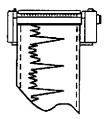
THIRD QUARTER 1998

INSTALLATION OF SIX GROUNDWATER-MONIFORING **WELLS AND QUARTERLY MONITORING REPORT**

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

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I. INTRODUCTION

Environmental Testing & Management (ETM) has continued the quarterly groundwater monitoring program and related environmental activities during the calendar third quarter of 1998 at German Autocraft (GA) 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.

Six additional groundwater monitoring wells were installed for the site this quarter. The existing well network also includes one well installed by the City of San Leandro along West Broadmoor. Also included in the well network as a potential receptor is private former agricultural well located at the 141 Farrelly residence. This brings the total number of wells in the GA well network to twelve (12).

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 by 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, maintenance of the passive skimmer system in the former tank pit area, and a brief description of the progress of the development of corrective actions at the site.

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, 1998

Work included supervision and installation of groundwater monitoring wells, well development, water level gauging and sampling, data analysis, and report preparation. Activity highlights during this period are as follows:

- August 27, 1998 Bayland Drilling, Inc. installed monitoring wells MW-10, and MW-11 and drilled the boring for construction of MW-5.
- August 28, 1998 Bayland Drilling, Inc. installed monitoring wells MW-5, MW-6 and MW-8.
- August 31. 1998 Bayland Drilling, Inc. installed monitoring well MW-9. An additional monitoring well (what would have been MW-7) was attempted on Garcia Avenue however, a steel pipe was encountered and the boring terminated.
- September 2 4, 1998 ETM developed the newly installed wells by surging and purging approximately 55 gallons from each of the newly installed wells.
- September 30, 1998 ETM measured groundwater elevations and collected groundwater samples from monitoring wells MW-1, MW-2, and MW-3. The samples from MW-1, MW-2, and MW-3 were submitted to a Department of Health Services (DHS)-certified laboratory for analysis of Total Petroleum Hydrocarbons as Gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX).

- What about new wells??

"" W. Brownmer and irrigation wells?

IV. SOIL INVESTIGATION

The objective of our subsurface soil investigation on August 27 - 31, 1998 was to collect the data necessary to further define the extent of soil and groundwater contamination in the vicinity of the previous USTs and capillary zone of the site. Specifically, the objectives of this investigation were as follows:

A. PRELIMINARY ACTIVITIES

Prior to beginning drilling, ETM obtained the necessary drilling permits from the Alameda County Public Works Agency (Appendix A) and encroachment permits from the City of San Leandro (Appendix B). The Health and Safety plan was reviewed by all workers at a "tailgate meeting" prior to commencement of field work. Prior to beginning drilling, ETM coordinated underground utility location with Underground Service Alert and Norcal Underground Locating.

B. SOIL INVESTIGATION PROCEDURES/FINDINGS

On August 27 - August 31, 1998, soil samples were collected from 6 borings (MW-5, MW-6, MW-8, MW-9, MW-10 and MW-11) drilled off the site on public and private properties and at the site for lithologic identification, and chemical analysis. The locations of the soil borings/well locations are shown on **Figure 2**.

A CME 75 truck-mounted drill rig, equipped with 7.25-inch OD and 3.25-inch ID hollow-stem augers was used to drill soil borings. Downhole equipment was decontaminated by steam cleaning in advance. The soil borings were sampled at 5 foot intervals (5 feet, 10 feet, etc.) for lithologic description and chemical analysis. Boring total depths ranged from to 31.5 to 41.5 feet below the ground surface (bgs) and were completed as monitoring wells.

Soil samples were collected for lithologic description and chemical analysis. Soil was sampled using 1.5-foot long split-spoon samplers. The split spoons were fitted with 1.5-inch OD, 6-inch long brass sleeves for sample collection. Soil cuttings were placed in drums.

Soil samples were collected for lithologic description under the direct supervision of a California licensed Registered Geologist. Boring logs are included in this report in Appendix C. All soil samples were field screened for organic vapors using a portable HNU photo-ionization detector (PID) analyzer calibrated for organic compounds. Based on the results of the field inspection, selected samples were submitted for laboratory analysis. All samples collected for chemical analysis were covered at each end with Teflon sheets, capped, taped, labeled, sealed in air-tight plastic bags, and placed on ice for delivery to the laboratory. Chain-of-custody information was recorded for each sample and shipped with the sample container. ETM delivered the samples to the Entech Analytical Labs, Inc. in Sunnyvale, California for chemical tests. The soil samples were analyzed for TPHg and BTEX by EPA Method SW 846-5030/8020.

The exploratory boring logs indicate that the underlying soil at the site generally consist of silty and sandy clays, and clayey sands to sand ranging from approximately 25 to 35 feet below ground surface. Groundwater occurs in a sandy strata first encountered at approximately 25 feet below ground surface. A silty clay aquitard underlies the aquifer. The aquifer appeared to be weakly confined.

Boring MW-5

Boring MW-5 as shown on Figure 3 was located on the GA site southeast of the former UST area. A soil sample collected at approximately 25 feet registered a PID concentration of 1 ppm as isobutylene. The soil sample collected at 21' feet did not contain target contaminants concentrations above laboratory detection limits for TPHg or BTEX.

Boring MW-6

Boring MW-6 was located north of the former USTs on Garcia Avenue (Figure 3). A soil sample collected at approximately 30 feet registered a PID concentration of 110 ppm as isobutylene.

Boring MW-8

Boring MW-8 was located southwest of the former UST on the sidewalk along Garcia Avenue (Figure 3). A soil sample collected at approximately 20 feet registered a PID reading of 1 ppm as isobutylene. A soil sample collected at approximately 20 feet did not contain target contaminants concentrations above laboratory detection limits for TPHg or BTEX. A soil sample collected at approximately 30 feet registered a PID reading of 40 ppm as isobutylene. A soil sample collected at approximately 30 feet contained 1.3 mg/Kg TPHg, 0.0052 mg/Kg benzene, <0.005 toluene, <0.005 mg/Kg ethyl-benzene, and 0.0056 mg/Kg xylenes.

Boring MW-9

Boring MW-9 was located approximately 150 feet northwest of the former USTs (Figure 3). A soil sample collected at approximately 21' did not contain target contaminants concentrations above laboratory detection limits for TPHg or BTEX. A soil sample collected at approximately 31 feet registered a PID reading of 100 ppm as isobutylene. A soil sample collected at approximately 36' contained <1 mg/Kg TPHg, 0.0019 mg/Kg benzene, <0.005 toluene, <0.005 mg/Kg ethyl-benzene, and 0.005 mg/Kg xylenes.

Boring MW-10

Boring MW-10 was located approximately 300' northwest of the former USTs (Figure 3). A soil sample collected at the 21' depth did not contain target contaminants concentrations above laboratory detection limits for TPHg or BTEX. A soil sample collected at approximately 31' contained <1 mg/Kg TPHg, 0.0054 mg/Kg benzene, <0.005 toluene, <0.005 mg/Kg ethyl-benzene, and 0.005 mg/Kg xylenes.

Boring MW-11

Boring MW-11 was located on the sidewalk along W. Broadmoor, approximately 290 feet northwest of the former USTs. A sample collected at the 21' depth did not contain target contaminants concentrations above laboratory detection limits for TPHg or BTEX.

Copies of the certified laboratory reports including chemical test results from Entech Analytical Labs are included in **Appendix D** and summarized in **Table 1** (Soil Sample Gasoline Chemical Test Results).

V. GROUNDWATER ELEVATION AND GRADIENT

us officife wells measured!

Static groundwater level elevation data collected from on-site groundwater wells on September 30, 1998, indicated that the elevation of the shallow groundwater surface beneath the site ranged from 25.68 to 25.95 feet above mean sea level. The estimated groundwater flow direction was to the southwest (approximate gradient = 0.003 ft/ft). The newly installed wells have not been surveyed and so the potentiometric data is not plotted. Groundwater contour data of the entire well array will be included in the next quarterly report.

Table 2 presents the recent groundwater elevation data and **Figure 4** shows estimated groundwater flow direction as interpreted from the groundwater potentiometric elevation data.

The potentiometric groundwater elevation at the site was observed to drop approximately five (5) feet compared to the gauging event of the previous quarter and is attributed to natural aquifer discharge.

The observed hydraulic gradient at the subject site is relatively flat. The gradient may change due to groundwater recharge or extraction, seasonal changes and natural aquifer outflow.

VI. GROUNDWATER SAMPLING AND ANALYTICAL RESULTS

On September 30, 1998, groundwater samples were collected from MW-1, MW-2, and MW-3 following the groundwater sampling procedures presented in Appendix E. The groundwater samples were analyzed for TPHg and BTEX, using EPA Methods 5030, modified 8015, and 8020 by Entech Analytical Labs, Inc. of Sunnyvale, California. The laboratory report and chain-of-custody documents are included in Appendix D. The field sampling data sheets are presented in

Compared to the previous quarter, the results of the recent groundwater testing showed a general variation in TPHg and BTEX concentrations as some analyte concentrations increased while others decreased. Most of the BTEX chemical constituents continue to exceed their respective California Drinking Water Maximum Contaminant Levels (MCLs) or Federal Action Levels (AL) (**Table 4**).

Appendix F. The quality assurance/quality control description is included in Appendix G.

The sample from MW-1, located upgradient of the former gasoline tank area, contained: TPHg at 140,000 micrograms per liter (μ g/L); benzene at 5,800 μ g/L which exceeds its MCL of 1 μ g/L; toluene at 29,000 μ g/L which exceeds its MCL of 150 μ g/L; ethyl benzene at 3,500 μ g/L which exceeds its MCL of 700 μ g/L, and; total xylenes at 18,000 μ g/L which exceeds its MCL of 1,750 μ g/L,

The sample from MW-2, located down gradient of the former gasoline tank area, contained 24,000 μ g/L of TPHg, 600 μ g/L of benzene, 77 μ g/L of toluene, 680 μ g/L of ethyl benzene, and 580 μ g/L of total xylenes.

Monitoring well MW-3, also located down gradient of the former gasoline tank area, contained $42,000 \,\mu\text{g/L}$ of TPHg, $4,300 \,\mu\text{g/L}$ of benzene, $1,400 \,\mu\text{g/L}$ of toluene, $1,800 \,\mu\text{g/L}$ of ethyl benzene, and $6,600 \,\mu\text{g/L}$ of total xylenes.

Historic groundwater chemical test data is presented in Table 5.

VII. DISCUSSIONS AND CONCLUSIONS

Observations made during installation of groundwater monitoring wells for the GA fuel release this quarter are consistent with historical observations for the site. Groundwater samples will be collected from all wells in the GA network during the next quarter. Samples will be tested for MtBE at that time.

Available data, including data from the third quarter 1998 monitoring events, indicate that groundwater flow patterns beneath the site are consistent with previous monitoring events. Groundwater flowed toward the southwest at the site for the single gauging event of the third calendar quarter of 1998. The recent groundwater sampling event showed a general variation in concentrations of TPHg and BTEX from those concentrations measured in the previous quarter. Various chemical constituents continue to exceed their respective California Drinking Water Maximum Contaminant Levels (MCLs) or Federal Action Levels (AL) at MW-1, MW-2 and MW-3.

VIII. RECOMMENDATIONS

We recommend that the monitoring wells continue to be monitored and gauged on a quarterly basis to comply with the ACDEH requirements and to assess trends in constituent concentrations over time. The data will be used to support development of a corrective action plan at the site.

IX. 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 & Mgmt. 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 ETM 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.

X. REFERENCES

- California Code of Regulations, Title 22, 66260.21, "Environmental Health Standards", 6/23/95.
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- Environmental Testing and Management, Second Quarter 1996 Environmental Activities Report, German Autocraft, 301 East 14th Street, San Leandro, California, August 8, 1996.
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- Environmental Testing and Management, Fourth Quarter 1995 Environmental Activities Report, German Autocraft, 301 East 14th Street, San Leandro, California, February, 1995.
- Woodward-Clyde Consultants, Hydrogeology of Central San Leandro and Remedial Investigation of Regional Groundwater Contamination, San Leandro Plume, San Leandro, California, Volume I, December 23, 1993.

TABLE 1. SOIL SAMPLE GASOLINE CHEMICAL TEST RESULTS

Locations: MW-5, MW-6, MW-8, MW-9, MW-10, MW-11

Date Sampled: August 28 - 31, 1998

Units: mg/Kg Soil

LOCATION	SAMPLE DEPTH	TPHg	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES
MW-5	21'	<1	<0.005	<0.005	<0.005	<0.005
MW-8	21'	<l< th=""><th><0.005</th><th><0.005</th><th><0.005</th><th><0.005</th></l<>	<0.005	<0.005	<0.005	<0.005
	31'	1.3	0.0052	<0.005	<0.005	0.0056
MW-9	21'	<1	<0.005	<0.005	<0.005	<0.005
	36'	<1	<0.019	<0.005	<0.005	<0.005
MW-10	21.5'	<1	<0.005	<0.005	<0.005	<0.005
	31'	<1	0.0054	<0.005	<0.005	<0.005
MW-11	21'	<1	<0.005	<0.005	<0.005	<0.005

where is MW-6 soil data?

TABLE 2. THIRD QUARTER 1998 GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA

		September	r 30 , 1998
WELL	CASING ELEVATION ¹	Depth to	Groundwater Elevation
MW-1	49.61	23.66	25.95
MW-2	50.14	24.46	25.68
MW-3	49.44	23.69	25.75

 $^{^{1}\}mathrm{Elevations}$ in feet above mean sea level.

TABLE 3. HISTORIC GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION

DATA

	Groundwater	Surface Elevati	On*
DATE	MW-1	MW-2	MW-3
12/31/90	19.15 ³	•	_
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
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

²Elevations in feet above mean sea level.

³This elevation was determined by using the depth of 30.46' measured by The Environmental Construction Company shortly after installation of MW-1 on December 31, 1990 and the surveyed top of casing elevation of 49.61 at MW-1 on January 6, 1995.

DATE	MW-I	MW-2	MW-3
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

TABLE 4. GROUNDWATER CHEMICAL TEST RESULTS

Locations: MW-1, MW-2, MW-3

Date Sampled: September 30, 1998 Units: µg/L

WELL	TPHg	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES
MW-1	140,000	5,800	29,000	3,500	18,000
MW-2	24,000	600	77	680	580
MW-3	42,000	4,300	1,400	1,800	6,600
MCL/AL4	-	1	150	700	1,750

⁴Maximum 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 5. HISTORIC GROUNDWATER CHEMICAL TEST RESULTS

Locations: MW-1, MW-2, MW-3

Units: µg/L

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

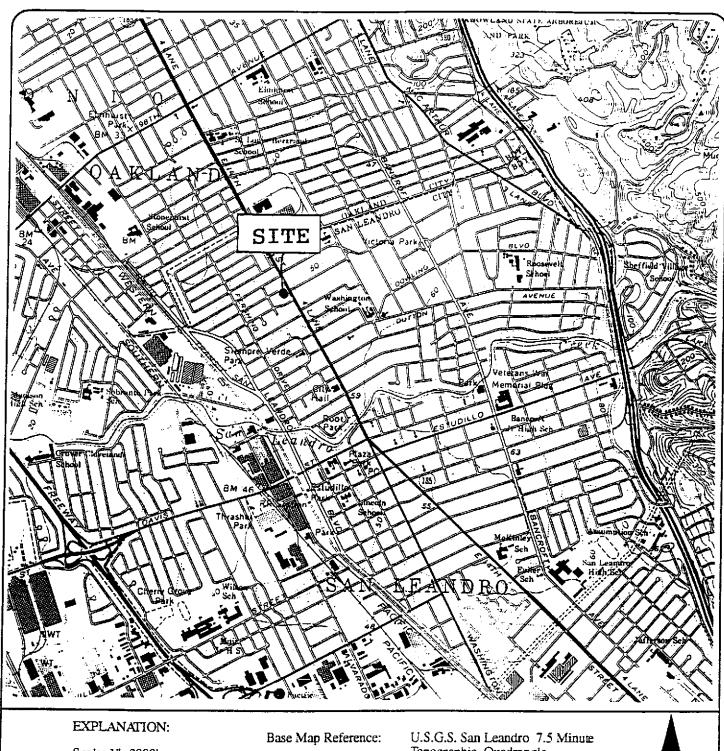
⁵N/A = Not Analyzed. The California Regional Water Quality Control Board initiated the requirement of quantitation of MtBE as an additional analyte for EPA Method 8020 as of January 12, 1996. The samples not analyzed for MtBE in this table pre-date the recent new requirement.

⁶This value may be inaccurate. Please refer to the second quarter 1996 report which includes an evaluation of MtBE which cast doubt on the validity of this laboratory test.

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-	XYLENES	MtBE
					BENZENE		
MW-1	4/25/97	180,000	6,900	20,000	2,600	13,000	N/A
	4/25/97	170,000	6,500	20,000	2,500	13,000	N/A
	7/17/97	220,000	8,300	41,000	2,700	16,000	N/A
	10/21/97	240,000	9,400	33,000	3,300	22,000	<5
	3/10/98	120,000	11,000	46,000	3,700	21,000	<5
	6/6/98	110,000	7,600	32,000	4,800	23,000	<5
	9/30/98	140,000	5,800	29,000	3,500	18,000	N/A
MW-2	1/6/95	980,000	9,400	5,600	19,000	42,000	N/A
	7/6/95	71,000	5,300	1,800	6,100	9,000	N/A
	10/2/95	40,000	2,900	200	2,800	3,600	N/A
	1/12/96	260,000	2,600	2,200	6,300	7,800	<12,500
	4/13/96	30,000	1,900	370	2,300	2,400	520 ⁷
	7/26/96	180,000	1,400	640	2,100	5,000	<5,000
	10/21/96	62,000	2,100	<0.5	2,100	2,700	N/A
	1/28/97	46,000	1,500	94	1,800	2,000	N/A
	4/25/97	23,000	790	26	820	730	N/A
	7/17/97	95,000	2,200	<0.5	3,100	4,300	N/A
	10/21/97	31,000	2,000	<0.5	2,100	1,900	<5
	3/10/98	19,000	730	44	820	1,000	<5
	6/6/98	16,000	670	1,100	510	1,200	<5
	9/30/98	24,000	600	77	680	580	N/A
MW-3	1/6/95	740,000	11,000	2,300	8,300	28,000	N/A

 $^{^7}$ This value may be inaccurate. Please refer to the second quarter 1996 report which includes an evaluation of MtBE which cast doubt on the validity of this laboratory test.

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-	XYLENES	MtBE
					BENZENE		
MW-3	7/6/95	86,000	12,000	8,600	4,900	19,000	N/A
	10/2/95	100,000	15,000	11,000	6,000	20,000	N/A
	1/12/96	84,000	6,500	4,100	3,200	12,000	<5,000
i	4/13/96	48,000	7,600	3,600	2,800	9,400	<2,500
	7/26/96	62,000	6,400	3,100	3,000	11,000	<2,500
	10/21/96	110,000	5,400	2,400	2,500	9,800	N/A
	1/28/97	130,000	5,500	15,000	2,300	12,000	N/A
	4/25/97	180,000	6,900	20,000	2,600	13,000	N/A
,	7/17/97	69,000	5,100	1,100	1,800	8,600	N/A
	10/21/97	58,000	4,300	1,300	2,100	8,000	4
	3/10/98	25,000	3,000	1,300	1,100	3,700	<5
	6/6/98	52,000	4,400	1,900	2,300	6,900	<5
	9/30/98	42,000	4,300	1,400	1,800	6,600	N/A



Scale: 1"=2000'

1000' 2000' Topographic, Quadrangle.



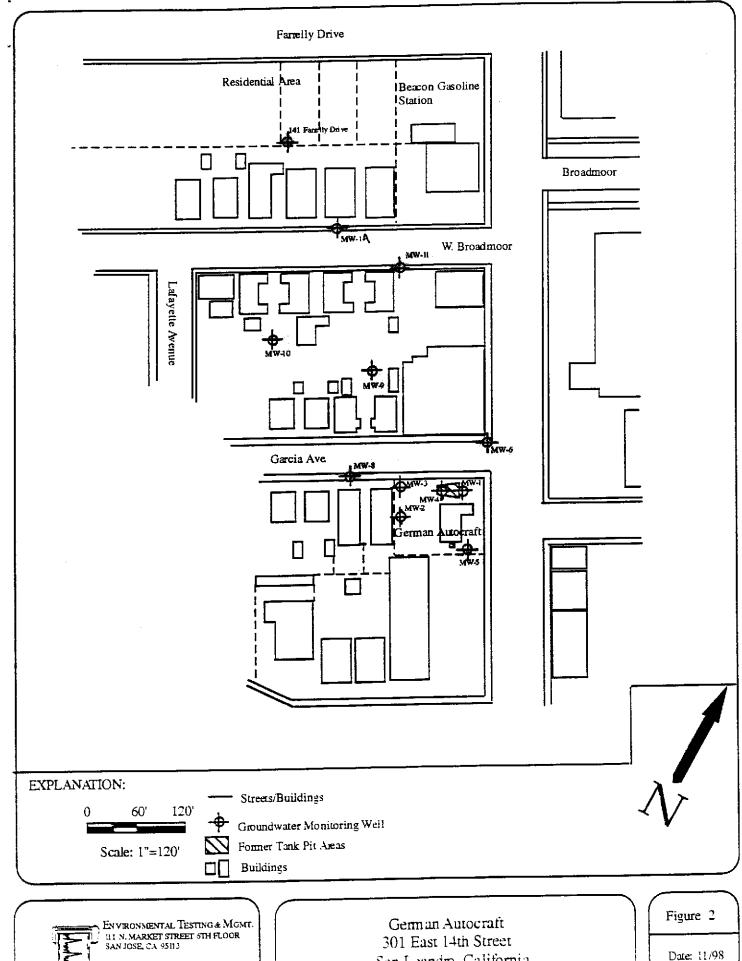


ENVIRONMENTAL TESTING & MOMT 111 N. MARKET ST. SUITE 600 SAN JOSE, CALIFORNIA 95113

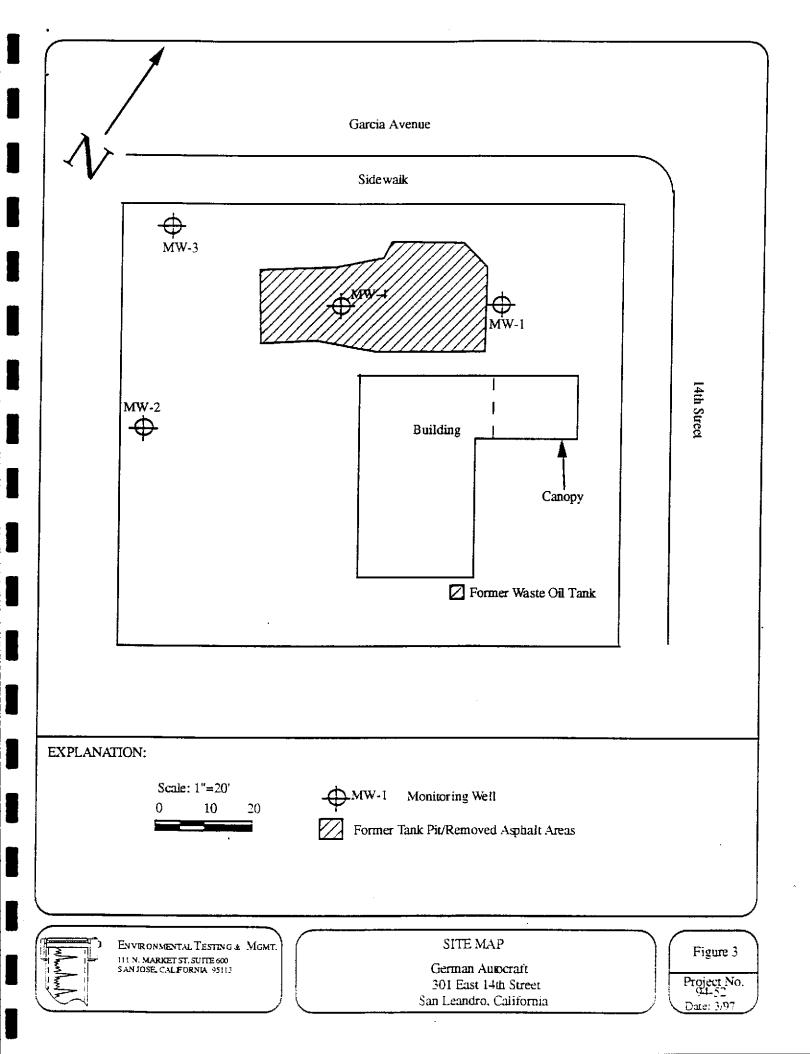
LOCATION MAP German Autocraft 301 East 14th Street San Leandro, California

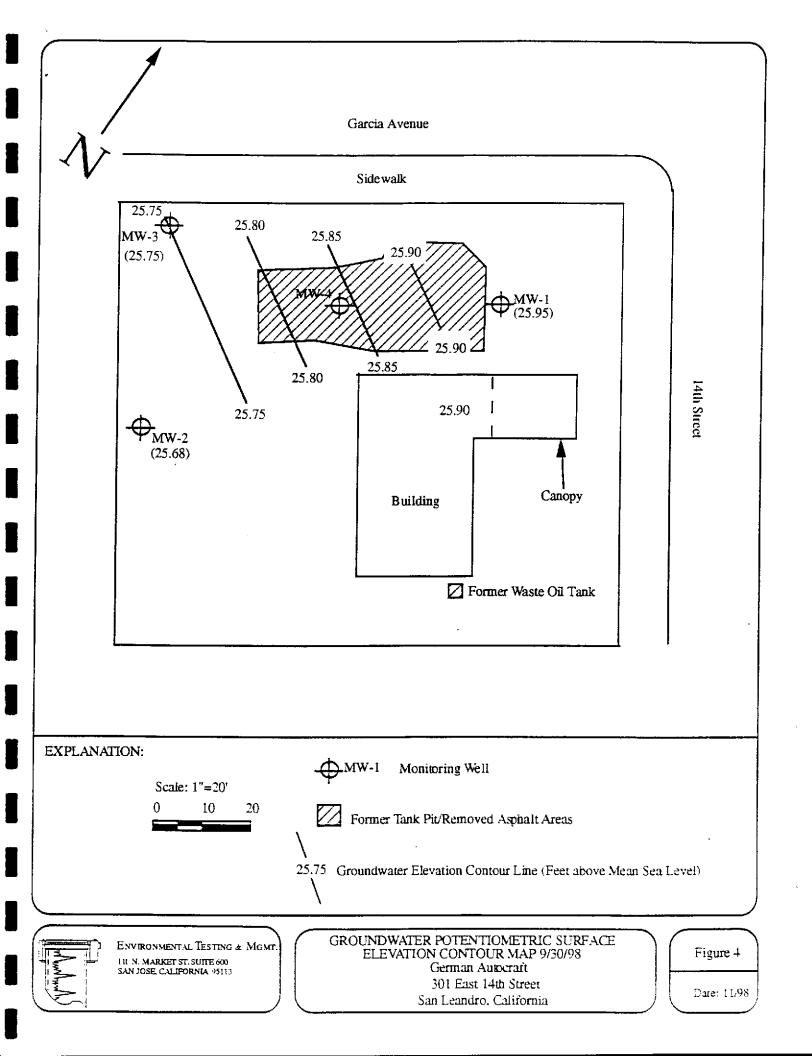
Figure 1

Project No. 94-52 Date: 3/97



San Leandro, California







ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION 951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651 FAX (510) 670-5262 PHONE (510) 470-5575 ANDREAS CODFREY (519) 679-3248 ALVIN KAN

DRILLING PERMIT	APPLICATION
for applicant to complete	FOR OFFICE USE
LOCATION OF PROJECT German Autocraft 301 E 14th Street, CAN LEAN DRO	PERMIT NUMBER 98WZ 355 WELL NUMBER
and neighborhood /(treetc.	APN
California Coordinates Source R. CCZ R. Accuracy C. R.	PERMIT CONDITIONS
CCS R CCZ R	Circled Person Requirements Appr)
	(A) GENERAL
CLIENT ALTONOMY LOS	1. A permit application should be submitted to At to
Name German Antocraft/Mr. Lee Address 301214 \$ St. Phone	arrive at the ACTWA office five days prior w
Address 30 E 4 = St. Phone City SAN LEANDTO CA Zip 94577	proposed starting date.
City States and Day of the City of the Cit	2 Submit to ACTWA within 60 tays after completion of permitted work the original Department of Water
APPLICANT OF THE STATE OF LANGET	Remunera Water Well Drillers Report or equivalent for
APPLICANT Name Tom Price/Environmental Tayting KMg mt. Fee 1408) 922 3929 Address III N. Marketst. GH. France (408) 938 0939	well projects, or drilling logs and location stretch for
Fax (40x) 937 a 27	esotrehoical projects
City SAN TOSP CA Zip 95113	Differentit is void if project net began within 90 days of
CAY	approvai datt.
TYPE OF PROJECT	8. WATER SUPPLY WELLS
West Construction Geotecimical Investigation	 Minimum surface well thickness is two inches of cement grout placed by brane.
Cathodic Protection G General G	2. Minimum seal depth is 50 feet the menicipal and
Wester Segrety C Contamination	industrial wells or 20 feet for dements and inigation
Menitoring G Well Destruction G	wells unless a lesser depth is epecially approved.
	C. CROUNDWATER MONITORING WELLS
Proposed water supply well use	ENCTORING STEEDWETTE
New Domestic U Replacement Domestic U	. Minimum surface seal thickness is resp miches of
Musicipal () Irrigation C Industrial C Cither C roundwater C	current great placed by unitie.
Industrial C Cities G yould work with the	2. Minimum send death for manituring wells is the
Monitoring	utaximum depus processible or 20 foet.
DESCLING METHOD: Mud Resery G Air Resery G Augus	(D) GEOTECHNICAL
Cable D Other D	Backfill bore hair with compacted cuttings or heavy
	bengente and upper two feet with compacted anternal.
DRILLER'S LICENSE NO. 374152-	In areas of known or suspersion consumering, bearing
United a Dicesses No.	coment prout shall be used in place of compacted cuttings.
WELL PROJECTS	Z. CATROUIC
Drug Hole Distreter & in Maximum 40	Fill hole above anote rone with concrete placed by treme. F. WELL DESTRUCTION
Casing DiameterIR. Depth R.	Ser nunchen.
Surface Seal Depth 23 ft. Number 7	G. SPECIAL CONDITIONS
GEOTZCHNICAL PROJECTS	च्या च्या च्याप्याच्या चर्या = 1
Number of Borings Maximum	
Hole Dunneter in Depth 1	$\lambda \lambda$
0/./-0	/\\
ESTIMATED STARTING DATE 8/19/98	DATE 8/18/98
ESTIMATED COMPLETION DATE	APPROVED DATE ONO 128

i hereby squee to comply with all requirements of this permit and Alement County Ordinance No. 73-58.

APPLICANT'S .IGNATURE_

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

93277

Permit Number 5-15-95

Applicant: Name E	nAntocraft / On s				
Owner: Name M		Address III N.	Market	St ム些 Floor SANTO	(c 951/21.1408)938-093
Duenoco of D	rilee Mym	Address 301 E	14 th CT S	ANLEANDRO	1e(510) 638 547
Purpose of Permit:					2 Charlenger
				Saif	2 groundwater ution investigation.
Utility U	Street Excavation	Curb, Gutter Sid	iewalk, Orivew	lay Other 311	WHEN THE CHICATION.
Detailed Description	and Dimensions of Works	inctallat	ion oc	(1) around	1 Water
Monitorina	and Dimensions of Work:	11.3/4//	120 /	W. Bradama	
attached	ficure.	VAIR OUT		BA - DIVERSE LANGE	
<u></u>	- 75012				
Plan Submitted:	Yes No		Profile Sub	mitted: Yes	No .
	ted: 8/12/98			o Se Completed By:	
Building Permit No.				achment Permit No.	13/1
Oro Loma Permit No.				nty Flood Control Permit	No. 71 BE conquer
_	e Labor Code: +In accordance			nty rivod control Permit	NG. 7 C 752 C FANGUAR
- Competence with State	Filabor code: *In accordance	With Section Day	id. , ij	i ii	in the
Applica:	nt has on file, with the City	v of San Leandro.	evidence tha	at workman's compensation	insurance is carried.
		, · · ·	,		1
Applica	nt Will not employ anyone so	as to become suit	niect to the w	unckman's commensation la	es of California
					= 17
Statement of State Co	ontractor's License: In account has State License No. A 7 1/2 C - 5 7 # ont is exempt from the State C	indance with Sect	ion 7031.5 of	the State Business and F	rofessions podey ENDRO
Applica	or has State License No A	71/102	Class	A in full for	DE SAN LEAT
- Dri	1/er C-57 #	374153	C/344 C	-57 Bayland) 1/1/1 - 0 1008
Applicar	nt is exempt from the State C	Contractor's Lice	ense Law for t	he following reason(s):	VIN 18 1920
					ROT-RANS
	Signed:	3308	- & Mgm	<u>17 · Date:</u>	8/5/58
ų.	DIFAC	:E CALL 577- 2008	EOD INSPECTIO	. <u></u>	•
	PLEAS	SE CALL 577-2708	FOR INSPECTIO	. <u></u>	
	PLEAS SPECIAL PROVISIONS	SE CALL 577-EF-08	FOR INSPECTIO	. <u></u>	WHEN SIGNED
Backfill Required_	SPECIAL PROVISIONS	SE CALL 577-EF-08	FOR INSPECTIO	MS PERMIT IS VALID	
Backfill Required_ Pavement Section Rec	SPECIAL PROVISIONS PER CIPY STA	SE CALL 577-EF-08	FOR INSPECTIO	HS -	rt of the City to
· -	SPECIAL PROVISIONS PER GIFT STA	SE CALL 577-EF-08	FOR INSPECTIO	Any omission on the pa specify on this permit tion, provision, or sp	rt of the City to any rule, regula- ecification shall
Pavement Section Red Minimum Depth of Co Police & Fire Dept.	SPECIAL PROVISIONS PER (17: 57) quired < ver to be notified 24 hours price	ANNA P.A DET	FOR INSPECTION	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permit	rt of the City to any rule, regula- ecification shall ee from complying
Pavement Section Red Minimum Depth of Co Police & Fire Dept.	SPECIAL PROVISIONS PER (17: 57) quired < ver to be notified 24 hours price	ANNA P.A DET	FOR INSPECTION	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permit with all requirements priate ordinances and	rt of the City to any rule, regula- ecification shall ee from complying of law and appros all applicable reg-
Pavement Section Red Minimum Depth of Co Police & Fire Dept.	special provisions Per Air STA quired SAFES. ver to be notified 24 hours price FFF CFF 75,30 FFA	ANNA P.A DET	FOR INSPECTION	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permitt with all requirements priate ordinances and ulations, provisions,	rt of the City to any rule, regula- ecification shall ee from complying of law and appros
Pavement Section Red Minimum Depth of Co Police & Fire Dept.	special provisions Per Air STA quired SAFES, ver to be notified 24 hours price FGE 0425,30 FTA	AAINA P.N DET	FOR INSPECTION	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permit with all requirements priate ordinances and ulations, provisions, adopted by the City.	any rule, regula- ecification shall ee from complying of law and appro- all applicable reg- and specifications
Pavement Section Red Minimum Depth of Cor Police & Fire Dept.	special provisions Pen Air. STA quired SCAPES. to be notified 24 hours price FFE 0475,30 FFA MITTED MICH. TO P	SE CALL 577 EAS ADINA PLA DET OF to start: YES NIFEL OF SAMPLIAN	FOR INSPECTION	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permitt with all requirements priate ordinances and ulations, provisions,	any rule, regula- ecification shall ee from complying of law and appro- all applicable reg- and specifications
Pavement Section Red Minimum Depth of Cor Police & Fire Dept.	SPECIAL PROVISIONS PED AIR STA quired CAPEC. to be notified 24 hours price MITTED MIDA TO P	ANNA PLA DET	FOR INSPECTION	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permit with all requirements priate ordinances and ulations, provisions, adopted by the City.	rt of the City to any rule, regula- ecification shall ee from complying of law and appro- all applicable reg- and specifications
Pavement Section Red Minimum Depth of Cor Police & Fire Dept.	special provisions Pen Air. STA quired SCAPES. to be notified 24 hours price FFE 0475,30 FFA MITTED MICH. TO P	ANNA PLA DET	FOR INSPECTION	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permit with all requirements priate ordinances and ulations, provisions, adopted by the City.	rt of the City to any rule, regula- ecification shall ee from complying of law and appro- all applicable reg- and specifications
Pavement Section Red Minimum Depth of Cor Police & Fire Dept.	SPECIAL PROVISIONS PED AIT STA quired CAPEC. to be notified 24 hours price to be notified 24 hours price MITTED 1200 TO 1200 EEE REVERSE SIDE FOR GENERAL IN APPLICABLE TO ALL PERMIT	ANNA PLA DET	FOR INSPECTION	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permit with all requirements priate ordinances and ulations, provisions, adopted by the City.	any rule, regula- ecification shall ee from complying on law and appro- all applicable reg- and specifications
Pavement Section Red Minimum Depth of Cor Police & Fire Dept.	SPECIAL PROVISIONS PED AIR STA quired CAPEC. to be notified 24 hours price MITTED MIDA TO P	ANNA PLA DET	FOR INSPECTION	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permitt with all requirements priate ordinances and ulations, provisions, adopted by the City.	rt of the City to any rule, regula- ecification shall ee from complying of law-and appros all applicable reg- and specifications
Pavement Section Red Minimum Depth of Cor Police & Fire Dept.	SPECIAL PROVISIONS PED AIT STA quired CAPEC. to be notified 24 hours price to be notified 24 hours price MITTED 1200 TO 1200 EEE REVERSE SIDE FOR GENERAL IN APPLICABLE TO ALL PERMIT	BE CALL 577-E-8 BANNA PLA DET OF to start: YES WIELL PROVISIONS WORK	FOR INSPECTION	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permitt with all requirements priate ordinances and ulations, provisions, adopted by the City.	any rule, regula- ecification shall ee from complying on law and appro- all applicable reg- and specifications
Pavement Section Red Minimum Depth of Co Police & Fire Dept.	SPECIAL PROVISIONS PER CIPY STA quired S	BE CALL 577-E-8 BANNA PLA DET OF to start: YES WIELL PROVISIONS WORK	A) CS S	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permitt with all requirements priate ordinances and ulations, provisions, adopted by the City. SSUF FOR CITY SEED PERMIT FEE: RESTORE/INSPECT	rt of the City to any rule, regula- ecification shall ee from complying of law and appropal all applicable reg- and specifications Y ENCINETA TO ACCT #3306
Pavement Section Red Minimum Depth of Co Police & Fire Dept.	SPECIAL PROVISIONS PER CIPY STA quired S	BE CALL 577-E-8 BANNA PLA DET OF to start: YES WIELL PROVISIONS WORK	A) CS S	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permit with all requirements priate ordinances and ulations, provisions, adopted by the City. SSUF FOR CIT PERMIT FEE: RESTORE/INSPECT DEPOSIT:	ort of the City to any rule, regula- ecification shall ee from complying on law and appro- all applicable reg- and specifications FIGURES TO CN#
Pavement Section Red Minimum Depth of Co Police & Fire Dept.	SPECIAL PROVISIONS PER CIPY STA quired S	BE CALL 577-E-8 BANNA PLA DET OF to start: YES WIELL PROVISIONS WORK	A) CS S	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permit with all requirements priate ordinances and ulations, provisions, adopted by the City. SERMIT FEE: RESTORE/INSPECT DEPOSIT: STREET CUT FEE:	rt of the City to any rule, regula- ecification shall ee from complying of law and appro- all applicable reg- and specifications Y ENCINETA TO ACCT #3306 TO CN# TO ACCT #3304
Pavement Section Red Minimum Depth of Co Police & Fire Dept.	SPECIAL PROVISIONS PER CIPY STA quired S	BE CALL 577-E-8 BANNA PLA DET OF to start: YES WIELL PROVISIONS WORK	A) CS S	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permit with all requirements priate ordinances and ulations, provisions, adopted by the City. SSUF FOR CIT PERMIT FEE: RESTORE/INSPECT DEPOSIT:	rt of the City to any rule, regula- ecification shall ee from complying of law and appro- all applicable reg- and specifications Y ENCINETA TO ACCT #3306 TO CN# TO ACCT #3304
Pavement Section Red Minimum Depth of Co Police & Fire Dept.	SPECIAL PROVISIONS PER CIPY STA quired S	BE CALL 577-E-8 BANNA PLA DET OF to start: YES WIELL PROVISIONS WORK	A) CS S	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permitt with all requirements priate ordinances and ulations, provisions, adopted by the City. SERVIT FEE: RESTORE/INSPECT DEPOSIT: STREET CUT FEE: TOTAL:	rt of the City to any rule, regula- ecification shall ee from complying of law and approx all applicable reg- and specifications Y ENCINETS TO ACCT #3306 TO CN# TO ACCT #3304
Pavement Section Red Minimum Depth of Cor Police & Fire Dept.	SPECIAL PROVISIONS PED AIR STA quired CAPEC. to be notified 24 hours price AITE DESCRIPTION PECORD Comments Comments	PROVISIONS Insp.	Hrs. Chrgd.	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permit with all requirements priate ordinances and ulations, provisions, adopted by the City. SERMIT FEE: RESTORE/INSPECT DEPOSIT: STREET CUT FEE:	rt of the City to any rule, regula- ecification shall ee from complying of law and approx all applicable reg- and specifications Y ENCINETS TO ACCT #3306 TO CN# TO ACCT #3304
Pavement Section Red Minimum Depth of Cor Police & Fire Dept. A DE-ONCO S Date NOTE: 1 hr. minimum	SPECIAL PROVISIONS PER CIFY STA quired STA per CIFY STA quired STA APPLICABLE 24 hours prior APPLICABLE FOR GENERAL INSPECTION RECORD Comments Comments Charge Hours forwarde	BE CALL 577-E-8 BANNA PLA DET OF to start: YES WIELL PROVISIONS WORK	Hrs. Chrgd.	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permitt with all requirements priate ordinances and ulations, provisions, adopted by the City. PERMIT FEE: RESTORE/INSPECT DEPOSIT: STREET CUT FEE: TOTAL: All charges collect	rt of the City to any rule, regula- ecification shall ee from complying of law and appro- all applicable reg- and specifications Y ENCINETS TO ACCT #3306 TO CN# TO ACCT #3304
Pavement Section Red Minimum Depth of Cor Police & Fire Dept.	SPECIAL PROVISIONS PER CIFY STA quired STA per CIFY STA quired STA APPLICABLE 24 hours prior APPLICABLE FOR GENERAL INSPECTION RECORD Comments Comments Charge Hours forwarde	PROVISIONS Insp.	Hrs. Chrgd.	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permitt with all requirements priate ordinances and ulations, provisions, adopted by the City. PERMIT FEE: RESTORE/INSPECT DEPOSIT: STREET CUT FEE: TOTAL: All charges collect	TO CN# TO ACCT #3304
Pavement Section Red Minimum Depth of Cor Police & Fire Dept. A CF-ONCA S Date NOTE: 1 hr. minimum	SPECIAL PROVISIONS PER CIFY STA quired STA per CIFY STA quired STA APPLICABLE 24 hours prior APPLICABLE FOR GENERAL INSPECTION RECORD Comments Comments Charge Hours forwarde	PROVISIONS Insp.	Hrs. Chrgd.	Any omission on the pa specify on this permit tion, provision, or sp not excuse the permit with all requirements priate ordinances and ulations, provisions, adopted by the City. PERMIT FEE: RESTORE/INSPECT DEPOSIT: STREET CUT FEE: TOTAL: All charges cottled issuance	TO ACCT #3304

Service	No.	,

Rey. Date 3/91

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

~ - · ~ B B.

Permit Number

	, IN THE	FORCIC RIGHT OF WAT	つ -15 -98				
Work Size	German Autocraft/Gar	cia Ava - Files	T was a land a Date Approved				
Applicant: Na	To De Erviconner File	HIAL WINDFUT C	7.14 Flang SANT COCA 9513 Tel (4108) 938013 F. SANLEANDER CA 94577 Tel (511) 638547				
Outent to	Address	7 . Suth C	2 - (2 - 73.) ANK ((A 72.)				
Purpose of Per	mit- Address	301 E 19 - 17	•				
Utility		outter Sidewalk, Drive	soil be groundwater other pollution investigation.				
	iption and Dimensions of Work: Instal	lation of at	Paruundwater moniliring				
W-115 n-	+ leantime shown exact	Frehed Frank	2. District				
2 W-115		1 on sidewal	k aling Garcis Ave.				
SEE a	Hacked figure						
Plan Submitted:		Profile Sub					
	Started: 3/12/93	Date Work 7	To Be Completed By: $y/15/4y$				
Building Permit	: No	State Encro	pachment Permit No.				
Oro Loma Permit			anty Flood Control Permit No. <u>to be annumeed</u>				
Compliance with	l Stâte/Labor Code? →In accordance with Se	ction 3800."	The second of th				
□ A _F	oplicant has on file, with the City of Sar	n Leandro, evidence th	at workman's compensation insurance is carried.				
. 🗹 Ap	oplicant will not employ anyone so as to b	pecome subject to the	workman's compensation laws of California.				
Statement of St	ate Contractor's License: In accordance	with Section 7031.5 of	f the State Business and Professions Code.				
₽	miles	٠	<u> </u>				
— ар	Delicant has state License No. 11600	Class	in full force and effect. C57(BAY12NAPRECE)VED the following reason(s): CITY OF SAN LEANDRO				
☐ Ap	oplicant is exempt from the State Contract	コー こしょうう or's License Law for 1	the following reason(s): RECTIVED				
	, , , , , , , , , , , , , , , , , , , ,		CITY OF SAN LEANDRO				
	Signed: JOYN (JUL	330E Mam					
	PLEASE CALL	577-2008 FOR INSPECTIO	HS				
	SPECIAL PROVISIONS	3 Sec. 23	PERMIT IS VALID WHEN SIGNED				
Backfill Requi		3 LA TAILS C	Any omission on the part of the City to				
	on Required STEES	specify on this permit any rule, regula-					
Minimum Depth		tion, provision, or specification shall not excuse the permittee from complying					
-Police & Fire	Dept to be notified 24 hours prior to st	art: YES	with all requirements of law and approx.				
THE A LESS	KN FIF OF 125,00 PER WELL		priate ordinances and all applicable reg- ulations, provisions, and specifications				
WILLS FOR	SUBMITTED SOLION TO RESAMY	1{F,	adopted by the City.				
			ISSUE FOR CITY ENGINEER				
	SEE REVERSE SIDE FOR GENERAL PROVISION	MANA LATE					
	APPLICABLE TO ALL PERMIT WORK		Mul AT GROW				
			-///				
	INSPECTION RECORD		SEEES V				
Date	Comments	Insp. Hrs. Chrgd.	PERMIT FEE: 275.00 TO ACCT #3306				
	S SHARRY I X S	ms. ms. unga.	RESTORE/INSPECT				
		!	DEPOSIT: TO CH#				
!		!	STREET CUT FEE: TO ACCT #3304				
			·				
i	:	:	TOTAL:				
-			TOTAL:				
		·	All charges collected at permit				
NOTE: 1 hr. mi	inimum charge Hours forwarded from s	reverse side:	ć				
NOTE: 1 hr. mi	inimum charge Hours forwarded from modection stop	reverse side:	All charges collected at permit issuance				
NOTE: 1 hr. mi	inimum charge Hours forwarded from pection stop TOTAL HOURS CHARGED:	reverse side:	All charges collected at permit				

Environmental Testing and Management, San Jose, CA

Exploratory Boring Log

Project No. GA Boring/Well No. MW-5

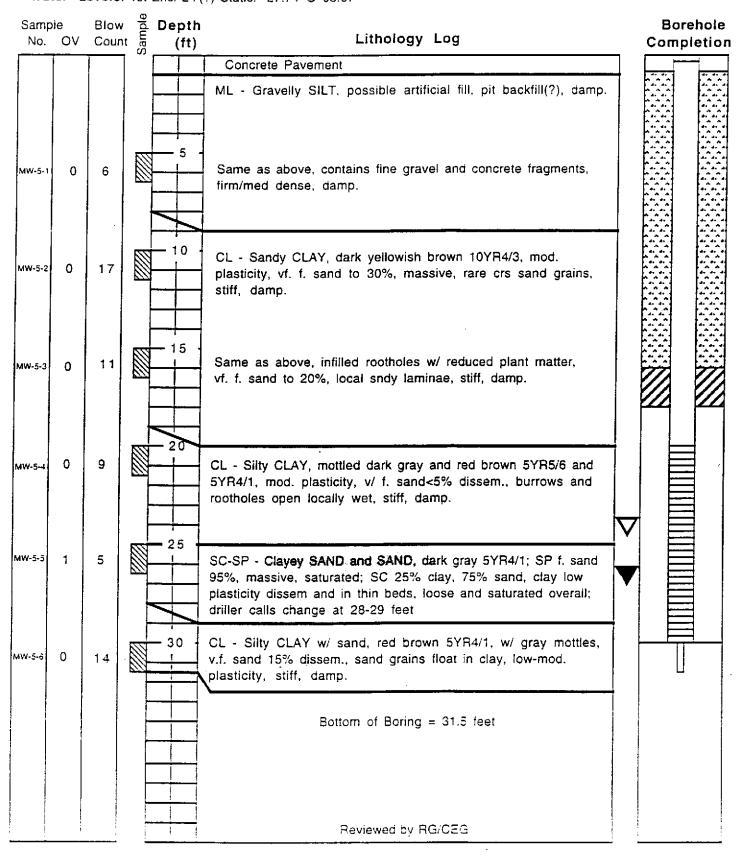
Client: German Autocraft Date Drilled: Aug. 28, 1998 Location:301 E. 14th St. San Leandro, CA Logger: CMP

Drilling Method: 8" OD Hollowstem **Permit**: City of San Leandro 98277

Water Levels: 1st Enc: 24'(?) Static: 27.74 @ 08:07

Well Installed: 2" dia. Sch 40 PVC Total Depth: 31.5' Casing Depth: 30' Screen Length and Size: 10' of 0.020" Top of Sand Pack: 18' Sand Size: 2/12

Top Bentonite:16' Cement Grout Seal:16' to 0.5'



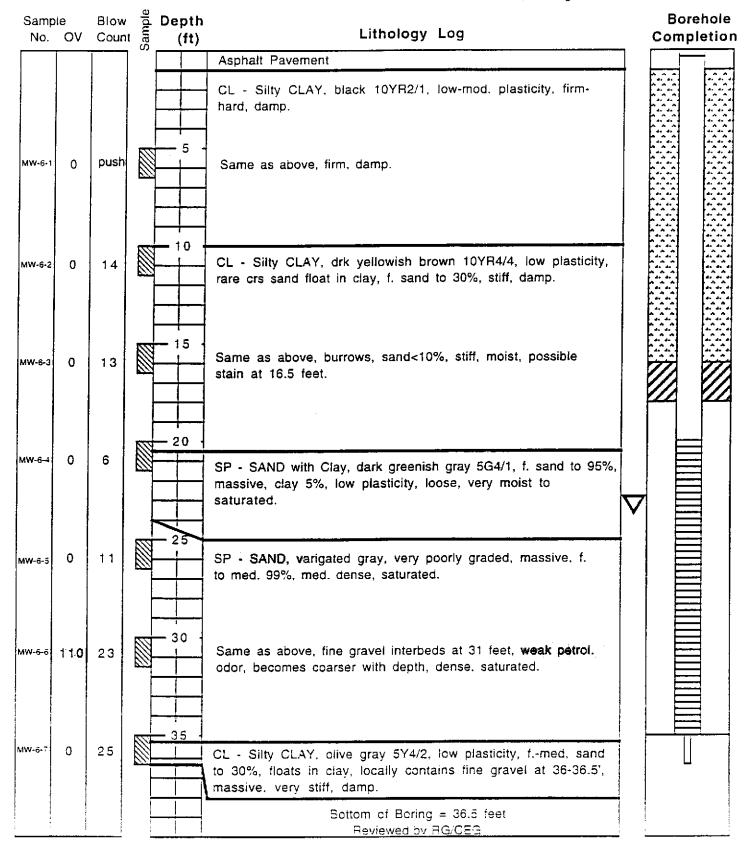
Client: German Autocraft Date Drilled: Aug. 27, 1998 Location: 301 E. 14th St. San Leandro, CA Logger: CMP

Drilling Method: 8" OD Hollowstem **Permit**: City of San Leandro 98277

Water Levels: 1st Enc: 23.5 ± Static: NM

Well Installed: 2" dia. Sch 40 PVC
Total Depth: 36.5' Casing Depth: 35'
Screen Length and Size: 15' of 0.020"
Top of Sand Pack: 18' Sand Size: 2/12

Top Bentonite:16' Cement Grout Seal:16' to 0.05'



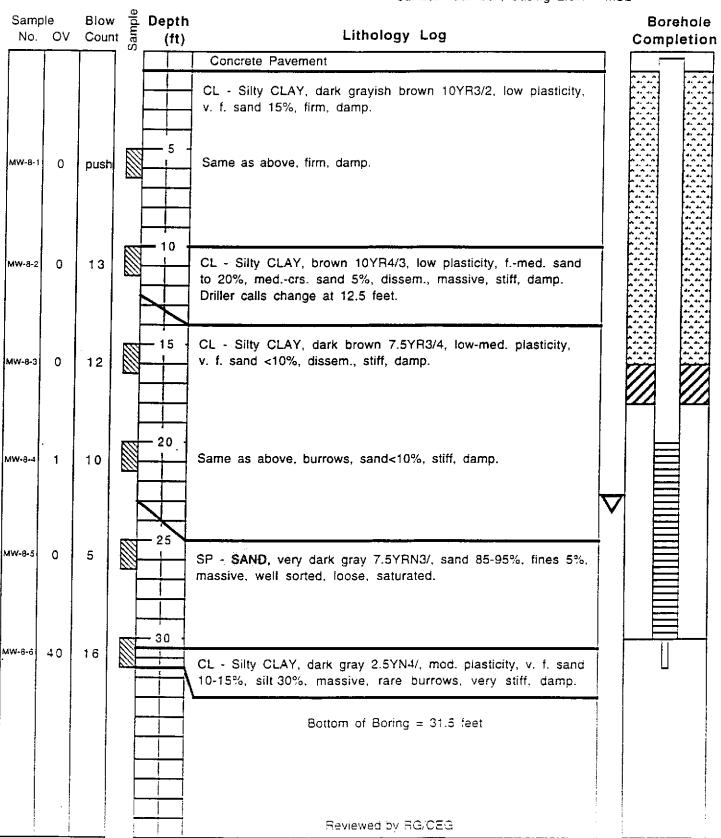
Client: German Autocraft Date Drilled: Aug. 27, 1998 Location: 301 E. 14th St, San Leandro, CA Logger: CMP

Drilling Method: 8" OD Hollowstem Permit: City of San Leandro 98277

Water Levels: 1st Enc: 23.5+@14:35 Static: NM

Well Installed: 2" dia. Sch 40 PVC Total Depth: 31.5' Casing Depth: 30' Screen Length and Size: 10' of 0.020" Top of Sand Pack: 18' Sand Size: 2/12

Top Bentonite: 16' Cement Grout Seal:16' to 0.05'



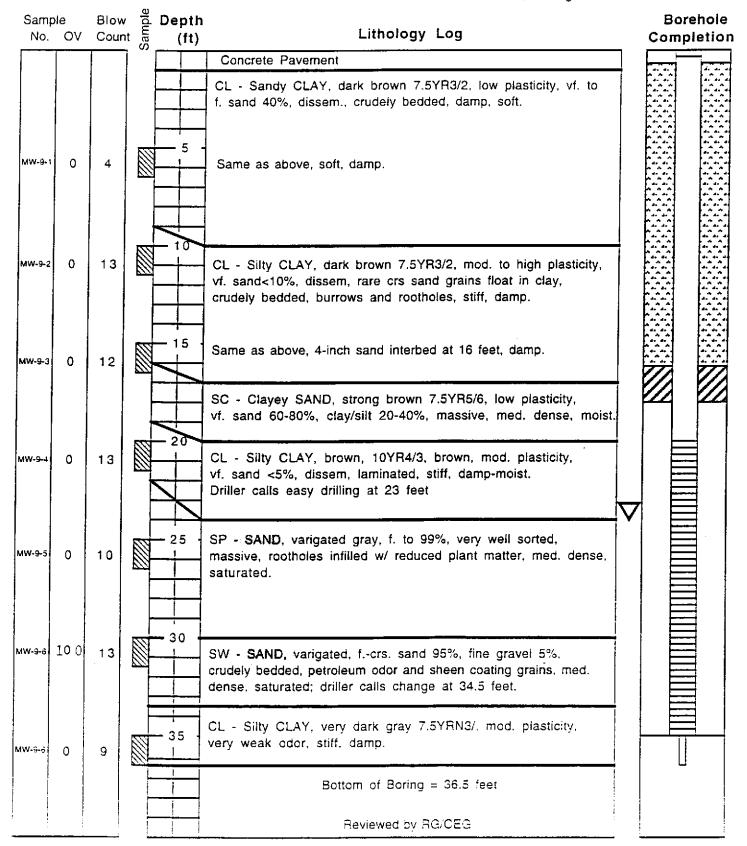
Client: German Autocraft Date Drilled: Aug. 31, 1998 Location: 301 E. 14th St. San Leandro, CA Logger: CMP

Drilling Method: 8" OD Hollowstem Permit: City of San Leandro 98277

Water Levels: 1st Enc: 24'+@10:40 Static: NM

Well Installed: 2" dia. Sch 40 PVC Total Depth: 36.5' Casing Depth: 35' Screen Length and Size: 15' of 0.020" Top of Sand Pack: 18' Sand Size: 2/12

Top Bentonite: 16' Cement Grout Seal: 16' to 0.5'



Page 1 of 2

Project No. GA Boring/Well No. MW-10

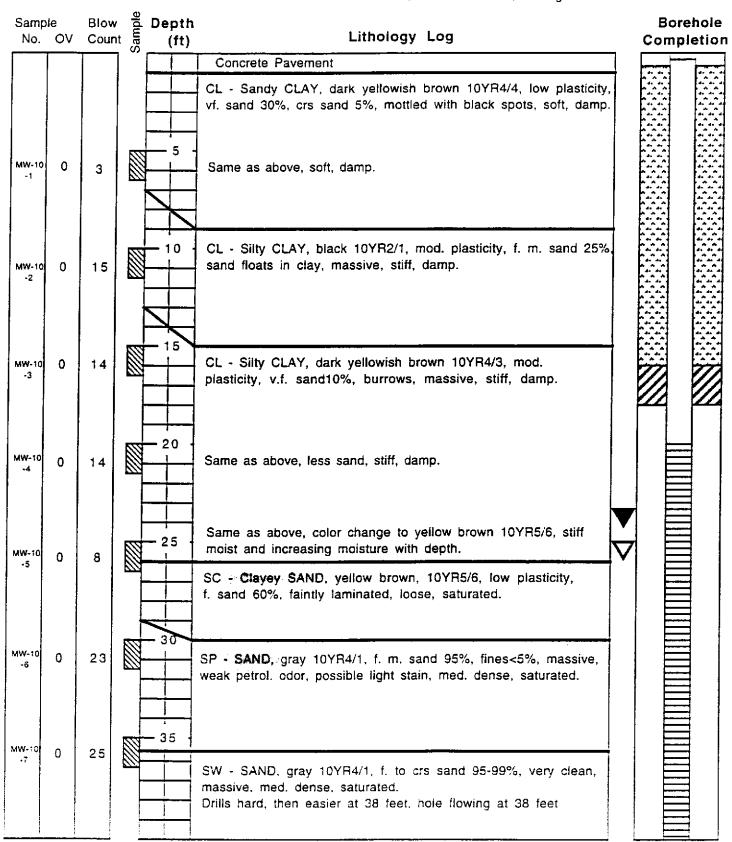
Client: German Autocraft Date Drilled: Aug. 28, 1998 Location: 301 E. 14th St. San Leandro, CA Logger: CMP

Drilling Method: 8" OD Hollowstem Permit: City of San Leandro 98277

Water Levels: 1st Enc: 26'@ 11:05 Static: 24'@ 11:39

Well Installed: 2" dia. Sch 40 PVC Total Depth: 41.5' Casing Depth: 40' Screen Length and Size: 20' of 0.020" Top of Sand Pack: 18' Sand Size: 2/12

Top Bentonite: 16' Cement Grout Seal: 16' to 0.5'



Environmental Testing and Management, San Jose, CA

Exploratory Boring Log

Page 2 of 2

Project No. GA Boring/Well No. MW-10

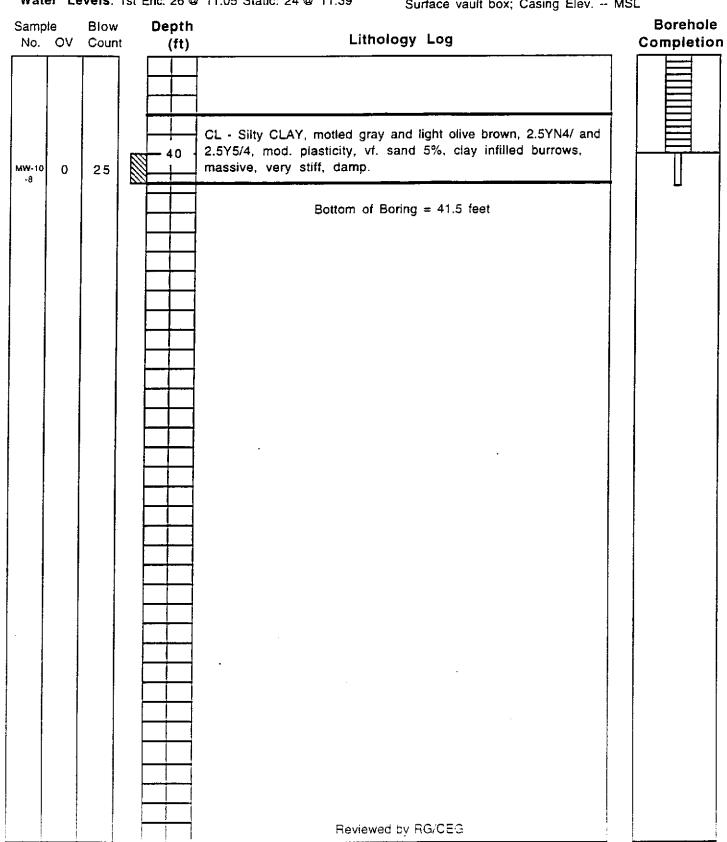
Client: German Autocraft Date Drilled: Aug. 28, 1998 Location:301 E. 14th St, San Leandro, CA Logger: CMP

Drilling Method: 8° OD Hollowstem Permit: City of San Leandro 98277

Water Levels: 1st Enc: 26'@ 11:05 Static: 24'@ 11:39

Well Installed: 2" dia. Sch 40 PVC Total Depth: 41.5' Casing Depth: 40' Screen Length and Size: 20' of 0.020" Top of Sand Pack: 18' Sand Size: 2/12

Top Bentonite: 16' Cement Grout Seal: 16' to 0.5'



Client: German Autocraft Date Drilled: Aug. 28, 1998 Location: 301 E. 14th St, San Leandro, CA Logger: CMP

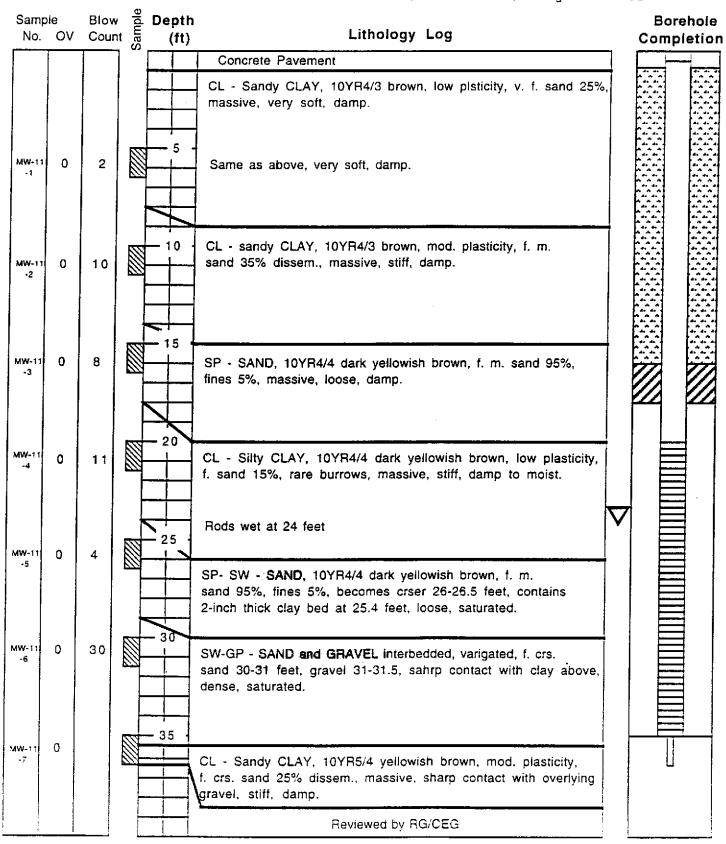
Drilling Method: 8" OD Hollowstem **Permit**: City of San Leandro 98277

Water Levels: 1st Enc:24'@8:09 am Static: NM

Total Depth: 36.5' Casing Depth: 35' Screen Length and Size:15' of 0.020" Top of Sand Pack: 18' Sand Size: 2/12

Well Installed: 2" dia. Sch 40 PVC

Top Bentonite: 16' Cement Grout Seal:16' to 0.5'



Entech Analytical Labs, Inc.

CA ELAP# 2224

525 Del Rev Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Environmental Testing & Management

111 N. Market Street, Suite 600

San Jose, CA 95113

Attn: Tom Price

Date: 9 8/98

Date Received: 8/31/98

Project: GA

PO **=**:

Sampled By: Client

Certified Analytical Report

Soil Sample Analysis: (All results in mg/kg)

Sample ID	MW-5-4(21') 8/28/98			MW-10-4(21.5')		MW-10-6(31')					
Sample Date				8/28/98			8/28/98				
Sample Time					•		ĺ				
Lab #	E15888			E15889			E15890				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Analysis Date	9/1/98			9/1/98			9/1/98				
TPH-Gas	ND	1.0	1	ND	1.0	I	ND	1.0	1	1	8015M
Benzene	ND	1.0	0.005	ND	1.0	0.005	0.0054	1.0	0.005	0.005	8020
Toluene	ND ND	1.0	0.005	ND	1.0	0.005	ND	1.0	0.005	0.005	8020
Ethyl Benzene	ND	1.0	0.005	ND	1.0	0.005	ND	1.0	0.005	0.005	8020
Xylenes	ND	1.0	0.005	ND	1.0	0.005	ND	1.0	0.005	0.005	8020

DF=Dilution Factor

ND= None Detected above DLR

PQL=Practical Quantitation Limit

DLR=Detection Reporting Limit

Michelle L. Anderson, Lab Director

Environmental Analysis Synce 1991

[·] Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2224)

■ Entech Analytical Labs, Inc.

CA ELAP= 2224

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Environmental Testing & Management

111 N. Market Street, Suite 600

San Jose, CA 95113

Attn: Tom Price

Date: 9/8/98

Date Received: 8/31-98

Project: GA

PO =:

Sampled By: Client

Certified Analytical Report

Soil Sample Analysis: (All results in mg/kg)

Sample ID	MW-11-4(2	21')		MW-9-4(21	l')		MW-9-7(3	6')	-		
Sample Date	8/28/98			8/31/98			8/31/98				
Sample Time								_			
Lab ≠	E15891			E15892			E15893				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Analysis Date	9/1/98			9/1/98			9/1/98				
TPH-Gas	ND	1.0	1	ND	1.0	1	ND	1.0	1	I	8015M
Benzene	ND	1.0	0.005	ND	1.0	0.005	0.019	1.0	0.005	0.005	8020
Toluene	ND	1.0	0.005	ND	1.0	0.005	ND	1.0	0.005	0.005	8020
Ethyl Benzene	ND	1.0	0.005	ND	1.0	0.005	ND	1.0	0.005	0.005	8020
Xylenes	ND	1.0	0.005	ND	1.0	0.005	ND	1.0	0.005	0.005	8020

DF=Dilution Factor

ND= None Detected above DLR

PQL=Practical Quantitation Limit

DLR=Detection Reporting Limit

· Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2224)

Michelle L. Anderson, Lab Director

METHOD: Gas Chromatography

QC Batch #: GBG2980901

Date Analyzed: 09/01/98

Matrix: Soil

Quality Control Sample: E15957

Units: ug/kg

PARAMETER	Method #	MB ug/kg	SA ug/kg	SR ug/kg	nā∕kā Sb	SP % R	SPD ug/kg	SPD %R	RPD	QC RPD i	LIMITS %R
Benzene	8020	<5.0	80	ND i	82 i	103 i	37	108	5.1	i 25 i	78-116
Toluene	8020	<5.0	80	ND	81	102	86	107	5.5	25	80-114
Ethyl Benzene	8020	<5.0	80	ND !	81	101	84	106	4.4	25	79-116
Xylenes Gasoline	8020 8015	<5.0 <1000.00	240 1000	ND ND	237 940	99 94	250 970	104 97	5.2 3.1	25 25	82-116 67-121

Note: LCS and LCSD results reported for the following Parameters:

Gasoline

Acceptable LCS and LCSD results are reported when matrix interferences cause MS and MSD results to fall outside established QC limits.

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

Entech Analytical Labs, Inc.

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Chain of Custody/Analysis Work Order

Address:	SOIE 1 SANLE,	`	Puro impler/Com i vw (() c. pecial Instru	chase Or	ct ID: der #: Tele Tele		u-t	Yes	LAB USE	d and inta		
.ab# Sample 1D 16358 (nw~5~1) 1537 (nw~5~1) 1597 (nw-5~1) 1597 (nw-7~4) 1597 (nw-7~4)	(21) (3) (21.55) (3 (1.15) (3 (21') (3, (21') (3	Sample In	Date Collected 8/28/98 8/25/58 1, 4/31/98		Pres.	Sample Container Brass	12/2		Requeste	d Analysis		
Colony By	Price		Received I	By:	351	7.		Date Date	31/98	Time 2. Time	2(. p	m

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Environmental Testing & Management

111 N. Market Street, Suite 600

San Jose, CA 95113

Attn: Tom Price

Date: 9/3/98

Date Received: 8/27/98

Project:

PO =

Sampled By: Client

Certified Analytical Report

Soil Sample Analysis: (All results in mg/kg)

			. 31	,			 	
Sample ID	MW-8-4			MW-8-6		1		
Sample Date	8/27/98			8/27/98			-	
Sample Time								
Lab #	E15768	· · · · · · · · · · · · · · · · · · ·		E15769				
	Result	DF	DLR	Result	DF	DLR	PQL	Method
Analysis Date	8/31/98			8/31/98				
TPH-Gas	ND	1.0	1	1.3	1.0	11	1	8015M
Benzene	ND	0.1	0.005	0.0052	1.0	0.005	0.005	8020
Toluene	ND	1.0	0.005	ND	1.0	0.005	0.005	8020
Ethyl Benzene	ND	1.0	0.005	ND	1.0	0.005	0.005	8020
Xylenes	ND	1.0	0.005	0.0056	1.0	0.005	0.005	8020

DF=Dilution Factor

ND= None Detected above DLR

PQL=Practical Quantitation Limit

DLR=Detection Reporting Limit

· Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2224)

M. Golden, Lab Director

Entyropments, Applicate Photo 1920

METHOD: Gas Chromatography

QC Batch #: GBG4980831

Date Analyzed: 08/31/98

Matrix: Soil

Quality Control Sample: E15490

Units:	ug/kg
CHIW.	UE) RE

PARAMETER	Method #	MB ug/kg	SA ug/kg	SR ug/kg	SP ug/kg	SP % R	SPD ug/kg	SPD %R	RPD	QC RPD	LIMITS %R
Benzene	8020	i <5.0 i	100	ND i	90	90	84	84	6.7	25 i	76-117
Toluene	8020	<5.0	100	ND ;	88	88 ¦	85	85	3.4	25	76-117
Ethyl Benzene	8020	<5.0	100	ND !	87	87	86	86	1.3	25	74-119
Xylenes	8020	i <5.0 i	300	ND i	257	86 i	250 i	83 i	2.5	25	75-120
Gasoline	8015	1 <1000.00 1	1000	ND ¦	1160	116	1210	121	4.2	25	58-120

Note: LCS and LCSD results reported for the following Parameters:

Gasoline

Acceptable LCS and LCSD results are reported when matrix interferences cause MS and MSD results to fall outside established QC limits.

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

Entech Analytical Labs, Inc.

CA ELAP# 2224

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Environmental Testing & Management

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San Jose, CA 95113

Attn: Tom Price

Date: 10 9/98

Date Received: 10.2.98

Project:

PO =

Sampled By Client

Certified Analytical Report

Water Sample Analysis:

Sample ID	MW-1			MW-2			MW-3				
Sample Date	9/30/98			9/30/98			9/30/98				<u> </u>
Sample Time	ŀ								i		
Lab#	E17929			E17930			E17931				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Results in µg/Liter:											
Analysis Date	10/7/98			10/6/98			10/7/98				
TPH-Gas	140,000	400	20000	24,000	100	5000	42,000	100	5000	50	8015M
Benzene	5,800	400	200	600	100	50	4,300	100	50	0.50	8020
Toluene	29,000	400	200	77	100	50	1,400	100	50	0.50	8020
Ethyl Benzene	3,500	400	200	680	100	50	1.300	100	50	0.50	8020
Xylenes	18,000	400	200	580	100	50	6,600	100	50	0.50	8020

DF=Dilution Factor

Micheile L. Anderson, Lab Director

Emiliaryangsungs Lang Kaja Sinina 1437

ND= None Detected above DLR

PQL=Practical Quantitation Limit

DLR=Detection Reporting Limit

[·] Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2224)

METHOD: Gas Chromatography

QC Batch #: GBG2981006

Date Analyzed: 10/06/98

Matrix: Water

Quality Control Sample: E18040

Units: ug/L

PARAMETER	Method #	MB ug/L	SA ug/L	SR ug/L	SP ug/L	SP % R	SPD ug/L	SPD %R	RPD	QC RPD i	LIMITS %R
Benzene	8020 i	< 0.50	i 40	ND	39	99	38	96	2.5	i 25 i	78-112
Toluene	8020	<0.50	40	ND	40	99	39	98	1.6	25	79-111
Ethyl Benzene	8020	< 0.50	40	ND	40	99	39	97	2.8	25	79-114
Xylenes	8020 i	< 0.50	120	ו מא	122	102	118	i 99 i	2.9	25	79-11 6
Gasoline	8015	<50.0	1000	ND	890	89	890	89	0.0	25	65-125

Note: LCS and LCSD results reported for the following Parameters:

Gasoline

Acceptable LCS and LCSD results are reported when matrix interferences cause MS and MSD results to fall outside established QC limits.

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

METHOD: Gas Chromatography

QC Batch #: GBG2981007

Date Analyzed: 10/07/98

Matrix: Water

Quality Control Sample: Blank Spike

Units: ug/L

PARAMETER	Method #	MB ug/L	SA ug/L	SR ug/L	SP ug/L	SP %R	SPD ug/L	SPD %R	RPD	QC RPD i	LIMITS %R
Benzene	8020 i	< 0.50	80	ND i	78	98	81	101	2.9	25 i	78-112
Toluene	8020	<0.50	80	מא ו	79	98	84	105	6.3	25	79-111
Ethyl Benzene	8020	< 0.50	80	ND	85	106	88	110	3.7	25	79-114
Xylenes	8020	<0.50	240	ND	269	112	278	116	3.5	25	79-116
Gasoline	8015	<50.0	1000	ND	910	91	940	94	3.2	25	65-125

Note: LCS and LCSD results reported for the following Parameters:

All

Acceptable LCS and LCSD results are reported when matrix interferences cause MS and MSD results to fall outside established QC limits.

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

Entech Analytical Labs, Inc.

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Chain of Custody/Analysis Work Order

Purchase Order #:

Sampler/Company:

Project ID:

LAB USE ONLY

Samples arrived chilled and intact:

Client:

Address: 3018 14 51 STARALAND.

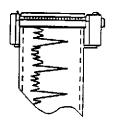
Telep Jate Re	Contact: Telephone #: te Received: um Around: Normal				STAPTICE	vivonments	Ac. (Yes No Notes:						
			Sample I	nformation		•		Xa		Requ	ested Aı	nalysis		
ab #	Sample ID	Grab/ Composite	Matrix	Date Collected	Time Collected	Pres.	Sample Container	TPH's' BTEX						
17124	M160-1	۲۰۸	W	9/30/98		Chin	HUMINDAS	~						
1130	1116-1 116-3 116-3		11					V						
1131	mw-3			1		1	V	<u></u>						
					•									
														
lung Hs) on () Enseiter	1111		Received	By: C. Be. Ca	<u> </u>			Date /			Time 31,		
ling By:	E. Miley	10/3 35	Z Q.∼	Received	Ву:	- 	MIL	in	Date / C	12/50	,	Time	2 h	
ling/Bs			·····	Received	By:				Date	1-/ (3		Time	- J ,	

APPENDIX E: 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 TeflonTM 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.

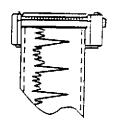
Groundwater samples were collected by gently pouring from the bailer into a 40-milliliter vial until a positive meniscus formed at the top of the vial, each vial was capped, and visually inspected to make sure no bubbles were present. Sample containers are labeled for sampling point reference and chilled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



Sampler: _____

ENVIRONMENTAL TESTING & MGMT. 111 N. MARKET ST., SUITE 600 SAN JOSE, CALIFORNIA 95113 408.938.0939 FAX: 408.938.3929

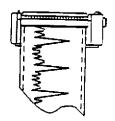
Date: $\frac{Q/3/2}{1}$	√ <u>a</u> :	Project Nam	e: <u>94</u>		_
Project No.:		Well No./De	escription:	N = 1	
Depth of Well:	37 E	l Well Volu	me: <u>3 / 2,</u>		
Depth to Water	23.66	4 W	/ell Volumes:		
Casing Diamete	er: <u>/</u> 2" 4"	Actual Volu	me Purged:	_	
Calculations:		214			
2" - * 0.1632 4" - * 0.653		74			
Purge Method:	BailerI	Oisplacement Pun	npImpinger/	Vacuum	
Sample Method	l: <u> B</u> ailer	Other Sp	ecify:	 	
Sheen: No	Yes, Desc	cribe			
Odor: No	Yes, Desc	cribe			
Field Measurem	nents:				
<u>Time</u>	<u>Volume</u>	рН	Temp.	E.C.	Color
223	<u>a.5</u>	7.02	66	2:1E3	gray
230	5.1	6.5	67	0.9E3	*
23	7.5	ح. ما	<u>63</u>	1.0E3	
					
				<u></u>	
Remarks:					
	••	<u> </u>		·	<u> </u>
			4444		



Sampler:

ENVIRONMENTAL TESTING & MGMT. 111 N. MARKET ST., SUITE 600 SAN JOSE, CALIFORNIA 95113 408.938.0939 FAX: 408.938.3929

Date: <u>9/</u> 2	30/98	Project Nam	ıe: <u>G#</u>		_	
Project No.:		Well No./De	escription:Mu	W-2	——————————————————————————————————————	
Depth of We	ell: <u>33, 77</u>	l Well Volu	me:			
Depth to Wa	uer: <u>=4. 46</u>	4 W	/eil Volumes:			
Casing Diam	neter:2"4"	Actual Volu	me Purged:			
Calculations	:	<u></u>				
2" - * 0.1632 4" - * 0.653					·	
Purge Metho	d: Bailer	Displacement Pun	npImpinge	a/Vacuum		
Sample Meth	od: Bailer	Other Sp	ecify:			
Sheen: N	io Yes, Des	scribe <u>HC</u>			···	
Odor:	No Yes, Des	scribe			_	
Field Measur	ements:					
Time	<u>Volume</u>	рН	Temp.	E.C.	Color	
<u>455</u>	8.5	6.6	64	1.4E3	b xci-	
<u>3 ro</u>	5.0	<u>6-7</u>	65	14E3		
305	7.0	6.7	66	1.4E3		
	-					
						
Remarks:						
					· 	
					-· ·	· · · · · · · · · · · · · · · · · · ·



Sampler:

Environmental Testing & MGMT. 111 n. market st., suite 600 San Jose, california 95113 408.938.0939 fax: 408.938.3929

	30/98	Project Nar	ne: <u>GA</u>		<u></u>
Project No.	:	Well No./D	escription: <u>N</u>	IW-3	
Depth of W	'ell: <u>34. 9</u>	l Weil Voi	ume: ~ }		
Depth to W	ater: <u>23.69</u>	43	Weil Volumes:		
Casing Dian	meter: <u>2"</u> _4"	Actual Volu	ıme Purged:	<u></u>	
Calculations	s:				
2" - * 0.163: 4" - * 0.653					
Purge Metho	od: <u></u> Bailer	Displacement Pu	mplmpinge	r/Vacuum	
	hod:Bailer				
Sheen:	/ No Yes, Des	cribe			
Odor:	No Yes, Des	cribe HC	•		_
Odor: Field Measur		cribe <u>I+ C</u>	<u>•</u>		_
		pH	Temp.	E.C.	<u>Color</u>
Field Measur	rements:			E.C. 1- o E3	Color 9 ray
Field Measur	Yolume	рН			_
Field Measur	Volume	рН 	Temp.	1- 0 E3	_
Field Measur	Volume	рН 	Temp.	1- 0 E3 0.9 E3	gray
Field Measur	Volume	рН 	Temp.	1- 0 E3 0.9 E3	gray
Field Measur	Volume	рН 	Temp.	1- 0 E3 0.9 E3	gray "

APPENDIX G: QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The quality assurance/quality control measures used for groundwater sampling conducted on September 30, 1998 included the following:

• Groundwater samples were collected in triplicate 40 milliliter vials.

APPENDIX H: 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 Fire Department 835 E. 14th Street, Suite 200 San Leandro, California 94577