</u>	<u>7.0</u>	<u>66</u>	<u>0.5E3</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sampler: \_\_\_\_\_



# ENVIRONMENTAL TESTING

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

Date: 9/26/00

Project Name: GA

Project No.: \_\_\_\_\_

Well No./Description: MW-1A

Depth of Well: 33.55

1 Well Volume: 1.6

Depth to Water: 23.76

4 Well Volumes: \_\_\_\_\_

Casing Diameter:  2"  4"

Actual Volume Purged: \_\_\_\_\_

### Calculations:

2" - \* 0.1632

4" - \* 0.653

Purge Method:  Bailer  Displacement Pump  Impinger/Vacuum \_\_\_\_\_

Sample Method:  Bailer  Other Specify: \_\_\_\_\_

Sheen:  No  Yes, Describe \_\_\_\_\_

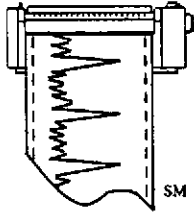
Odor:  No  Yes, Describe H C

### Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
_____	_____	<u>7.3</u>	<u>65</u>	<u>0.5E3</u> <u>1.2</u>	_____
_____	_____	<u>7.3</u>	<u>66</u>	<u>0.5E3</u>	_____
_____	_____	<u>7.3</u>	<u>65</u>	<u>0.5E3</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sampler: \_\_\_\_\_



# ENVIRONMENTAL TESTING

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

Date: 9/26/00

Project Name: GA

Project No.: \_\_\_\_\_

Well No./Description: MW-2

Depth of Well: 33.37

1 Well Volume: \_\_\_\_\_

Depth to Water: 25.32

4 Well Volumes: \_\_\_\_\_

Casing Diameter:  2"  4"

Actual Volume Purged: \_\_\_\_\_

Calculations:

2" - \* 0.1632

4" - \* 0.653

Purge Method:  Bailer  Displacement Pump  Impinger/Vacuum

Sample Method:  Bailer  Other Specify: \_\_\_\_\_

Sheen:  No  Yes, Describe Light

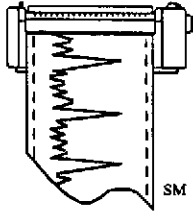
Odor:  No  Yes, Describe Strong HC

Field Measurements:

Time	Volume	pH	Temp.	EC	Color
_____	<u>2</u>	<u>7.1</u>	<u>64</u>	<u>0.7E3</u>	_____
_____	<u>4</u>	<u>7.0</u>	<u>63</u>	<u>0.6E3</u>	_____
_____	<u>6</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sampler: \_\_\_\_\_



# ENVIRONMENTAL TESTING

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

Date: 7/26/00

Project Name: GA

Project No.: \_\_\_\_\_

Well No./Description: MW-3

Depth of Well: 34.96

1 Well Volume: \_\_\_\_\_

Depth to Water: 24.52

4 Well Volumes: \_\_\_\_\_

Casing Diameter: 2" - 4"

Actual Volume Purged: \_\_\_\_\_

### Calculations:

2" - \* 0.1632

4" - \* 0.653

Purge Method:  Bailer  Displacement Pump  Impinger/Vacuum

Sample Method:  Bailer  Other Specify: \_\_\_\_\_

Sheen:  No  Yes, Describe \_\_\_\_\_

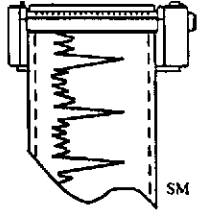
Odor:  No  Yes, Describe strong odor

### Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
_____	<u>2</u>	<u>7.2</u>	<u>68</u>	<u>0.7E3</u>	_____
_____	<u>4</u>	<u>7.0</u>	<u>67</u>	<u>0.5E3</u>	_____
_____	<u>6</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sampler: \_\_\_\_\_



# ENVIRONMENTAL TESTING

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

Date: 9/26/00

Project Name: GA

Project No.: \_\_\_\_\_

Well No./Description: MW-6

Depth of Well: 33.27

1 Well Volume: 1.6

Depth to Water: 23.11

4 Well Volumes: \_\_\_\_\_

Casing Diameter:  2"  4"

Actual Volume Purged: \_\_\_\_\_

### Calculations:

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 \_\_\_\_\_

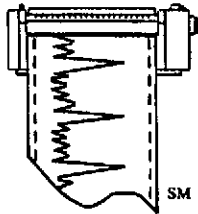
### Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
_____	<u>2.0</u>	<u>7.7</u>	<u>67</u>	<u>0.6E3</u>	_____
_____	<u>4.0</u>	<u>7.2</u>	<u>66</u>	<u>0.5E3</u>	_____
_____	<u>6.0</u>	<u>7.1</u>	<u>66</u>	<u>0.5E3</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sampler: \_\_\_\_\_





# ENVIRONMENTAL TESTING

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

Date: 9/26/00 Project Name: GA  
Project No.: \_\_\_\_\_ Well No./Description: MW-8  
Depth of Well: 29.55 1 Well Volume: \_\_\_\_\_  
Depth to Water: 24.85 4 Well Volumes: \_\_\_\_\_  
Casing Diameter:  2"  4" Actual Volume Purged: \_\_\_\_\_

Calculations:

2" - \* 0.1632  
4" - \* 0.653

Purge Method:  Bailer  Displacement Pump  Impinger/Vacuum \_\_\_\_\_

Sample Method:  Bailer  Other Specify: \_\_\_\_\_

Sheen:  No  Yes, Describe \_\_\_\_\_

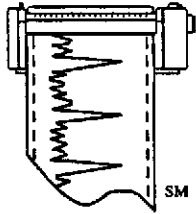
Odor:  No  Yes, Describe HC odor.

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
_____	<u>2</u>	<u>6.6</u>	<u>65</u>	<u>0.566</u>	_____
_____	<u>4</u>	<u>6.9</u>	<u>64</u>	<u>0.25E3</u>	_____
_____	<u>6</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sampler: \_\_\_\_\_



# ENVIRONMENTAL TESTING

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

Date: 9/26/00

Project Name: GA

Project No.: \_\_\_\_\_

Well No./Description: MW-9

Depth of Well: 33.44

1 Well Volume: \_\_\_\_\_

Depth to Water: 24.16

4 Well Volumes: \_\_\_\_\_

Casing Diameter: X 2"    4"

Actual Volume Purged: \_\_\_\_\_

### Calculations:

2" - \* 0.1632

4" - \* 0.653

Purge Method: X Bailer    Displacement Pump    Impinger/Vacuum   

Sample Method: X Bailer    Other Specify: \_\_\_\_\_

Sheen:    No X Yes, Describe HEAVY sheen

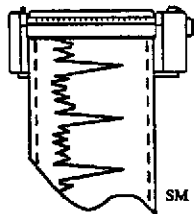
Odor:    No X Yes, Describe Strong odor

### Field Measurements:

Time	Volume	pH	Temp.	EC	Color
_____	<u>8</u>	<u>6.9</u>	<u>67</u>	<u>0.4E3</u>	_____
_____	<u>4</u>	<u>7.0</u>	<u>67</u>	<u>0.5E3</u>	_____
_____	<u>6</u>	<u>7.0</u>	<u>66</u>	<u>0.5E3</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sampler: \_\_\_\_\_



# ENVIRONMENTAL TESTING

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

Date: 7/26/00

Project Name: GA.

Project No.: \_\_\_\_\_

Well No./Description: MW-10

Depth of Well: 38.38

1 Well Volume: 2.1

Depth to Water: 25.58

4 Well Volumes: \_\_\_\_\_

Casing Diameter: X 2" - 4"

Actual Volume Purged: \_\_\_\_\_

### Calculations:

2" - \* 0.1632

4" - \* 0.653

Purge Method:  Bailer  Displacement Pump  Impinger/Vacuum \_\_\_\_\_

Sample Method:  Bailer  Other Specify: \_\_\_\_\_

Sheen:  No  Yes, Describe \_\_\_\_\_

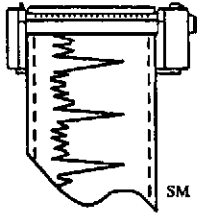
Odor:  No  Yes, Describe H C

### Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
_____	<u>2</u>	<u>7.3</u>	<u>67</u>	<u>0.5E3</u>	_____
_____	<u>4</u>	<u>7.8</u>	<u>66</u>	<u>0.5E3</u>	_____
_____	<u>6</u>	<u>7.1</u>	<u>66</u>	<u>0.5E3</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sampler: \_\_\_\_\_



# ENVIRONMENTAL TESTING

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

Date: 9/26/00

Project Name: GA

Project No.: \_\_\_\_\_

Well No./Description: MW-11

Depth of Well: 34.30

1 Well Volume: 1.8

Depth to Water: 23.35

4 Well Volumes: \_\_\_\_\_

Casing Diameter:  2"  4"

Actual Volume Purged: \_\_\_\_\_

### Calculations:

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.	EC	Color
_____	<u>2.0</u>	<u>7.5</u>	<u>78</u>	<u>0.5E3</u>	_____
_____	<u>4.0</u>	<u>7.3</u>	<u>67</u>	<u>0.5E3</u>	_____
_____	<u>6.0</u>	<u>7.1</u>	<u>66</u>	<u>0.5E3</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sampler: \_\_\_\_\_

## **APPENDIX D: QUALITY ASSURANCE/QUALITY CONTROL PROGRAM**

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

- Groundwater samples were collected in duplicate 40 milliliter vials.

Service No. \_\_\_\_\_

**CITY OF SAN LEANDRO  
APPLICATION TO PERFORM WORK  
IN THE PUBLIC RIGHT-OF-WAY**

00536  
Permit Number  
9-26-00  
Date Approved

Work Site: 301 E 14th Street - W Broadmoor and W. Garcia.  
Applicant: Name Environmental Testing Address 1792 Regent Ave San Jose CA Tel. (408) 453-1800  
Owner: Name Mr. Lee Address 301 E 14th St. San Leandro CA Tel. (510) 338-5473

Purpose of Permit:

- Utility     Street Excavation     Curb, Gutter Sidewalk, Driveway     Other \_\_\_\_\_

Detailed Description and Dimensions of Work: Open 4 well bores for measurement of groundwater depth/samples.

Plan Submitted: Yes  No \_\_\_\_\_ Profile Submitted: Yes \_\_\_\_\_ No \_\_\_\_\_  
Date Work to be Started: 9/26/00 Date Work to be Completed by: 9/15/00  
Building Permit No. \_\_\_\_\_ State Encroachment Permit No. \_\_\_\_\_  
Oro Loma Permit No. \_\_\_\_\_ Alameda County Flood Control Permit No. \_\_\_\_\_

Compliance with State Labor Code: In accordance with Section 3800

- Applicant has on file, with the City of San Leandro, evidence that workman's compensation insurance is carried.  
 Applicant will not employ anyone so as to become subject to the workman's compensation laws of California.

Statement of State Contractor's License: In accordance with Section 7031.5 of the State Business and Professions Code.

- Applicant has State License No. 716002, Class A in full force and effect.  
 Applicant is exempt from the State Contractor's License Law for the following reason(s): \_\_\_\_\_

By the application and acceptance of this permit, the undersigned intending to be legally bound does hereby agree that all work performed will be in accordance with all applicable provisions of this permit and all regulations, provisions, and specifications as adopted by the City. Further, the undersigned agrees that this permit is to serve as a guaranty for payment of all permit and/or inspection charges as billed by the City. Any misrepresentation of information requested from the applicant on this form shall make this permit null and void.

Signature: [Signature] Date: 9/26/00

**PLEASE CALL 577-3308 FOR INSPECTIONS**

**SPECIAL PROVISIONS**

Backfill Required PER CITY STD. DETAILS & SPEC.  
Pavement Section Required \_\_\_\_\_  
Minimum Depth of Cover \_\_\_\_\_  
Police & Fire Dept. to be notified 24 hours prior to start: YES \_\_\_\_\_ NO   
1500 - WILL BE RETURN AFTER THE CITY ENVIRONMENTAL DEPT. RECEIVED THE REPORT.

SEE REVERSE SIDE FOR GENERAL PROVISIONS  
APPLICABLE TO ALL PERMIT WORK

**INSPECTION RECORD**

Date	Comments	Insp.	Hrs. Charged

NOTE: 1 hr. Minimum charge per inspection stop      Hours forwarded from reverse side: \_\_\_\_\_  
TOTAL HOURS CHARGED: \_\_\_\_\_

**PERMIT IS VALID WHEN SIGNED**

Any omission on the part of the City to specify on this permit any rule, regulation, provision, or specification shall not excuse the permittee from complying with all requirements of law and appropriate ordinances and all applicable regulations, provisions, and specifications adopted by the City of San Leandro.

**ISSUE FOR CITY ENGINEER**

[Signature]

**FEES**

PERMIT FEE: 100 To Acct. #3308  
RESTORE/ INSPECT DEPOSIT: \_\_\_\_\_ To CN # \_\_\_\_\_  
STREET CUT FEE: \_\_\_\_\_ TO ACCT #3304  
TOTAL: 600

- All charges collected at permit insurance  
 All charges to be billed to CN # \_\_\_\_\_

**APPENDIX F: 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

Scott O. Seery  
Alameda County Department of Environmental Health  
1131 Harbor Bay Parkway, #250  
Alameda, California 94502-6577

Mike Bakaldin  
City of San Leandro Environmental Department  
835 E. 14th Street, Suite 200  
San Leandro, California 94577