ENVIRONMENTAL INC

July 27, 1998
Letter 0164.L9

East Bay Municipal Utility District
Wastewater Department
MS 702
P.O. Box 24055
Oakland, CA 94623-1055

RE: Wastewater Discharge Permit Application
Woodfin Construction Corporation Emeryville Site
5800 Shellmound Street
Emeryville, CA 94608

Dear Wastewater Department:

You will find enclosed the following Wastewater Discharge Permit application documents for the subject site.

Applicant Information form (completed).

Process Description form (augmented as follows).

Process Description: The wastewater generating operation consists of the removal of groundwater from construction site trenches or excavations.

Characteristics: All known available groundwater quality information for the site has been obtained and is attached with this application as follows.

- A one page summary of site historical use from an EMG report titled, "Phase I Environmental Site Assesment" dated June 22, 1995. A site map from the report showing two well locations without well designations is also attached.

4701 Doyle Street
Suite 14
Emeryville, CA 94608

510 547 7771
FAX 547 1983

- Summary tables of laboratory groundwater sample analyses, and all available laboratory reports and chain of custody documentation for groundwater samples collected from seven wells designated as ATD1 through ATD7 at the subject site. The samples were collected in August, 1991. Maps showing the site location, well locations, and well designations are also attached. This information was obtained from a February 12, 1992 Applied Geosciences, Inc. report titled, "Phase II Subsurface Investigation." Review of the summary tables indicates that 4 ppm or less of oil and grease was detected in the wells, and that several semivolatile organic compounds, volatile organic compounds, and metals (barium, chromium, copper and zinc) were detected in several of the wells at low concentrations.
- A short report by EMG dated March 25, 1996 titled, "Results of Groundwater Sampling." The report includes a summary table and laboratory reports for groundwater samples from two wells at the site. A map identifying the well designations was not available with the report. It is possible that the sampled wells may be the wells identified in the site map provided in the June 22, 1995 EMG report. Review of the summary table shows that petroleum hydrocarbons and BTEX were not detected, and that low concentrations of barium and mercury were detected.
- A summary table of laboratory groundwater sample analyses, and all laboratory reports and chain of custody documentation for groundwater samples collected from two wells designated as MW1 and MW2 at the site. Wells MW1 and MW2 are designated as wells ATD7 and ATD5, respectively, in the Applied Geosciences 1992 report. This information was obtained from a November 21, 1997 RGA Envrinmental, Inc. report titled, "Groundwater Monitoring and Sampling Report." Review of the summary tables shows that less than 0.25 mg/L of diesel was detected, and that low concentrations of barium, chromium and lead were detected.

Pretreatment Facilities: (see attached Groundwater Pre-Treatment System Diagram). Groundwater which has accumulated in excavated trenches at the construction site is drawn from the trenches into a pipe by a pump. The groundwater is pumped into the top of a 20,000 gallon Baker Tank which performs as a settling tank. By spraying the groundwater into the tank at the top of the tank, the groundwater is aerated. Aeration of the groundwater will reduce COD. Settling of any suspended solids in the tank will reduce TSS concentrations.

After settling, the groundwater will be pumped from the Baker Tank in batch discharges. The intake for pumping out the Baker Tank will be located two feet

above the bottom of the tank and pumping withdrawl rates will be maintained at less than 10 gpm to prevent the entrainment of solids which have settled to the bottom of the tank.

The groundwater will be pumped through two 55-gallon carbon canisters which will be arranged in series prior to discharge to the sanitary sewer. The carbon in the two canisters will treat the low concentrations of organic compounds detected in groundwater at the site prior to discharge of the groundwater to the sanitary sewer.

A pretreatment system sample collection valve will be located between the last carbon canister and the sanitary sewer. Treated groundwater will be discharged to the sanitary sewer at the location shown on the attached map.

Water Source And Use form (augmented as follows).

Water Use and Disposition: The method and calculations used to determine the quantities shown on the table are attached.

Strength Summary form (completed).

Should you have any questions, please do not hesitate to call me at (510) 658-4363.

Very Truly Yours,

RGA Environmental, Inc.

Paul H. King

Paul H. King
Hydrogeologist

Attachments

PHK
0164.L9

EBMUD

PERMIT NUMBER _____

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
APPLICANT INFORMATION

APPLICANT BUSINESS NAME

Hardage Construction Corporation

PERSON TO BE CONTACTED IN EVENT OF EMERGENCY

Chuck Hibert
Name

510 653-0909 — 209 966-8066 or
Day Phone — Night Phone 619 843-2526

510 653-0942
Fax Number

ADDRESS OF PREMISES DISCHARGING WASTEWATER

5800 Shellmound St
Street Address

Emeryville, CA — 94608
City — Zip Code

PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Paul H. King
Name

Hydrogeologist
Title

510 658-4563 — 510 658-9074
Day Phone — Fax Number

FACILITY MAILING ADDRESS

Woodfin Construction Corp
5800 Shellmound St.
Street Address

Emeryville — 94608
City — Zip Code

Electronic Mail Address (E-Mail)

CHIEF EXECUTIVE OFFICER/DULY AUTHORIZED REPRESENTATIVE (see attached letter)

C. L. Hibert Jr. — Project Manager
Name (printed) — Title

5800 Shellmound Street — Emeryville — 94608
Street Address — City — Zip Code

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature (see certification requirements on reverse)

8/6/98
Date

Revised 6/26/97

EBMUD

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
PROCESS DESCRIPTION

FACILITY NAME ~~Woodfin Suite Hotels, Inc~~ Hardage Construction Corp
Emeryville Site

PURPOSE - The **Process Description** is intended to provide a description of the primary business activities and the substances which may enter into the wastewater from the business activity.	Permit Number

BUSINESS ACTIVITY	Standard Industrial Classification	Business Classification Code
Construction Dewatering		

DESCRIPTION OF PRODUCT

TYPE OF PRODUCT OR BRAND NAME	QUANTITIES - INDICATE UNITS	
	Past Year __/__ to __/__ (Mo. Year Mo. Year)	Estimated This Year 8/98 to 12/98 (Mo. Year Mo. Year)
Treated Groundwater	∅ gal	5,000 gallons

PROCESS DESCRIPTION See attached Groundwater Pre-Treatment System Diagram

Process Description List all wastewater generating operations	Characteristics List all substances that may be discharged to the sewer	Process Number From Schematic
Pump groundwater from construction trenches	Diesel ($x < 0.25$ mg/L)	(1)
to Baker Tank. From Baker Tank pump	Oil ($x < 4$ mg/L)	(2)
groundwater through two carbon canisters	low concentrations of	(3)
to Sanitary Sewer.	Ba, Cr, Cu, Zn, Hg, Pb. TSS	(3)

PRETREATMENT FACILITIES

Pretreatment: Check the type of treatment, if any, given wastewater before it is discharged to the community sewer:

☐ None ☑ holding tank ☐ grease trap ☐ oil and water separator ☐ grinding ☐ sedimentation ☐ pH adjustment
☐ biological treatment ☐ screening ☐ chlorination ☑ other (describe) carbon canister

Description: Describe the loading rates, design capacity, physical size, etc. of each pretreatment facility checked above. Identify the side sewer to which treated wastewater is discharged.

See attached description
Discharge point (side sewer) to be installed (see map).

OTHER WASTES: List the type and volume of liquid waste and sludge removed from the premises by means other than the community sewer.

Facility EPA Generator I.D. Number _____

Waste removed by Name, address, State Transporter I.D. No.	Type of Waste Example: Alkaline cleaners, Organic solvents	EPA Waste No.	State Waste No.	Quantity generated lbs. or gal. /month
No other liquid or				
sludge waste removed				
from site.				

Revised 6/26/97

Hardage Construction Corp Emeryville Site

Groundwater Pre-Treatment System Diagram

① Water Table

② Water Level in Construction & Site Trench

③ Intake for Groundwater Pre-Treatment System

④ Pump to remove ground water from trench

⑤ 20,000 gallon capacity Baker Tank

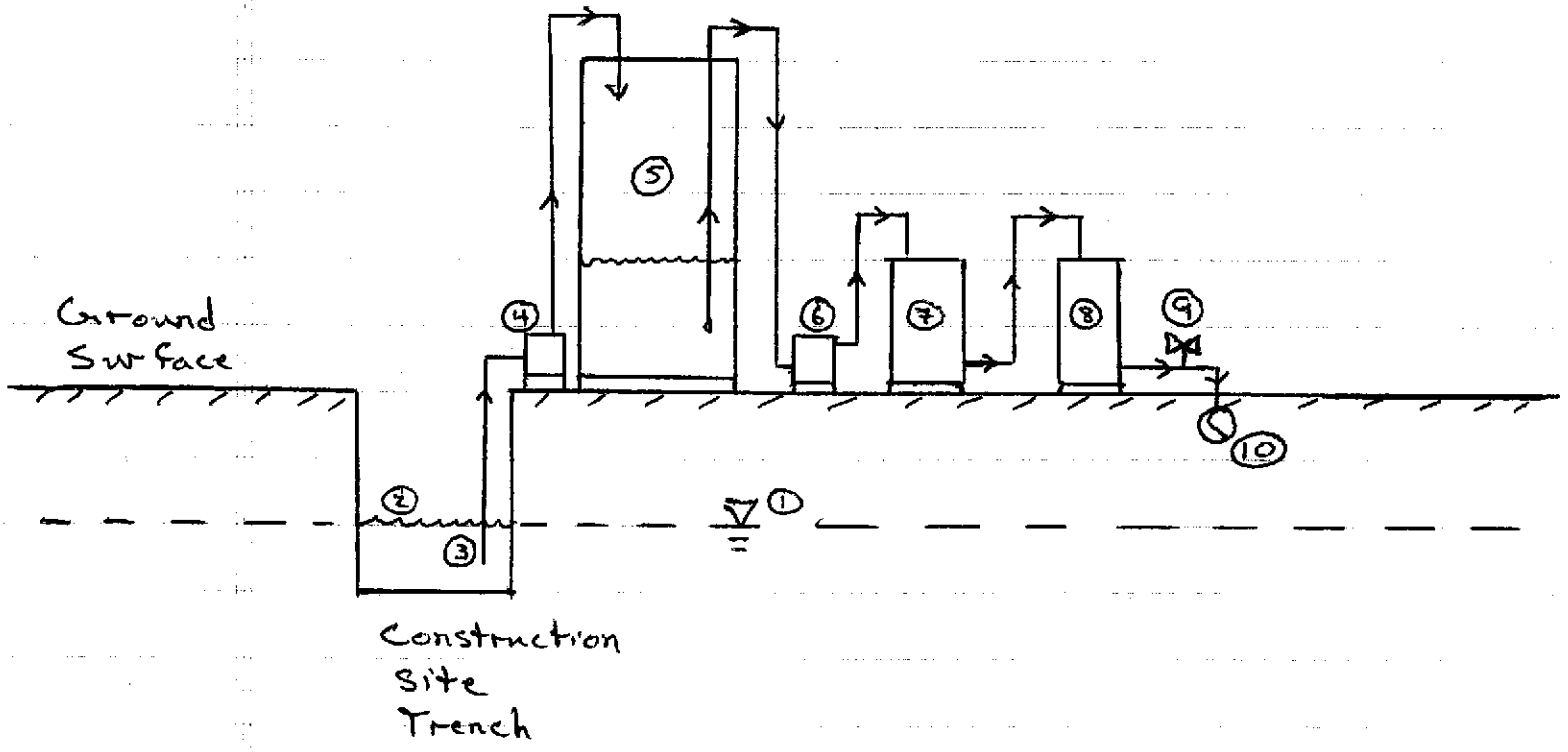
⑥ Transfer pump from Baker Tank to Sanitary Sewer

⑦ First Carbon Canister in a Series of Two

⑧ Second Carbon Canister in a Series of Two

⑨ Pre-Treatment System Sample Collection Valve

⑩ Sanitary Sewer



NOT TO SCALE

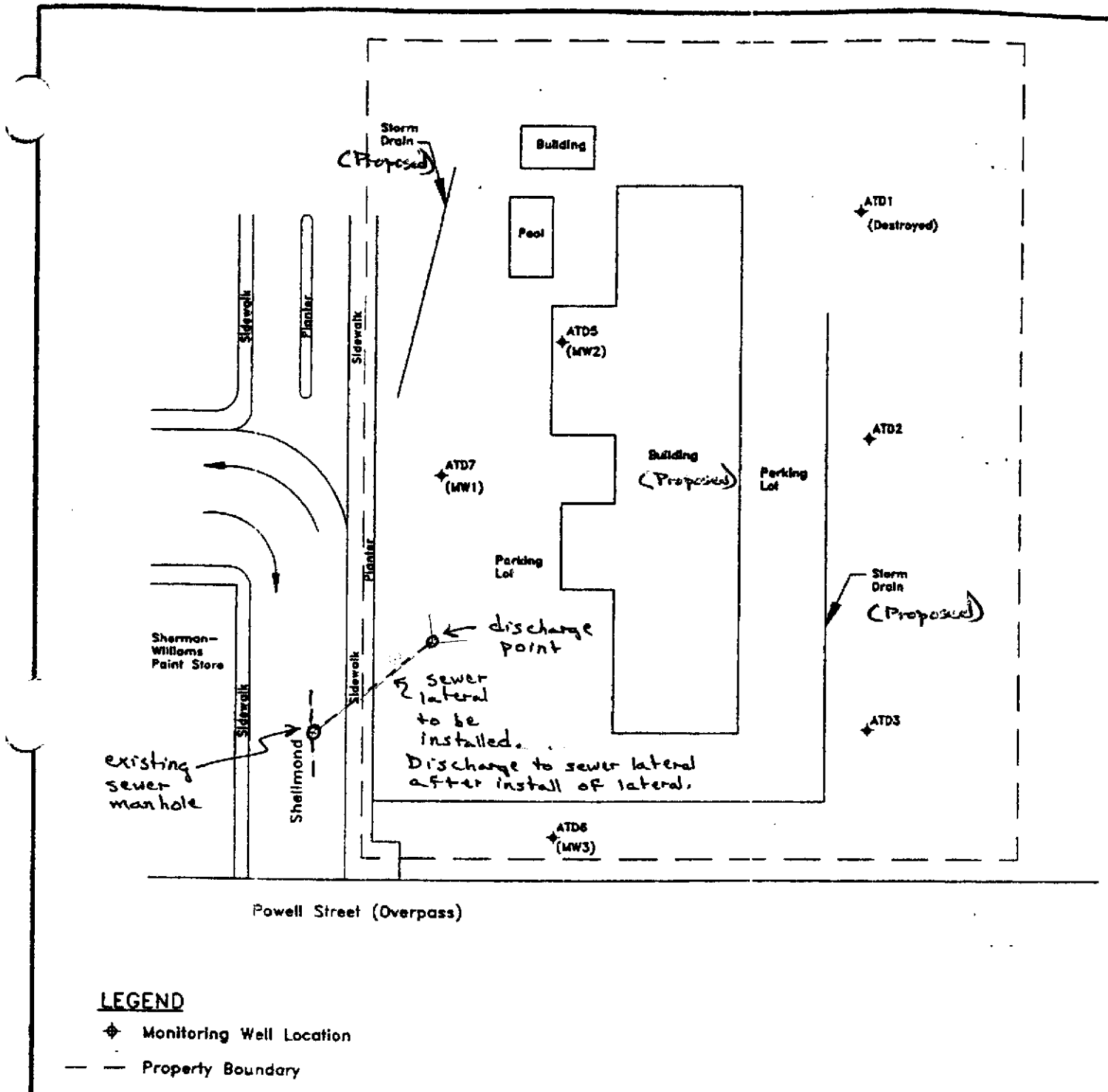


FIGURE 2
SITE PLAN SHOWING TREATMENT SYSTEM CONNECTION TO SEWER
Woodfin Construction Corp./ Hardage Suite Hotels, Inc.
Intersection of Shellmound and Powell Street (Northeast corner)
Emeryville, California

Base Map From:
GA Environmental Inc.
November, 1987
Mission Engineers, Inc.
August 8, 1991
Applied GeoSciences
February, 1992
(8/10640055)

RGA Environmental, Inc.
1260 45th Street
Emeryville, California 94608

0 50 100
SCALE IN FEET

EBMUD

WASTEWATER DISCHARGE PERMIT

Terms and Conditions

WATER SOURCE AND USE

FACILITY NAME Hardage ~~Hardage~~ Construction Corp
Emeryville Site

PURPOSE: This information will enable EBMUD to evaluate the volumes and source(s) of wastewater discharged to the community sewer.

Permit Number

Water Use and Disposition Estimate the average quantity of water received and wastewater discharged daily.
NOTE: Show on a separate sheet the METHOD AND CALCULATIONS used to determine the quantities shown on the table.

	Supply From			Discharged To		
	EBMUD	Other (1)		Community Sewer	Other (2)	
WATER USED FOR:	gal/day	gal/day	code	gal/day	gal/day	code
SANITARY						
PROCESSES						
BOILER						
COOLING						
WASHING						
IRRIGATION						
OTHER (3)						
Groundwater		* 165		* 165		
TOTAL						

Notes:

(1) Enter the quantity and the appropriate code letter indicating the source:
a. well b. creek c. estuary d. bay e. stormwater f. reclaimed water

(2) Enter the quantity and the appropriate code letter indicating the discharge point:
a. well b. creek c. estuary d. bay e. stormdrain f. rail, truck, barge g. evaporation h. product

(3) Describe: Construction site dewatering ~~wells~~ trenches or groundwater which accumulates in trenches. Groundwater to be pumped immediately prior to installation of utilities in trenches and backfilling operations

Total Number of Employees Total 1

	Office		Production (number of employees per shift)					
			Day Shift		Swing shift		Night shift	
	No.	Hours	No.	Hours	No.	Hours	No.	Hours
Weekday	—	to	1	8:00 to 5:00	—	— to —	—	— to —
Saturday	—	to	—	— to —	—	— to —	—	— to —
Sunday	—	to	—	— to —	—	— to —	—	— to —

Source of Wastewater Discharged

Water Meter Number	Use Code (see reverse)	Percent (%) discharged to: Side Sewer									Total % Disch. to all side sewers
		No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	
NA											

Revised 6/26/97

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR METALS

Date: 11/10/97-11/11/97 Matrix: WATER

Extraction: Dissolved

Analyte	Concentration (mg/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Arsenic	0.0	4.8	4.9	5.0	96	98	2.6
Selenium	0.0	4.8	4.8	5.0	95	95	0.1
Molybdenum	0.0	4.8	4.9	5.0	96	97	0.9
Silver	0.0	0.5	0.5	0.5	98	98	0.1
Thallium	0.0	4.5	4.6	5.0	89	92	2.9
Barium	0.0	4.3	4.3	5.0	86	86	0.3
Nickel	0.0	4.6	4.6	5.0	92	92	0.5
Chromium	0.0	4.9	4.8	5.0	97	97	0.8
Vanadium	0.0	4.5	4.5	5.0	90	89	0.4
Beryllium	0.0	4.9	5.0	5.0	99	100	1.4
Zinc	0.0	5.1	5.2	5.0	102	103	1.3
Copper	0.0	4.4	4.4	5.0	88	88	0.8
Antimony	0.0	4.5	4.5	5.0	90	90	0.4
Lead	0.0	4.5	4.6	5.0	90	91	1.1
Cadmium	0.0	4.8	4.9	5.0	97	98	0.8
Cobalt	0.0	4.7	4.8	5.0	94	95	1.7
Mercury	0.000	0.022	0.021	0.02	112	106	5.5

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

RGA
ENVIRONMENTAL INC.
1260 45TH STREET TEL: (510) 547-7771
FAX: (510) 547-1983 EMERYVILLE, CA 94608

CHAIN OF CUSTODY

XRGA51
9844

Project Number: HSHE 3628
Project Name: Montclair Suite Hotels, Inc. - Emeryville
Sampled By: (Printed and Signature): Paul H. King Paul H. King

Sample Number	Date	Time	Type	Sample Location	No. of Containers:	Analysis(es):	TPH-Diesel	Chromium	Preservatives:	Remarks
(1) MW1	11/9/97		Water	well MW1	2		X		X	Normal Turn Around
+ MW2	"		"	well MW2	2		X	X	X	" " "
										82833
										82834

ICE ✓ PRESERVATION NO
GOOD CONDITION ✓ APPROPRIATE
HEAD SPACE ABSENT ✓ CONTAINERS ✓

VOAS | O&G | METALS | OTHER

Relinquished By: (Signature): Paul H. King	Date 11/10/97	Time 6PM	Received By: (Signature)	Total No. of Samples 2	Total No. of Containers 4	Laboratory: McCampbell
Relinquished By: (Signature): 673 AERO	Date 11-10-97	Time 1050	Relinquished By: (Signature)	Laboratory Contact: Ed Hamilton		Laboratory Phone Number: (510) 798-1620
Relinquished By: (Signature):	Date 11/10/97	Time 1000	Received For Laboratory By: (Signature) Jacki Nicca	Sample Analysis Request Sheet Attached ( ) Yes (X) No		

Comments: Sample for Chromium not preserved in the field. Please filter and preserve upon receipt at the laboratory.

Hardage Construction Corp
Emeryville Site

Water Use and Disposition Calculations

Basis = 5,000 gal/month.
Batch discharges on weekdays during business operating hours at a rate of 10 gpm.

On the day of batch discharge, the entire batch will be discharged ~~between as follows~~ between 8:00 AM and 5:00 PM as follows

$$\frac{5{,}000 \text{ gal}}{10 \text{ gpm}} = 8.3 \text{ hr}$$

For reporting purposes on the application, the reported gal/day quantity is ~~the~~ calculated as follows.

$$\frac{5{,}000 \text{ gal}}{1 \text{ month} \times 30.4 \text{ days/month}} = 165 \text{ gal/day}$$

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
STRENGTH SUMMARY

EBMUD

FACILITY NAME Hardage ~~Woodfin~~ Construction Corp
Emeryville, CA

PURPOSE: This information will identify for EBMUD the variation in flow rate and the type of constituents and characteristics of the discharge for each side sewer.	Permit Number

Side Sewer No. 1 Side Sewer Location see attached map

Wastewater Flow Rate

Peak Hourly (gallons/minute)	Maximum Daily (gallons/day)	Annual Daily Average (gallons/day)	Max. Monthly (CCF *)
10	5,000	165	6.68

* CCF = hundred cubic feet = 748 gallons

Discharge Frequency

Discharge Period	Batch Discharge(s)
☐ Continuous ☐ 24 hrs./day ☐ 365 day/year; or a. Time of day from _____ to _____ b. Days of the week _____	only 1X/mo a. Day(s) of the week M-F b. Time(s) of the day 8A-5P c. Volume discharged 5,000 gal d. Rate of Discharge 10 gpm

* **Stormwater Area** - Total area in square feet exposed to stormwater, rainwater, and groundwater and draining to this side sewer 144,000 sq. ft.

Wastewater Strength Estimates - Enter the average annual and maximum wastewater strength for this side sewer for each of the following elements of wastewater strength for the period covered by the Permit. These values will become the basis for sewage disposal charges and are the average and maximum limits on the elements of the discharger's wastewater strength.

Elements of Wastewater Strength	Unit	Average	Maximum
Total Suspended Solids (TSS)	mg/L	2	2
Filtered Chemical Oxygen Demand (CODF)	mg/L	15	15

Provide the name and address of the laboratory and the State of California, Department of Health Services, Environmental Laboratory Accreditation Program Certificate Number of the laboratory performing self-monitoring analyses.

Name McCampbell Analytical, In Telephone (925) 798-1620

Street 110 2nd Ave S., Unit D7 City Pacheco State CA Zip 94553

Certificate Number 1644

Revised 6/26/97

Phase I
Environmental Site Assessment

Historically the Project has been industrial in nature. The following outline describes the historic tenants and/or operations which have been identified on the Project and the surrounding Marketplace property.

1884-1902

The Paraffin Company was established in 1884. Early operations included the research and development of bituminous/petroleum based products. Some small scale asphalt and/or kerosene refining may have occurred.

1900-1910

Paraffin Company operations included manufacturing of asphalt impregnated roofing materials and some asphalt refining.

1920

The Paraffin Company changed its operating name to Pabco.

1929

Pabco began manufacturing paints.

1957

Pabco was purchased by Fibreboard Corporation.

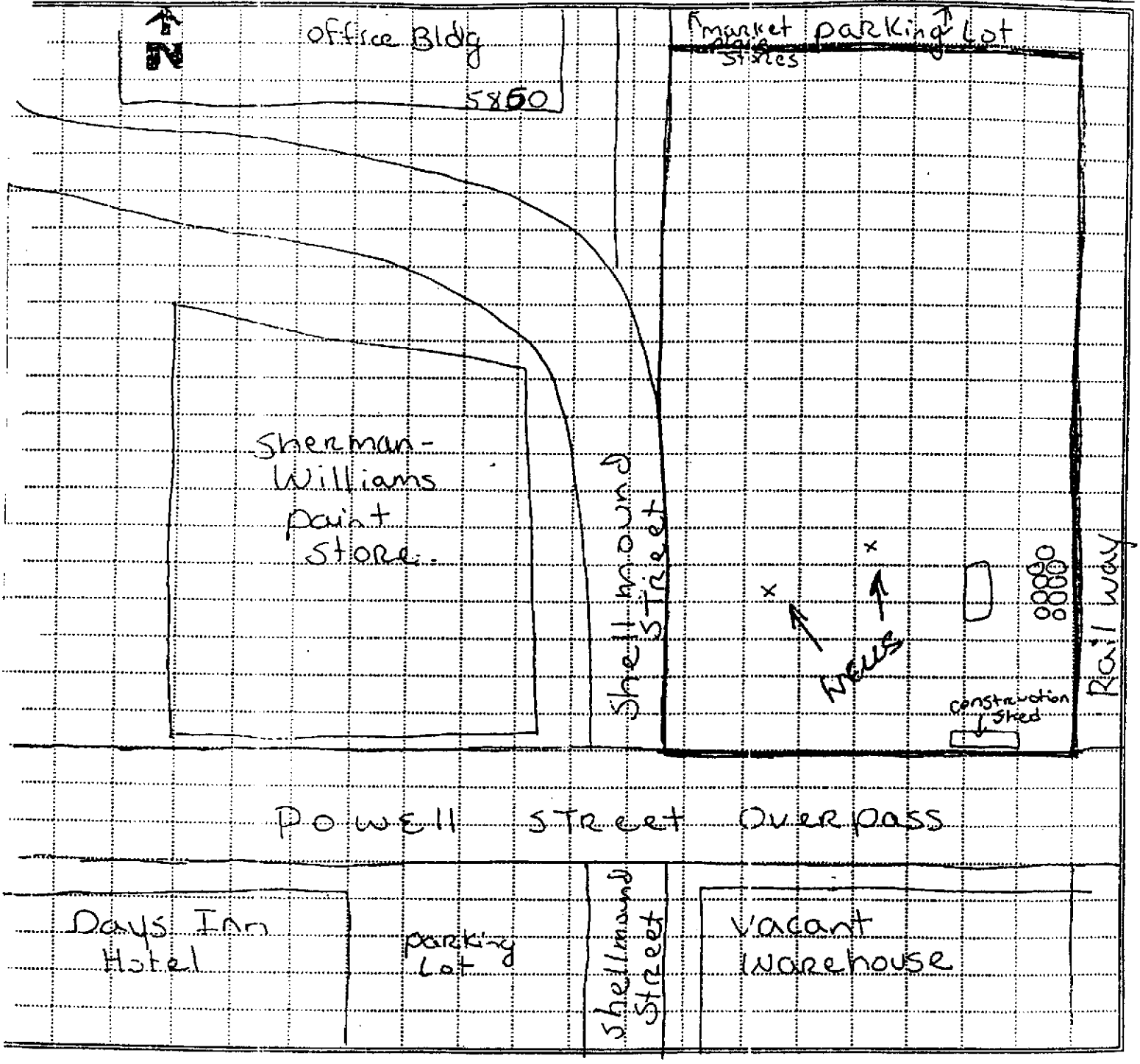
1968

Consolidated Equities Company, et.al., purchased the existing Marketplace site from Fibreboard and began development of Emeryville Marketplace.

HEADQUARTERS: EMG CORPORATE CENTER 11011 McCORMICK DRIVE BALTIMORE, MARYLAND 21031 800 733 0660 FAX 410 785 8220
BALTIMORE • ATLANTA • BOSTON • CHICAGO • DALLAS • DENVER • LAS VEGAS • LOS ANGELES
MILWAUKEE • MINNEAPOLIS • NEW YORK • PHOENIX • SAN FRANCISCO • SEATTLE • WASHINGTON

EMG 6/22/95
Phase I ESA

oject No: 1510 0001.95B Name: Anothea Tree Development Date: 6-8-95



ote: Identify location of buildings, structures, adjacent properties, street names, property boundaries and easements.

Key:
1. Transformers
2. UST
3. AST
4. Spills, releases, stressed vegetation
5. Dumping/fill area
6. Septic tank, lift station
7. Well
8. Powerline, rail line, pipe line
9. Controlled waste storage
10. Wetlands/flood plain
11. Other _____

= sealed 55 gallon drums at SE Corner

= 1 diesel AST 250 gallons at SE corner of project

= monitoring wells

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Attorney-Client and Work Product
Privileges Asserted

EPA 413.2 = Oil & Grease by Infrared. Doesn't specify silica gel cleanup.

TABLE 2

SAMPLE ANALYSIS RESULTS[1]

Sample Number[2]	Depth[3]	Analytical Methods[4]	Reported Results[5]
ATD1W-1	GW	8080 413.2 TPHd	BRL[6] 1 ppm BRL
ATD1W-2	GW	8270 TPHg	(7) BRL
ATD2W-1	GW	413.2 TPHd	3 ppm BRL
ATD2W-2	GW	8270 TPHg	(8) BRL
ATD3W-1	GW	624 413.2 TPHd	BRL 1 ppm BRL
ATD3W-2	GW	8270 TPHg	BRL BRL
ATD4W-1	GW	624 413.2 TPHd	BRL 2 ppm BRL
ATD4W-2	GW	8270 TPHg	BRL BRL
ATD5W-1	GW	8080 413.2 TPHd	BRL 2 ppm BRL
ATD5W-2	GW	8270 TPHg	BRL BRL
ATD6W-1	GW	624 413.2 TPHd	(9) 4 ppm BRL
ATD6W-2	GW	8270 TPHg	BRL BRL
ATD7W-1	GW	413.2 TPHd	3 ppm BRL

Applied GeoSciences, Inc. February 12, 1992
Phase II Subsurface Investigation

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TABLE 2 (Page 2 of 7)

SAMPLE ANALYSIS RESULTS

Sample Number	Depth	Analytical Methods	Reported Results
ATD7W-2	GW	8270	BRL
		TPHg	BRL
ATD8W-1[10]	GW	413.2	4 ppm
		TPHd	BRL

TABLE 2 (Page 6 of 7)

SAMPLE ANALYSIS RESULTS

Notes (cont.):

4. Analyses performed in general accordance with the EPA methods whose numbers or analytes are listed. An explanation of the analytical methods employed is presented as Table 4.

5. For water samples, results are reported in milligrams per liter (mg/L), which is approximately equivalent to parts per million (ppm), or in micrograms per liter (µg/L), which is approximately equivalent to parts per billion (ppb). For soil samples, results are reported in milligrams per kilogram (mg/kg), which is equivalent to ppm, or in micrograms per kilogram (µg/kg), which is equivalent to ppb.

6. BRL = below the reporting limits for the analytical method utilized.

7. Caprolactam, 2,5-dimethyl benzonebulanoic, and 3 methyl benzoil were tentatively identified at concentrations of 29 ppb, 140 ppb, and 17 ppb, respectively, in sample no. ATD1W-2. The tentatively identified compounds are typical of fabric and perfume.

8. Seven semivolatile organic compounds (SVOCs) were tentatively identified in sample no. ATD2W-2. The tentatively identified compounds are typical of decaying animal matter. The estimated concentrations of the tentatively identified compounds ranged from 25 ppb (1-hexadecanol) to 3500 ppb (1,11-dodecadiene).

9. Benzene, toluene, ethylbenzene, and total xylenes (BTEX) were reported in sample no. ATD6W-1 at concentrations of 6 ppb, 5 ppb, 3 ppb, and 5 ppb, respectively. The Maximum Contaminant Level (MCL) of benzene for primary drinking water, as promulgated in Title 22, Division 4, Chapter 15, Article 5.5 of the California Code of Regulations (CCR), is 1 ppb. Four volatile organic compounds (VOCs) were tentatively identified in sample no. ATD6W-1. The tentatively identified compounds are typical of a petroleum hydrocarbon product. The estimated concentrations of the tentatively identified compounds ranged from 9 ppb (2-pentane) to 39 ppb (methyl cyclopentane).

10. Sample no. ATD8W-1 is a duplicate of sample no. ATD4W-1.

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TABLE 3
CALIFORNIA ASSESSMENT MANUAL (CAM) METALS SAMPLE ANALYSIS RESULTS[1]

Sample Number[2]	Depth[3]	Analyte[4]	Reported Results[5]	10X STLC[6]	TTLC / MCL[7]
ATD1W-1	GW	CAM metals	Low[8]	-	-
ATD2W-1	GW	CAM metals	Low	-	-
ATD3W-1	GW	CAM metals	Low	-	-
ATD4W-1	GW	CAM metals	Low	-	-
ATD5W-1	GW	Chromium	80 ppb	-	50 ppb
ATD6W-1	GW	CAM metals	Low	-	-
ATD7W-1	GW	CAM metals	Low	-	-

TABLE 3 (Page 4 of 4)

CAM METALS SAMPLE ANALYSIS RESULTS

Notes (cont.):

2. The first alphanumeric combination in the sample number (e.g. ATD1) is the sample location designation shown in Figure 2.

3. Approximate depth in feet below the ground surface (BGS) except for groundwater samples, which are indicated "GW".

4. A specific analyte is listed when the reported results of the analyte exceeded current regulatory guidelines.

5. For water samples, results are reported in milligrams per liter (mg/L), which is approximately equivalent to parts per million (ppm). For soil samples, results are reported in milligrams per kilogram (mg/kg), which is equivalent to ppm or micrograms per kilogram (µg/kg), which is equivalent to parts per billion (ppb).

6. 10X STLC = 10 times the Soluble Threshold Limit Concentration (STLC). Samples that are reported to contain concentrations exceeding 10X STLC have the potential to have a soluble fraction that exceeds the STLC, as promulgated in CCR, Title 22, Division 4.5, Chapter 10.

7. TTLC = Total Threshold Limit Concentration (for waste soils) as promulgated in CCR, Title 22, Division 4.5, Chapter 10. MCL = Maximum Contaminant Level (for primary drinking water) as promulgated in CCR, Title 22, Chapter 15, Article 5.5.

8. "Low" means that the 17 metals analyzed in the sample were reported in concentrations judged to be at background or slightly elevated levels.

9. Sample no. HA2-1D was obtained directly beneath sample no. HA2-1 and was considered an approximate duplicate soil sample. It is not possible to obtain a true duplicate soil sample due to the inherently homogeneous nature of soil.

10. Sample nos. HA3-1, HA4-1, HA5-1, HA5-2, HA6-1, HA8-1, and HA8-2 were analyzed for soluble CAM metals. The regulatory limits listed under the TTLC/MCL column are STLC as promulgated in CCR, Title 22, Division 4.5, Chapter 10.

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TABLE 4

IDENTIFICATION AND EXPLANATION OF ANALYTICAL METHODS

Analytical Method[1]	Compounds Detected
EPA Method No. 8015 (Mod.)[2]	Total petroleum hydrocarbons as diesel (TPHd)
EPA Method No. 413.2[3]	Oil and grease
EPA Method No. 5030/M8015[4]	Total petroleum hydrocarbons as gasoline (TPHg)
EPA Method No. 8080[5]	Organochlorine pesticides, polychlorinated biphenyls (PCBs)
EPA Method No. 8240/624[6]	Volatile organic compounds (VOCs)
EPA Method No. 8270[7]	Semivolatile organic compounds

Notes:

1. Analyses were conducted in general accordance with the methods listed.

2. Analysis for total petroleum hydrocarbons as diesel (TPHd) was performed on most of the samples obtained during the field investigation because of the grayish-black staining of the upper soils.

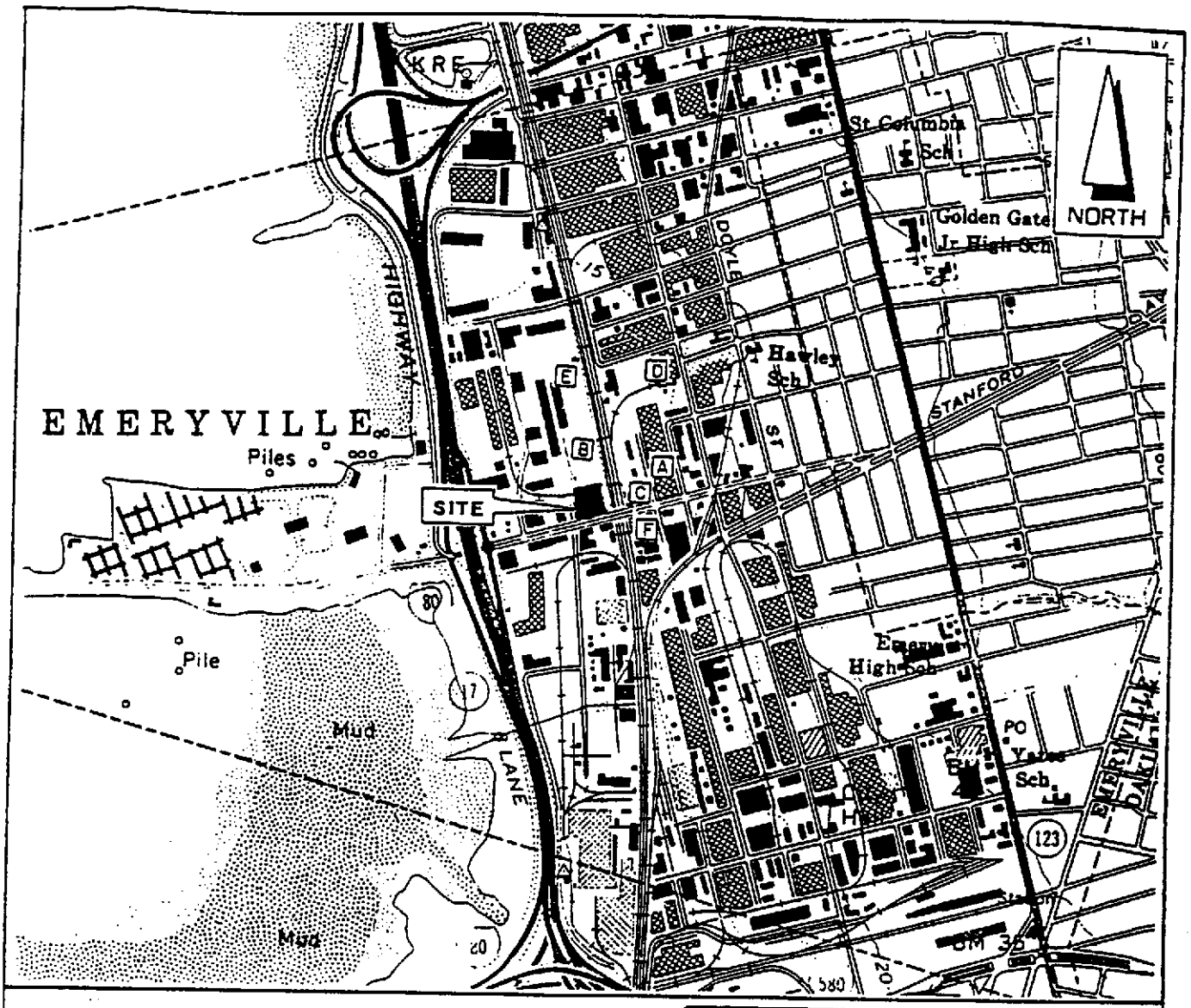
3. Analysis for oil and grease was performed on most of the samples because of the reported presence of asphalt in the subsurface of the site. The analysis for oil and grease includes the asphalt fraction of petroleum hydrocarbons.

4. Analysis for total petroleum hydrocarbons as gasoline (TPHg) was performed on samples that were noted to have gasoline odors during the field investigation.

5. Analysis in general accordance with EPA Method No. 8080 was performed because past investigations have reported PCBs in the soil and groundwater in the immediate vicinity of the site.

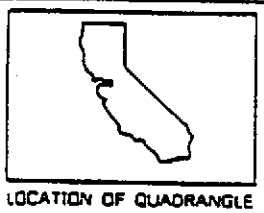
6. Included in the analysis for VOCs conducted in general accordance with EPA Method No. 8240 for soil and EPA Method No. 624 for water is the ability to detect solvents.

7. Analysis for semivolatile organic compounds was performed due to the leaching products of the asphaltic material.



EXPLANATION

- [A] WESTINGHOUSE ELECTRIC COMPANY – EMERYVILLE
- [B] THE MARKET PLACE
- [C] CHEVRON–EMERYVILLE TERMINAL
- [D] ITT GRINNELL PROPERTY
- [E] NIELSON FREIGHT LINES
- [F] MICHEL AND PELTON



LOCATION OF QUADRANGLE

NOTES: (1) BASE MAP FROM USGS OAKLAND WEST, CALIFORNIA QUADRANGLE, 7.5 MINUTE SERIES (TOPOGRAPHIC). PHOTOREVISED 1980

(2) ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE

0 ½

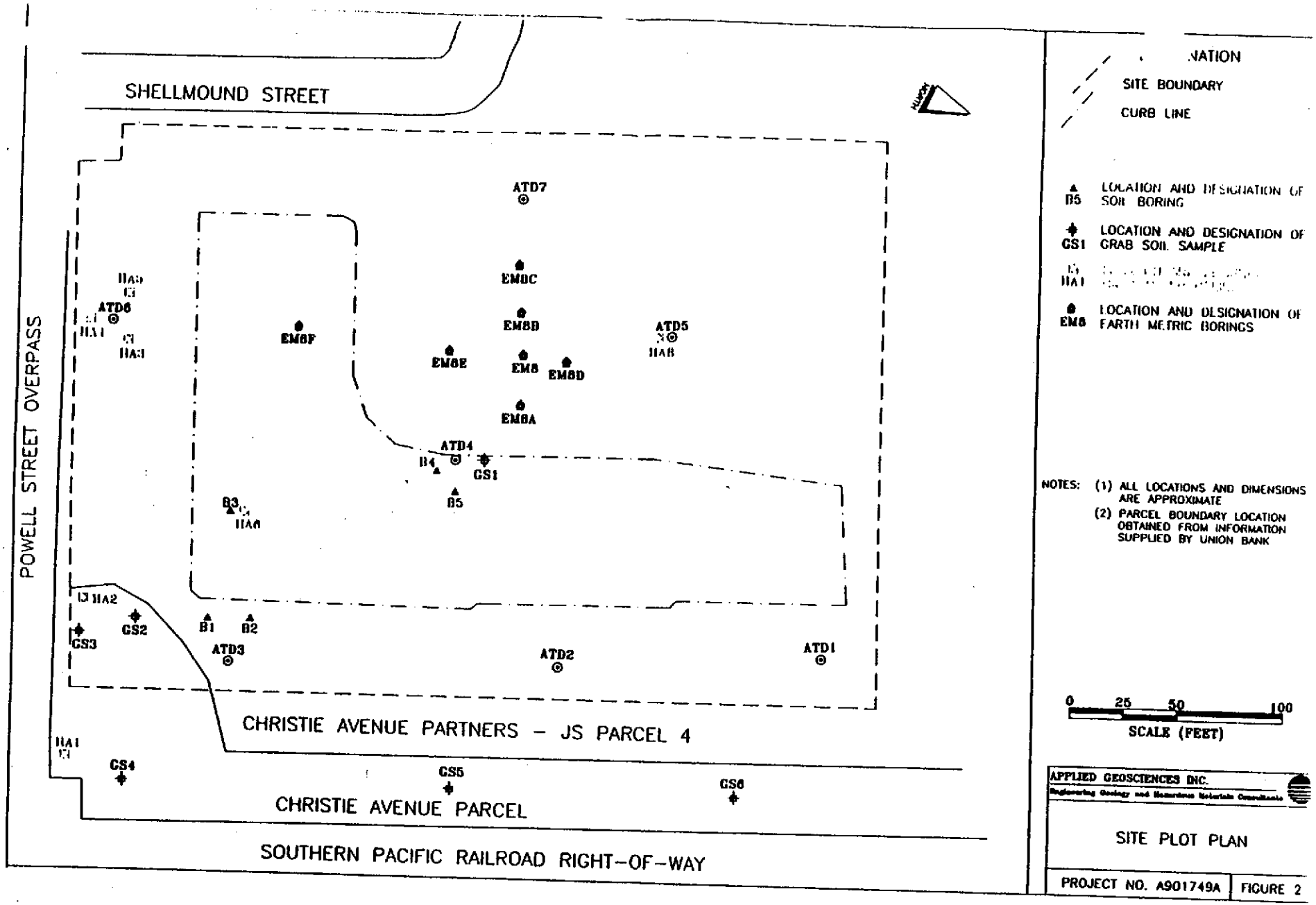
SCALE, MILES

APPLIED GEOSCIENCES INC.

Engineering Geology and Hazardous Materials Consultants

SITE VICINITY MAP

PROJECT NO. A901749A | FIGURE 1



APPLIED GEOSCIENCES INC.
Engineering Geology and Hazardous Materials Consultants

SITE PLOT PLAN

PROJECT NO. A901749A | FIGURE 2

C K Y incorporated
Analytical Laboratories

Date: 08/20/91
910817

Applied Geosciences, Inc.
1735 No. First St., suite 305
San Jose, CA 95112

Attn: Mr. Joseph Mello

Subject: Laboratory Report
Project: Market Place II

Enclosed is the laboratory report for samples received on 08/06/91. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported includes:

Method	No. of Analysis
EPA 413.1	8 Water
EPA 608/8080	2 Water/4 Soils
EPA 6010	7 Water/4 Soils
Modified 8015	8 Water/4 Soils
EPA 624	3 Water

The results are summarized on twenty-one pages.

Please feel free to call if you have any questions concerning these results.

Sincerely,

Dr. Kam Pang
Laboratory Director

630 Maple Ave., Torrance, Calif. 90503 • Telephone 213-618-8889 • Fax: 213-618-0818

EPA METHOD 413.2
OIL AND GREASE

CLIENT:	Applied Geosciences	**DATE REC'D:**	08/06/9
PROJECT:	Market Place II	**DATE ANALYZED:**	08/13/91
CONTROL NO:	910817	**MATRIX TYPE:**	Water

SAMPLE ID:	CONTROL NO:	RESULTS (mg/L)	DETECTION LIMIT (mg/L)
ATD1W-1	910817-1	1	1
ATD2W-1	910817-2	3	1
ATD3W-1	910817-3	1	1
ATD4W-1	910817-4	2	1
ATD5W-1	910817-5	2	1
ATD6W-1	910817-6	4	1
ATD7W-1	910817-7	3	1
ATD8W-1	910817-8	4	1

EPA METHOD 608 - PESTICIDES & PCB

CLIENT:	Applied Geosciences	**DATE REC'D:**	08/06/91
PROJECT:	Market Place II	**DATE ANALYZED:**	08/07/91
SAMPLE ID:	ATD1W-1	**MATRIX TYPE:**	Water
CONTROL NO:	910817-1		

PARAMETERS (608)	RESULTS (ug/L)	DETECTION LIMIT (ug/L)
Aldrin	ND	0.05
Alpha-BHC	ND	0.05
Beta-BHC	ND	0.05
Gamma-BHC	ND	0.05
Sigma-BHC	ND	0.05
Chlordane	ND	0.5
4,4'-DDD	ND	0.1
4,4'-DDE	ND	0.1
4,4'-DDT	ND	0.1
Dieldrin	ND	0.1
Endosulfan I	ND	0.05
Endosulfan II	ND	0.1
Endosulfan Sulfate	ND	0.1
Endrin	ND	0.1
Endrin Aldehyde	ND	0.1
Heptachlor	ND	0.05
Heptachlor Epoxide	ND	0.05
Methoxychlor	ND	0.5
Toxaphene	ND	1.0
Aroclor - 1016	ND	1.0
Aroclor - 1221	ND	1.0
Aroclor - 1232	ND	1.0
Aroclor - 1242	ND	1.0
Aroclor - 1248	ND	1.0
Aroclor - 1254	ND	1.0
Aroclor - 1260	ND	1.0

% Surrogate Recovery

Dibutylchlorendate	89
2,4,5,6-Tetrachloro-m-xylene	143

EPA METHOD 608 - PESTICIDES

CLIENT:	Applied Geosciences	**DATE REC'D:**	08/06/91
PROJECT:	Market Place II	**DATE ANALYZED:**	08/07/91
SAMPLE ID:	ATD5W-1	**MATRIX TYPE:**	Water
CONTROL NO:	910817-5		

PARAMETERS (608)	RESULTS (ug/L)	DETECTION LIMIT (ug/L)
Aldrin	ND	0.05
Alpha-BHC	ND	0.05
Beta-BHC	ND	0.05
Gamma-BHC	ND	0.05
Sigma-BHC	ND	0.05
Chlordane	ND	0.5
4,4'-DDD	ND	0.1
4,4'-DDE	ND	0.1
4,4'-DDT	ND	0.1
Dieldrin	ND	0.1
Endosulfan I	ND	0.05
Endosulfan II	ND	0.1
Endosulfan Sulfate	ND	0.1
Endrin	ND	0.1
Endrin Aldehyde	ND	0.1
Heptachlor	ND	0.05
Heptachlor Epoxide	ND	0.05
Methoxychlor	ND	0.5
Toxaphene	ND	1.0
Aroclor - 1016	ND	1.0
Aroclor - 1221	ND	1.0
Aroclor - 1232	ND	1.0
Aroclor - 1242	ND	1.0
Aroclor - 1248	ND	1.0
Aroclor - 1254	ND	1.0
Aroclor - 1260	ND	1.0

% Surrogate Recovery

Dibutylchlorendate	87
2,4,5,6-Tetrachloro-m-xylene	118

EPA METHOD 608 - PESTICIDES

CLIENT:	Applied Geosciences	DATE REC'D:	08/06/91
PROJECT:	Market Place II	DATE ANALYZED:	08/07/91
SAMPLE ID:	Method Blank	MATRIX TYPE:	Water
CONTROL NO:	910817		

PARAMETERS (608)	RESULTS (ug/L)	DETECTION LIMIT (ug/L)
Aldrin	ND	0.05
Alpha-BHC	ND	0.05
Beta-BHC	ND	0.05
Gamma-BHC	ND	0.05
Sigma-BHC	ND	0.05
Chlordane	ND	0.5
4,4'-DDD	ND	0.1
4,4'-DDE	ND	0.1
4,4'-DDT	ND	0.1
Dieldrin	ND	0.1
Endosulfan I	ND	0.05
Endosulfan II	ND	0.1
Endosulfan Sulfate	ND	0.1
Endrin	ND	0.1
Endrin Aldehyde	ND	0.1
Heptachlor	ND	0.05
Heptachlor Epoxide	ND	0.05
Methoxychlor	ND	0.5
Toxaphene	ND	1.0
Aroclor - 1016	ND	1.0
Aroclor - 1221	ND	1.0
Aroclor - 1232	ND	1.0
Aroclor - 1242	ND	1.0
Aroclor - 1248	ND	1.0
Aroclor - 1254	ND	1.0
Aroclor - 1260	ND	1.0

% Surrogate Recovery

Dibutylchlorendate	82
2,4,5,6-Tetrachloro-m-xylene	92

EPA 3005/6010/7000
CAM METALS BY ICP/AAS

CLIENT:	Applied Geosciences Inc.	DATE REC'D:	08/06/91
PROJECT:	A901749A	DATE ANALYZED:	08/12/91
CONTROL NO:	910817	MATRIX TYPE:	Water

SAMPLE ID:	ATD1W-1	ATD2W-1	ATD3W-1	ATD4W-1	
CONTROL NO:	-1	-2	-3	-4	
PARAMETERS	RESULTS (mg/L)				DETECTION LIMI (mg/L)
Antimony	ND	ND	ND	ND	0.50
Arsenic	ND	ND	ND	ND	0.50
Barium	ND	ND	0.15	0.29	0.05
Beryllium	ND	ND	ND	ND	0.05
Cadmium	ND	ND	ND	ND	0.05
Chromium - Total	ND	ND	ND	ND	0.05
Cobalt	ND	ND	ND	ND	0.05
Copper	ND	ND	ND	ND	0.05
Lead	ND	ND	ND	ND	0.10
Mercury	ND	ND	ND	ND	0.005
Molybdenum	ND	ND	ND	ND	0.05
Nickel	ND	ND	ND	ND	0.10
Selenium	ND	ND	ND	ND	0.50
Silver	ND	ND	ND	ND	0.05
Thallium	ND	ND	ND	ND	1.0
Vanadium	ND	ND	ND	ND	0.05
Zinc	0.08	0.10	0.08	ND	0.05

EPA 3005/6010/7000
CAM METALS BY ICP/AAS

CLIENT:	Applied Geosciences Inc.	DATE REC'D:	08/06/91
PROJECT:	A901749A	DATE ANALYZED:	08/12/91
CONTROL NO:	910817	MATRIX TYPE:	Water

SAMPLE ID:	ATD5W-1	ATD6W-1	ATD7W-1	
CONTROL NO:	-5	-6	-7	
PARAMETERS	RESULTS (mg/L)			DETECTION LIMIT (mg/L)
Antimony	ND	ND	ND	0.50
Arsenic	ND	ND	ND	0.50
Barium	0.15	0.16	0.13	0.05
Beryllium	ND	ND	ND	0.05
Cadmium	ND	ND	ND	0.05
Chromium - Total	0.08	ND	ND	0.05
Cobalt	ND	ND	ND	0.05
Copper	0.34	ND	ND	0.05
Lead	ND	ND	ND	0.10
Mercury	ND	ND	ND	0.005
Molybdenum	ND	ND	ND	0.05
Nickel	ND	ND	ND	0.10
Selenium	ND	ND	ND	0.50
Silver	ND	ND	ND	0.05
Thallium	ND	ND	ND	1.0
Vanadium	ND	ND	ND	0.05
Zinc	0.10	ND	ND	0.05

QUALITY CONTROL DATA

CLIENT: AGI
PROJECT: Another Tree Development
CONTROL NO: N911004

METHOD EPA M8015/5030
MATRIX: Water

SAMPLE ID: Blank

COMPOUND	SAMPLE RESULTS (mg/L)	AMOUNT SPIKED (mg/L)	% REC.	DUP. % REC.	RPD
Gasoline	ND	10	87	91	5

METHOD EPA 625
MATRIX: Water

SAMPLE ID: Blank

COMPOUND	SAMPLE RESULTS (mg/L)	AMOUNT SPIKED (mg/L)	% REC.	DUP. % REC.	RPD
Phenol	ND	75	80	68	16
2-Clorophenol	ND	75	85	71	18
1,4 DCB	ND	50	86	71	19
N-Nitroso din-propylamine	ND	50	95	81	16
1,2,4 TCB	ND	50	88	75	16
4-Chloro 3 Methylphenol	ND	75	85	71	18
Acenaphthene	ND	50	81	70	15
4-Nitrophenol	ND	75	80	65	21
2,4 Dinitrotoluene	ND	50	85	71	19
Penta Chloro Phenol	ND	75	77	67	14
Pyrene	ND	50	86	73	16

C K Y incorporated
Environmental Services

RECEIVED
NOV 13 1991
BY:
Applied Geosciences Inc.

Date: 11/01/91
N911004

Applied Geosciences
1735 No. 1st #305
San Jose, CA 95112

Attn: Mr. Joseph Mello

Subject: Laboratory Report
Project: Another Tree Development

Enclosed is the laboratory report for samples received on 10/21/91. The chain-of-custody forms were properly filled out. The data reported includes:

Method	No. of Analysis
EPA 625	7 Water
EPA 8270	6 Soil
Modified 8015 (Gas)	7 Water
Modified 8015 (Gas)	6 Soil
Cam Metals (STLC)	7 Soil

The results are summarized on twenty two pages.

Please feel free to call if you have any questions concerning these results.

Sincerely,

Danny Hoang
Laboratory Director

3942 Valley Avenue, Suite F, Pleasanton, CA 94566 • Telephone 415-846-3188 • Fax: 415-846-1236

EPA METHOD - 625
SEMIVOLATILE ORGANICS BY GC/MS

CLIENT:	AGI	**DATE REC'D:**	10/21/91
PROJECT:	Another Tree Development	**DATE EXTRACTED:**	10/21/91
SAMPLE ID:	Blank	**DATE ANALYZED:**	10/25/91
CONTROL NO:	N911004-Blank	**MATRIX:**	Water

PARAMETER	RESULTS (ug/L)	PARAMETER	RESULTS (ug/L)
Phenol	ND (10)	Acenaphthene	ND (10)
bis(2-chloroethyl)ether	ND (10)	2,4-Dinitrophenol	ND (50)
2-Chlorophenol	ND (10)	4-Nitrophenol	ND (50)
1,3-Dichlorobenzene	ND (10)	Dibenzofuran	ND (10)
1,4-Dichlorobenzene	ND (10)	2,4-Dinitrotoluene	ND (10)
Benzyl Alcohol	ND (10)	2,6-Dinitrotoluene	ND (10)
1,2-Dichlorobenzene	ND (10)	Diethylphthalate	ND (10)
2-Methylphenol	ND (10)	4-Chlorophenyl-phenylether	ND (10)
bis(2-chloroisopropyl)ether	ND (10)	Fluorene	ND (10)
4-Methylphenol	ND (10)	4-Nitroaniline	ND (50)
N-Nitroso-Di-n-Propylamine	ND (10)	4,6-Dinitro-2-Methylphenol	ND (50)
Hexachloroethane	ND (10)	N-Nitrosodiphenylamine	ND (10)
Nitrobenzene	ND (10)	4-Bromophenyl-phenylether	ND (10)
Isophorone	ND (10)	Hexachlorobenzene	ND (10)
2-Nitrophenol	ND (10)	Pentachlorophenol	ND (10)
2,4-Dimethylphenol	ND (10)	Phenanthrene	ND (10)
Benzoic Acid	ND (50)	Anthracene	ND (10)
bis-(2-Chloroethoxy)methane	ND (10)	Di-n-Butylphthalate	ND (10)
2,4-Dichlorophenol	ND (10)	Fluoranthene	ND (10)
1,2,4-Trichlorobenzene	ND (10)	Pyrene	ND (10)
Naphthalene	ND (10)	Butylbenzylphthalate	ND (10)
4-Chloroanline	ND (20)	3,3'-Dichlorobenzidine	ND (20)
Hexachlorobutadiene	ND (10)	Benzo(a)Anthracene	ND (10)
4-Chloro-3-Methylphenol	ND (20)	bis(2-Ethylhexyl)Phthalate	ND (10)
2-Methylnaphthalene	ND (10)	Chrysene	ND (10)
Hexachlorocyclopentadiene	ND (10)	Di-n-Octyl Phthalate	ND (10)
2,4,6-Trichlorophenol	ND (10)	Benzo(b)Fluoranthene	ND (10)
2,4,5-Trichlorophenol	ND (10)	Benzo(k)Fluoranthene	ND (10)
2-Chloronaphthalene	ND (10)	Benzo(a)Pyrene	ND (10)
2-Nitroaniline	ND (50)	Indeno(1,2,3-cd)Pyrene	ND (10)
Dimethyl Phthalate	ND (10)	Dibenz(a,h)Anthracene	ND (10)
Diethyl phthalate	ND (10)	Benzo(g,h,i)Perylene	ND (10)
Acenaphthylene	ND (10)		
3-Nitroaniline	ND (50)		

ND = Not Detected

% Surrogate Recovery		
2-Fluorophenol	60	21-100
Phenol - d_5	64	10-94
Nitrobenzene - d_5	38	35-114
2-Fluorobiphenyl	30	43-116
2,4,6 Tribromophenol	38	10-123
Terphenyl - d_{14}	40	18-137

EPA METHOD - 625
SEMIVOLATILE ORGANICS BY GC/MS

CLIENT:	AGI	DATE REC'D:	10/21/91
PROJECT:	Another Tree Development	DATE EXTRACTED:	10/21/91
SAMPLE ID:	ATD1W-2	DATE ANALYZED:	10/25/91
CONTROL NO:	N911004-1	MATRIX:	Water

PARAMETER	RESULTS (ug/L)	PARAMETER	RESULTS (ug/L)
Phenol	ND (10)	Acenaphthene	ND (10)
bis(2-chloroethyl)ether	ND (10)	2,4-Dinitrophenol	ND (50)
2-Chlorophenol	ND (10)	4-Nitrophenol	ND (50)
1,3-Dichlorobenzene	ND (10)	Dibenzofuran	ND (10)
1,4-Dichlorobenzene	ND (10)	2,4-Dinitrotoluene	ND (10)
Benzyl Alcohol	ND (10)	2,6-Dinitrotoluene	ND (10)
1,2-Dichlorobenzene	ND (10)	Diethylphthalate	ND (10)
2-Methylphenol	ND (10)	4-Chlorophenyl-phenylether	ND (10)
bis(2-chloroisopropyl)ether	ND (10)	Fluorene	ND (10)
4-Methylphenol	ND (10)	4-Nitroaniline	ND (50)
N-Nitroso-Di-n-Propylamine	ND (10)	4,6-Dinitro-2-Methylphenol	ND (50)
Hexachloroethane	ND (10)	N-Nitrosodiphenylamine	ND (10)
Nitrobenzene	ND (10)	4-Bromophenyl-phenylether	ND (10)
Isophorone	ND (10)	Hexachlorobenzene	ND (10)
2-Nitrophenol	ND (10)	Pentachlorophenol	ND (10)
2,4-Dimethylphenol	ND (10)	Phenanthrene	ND (10)
Benzoic Acid	ND (50)	Anthracene	ND (10)
bis-(2-Chloroethoxy)methane	ND (10)	Di-n-Butylphthalate	ND (10)
2,4-Dichlorophenol	ND (10)	Fluoranthene	ND (10)
1,2,4-Trichlorobenzene	ND (10)	Pyrene	ND (10)
Naphthalene	ND (10)	Butylbenzylphthalate	ND (10)
4-Chloroanline	ND (20)	3,3'-Dichlorobenzidine	ND (20)
Hexachlorobutadiene	ND (10)	Benzo(a)Anthracene	ND (10)
4-Chloro-3-Methylphenol	ND (20)	bis(2-Ethylhexyl)Phthalate	ND (10)
2-Methylnaphthalene	ND (10)	Chrysene	ND (10)
Hexachlorocyclopentadiene	ND (10)	Di-n-Octyl Phthalate	ND (10)
2,4,6-Trichlorophenol	ND (10)	Benzo(b)Fluoranthene	ND (10)
2,4,5-Trichlorophenol	ND (10)	Benzo(k)Fluoranthene	ND (10)
2-Chloronaphthalene	ND (10)	Benzo(a)Pyrene	ND (10)
2-Nitroaniline	ND (50)	Indeno(1,2,3-cd)Pyrene	ND (10)
Dimethyl Phthalate	ND (10)	Dibenz(a,h)Anthracene	ND (10)
Diethyl phthalate	ND (10)	Benzo(g,h,i)Perylene	ND (10)
Acenaphthylene	ND (10)		
3-Nitroaniline	ND (50)		

ND = Not Detected

% Surrogate Recovery		
2-Fluorophenol	84	21-100
Phenol - d_5	82	10-94
Nitrobenzene - d_5	62	35-114
2-Fluorobiphenyl	50	43-116
2,4,6 Tribromophenol	69	10-123
Terphenyl - d_{14}	64	18-137

METHOD: 625

SAMPLE ID: ATD1W-2

CONTROL NO: N911004-1

Tentatively Identified Compounds

COMPOUND NAMES	CONCENTRATION (Estimate) (ug/L)
3 Methyl Benzoil	17
Carprolactane	29
Benzonebulanoic, 2,5-Dimethyl	140

EPA METHOD - 625
SEMIVOLATILE ORGANICS BY GC/MS

CLIENT:	AGI	**DATE REC'D:**	10/21/91
PROJECT:	Another Tree Development	**DATE EXTRACTED:**	10/21/91
SAMPLE ID:	ATD2W-2	**DATE ANALYZED:**	10/25/91
CONTROL NO:	N911004-2	**MATRIX:**	Water

PARAMETER	RESULTS (ug/L)	PARAMETER	RESULTS (ug/L)
Phenol	ND (10)	Acenaphthene	ND (10)
bis(2-chloroethyl)ether	ND (10)	2,4-Dinitrophenol	ND (50)
2-Chlorophenol	ND (10)	4-Nitrophenol	ND (50)
1,3-Dichlorobenzene	ND (10)	Dibenzofuran	ND (10)
1,4-Dichlorobenzene	ND (10)	2,4-Dinitrotoluene	ND (10)
Benzyl Alcohol	ND (10)	2,6-Dinitrotoluene	ND (10)
1,2-Dichlorobenzene	ND (10)	Diethylphthalate	ND (10)
2-Methylphenol	ND (10)	4-Chlorophenyl-phenylether	ND (10)
bis(2-chloroisopropyl)ether	ND (10)	Fluorene	ND (10)
4-Methylphenol	ND (10)	4-Nitroaniline	ND (50)
N-Nitroso-Di-n-Propylamine	ND (10)	4,6-Dinitro-2-Methylphenol	ND (50)
Hexachloroethane	ND (10)	N-Nitrosodiphenylamine	ND (10)
Nitrobenzene	ND (10)	4-Bromophenyl-phenylether	ND (10)
Isophorone	ND (10)	Hexachlorobenzene	ND (10)
2-Nitrophenol	ND (10)	Pentachlorophenol	ND (10)
2,4-Dimethylphenol	ND (10)	Phenanthrene	ND (10)
Benzoic Acid	ND (50)	Anthracene	ND (10)
bis-(2-Chloroethoxy)methane	ND (10)	Di-n-Butylphthalate	ND (10)
2,4-Dichlorophenol	ND (10)	Fluoranthene	ND (10)
1,2,4-Trichlorobenzene	ND (10)	Pyrene	ND (10)
Naphthalene	ND (10)	Butylbenzylphthalate	ND (10)
4-Chloroanline	ND (20)	3,3'-Dichlorobenzidine	ND (20)
Hexachlorobutadiene	ND (10)	Benzo(a)Anthracene	ND (10)
4-Chloro-3-Methylphenol	ND (20)	bis(2-Ethylhexyl)Phthalate	ND (10)
2-Methylnaphthalene	ND (10)	Chrysene	ND (10)
Hexachlorocyclopentadiene	ND (10)	Di-n-Octyl Phthalate	ND (10)
2,4,6-Trichlorophenol	ND (10)	Benzo(b)Fluoranthene	ND (10)
2,4,5-Trichlorophenol	ND (10)	Benzo(k)Fluoranthene	ND (10)
2-Chloronaphthalene	ND (10)	Benzo(a)Pyrene	ND (10)
2-Nitroaniline	ND (50)	Indeno(1,2,3-cd)Pyrene	ND (10)
Dimethyl Phthalate	ND (10)	Dibenz(a,h)Anthracene	ND (10)
Diethyl phthalate	ND (10)	Benzo(g,h,i)Perylene	ND (10)
Acenaphthylene	ND (10)		
3-Nitroaniline	ND (50)		

ND = Not Detected

% Surrogate Recovery		
2-Fluorophenol	47	21-100
Phenol - d_5	50	10-94
Nitrobenzene - d_5	39	35-114
2-Fluorobiphenyl	34	43-116
2,4,6 Tribromophenol	42	10-123
Terphenyl - d_{14}	21	18-137

METHOD: 625

SAMPLE ID: ATD2W-2

CONTROL NO: N911004-2

Tentatively Identified Compounds

COMPOUND NAMES	CONCENTRATION (Estimate) (ug/L)
Dodecanamide,N,N-bb (2-hydroxyethyl)	110
Tetradecanoic acide	250
Pentadecanoic acid	47
1-hexadecanol	25
9-hexadecanoic acid	230
1,11-dodecadiene	3500
cholesterol	88

EPA METHOD - 625
SEMIVOLATILE ORGANICS BY GC/MS

CLIENT:	AGI	**DATE REC'D:**	11/21/91
PROJECT:	Another Tree Development	**DATE EXTRACTED:**	10/29/91
SAMPLE ID:	ATD3W-2	**DATE ANALYZED:**	10/31/91
CONTROL NO:	N911004-3	**MATRIX:**	Water

PARAMETER	RESULTS (ug/L)	PARAMETER	RESULTS (ug/L)
Phenol	ND (10)	Acenaphthene	ND (10)
bis(2-chloroethyl)ether	ND (10)	2,4-Dinitrophenol	ND (50)
2-Chlorophenol	ND (10)	4-Nitrophenol	ND (50)
1,3-Dichlorobenzene	ND (10)	Dibenzofuran	ND (10)
1,4-Dichlorobenzene	ND (10)	2,4-Dinitrotoluene	ND (10)
Benzyl Alcohol	ND (10)	2,6-Dinitrotoluene	ND (10)
1,2-Dichlorobenzene	ND (10)	Diethylphthalate	ND (10)
2-Methylphenol	ND (10)	4-Chlorophenyl-phenylether	ND (10)
bis(2-chloroisopropyl)ether	ND (10)	Fluorene	ND (10)
4-Methylphenol	ND (10)	4-Nitroaniline	ND (50)
N-Nitroso-Di-n-Propylamine	ND (10)	4,6-Dinitro-2-Methylphenol	ND (50)
Hexachloroethane	ND (10)	N-Nitrosodiphenylamine	ND (10)
Nitrobenzene	ND (10)	4-Bromophenyl-phenylether	ND (10)
Isophorone	ND (10)	Hexachlorobenzene	ND (10)
2-Nitrophenol	ND (10)	Pentachlorophenol	ND (10)
2,4-Dimethylphenol	ND (10)	Phenanthrene	ND (10)
Benzoic Acid	ND (50)	Anthracene	ND (10)
bis-(2-Chloroethoxy)methane	ND (10)	Di-n-Butylphthalate	ND (10)
2,4-Dichlorophenol	ND (10)	Fluoranthene	ND (10)
1,2,4-Trichlorobenzene	ND (10)	Pyrene	ND (10)
Naphthalene	ND (10)	Butylbenzylphthalate	ND (10)
4-Chloroanline	ND (20)	3,3'-Dichlorobenzidine	ND (20)
Hexachlorobutadiene	ND (10)	Benzo(a)Anthracene	ND (10)
4-Chloro-3-Methylphenol	ND (20)	bis(2-Ethylhexyl)Phthalate	ND (10)
2-Methylnaphthalene	ND (10)	Chrysene	ND (10)
Hexachlorocyclopentadiene	ND (10)	Di-n-Octyl Phthalate	ND (10)
2,4,6-Trichlorophenol	ND (10)	Benzo(b)Fluoranthene	ND (10)
2,4,5-Trichlorophenol	ND (10)	Benzo(k)Fluoranthene	ND (10)
2-Chloronaphthalene	ND (10)	Benzo(a)Pyrene	ND (10)
2-Nitroaniline	ND (50)	Indeno(1,2,3-cd)Pyrene	ND (10)
Dimethyl Phthalate	ND (10)	Dibenz(a,h)Anthracene	ND (10)
Diethyl phthalate	ND (10)	Benzo(g,h,i)Perylene	ND (10)
Acenaphthylene	ND (10)		
3-Nitroaniline	ND (50)		

ND = Not Detected

% Surrogate Recovery		
2-Fluorophenol	58	21-100
Phenol - d_5	60	10-94
Nitrobenzene - d_5	39	35-114
2-Fluorobiphenyl	33	43-116
2,4,6 Tribromophenol	41	10-123
Terphenyl - d_{14}	31	18-137

EPA METHOD - 625
SEMIVOLATILE ORGANICS BY GC/MS

CLIENT:	AGI	DATE REC'D:	11/21/91
PROJECT:	Another Tree Development	DATE EXTRACTED:	10/29/91
SAMPLE ID:	ATD4W-2	DATE ANALYZED:	10/31/91
CONTROL NO:	N911004-4	MATRIX:	Water

PARAMETER	RESULTS (ug/L)	PARAMETER	RESULTS (ug/L)
Phenol	ND (10)	Acenaphthene	ND (10)
bis(2-chloroethyl)ether	ND (10)	2,4-Dinitrophenol	ND (50)
2-Chlorophenol	ND (10)	4-Nitrophenol	ND (50)
1,3-Dichlorobenzene	ND (10)	Dibenzofuran	ND (10)
1,4-Dichlorobenzene	ND (10)	2,4-Dinitrotoluene	ND (10)
Benzyl Alcohol	ND (10)	2,6-Dinitrotoluene	ND (10)
1,2-Dichlorobenzene	ND (10)	Diethylphthalate	ND (10)
2-Methylphenol	ND (10)	4-Chlorophenyl-phenylether	ND (10)
bis(2-chloroisopropyl)ether	ND (10)	Fluorene	ND (10)
4-Methylphenol	ND (10)	4-Nitroaniline	ND (50)
N-Nitroso-Di-n-Propylamine	ND (10)	4,6-Dinitro-2-Methylphenol	ND (50)
Hexachloroethane	ND (10)	N-Nitrosodiphenylamine	ND (10)
Nitrobenzene	ND (10)	4-Bromophenyl-phenylether	ND (10)
Isophorone	ND (10)	Hexachlorobenzene	ND (10)
2-Nitrophenol	ND (10)	Pentachlorophenol	ND (10)
2,4-Dimethylphenol	ND (10)	Phenanthrene	ND (10)
Benzoic Acid	ND (50)	Anthracene	ND (10)
bis-(2-Chloroethoxy)methane	ND (10)	Di-n-Butylphthalate	ND (10)
2,4-Dichlorophenol	ND (10)	Fluoranthene	ND (10)
1,2,4-Trichlorobenzene	ND (10)	Pyrene	ND (10)
Naphthalene	ND (10)	Butylbenzylphthalate	ND (10)
4-Chloroanline	ND (20)	3,3'-Dichlorobenzidine	ND (20)
Hexachlorobutadiene	ND (10)	Benzo(a)Anthracene	ND (10)
4-Chloro-3-Methylphenol	ND (20)	bis(2-Ethylhexyl)Phthalate	ND (10)
2-Methylnaphthalene	ND (10)	Chrysene	ND (10)
Hexachlorocyclopentadiene	ND (10)	Di-n-Octyl Phthalate	ND (10)
2,4,6-Trichlorophenol	ND (10)	Benzo(b)Fluoranthene	ND (10)
2,4,5-Trichlorophenol	ND (10)	Benzo(k)Fluoranthene	ND (10)
2-Chloronaphthalene	ND (10)	Benzo(a)Pyrene	ND (10)
2-Nitroaniline	ND (50)	Indeno(1,2,3-cd)Pyrene	ND (10)
Dimethyl Phthalate	ND (10)	Dibenz(a,h)Anthracene	ND (10)
Diethyl phthalate	ND (10)	Benzo(g,h,i)Perylene	ND (10)
Acenaphthylene	ND (10)		
3-Nitroaniline	ND (50)		

ND = Not Detected

% Surrogate Recovery		
2-Fluorophenol	91	21-100
Phenol - d_5	97	10-94
Nitrobenzene - d_5	67	35-114
2-Fluorobiphenyl	55	43-116
2,4,6 Tribromophenol	78	10-123
Terphenyl - d_{14}	64	18-137

EPA METHOD - 625
SEMIVOLATILE ORGANICS BY GC/MS

CLIENT:	AGI	DATE REC'D:	11/21/91
PROJECT:	Another Tree Development	DATE EXTRACTED:	10/29/91
SAMPLE ID:	ATD5W-2	DATE ANALYZED:	10/31/91
CONTROL NO:	N911004-5	MATRIX:	Water

PARAMETER	RESULTS (ug/L)	PARAMETER	RESULTS (ug/L)
Phenol	ND (10)	Acenaphthene	ND (10)
bis(2-chloroethyl)ether	ND (10)	2,4-Dinitrophenol	ND (50)
2-Chlorophenol	ND (10)	4-Nitrophenol	ND (50)
1,3-Dichlorobenzene	ND (10)	Dibenzofuran	ND (10)
1,4-Dichlorobenzene	ND (10)	2,4-Dinitrotoluene	ND (10)
Benzyl Alcohol	ND (10)	2,6-Dinitrotoluene	ND (10)
1,2-Dichlorobenzene	ND (10)	Diethylphthalate	ND (10)
2-Methylphenol	ND (10)	4-Chlorophenyl-phenylether	ND (10)
bis(2-chloroisopropyl)ether	ND (10)	Fluorene	ND (10)
4-Methylphenol	ND (10)	4-Nitroaniline	ND (50)
N-Nitroso-Di-n-Propylamine	ND (10)	4,6-Dinitro-2-Methylphenol	ND (50)
Hexachloroethane	ND (10)	N-Nitrosodiphenylamine	ND (10)
Nitrobenzene	ND (10)	4-Bromophenyl-phenylether	ND (10)
Isophorone	ND (10)	Hexachlorobenzene	ND (10)
2-Nitrophenol	ND (10)	Pentachlorophenol	ND (10)
2,4-Dimethylphenol	ND (10)	Phenanthrene	ND (10)
Benzoic Acid	ND (50)	Anthracene	ND (10)
bis-(2-Chloroethoxy)methane	ND (10)	Di-n-Butylphthalate	ND (10)
2,4-Dichlorophenol	ND (10)	Fluoranthene	ND (10)
1,2,4-Trichlorobenzene	ND (10)	Pyrene	ND (10)
Naphthalene	ND (10)	Butylbenzylphthalate	ND (10)
4-Chloroanline	ND (20)	3,3'-Dichlorobenzidine	ND (20)
Hexachlorobutadiene	ND (10)	Benzo(a)Anthracene	ND (10)
4-Chloro-3-Methylphenol	ND (20)	bis(2-Ethylhexyl)Phthalate	ND (10)
2-Methylnaphthalene	ND (10)	Chrysene	ND (10)
Hexachlorocyclopentadiene	ND (10)	Di-n-Octyl Phthalate	ND (10)
2,4,6-Trichlorophenol	ND (10)	Benzo(b)Fluoranthene	ND (10)
2,4,5-Trichlorophenol	ND (10)	Benzo(k)Fluoranthene	ND (10)
2-Chloronaphthalene	ND (10)	Benzo(a)Pyrene	ND (10)
2-Nitroaniline	ND (50)	Indeno(1,2,3-cd)Pyrene	ND (10)
Dimethyl Phthalate	ND (10)	Dibenz(a,h)Anthracene	ND (10)
Diethyl phthalate	ND (10)	Benzo(g,h,i)Perylene	ND (10)
Acenaphthylene	ND (10)		
3-Nitroaniline	ND (50)		

ND = Not Detected

% Surrogate Recovery		
2-Fluorophenol	91	21-100
Phenol - d_5	96	10-94
Nitrobenzene - d_5	64	35-114
2-Fluorobiphenyl	52	43-116
2,4,6 Tribromophenol	71	10-123
Terphenyl - d_{14}	58	18-137

EPA METHOD - 625
SEMIVOLATILE ORGANICS BY GC/MS

CLIENT:	AGI	DATE REC'D:	11/21/91
PROJECT:	Another Tree Development	DATE EXTRACTED:	10/29/91
SAMPLE ID:	ATD6W-2	DATE ANALYZED:	10/31/91
CONTROL NO:	N911004-6	MATRIX:	Water

PARAMETER	RESULTS (ug/L)	PARAMETER	RESULTS (ug/L)
Phenol	ND (10)	Acenaphthene	ND (10)
bis(2-chloroethyl)ether	ND (10)	2,4-Dinitrophenol	ND (50)
2-Chlorophenol	ND (10)	4-Nitrophenol	ND (50)
1,3-Dichlorobenzene	ND (10)	Dibenzofuran	ND (10)
1,4-Dichlorobenzene	ND (10)	2,4-Dinitrotoluene	ND (10)
Benzyl Alcohol	ND (10)	2,6-Dinitrotoluene	ND (10)
1,2-Dichlorobenzene	ND (10)	Diethylphthalate	ND (10)
2-Methylphenol	ND (10)	4-Chlorophenyl-phenylether	ND (10)
bis(2-chloroisopropyl)ether	ND (10)	Fluorene	ND (10)
4-Methylphenol	ND (10)	4-Nitroaniline	ND (50)
N-Nitroso-Di-n-Propylamine	ND (10)	4,6-Dinitro-2-Methylphenol	ND (50)
Hexachloroethane	ND (10)	N-Nitrosodiphenylamine	ND (10)
Nitrobenzene	ND (10)	4-Bromophenyl-phenylether	ND (10)
Isophorone	ND (10)	Hexachlorobenzene	ND (10)
2-Nitrophenol	ND (10)	Pentachlorophenol	ND (10)
2,4-Dimethylphenol	ND (10)	Phenanthrene	ND (10)
Benzoic Acid	ND (50)	Anthracene	ND (10)
bis-(2-Chloroethoxy)methane	ND (10)	Di-n-Butylphthalate	ND (10)
2,4-Dichlorophenol	ND (10)	Fluoranthene	ND (10)
1,2,4-Trichlorobenzene	ND (10)	Pyrene	ND (10)
Naphthalene	ND (10)	Butylbenzylphthalate	ND (10)
4-Chloroanline	ND (20)	3,3'-Dichlorobenzidine	ND (20)
Hexachlorobutadiene	ND (10)	Benzo(a)Anthracene	ND (10)
4-Chloro-3-Methylphenol	ND (20)	bis(2-Ethylhexyl)Phthalate	ND (10)
2-Methylnaphthalene	ND (10)	Chrysene	ND (10)
Hexachlorocyclopentadiene	ND (10)	Di-n-Octyl Phthalate	ND (10)
2,4,6-Trichlorophenol	ND (10)	Benzo(b)Fluoranthene	ND (10)
2,4,5-Trichlorophenol	ND (10)	Benzo(k)Fluoranthene	ND (10)
2-Chloronaphthalene	ND (10)	Benzo(a)Pyrene	ND (10)
2-Nitroaniline	ND (50)	Indeno(1,2,3-cd)Pyrene	ND (10)
Dimethyl Phthalate	ND (10)	Dibenz(a,h)Anthracene	ND (10)
Diethyl phthalate	ND (10)	Benzo(g,h,i)Perylene	ND (10)
Acenaphthylene	ND (10)		
3-Nitroaniline	ND (50)		

ND = Not Detected

% Surrogate Recovery		
2-Fluorophenol	76	21-100
Phenol - d_5	82	10-94
Nitrobenzene - d_5	57	35-114
2-Fluorobiphenyl	51	43-116
2,4,6 Tribromophenol	90	10-123
Terphenyl - d_{14}	56	18-137

EPA METHOD - 625
SEMIVOLATILE ORGANICS BY GC/MS

CLIENT:	AGI	**DATE REC'D:**	11/21/91
PROJECT:	Another Tree Development	**DATE EXTRACTED:**	10/29/91
SAMPLE ID:	ATD7W-2	**DATE ANALYZED:**	10/31/91
CONTROL NO:	N911004-7	**MATRIX:**	Water

PARAMETER	RESULTS (ug/L)	PARAMETER	RESULTS (ug/L)
Phenol	ND (10)	Acenaphthene	ND (10)
bis(2-chloroethyl)ether	ND (10)	2,4-Dinitrophenol	ND (50)
2-Chlorophenol	ND (10)	4-Nitrophenol	ND (50)
1,3-Dichlorobenzene	ND (10)	Dibenzofuran	ND (10)
1,4-Dichlorobenzene	ND (10)	2,4-Dinitrotoluene	ND (10)
Benzyl Alcohol	ND (10)	2,6-Dinitrotoluene	ND (10)
1,2-Dichlorobenzene	ND (10)	Diethylphthalate	ND (10)
2-Methylphenol	ND (10)	4-Chlorophenyl-phenylether	ND (10)
bis(2-chloroisopropyl)ether	ND (10)	Fluorene	ND (10)
4-Methylphenol	ND (10)	4-Nitroaniline	ND (50)
N-Nitroso-Di-n-Propylamine	ND (10)	4,6-Dinitro-2-Methylphenol	ND (50)
Hexachloroethane	ND (10)	N-Nitrosodiphenylamine	ND (10)
Nitrobenzene	ND (10)	4-Bromophenyl-phenylether	ND (10)
Isophorone	ND (10)	Hexachlorobenzene	ND (10)
2-Nitrophenol	ND (10)	Pentachlorophenol	ND (10)
2,4-Dimethylphenol	ND (10)	Phenanthrene	ND (10)
Benzoic Acid	ND (50)	Anthracene	ND (10)
bis-(2-Chloroethoxy)methane	ND (10)	Di-n-Butylphthalate	ND (10)
2,4-Dichlorophenol	ND (10)	Fluoranthene	ND (10)
1,2,4-Trichlorobenzene	ND (10)	Pyrene	ND (10)
Naphthalene	ND (10)	Butylbenzylphthalate	ND (10)
4-Chloroanline	ND (20)	3,3'-Dichlorobenzidine	ND (20)
Hexachlorobutadiene	ND (10)	Benzo(a)Anthracene	ND (10)
4-Chloro-3-Methylphenol	ND (20)	bis(2-Ethylhexyl)Phthalate	ND (10)
2-Methylnaphthalene	ND (10)	Chrysene	ND (10)
Hexachlorocyclopentadiene	ND (10)	Di-n-Octyl Phthalate	ND (10)
2,4,6-Trichlorophenol	ND (10)	Benzo(b)Fluoranthene	ND (10)
2,4,5-Trichlorophenol	ND (10)	Benzo(k)Fluoranthene	ND (10)
2-Chloronaphthalene	ND (10)	Benzo(a)Pyrene	ND (10)
2-Nitroaniline	ND (50)	Indeno(1,2,3-cd)Pyrene	ND (10)
Dimethyl Phthalate	ND (10)	Dibenz(a,h)Anthracene	ND (10)
Diethyl phthalate	ND (10)	Benzo(g,h,i)Perylene	ND (10)
Acenaphthylene	ND (10)		
3-Nitroaniline	ND (50)		

ND = Not Detected

% Surrogate Recovery		
2-Fluorophenol	103	21-100
Phenol - d_5	111	10-94
Nitrobenzene - d_5	78	35-114
2-Fluorobiphenyl	60	43-116
2,4,6 Tribromophenol	86	10-123
Terphenyl - d_{14}	79	18-137

EPA METHOD Mod. 8015
TOTAL PETROLEUM HYDROCARBONS

CLIENT:	Applied Geosciences, Inc.	DATE REC'D:	08/06/91
PROJECT:	Market Place II	DATE EXTRACTED:	08/14/91
CONTROL NO:	910817	DATE ANALYZED:	08/15/91
MATRIX:	Water		

SAMPLE ID:	CONTROL NO:	RESULTS (mg/L)	Surrogate (% Rec.)
Method Bl.	910817	ND	99
ATD1W-1	910817-1	ND	112
ATD2W-1	910817-2	ND	109
ATD3W-1	910817-3	ND	119
ATD4W-1	910817-4	ND	114
ATD5W-1	910817-5	ND	118
ATD6W-1	910817-6	ND	130
ATD7W-1	910817-7	ND	115
ATD8W-1	910817-8	ND	114

DETECTION LIMIT is 1.0 mg/L.

EPA METHOD - 624
VOLATILE ORGANICS BY GC/MS

CLIENT:	Applied Geosciences	DATE REC'D:	08/06/91
PROJECT:	Market Place II	DATE ANALYZED:	08/07/91
SAMPLE ID:	ATD3W-1	MATRIX TYPE:	Water
CONTROL NO:	910817-3		

PARAMETERS (624)	RESULTS (ug/L)	DETECTION LIMIT (ug/L)
Benzene	ND	1
Bromodichloromethane	ND	1
Bromoform	ND	1
Bromomethane	ND	5
Carbon Tetrachloride	ND	1
Chlorobenzene	ND	1
Chlorodibromomethane	ND	1
Chloroethane	ND	5
2-Chloroethyl vinyl ether	ND	5
Chloroform	ND	1
Chloromethane	ND	5
1,1-Dichloroethane	ND	1
1,2-Dichloroethane	ND	1
1,1-Dichloroethene	ND	1
1,2-Dichloroethene	ND	1
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,2-Dichloropropane	ND	1
cis-1,3-Dichloropropene	ND	1
trans-1,3-Dichloropropene	ND	1
Ethylbenzene	ND	1
Methylene chloride	ND	10
1,1,2,2-Tetrachloroethane	ND	1
Tetrachloroethene	ND	1
Toluene	ND	1
1,1,1-Trichloroethane	ND	1
1,1,2-Trichloroethane	ND	1
Trichloroethene	ND	1
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	10
1,3 Dichlorobenzene	ND	1
1,4 Dichlorobenzene	ND	1
1,2 Dichlorobenzene	ND	1
Xylenes	ND	1
% SURROGATE RECOVERY		
1,2 Dichloroethane-d_4	98	76-114
Toluene -d_8	110	88-110
Bromofluorobenzene	102	86-115

ND - Non Detected

EPA METHOD - 624
VOLATILE ORGANICS BY GC/MS

CLIENT:	Applied Geosciences	DATE REC'D:	08/06/91
PROJECT:	Market Place II	DATE ANALYZED:	08/07/91
SAMPLE ID:	ATD4W-1	MATRIX TYPE:	Water
CONTROL NO:	910817-4		

PARAMETERS (624)	RESULTS (ug/L)	DETECTION LIMIT (ug/L)
Benzene	ND	1
Bromodichloromethane	ND	1
Bromoform	ND	1
Bromomethane	ND	5
Carbon Tetrachloride	ND	1
Chlorobenzene	ND	1
Chlorodibromomethane	ND	1
Chloroethane	ND	5
2-Chloroethyl vinyl ether	ND	5
Chloroform	ND	1
Chloromethane	ND	5
1,1-Dichloroethane	ND	1
1,2-Dichloroethane	ND	1
1,1-Dichloroethene	ND	1
1,2-Dichloroethene	ND	1
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,2-Dichloropropane	ND	1
cis-1,3-Dichloropropene	ND	1
trans-1,3-Dichloropropene	ND	1
Ethylbenzene	ND	1
Methylene chloride	ND	10
1,1,2,2-Tetrachloroethane	ND	1
Tetrachloroethene	ND	1
Toluene	ND	1
1,1,1-Trichloroethane	ND	1
1,1,2-Trichloroethane	ND	1
Trichloroethene	ND	1
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	10
1,3 Dichlorobenzene	ND	1
1,4 Dichlorobenzene	ND	1
1,2 Dichlorobenzene	ND	1
Xylenes	ND	1
% SURROGATE RECOVERY		
1,2 Dichloroethane-d_4	102	76-114
Toluene -d_8	102	88-110
Bromofluorobenzene	86	86-115

ND - Non Detected

EPA METHOD - 624
VOLATILE ORGANICS BY GC/MS

CLIENT:	Applied Geosciences	DATE REC'D:	08/06/91
PROJECT:	Market Place II	DATE ANALYZED:	08/07/91
SAMPLE ID:	ATD6W-1	MATRIX TYPE:	Water
CONTROL NO:	910817-6		

PARAMETERS (624)	RESULTS (ug/L)	DETECTION LIMIT (ug/L)
Benzene	6	1
Bromodichloromethane	ND	1
Bromoform	ND	1
Bromomethane	ND	5
Carbon Tetrachloride	ND	1
Chlorobenzene	ND	1
Chlorodibromomethane	ND	1
Chloroethane	ND	5
2-Chloroethyl vinyl ether	ND	5
Chloroform	ND	1
Chloromethane	ND	5
1,1-Dichloroethane	ND	1
1,2-Dichloroethane	ND	1
1,1-Dichloroethene	ND	1
1,2-Dichloroethene	ND	1
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,2-Dichloropropane	ND	1
cis-1,3-Dichloropropene	ND	1
trans-1,3-Dichloropropene	ND	1
Ethylbenzene	5	1
Methylene chloride	ND	10
1,1,2,2-Tetrachloroethane	ND	1
Tetrachloroethene	ND	1
Toluene	3	1
1,1,1-Trichloroethane	ND	1
1,1,2-Trichloroethane	ND	1
Trichloroethene	ND	1
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	10
1,3 Dichlorobenzene	ND	1
1,4 Dichlorobenzene	ND	1
1,2 Dichlorobenzene	ND	1
Xylenes	5	1
% SURROGATE RECOVERY		
1,2 Dichloroethane-d_4	110	76-114
Toluene -d_8	102	88-110
Bromofluorobenzene	94	86-115

ND - Non Detected

METHOD: 624

SAMPLE ID: ATD6W-1

CONTROL NO: 910817-6

Tentatively Identified Compounds

COMPOUND NAMES	CONCENTRATION (Estimate) (ug/L)
2-Pentene	9
Cyclopentane, methyl	39
Cyclohexane	30
Cyclohexane, methyl	20

EPA METHOD - 624
VOLATILE ORGANICS BY GC/MS

CLIENT:	Applied Geosciences	DATE REC'D:	08/06/91
PROJECT:	Market Place II	DATE ANALYZED:	08/07/91
SAMPLE ID:	Method Blank	MATRIX TYPE:	Water
CONTROL NO:	910817		

PARAMETERS (624)	RESULTS (ug/L)	DETECTION LIMIT (ug/L)
Benzene	ND	1
Bromodichloromethane	ND	1
Bromoform	ND	1
Bromomethane	ND	5
Carbon Tetrachloride	ND	1
Chlorobenzene	ND	1
Chlorodibromomethane	ND	1
Chloroethane	ND	5
2-Chloroethyl vinyl ether	ND	5
Chloroform	ND	1
Chloromethane	ND	5
1,1-Dichloroethane	ND	1
1,2-Dichloroethane	ND	1
1,1-Dichloroethene	ND	1
1,2-Dichloroethene	ND	1
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,2-Dichloropropane	ND	1
cis-1,3-Dichloropropene	ND	1
trans-1,3-Dichloropropene	ND	1
Ethylbenzene	ND	1
Methylene chloride	ND	10
1,1,2,2-Tetrachloroethane	ND	1
Tetrachloroethene	ND	1
Toluene	ND	1
1,1,1-Trichloroethane	ND	1
1,1,2-Trichloroethane	ND	1
Trichloroethene	ND	1
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	10
1,3 Dichlorobenzene	ND	1
1,4 Dichlorobenzene	ND	1
1,2 Dichlorobenzene	ND	1
Xylenes	ND	1

% SURROGATE RECOVERY		
1,2 Dichloroethane-d_4	86	76-114
Toluene -d_8	108	88-110
Bromofluorobenzene	112	86-115

ND - Non Detected

QUALITY CONTROL DATA

CLIENT: Applied Geosciences
PROJECT: Market Place II
CONTROL NO: 910817

METHOD EPA 608
MATRIX: Water

SAMPLE ID: Blank

COMPOUND	SAMPLE RESULTS (ug/L)	AMOUNT SPIKED (ug/L)	% REC.	DUP. % REC.	RPD
g-BHC	ND	10	86	86	0
Heptachlor	ND	20	78	82	5
Aldrin	ND	40	96	102	6
Dieldrin	ND	20	76	83	9
Endrin	ND	20	82	96	16
DDT	ND	40	65	75	14

METHOD EPA 3050/6010
MATRIX: Soil

SAMPLE ID: 910817-12

COMPOUND	SAMPLE RESULTS (mg/kg)	AMOUNT SPIKED (mg/kg)	% REC.	DUP. % REC.	RPD
Lead	110	100	90	60	16
Cadmium	3.5	100	88	84	5
Chromium	29	100	91	81	9

METHOD EPA 413.2
MATRIX: Water

SAMPLE ID: 910817-3

COMPOUND	SAMPLE RESULTS (mg/L)	AMOUNT SPIKED (mg/L)	% REC.	DUP. % REC.	RPD
TROG	1	150	106	105	1

QUALITY CONTROL DATA

CLIENT: Applied Geosciences, Inc.
PROJECT: Market Place II
CONTROL NO: 910817

METHOD: EPA M8015
MATRIX: Water

SAMPLE ID: D.I. Water

COMPOUND	SAMPLE RESULTS (mg/L)	AMOUNT SPIKED (mg/L)	% REC.
Diesel	ND	100	87

METHOD: EPA M8015
MATRIX: Soil

SAMPLE ID: 910817-10

COMPOUND	SAMPLE RESULTS (mg/kg)	AMOUNT SPIKED (mg/kg)	% REC.
Diesel	ND	100	92

METHOD: EPA 624
MATRIX: Water

SAMPLE ID: D.I. Water

COMPOUND	SAMPLE RESULTS (ug/L)	AMOUNT SPIKED (ug/L)	% REC.	DUP. % REC.	RPD
1,1 DCE	ND	50	90	92	2
Benzene	ND	50	100	108	8
TCE	ND	50	94	98	4
Toluene	ND	50	110	110	0
Chlorobenzene	ND	50	108	102	6

APPLIED GEOSCIENCES INC.
Engineering Geology and Hazardous Materials Consultants
1735 No. First St., Suite 305
San Jose, CA 95112
(408) 452-0262
FAX (408) 452-0265

SHIPMENT NO. _____
PAGE 1 OF 2
DATE 6/Aug 1991

CHAIN OF CUSTODY RECORD

PROJECT NAME: Market Place II
PROJECT NO.: A9017491A
CONTACT: Joseph Wells

Sample Number	Location	Type of Sample: Material	Type of Sample: Method	Type of Container	Type of Preservation: Temp	Type of Preservation: Chemical	Analysis Required*
ATDIW-1	ATD1	Water	—	40z bottle (2)	4°C	ICE	413.1, 60X
|	|	|	|	1 Liter bottle	|	|	CAM
|	|	|	|	VOA vial (3)	|	|	TPHd
ATD2W-1	ATD2	water		40z bottle	4°C	ICE	413.1
|	|	|	|	1 liter bottle	|	|	AM
|	|	|	|	VOA vial (3)	|	|	~~413.1~~ TPH
ATD3W-1	ATD3	water		40z bottle	4°C	ICE	413.1
|	|	|	|	1 liter bottle	|	|	CAM
|	|	|	|	VOA vial (6)	|	|	~~624~~, 624, TP
ATD4W-1	ATD4	Water		40z bottle	4°C	ICE	413.1
|	|	|	|	1 liter bottle	|	|	CAM
|	|	|	|	VOA vial (6)	|	|	624 TPHd
ATD5W-1	ATD5	water		40z bottle	4°C	ICE	413.1, 60X
|	|	|	|	1 Liter bottle	|	|	CAM
|	|	|	|	VOA vial (3)	|	|	TPHd
ATD6W-1	ATD6	water		40z bottle	4°C	ICE	413.1
|	|	|	|	1 Liter bottle	|	|	CAM
|	|	|	|	VOA vial (6)	|	|	TPHd 624
ATD7W-1	ATD7	water		40z bottle	4°C	ICE	413.1
|	|	|	|	1 Liter bottle	|	|	CAM

Total Number of Samples Shipped: 12 | Sampler's Signature: _____

Relinquished By: Signature _____ Printed Name Joseph C. Wells IV Company Applied Geosciences Reason Delivery to Lab	**Received By:** Signature _____ Printed Name _____ Company _____	Date 8/6/91 Time 1700
Relinquished By: Signature _____ Printed Name _____ Company _____ Reason _____	**Received By:** Signature _____ Printed Name _____ Company _____	Date / / Time
Relinquished By: Signature _____ Printed Name _____ Company _____ Reason _____	**Received By:** Signature _____ Printed Name _____ Company _____	Date / / Time
Relinquished By: Signature _____ Printed Name _____ Company _____ Reason _____	**Received By:** Signature _____ Printed Name _____ Company _____	Date / / Time

Special Shipment / Handling / Storage Requirements:
Filter metals samples prior to analysis

* Note – This does not constitute authorization to proceed with analysis

APPLIED GEOSCIENCES INC.

Engineering Geology and Hazardous Materials Consultants

1735 No. First St., Suite 305
San Jose, CA 95112
(408) 452-0262
FAX (408) 452-0265

SHIPMENT NO. ____
PAGE 2 OF 2
DATE 16 Aug 1991

CHAIN OF CUSTODY RECORD

PROJECT NAME: Marketplace II
PROJECT NO.: A921749A
CONTACT: Joseph Mello

Sample Number	Location	Type of Sample: Material	Type of Sample: Method	Type of Container	Type of Preservation: Temp	Type of Preservation: Chemical	Analysis Required*
ATU7W-1	ATU7	Water	-	VOA Vial (3)	4°C	ICE	TPHd
ATU8W-1	DUP	Water	—	liter bottle	"	"	413.1
"	"	"	"	VOA Vial (3)	"	"	TPHd
HA1-1	HA1	Soil	Drive	SS Tube	4°C	ICE	8030 TPHA CA
HA1-2	"	"	"	"	"	"	8080 TPHd CA
HA2-1	HA2	"	"	"	"	"	8080 TPHA CA
HA2-1D	"	"	"	"	"	"	8020 TPHA CA
		Nothing		follows			

Total Number of Samples Shipped: — | Sampler's Signature: —

Relinquished By:	Received By:	Date / Time
Signature	Signature	/ /
Printed Name	Printed Name	
Company	Company	
Reason		
Relinquished By:	Received By:	Date / Time
Signature	Signature	/ /
Printed Name	Printed Name	
Company	Company	
Reason		
Relinquished By:	Received By:	Date / Time
Signature	Signature	/ /
Printed Name	Printed Name	
Company	Company	
Reason		
Relinquished By:	Received By:	Date / Time
Signature	Signature	/ /
Printed Name	Printed Name	
Company	Company	
Reason		

Special Shipment / Handling / Storage Requirements:

* Note — This does not constitute authorization to proceed with analysis

EPA METHOD 5030/Mod. 8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

CLIENT:	AGI	**DATE REC'D:**	10/18/91
PROJECT:	A901749A	**DATE ANALYZED:**	10/21/91
CONTROL NO:	N911004	**MATRIX:**	Water

SAMPLE ID:	CONTROL NO:	RESULTS (mg/kg)	DETECTION LIMIT (mg/kg)
ATD1W-2	N911004-01	ND	0.1
ATD2W-2	N911004-02	ND	0.1
ATD3W-2	N911004-03	ND	0.1
ATD4W-2	N911004-04	ND	0.1
ATD5W-2	N911004-05	ND	0.1
ATD6W-2	N911004-06	ND	0.1
ATD7W-2	N911004-07	ND	0.1

EMG An Environment For Success.

11011 McCORMICK ROAD
BALTIMORE, MARYLAND 21031

410 785 5200 / 800 733 0660
FAX 410 785 6220

March 25, 1996

Mr. Gary Stougaard
Hardage Suite Hotels
9255 Towne Centre Drive
Suite 900
San Diego, California 92121

Re: Results of Groundwater Sampling
Another Tree Development
Shell Mound & Powell Streets
Emeryville, California 94608
EMG Project #20211001.96P

Dear Mr. Stougaard:

EMG has completed the sampling of groundwater monitoring wells at the above referenced property (Project). The scope of work for this Project consisted of the sampling and analyses of groundwater from two groundwater monitoring wells already present on the Project.

Monitoring Well Sampling

The sampling of the monitoring wells was conducted by EMG Project Manager Richard Tso on March 19, 1996. The monitoring wells, previously installed on the Project and last sampled in 1992, have not indicated the presence of groundwater contamination during prior rounds of sampling. To confirm that the groundwater beneath the Project remains unaffected, EMG collected one groundwater sample from each well. On March 19, 1996 EMG purged the wells of approximately three well volumes of water utilizing new disposable polyethylene bailers. No free product or other visual or olfactory signs of contamination were noted during the bailing of the wells. After purging, the wells were allowed to recharge prior to collecting the samples. The samples were collected with new disposable polyethylene bailers and placed in 40-milliliter (ml) glass vials with teflon-lined lids, and 1-liter amber glass bottles. Specific well sampling data is listed in Table 1.

The samples were immediately preserved on crushed ice in a cooler and shipped to Environmental Reference Laboratory Services in Baltimore, Maryland for total petroleum hydrocarbon (TPH) [both diesel range organics (DRO) and gasoline range organics (GRO)]; benzene, toluene, ethyl-benzene, and xylenes (BTEX); and RCRA Metals analyses.

EMG

The results of the analyses are illustrated in Table 1.

TABLE 1 - ANALYTICAL RESULTS

Sample Collection Date	Sample No.	BTEX (ug/L)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	RCRA Metals (mg/L)
3/19/96	MW-1	ND	ND	ND	Barium- 0.09
3/19/96	MW-2	ND	ND	ND	Barium- 0.140 Mercury- 0.002

ug/L - PPB (Parts Per Billion)
mg/L - PPM (Parts Per Million)

Analytical results indicate that neither TPH nor BTEX were detected in either water sample, and that trace concentrations of barium and/or mercury were detected in each well. In each well, neither the barium nor the mercury concentration exceeded its respective Maximum Contaminant Level (MCL) for drinking water. Based on the results of this investigation, EMG is of the opinion that no further groundwater investigation is required at the Project.

EMG appreciates the opportunity to provide you with this service. Should you have any questions or require additional information, please feel free to contact us.

Sincerely,
EMG

Jeffrey T. Smith
Program Supervisor

Charles Caron
Program Director

Attachment: Analytical Results

ENVIRONMENTAL REFERENCE LABORATORY SERVICES
A DIVISION OF CORNING CLINICAL LABORATORIES
1901 Sulphur Spring Road Baltimore, MD 21227
(410) 247-9100 (MD) (800) 638-1731 (US) (800) 368-2576

SELVIN PASSEN, M.D.
Medical Director

EMG-PHASE II (R-90042)
11011 MCCORMICK RD (D2,A)
HUNT VALLEY MD 21031

MW-1
PROJECT #: 2021-1001.96P
PROJ: ANOTHER TREE DEVELOPMENT
PROJ #: 2021-1001.96P
CONTACT: CHUCK CARON
SPECIMEN COLLECTED: 03/19/96 18:30
COLLECTED BY: R TSO
COMPLETED REPORT: 03/25/96 04:44 AM

SAMPLE IDENTIFICATION	DATE		LAB NUMBER	LABORATORY REPOR
MW-1	03/21/96		A96703862	

CONTINUATION OF REPORT - PAGE 2

MATRIX: WATER

ANALYTE	RESULT	DETECTION LIMIT	UNITS	METHODOLOGY
TPH-VOLATILE (W-WW)	NONE DETECTED	1	MG/L	EPA 8015 MODIFIED
QUANTITATION BASED ON GASOLINE RANGE ORGANICS (GRO).				
REPORTED AS VOLATILE PETROLEUM HYDROCARBONS.				
DIESEL DERIVED TPH	NONE DETECTED	1	MG/L	8015 MODIFIED
RESULT DERIVED FROM DIESEL FUEL STANDARDS.				
REPORTED AS VOLATILE PETROLEUM HYDROCARBONS.				
BENZENE (W-WW)	NONE DETECTED	1	MCG/L	EPA 8020 MODIFIED
TOLUENE (W-WW)	NONE DETECTED	1	MCG/L	EPA 8020 MODIFIED
ETHYLBENZENE (W-WW)	NONE DETECTED	1	MCG/L	EPA 8020 MODIFIED
XYLENES (W-WW)	NONE DETECTED	1	MCG/L	EPA 8020 MODIFIED

SIGNATURE (COMPLETED) 03/25/96 4:44 AM

DATE REPORTED

ENVIRONMENTAL REFERENCE LABORATORY SERVICES
A DIVISION OF CORNING CLINICAL LABORATORIES
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COMPLETED REPORT: 03/25/96 04:44 AM

SAMPLE IDENTIFICATION	DATE		LAB NUMBER	LABORATORY REPOR
MW-1	03/21/96		A96703862	

MATRIX: WATER

BARIUM (W-WW)---------- 0.09 MG/L

METHOD---------- EPA 6010

CADMIUM (W-WW)---------- LESS THAN THE MDL
METHOD---------- EPA 6010
THE DETECTION LIMIT IS 0.05 MG/L

CHROMIUM (W-WW)---------- LESS THAN THE MDL
METHOD---------- EPA 6010
THE DETECTION LIMIT IS 0.12 MG/L

MERCURY (W-WW)---------- LESS THAN THE MDL
METHOD---------- EPA 245.1
THE DETECTION LIMIT IS 0.0001 MG/L

SILVER (W-WW)---------- LESS THAN THE MDL
METHOD---------- EPA 6010
THE DETECTION LIMIT IS 0.1 MG/L

LEAD (W-WW)---------- LESS THAN THE MDL
METHOD---------- EPA 6010
THE DETECTION LIMIT IS 0.35 MG/L

ARSENIC (W-WW)---------- LESS THAN THE MDL
METHOD---------- EPA 6010
THE DETECTION LIMIT IS 1.0 MG/L

SELENIUM (W-WW)---------- LESS THAN THE MDL
METHOD---------- EPA 6010
THE DETECTION LIMIT IS 0.5 MG/L

SIGNATURE

DATE REPORTED

ENVIRONMENTAL REFERENCE LABORATORY SERVICES
A DIVISION OF CORNING CLINICAL LABORATORIES
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(410) 247-9100 (MD) (800) 638-1731 (US) (800) 368-2576

SELVIN PASSEN, M.D.
Medical Director

EMG-PHASE II (R-90042)
11011 MCCORMICK RD (D2,A)
HUNT VALLEY MD 21031

MW-2
PROJECT #: 2021-1001.96P
PROJ: ANOTHER TREE DEVELOPMENT
PROJ #: 2021-1001.96P
CONTACT: CHUCK CARON
SPECIMEN COLLECTED: 03/19/96 18:30
COLLECTED BY: R TSO
PARTIAL REPORT: 03/22/96 08:27 AM

SAMPLE IDENTIFICATION	DATE		LAB NUMBER	LABORATORY REPOR
MW-2	03/21/96		A96703863	

MATRIX: WATER

ANALYTE	RESULT	DETECTION LIMIT	UNITS	METHODOLOGY
TPH-VOLATILE (W-WW)	NONE DETECTED	1	MG/L	EPA 8015 MODIFIED
QUANTITATION BASED ON GASOLINE RANGE ORGANICS (GRO).				
REPORTED AS VOLATILE PETROLEUM HYDROCARBONS.				
DIESEL DERIVED TPH	NONE DETECTED	1	MG/L	8015 MODIFIED
RESULT DERIVED FROM DIESEL FUEL STANDARDS.				
REPORTED AS VOLATILE PETROLEUM HYDROCARBONS.				
BENZENE (W-WW)	NONE DETECTED	1	MCG/L	EPA 8020 MODIFIED
TOLUENE (W-WW)	NONE DETECTED	1	MCG/L	EPA 8020 MODIFIED
ETHYLBENZENE (W-WW)	NONE DETECTED	1	MCG/L	EPA 8020 MODIFIED
XYLENES (W-WW)	NONE DETECTED	1	MCG/L	EPA 8020 MODIFIED

SIGNATURE

(PARTIAL REPORT)

03/22/96 8:27 AM
DATE REPORTED

ENVIRONMENTAL REFERENCE LABORATORY SERVICES
A DIVISION OF CORNING CLINICAL LABORATORIES
1901 Sulphur Spring Road Baltimore, MD 21227
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SELVIN PASSEN, M.D
Medical Director

EMG-PHASE II (R-90042)
11011 MCCORMICK RD (D2,A)
HUNT VALLEY MD 21031

MW-2
PROJECT #: 2021-1001.96P
PROJ: ANOTHER TREE DEVELOPMENT
PROJ #: 2021-1001.96P
CONTACT: CHUCK CARON
SPECIMEN COLLECTED: 03/19/96 18:30
COLLECTED BY: R TSO
COMPLETED REPORT: 03/25/96 04:44 AM

SAMPLE IDENTIFICATION	DATE		LAB NUMBER	LABORATORY REPORT
MW-2	03/21/96		A96703863	

MATRIX: WATER

BARIUM (W-WW)	0.14 MG/L
METHOD	EPA 6010
CADMIUM (W-WW)	LESS THAN THE MDL
METHOD	EPA 6010
THE DETECTION LIMIT IS 0.05 MG/L	
CHROMIUM (W-WW)	LESS THAN THE MDL
METHOD	EPA 6010
THE DETECTION LIMIT IS 0.12 MG/L	
MERCURY (W-WW)	0.0023 MG/L
METHOD	EPA 245.1
SILVER (W-WW)	LESS THAN THE MDL
METHOD	EPA 6010
THE DETECTION LIMIT IS 0.1 MG/L	
LEAD (W-WW)	LESS THAN THE MDL
METHOD	EPA 6010
THE DETECTION LIMIT IS 0.35 MG/L	
ARSENIC (W-WW)	LESS THAN THE MDL
METHOD	EPA 6010
THE DETECTION LIMIT IS 1.0 MG/L	
SELENIUM (W-WW)	LESS THAN THE MDL
METHOD	EPA 6010
THE DETECTION LIMIT IS 0.5 MG/L	

SIGNATURE

DATE REPORTED

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUNDWATER SAMPLES

Well No.	TPH- D	TPH- G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes
Samples Collected on November 9, 1997							
MW1	240	NA	NA	NA	NA	NA	NA
MW2*	220	NA	NA	NA	NA	NA	NA
Samples Collected on November 5, 1997							
MW1**	210	ND	ND	ND	ND	ND	ND
MW2**	230	ND	ND	ND	ND	ND	ND

Notes:

Results are in ug/L, unless otherwise indicated.

* Chromium was not detected.

** The metals arsenic, barium, cadmium, chromium, mercury, lead, selenium, and sliver were either not detected or were detected at concentrations below their respective Maximum Contaminant Levels (MCLs) with the exception of chromium, which was detected in well MW2 at a concentration of 0.010 ug/L.

RGA Environmental, Inc November 21, 1997
Groundwater Monitoring and Sampling Report

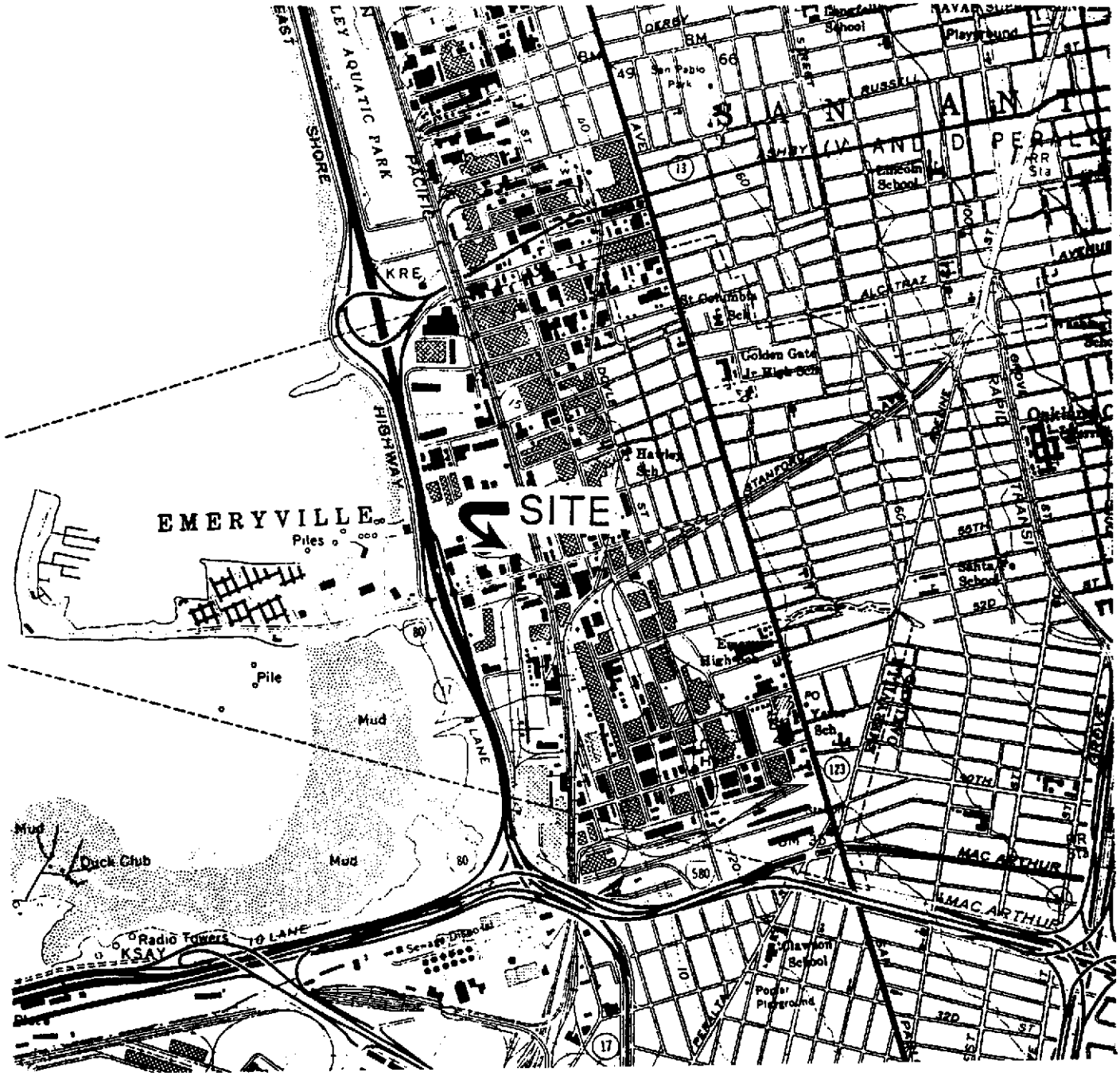


FIGURE 1
SITE LOCATION MAP
Hardage Suite Hotels, Inc.
Intersection of Shellmound and Powell Street (Northeast corner)
Emeryville, California

N

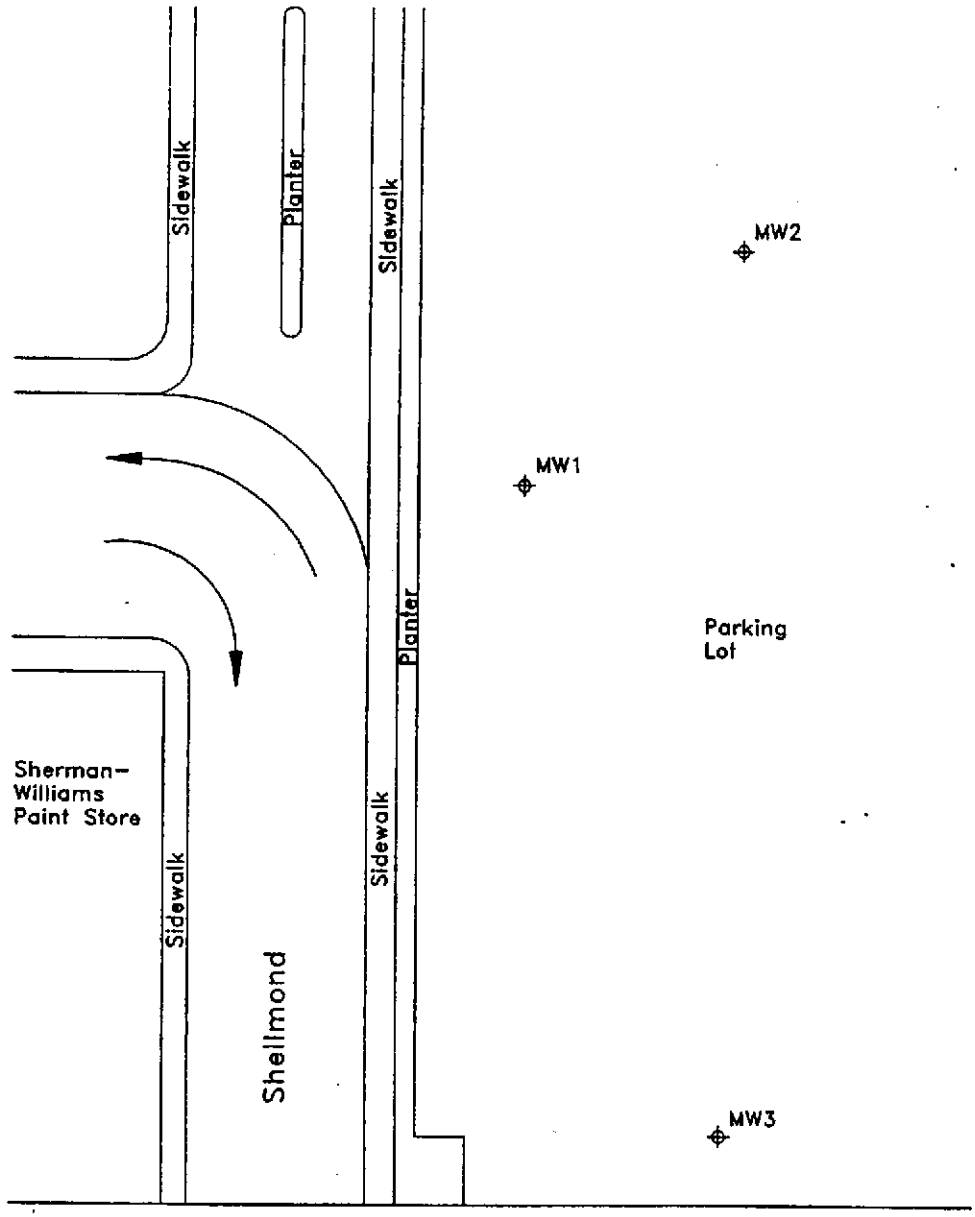
Source:

U.S. Geological Survey
Oakland West, California
7.5 Minute Quadrangle
Photorevised, 1980

RGA Environmental, Inc.
1260 45th Street
Emeryville, California 94608

0 1,000 2,000

SCALE IN FEET



LEGEND

⌖ Monitoring Well Locations

FIGURE 2
SITE PLAN
Hardage Suite Hotels, Inc.
Intersection of Shellmound and Powell Street (Northeast corner)
Emeryville, California

N

Base Map From:

RGA Environmental Inc.
November, 1997
(BJ1054)

RGA Environmental, Inc.
1260 45th Street
Emeryville, California 94608

0 25 50
SCALE IN FEET

McCAMPBELL ANALYTICAL INC.
110 Second Avenue South, #D7, Pacheco, CA 94553
Telephone : 510-798-1620 Fax : 510-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

RGA Environmental 1260 45th Street Emeryville, CA 94608	Client Project ID: #HSHI3628; Hardage Suite Hotels- Emeryville	Date Sampled: 11/05/97
		Date Received: 11/05/97
	Client Contact: Harry Lawrence	Date Extracted: 11/05/97
	Client P.O:	Date Analyzed: 11/05/97

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

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

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Recovery Surrogate
82617	MW1	W	ND	ND	ND	ND	ND	ND	94
82618	MW2	W	ND	ND	ND	ND	ND	ND	96
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

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

cluttered chromatogram; sample peak coelutes with surrogate peak

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

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 Second Avenue South, #D7, Pacheco, CA 94553
Telephone : 510-798-1620 Fax : 510-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

RGA Environmental 1260 45th Street Emeryville, CA 94608	Client Project ID: #HSHI3628; Hardage Suite Hotels- Emeryville	Date Sampled: 11/05/97
		Date Received: 11/05/97
	Client Contact: Harry Lawrence	Date Extracted: 11/05/97
	Client P.O:	Date Analyzed: 11/05/97

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
82617	MW1	W	210,c	104
82618	MW2	W	230,c	104
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 Second Avenue South, #D7, Pacheco, CA 94553
Telephone : 510-798-1620 Fax : 510-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

RGA Environmental 1260 45th Street Emeryville, CA 94608	Client Project ID: #HSHI3628; Hardage Suite Hotels- Emeryville	Date Sampled: 11/05/97
		Date Received: 11/05/97
	Client Contact: Harry Lawrence	Date Extracted: 11/05/97
	Client P.O:	Date Analyzed: 11/05-11/06/97

RCRA Metals*

EPA methods 6010/200.7; 7470/7470/245.1/245.5 (Hg); 7060/206.2 (As); 7740/270.2 (Se); 239.2 (Pb, water matrix)

Lab ID	82617	82618			Reporting Limit		
Client ID	MW1	MW2					
Matrix	W	W			S	W	STLC, TCLP
Extraction°	Dissolved	Dissolved			TTLC	TTLC	
Compound	Concentration*				mg/kg	mg/L	mg/L
Arsenic (As)	ND	0.026			2.5	0.005	0.25
Barium (Ba)	0.095	0.11			1.0	0.05	0.05
Cadmium (Cd)	ND	ND			0.5	0.005	0.01
Chromium (Cr)	0.0055	0.010			0.5	0.005	0.05
Lead (Pb)	ND	0.016			3.0	0.005	0.2
Mercury (Hg)	ND	ND			0.06	0.0008	0.0008
Selenium (Se)	ND	ND			2.5	0.005	0.25
Silver (Ag)	ND	ND			1.0	0.01	0.05
% Recovery Surrogate	NA	NA					
Comments							

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

ND means not detected above the reporting limit; N/A means surrogate not applicable to this analysis

° EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC -CA Title 22

surrogate diluted out of range

& reporting limit raised due to matrix interference

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 11/05/97 Matrix: WATER

Analyte	Concentration (mg/L) Sample #(82584)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	99.4	99.5	100.0	99.4	99.5	0.2
Benzene	0.0	10.6	10.1	10.0	106.0	101.0	4.8
Toluene	0.0	10.7	10.3	10.0	107.0	103.0	3.8
Ethyl Benzene	0.0	10.7	10.4	10.0	107.0	104.0	2.8
Xylenes	0.0	32.2	31.2	30.0	107.3	104.0	3.2
TPH(diesel)	0	149	148	150	100	99	0.7
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
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QC REPORT FOR METALS

Date: 11/05/97-11/06/97 Matrix: WATER

Extraction: Dissolved

Analyte	Concentration (mg/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Arsenic	0.0	5.3	5.2	5.0	107	104	2.7
Selenium	0.0	5.2	5.1	5.0	104	102	2.6
Molybdenum	0.0	5.4	5.4	5.0	108	108	0.0
Silver	0.0	0.6	0.6	0.5	116	114	1.7
Thallium	0.0	4.8	4.8	5.0	96	95	1.2
Barium	0.0	4.8	4.7	5.0	95	93	2.0
Nickel	0.0	5.0	4.9	5.0	99	98	0.9
Chromium	0.0	5.5	5.5	5.0	111	109	1.3
Vanadium	0.0	5.0	4.9	5.0	101	99	1.9
Beryllium	0.0	5.7	5.6	5.0	113	111	1.7
Zinc	0.0	5.8	5.7	5.0	116	113	2.2
Copper	0.0	4.8	4.6	5.0	96	93	3.7
Antimony	0.0	4.9	4.8	5.0	98	96	2.7
Lead	0.0	5.1	4.9	5.0	101	98	2.7
Cadmium	0.0	5.6	5.5	5.0	111	109	2.0
Cobalt	0.0	5.4	5.4	5.0	108	108	0.0
Mercury	0.000	0.022	0.021	0.02	112	106	5.5

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

9805 x RGA 50

RGA
ENVIRONMENTAL INC.
1260 45TH STREET TEL: (510) 547-7771
FAX: (510) 547-1983 EMERYVILLE, CA 94608

CHAIN OF CUSTODY

Project Number:	Project Name:
MSHL 3628	Heritage Suite Hotels - Emeryville
Sampled By: (Printed and Signature): Paul H. King Paul H. King	

Sample Number	Date	Time	Type	Sample Location	No. of Containers:	Analysis(es):	TPH-Gas/BTEX/MTBE	TPH-Diesel	RCRA Metals		Preservatives	Remarks
											HCl	
X MW1	11/5/97		Water	Well MW1	5		X	X	X		X	24 Hr Turn Around
X MW2	11/5/97		Water	Well MW2	5		X	X	X		X	24 Hr Turn Around
												82617
												82618

RCEA
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓

PRESERVATION ✓ VOAs | O&G | METALS | OTHER
APPROPRIATE
CONTAINERS ✓

Relinquished By: (Signature):	Date	Time	~~Relinquished~~ Received By: (Signature):	Total No. of Samples	Total No. of Containers	Laboratory:
Paul H. King	11/5/97	3:00pm	J. Milenic MAI	2	10	McCampbell
Relinquished By: (Signature):	Date	Time	Relinquished By: (Signature):	Laboratory Contact: Ed Hamilton		Laboratory Phone Number: (510) 798-1620
Relinquished By: (Signature):	Date	Time	Received For Laboratory By: (Signature)	Sample Analysis Request Sheet Attatched ( ) Yes (X) No		

Comments: VOAs are preserved with HCl. Metals are not preserved. Please filter and preserve upon receipt at laboratory.

McCAMPBELL ANALYTICAL INC.
110 Second Avenue South, #D7, Pacheco, CA 94553
Telephone : 510-798-1620 Fax : 510-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

RGA Environmental 1260 45th Street Emeryville, CA 94608	Client Project ID: #HSHI3628; Hardage Smith Hotels, Inc.	Date Sampled: 11/09/97
		Date Received: 11/10/97
	Client Contact: Harry Lawrence	Date Extracted: 11/12/97
	Client P.O:	Date Analyzed: 11/12/97

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
82833	MW-1	W	240,c	100
82834	MW-2	W	220,c	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
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Telephone : 510-798-1620 Fax : 510-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

RGA Environmental 1260 45th Street Emeryville, CA 94608	Client Project ID: #HSHI3628; Hardage Smith Hotels, Inc.	Date Sampled: 11/09/97
		Date Received: 11/10/97
	Client Contact: Harry Lawrence	Date Extracted: ---
	Client P.O:	Date Analyzed: 11/11/97

Chromium*

EPA analytical methods 6010/200.7, 239.2*

Lab ID	Client ID	Matrix	Extraction°	Chromium	% Recovery Surrogate
82834	MW2	W	Dissolved	ND	NA

Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLC	0.5 mg/kg	
	W	TTLC	0.005 mg/L	
	---	STLC, TCLP	0.05 mg/L	

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

* Lead is analysed using EPA method 6010 (ICP)for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

° EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC - CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

& reporting limit raised due to matrix interference

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR METALS

Date: 11/10/97-11/11/97 Matrix: WATER

Extraction: Dissolved

Analyte	Concentration (mg/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Arsenic	0.0	4.8	4.9	5.0	96	98	2.6
Selenium	0.0	4.8	4.8	5.0	95	95	0.1
Molybdenum	0.0	4.8	4.9	5.0	96	97	0.9
Silver	0.0	0.5	0.5	0.5	98	98	0.1
Thallium	0.0	4.5	4.6	5.0	89	92	2.9
Barium	0.0	4.3	4.3	5.0	86	86	0.3
Nickel	0.0	4.6	4.6	5.0	92	92	0.5
Chromium	0.0	4.9	4.8	5.0	97	97	0.8
Vanadium	0.0	4.5	4.5	5.0	90	89	0.4
Beryllium	0.0	4.9	5.0	5.0	99	100	1.4
Zinc	0.0	5.1	5.2	5.0	102	103	1.3
Copper	0.0	4.4	4.4	5.0	88	88	0.8
Antimony	0.0	4.5	4.5	5.0	90	90	0.4
Lead	0.0	4.5	4.6	5.0	90	91	1.1
Cadmium	0.0	4.8	4.9	5.0	97	98	0.8
Cobalt	0.0	4.7	4.8	5.0	94	95	1.7
Mercury	0.000	0.022	0.021	0.02	112	106	5.5

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

RGA

ENVIRONMENTAL INC.
1260 45TH STREET TEL: (510) 547-7771
FAX: (510) 547-1983 EMERYVILLE, CA 94608

CHAIN OF CUSTODY

XRGA51
9844

Project Number:	Project Name:
HSHE 3625	Mariedge Suite Hotels, Inc. - Emeryville

Sampled By: (Printed and Signature): Paul H King Paul H. King

Sample Number	Date	Time	Type	Sample Location	No. of Containers:	Analysis(es):	TPH-Diesel	Chromium	Preservatives	Remarks
(1) MW1	11/9/97		Water	well MW1	2		X		X	Normal Turn Around Time
+ MW2	"		"	well MW2	2		X	X	X	" " "

82833
82834

VOAS | O&G | METALS | OTHER

ICE ✓ PRESERVATION ✓
GOOD CONDITION ✓ APPROPRIATE
HEAD SPACE ABSENT ✓ CONTAINERS ✓

RECEIVED

Relinquished By: (Signature)	Date	Time	Relinquished By: (Signature)	Total No. of Samples	Total No. of Containers	Laboratory
Paul H. King	11/10/97	6PM		2	4	McCampbell
~~Relinquished By: (Signature)~~ 673 AERO	Date 11/10/97	Time 1050	Relinquished By: (Signature)	Laboratory Contact: Ed Hamilton		Laboratory Phone Number: (510) 798-1620
Relinquished By: (Signature)	Date 11/10/97	Time 1000	Received For Laboratory By: (Signature) Judith Rivera	Sample Analysis Request Sheet Attatched ( ) Yes (X) No		

Comments: Sample for Chromium not preserved in the field. Please filter and preserve upon receipt at the laboratory.

RGA ENVIRONMENTAL, INC

1260 45TH STREET EMERYVILLE, CA 94608
FAX: 510 ~~547-1983~~ 658-4914 TEL: 510 ~~547-7771~~ 658-4313
RGAEnv@AOL.com

FACSIMILE TRANSMITTAL SHEET

TO: Chuck Wibert	FROM: Paul M. King
COMPANY: Mardage Construction	DATE: 7/28/98 9:15AM
FAX NUMBER: 209 966-8062	TOTAL NO. OF PAGES INCLUDING COVER: 4
PHONE NUMBER: 209 966-8066	SENDER'S JOB REFERENCE NUMBER:
RE: EBMUD Wastewater Discharge Permit App	CC: Karin / Bob

☐ URGENT ☒ FOR REVIEW ☐ PLEASE COMMENT ☒ PLEASE REPLY

NOTES/COMMENTS:

Chuck, Attached are the following:

- Waste Water Discharge Permit Application Info form (1p). Please check the address zip code for corrections. You will need to arrange with Chuck Pendry for the certification ~~sig~~ signature. An explanation of this requirement is attached (1p).
- Exhibit 9-C showing the $2,490 permit application fee. Make check payable to "EBMUD." (1p).

EXHIBIT 9-C

Chuck, this is the initial application fee

EBMUD Wastewater Rates And Fees
Effective July 1, 1997

Permit Application Fees	
Discharge Prevention Permit	$ 0.00 [1]
Discharge Estimation Permit	$1,100.00 ← does not apply to HSWE
Discharge Minimization Permit	$2,490.00
Monitoring And Testing Fees	
Labor and Equipment	$ 340.00 / inspection
Laboratory Test Charge	[2]
Violation Follow-Up Fees	
Stage One	$ 390.00 + [2]
Stage Two	$ 775.00 + [2]
Stage Three	$1,235.00 + [2]
Trucked Septage Fees	
Permit	$1,085.00
Treatment and Testing	$ 0.12/gallon plus $18.00 per truck load

[1] A $3.25/month Waste Minimization Fee applies to non-residential accounts (excludes BCC 8800, 6513, and 6514).
[2] Charge based on actual laboratory tests performed

Make check payable to "EBMUD."

EBMUD

PERMIT NUMBER _____

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
APPLICANT INFORMATION

APPLICANT BUSINESS NAME

Hardage Construction Corporation

PERSON TO BE CONTACTED IN EVENT OF EMERGENCY

Name: Chuck Hibert

Day Phone: 510 653-0909 Night Phone: 209 966-8066 or 619 843-2526

Fax Number: 510 653-0942

ADDRESS OF PREMISES DISCHARGING WASTEWATER

Street Address: 5800 Shellmound St

City: Emeryville, CA Zip Code: 94608

PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Name: Paul H. Irving

Title: Hydrogeologist

Day Phone: 510 658-4363 Fax Number: 510 658-9074

FACILITY MAILING ADDRESS

Woodfin Construction Corp
5800 Shellmound St.

Street Address

City: Emeryville Zip Code: 94608

Electronic Mail Address (E-Mail)

CHIEF EXECUTIVE OFFICER/DULY AUTHORIZED REPRESENTATIVE

Name (printed) Title

Street Address City Zip Code

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature (see certification requirements on reverse)

Date

Revised 8/26/97

INSTRUCTIONS FOR PROVIDING APPLICANT INFORMATION

CLEARLY TYPE OR PRINT THE INFORMATION REQUESTED AND RETURN THE SIGNED ORIGINAL TO EAST BAY MUNICIPAL UTILITY DISTRICT, WASTEWATER DEPARTMENT, MS 702, P.O. BOX 24055, OAKLAND, CALIFORNIA, 94623-1055

- **Applicant Business Name** - Enter the name or title of your business.
- **Person to be contacted in event of emergency** - Give the name and phone number(s) of the responsible person who can be contacted in case of emergency (e.g., spilling of a prohibited substance).
- **Address of Premises Discharging Wastewater** - Enter the full street address of the building or premises which is discharging the wastewater pertinent to this application.
- **Person to be contacted about this Application** - Provide the name, title and phone number of the person who is thoroughly familiar with the facts reported in this application and who can be contacted by the staff of EBMUD.
- **Facility Mailing Address** - Enter the business street address and the full mailing address.
- **Chief Executive Officer/Duly Authorized Representative** - Enter the full name and title of the Principal Executive or the Duly Authorized Representative of the business. Definition of a Duly Authorized Representative is in Section (c) of "Certification" below.
- **Certification** - Type or print the name and title of the person signing the application. All applications, reports, or information required by the District must contain the following certification statement and be signed as required in sections (a), (b), or (c) below. (Use whichever alternative best applies).

  a. By a responsible corporate officer, if the Permit Holder submitting the reports is a corporation. For the purpose of this paragraph, a responsible corporate officer means:

     i a president, secretary, treasurer, or vice-president of the corporation in charge of a principle business function, or any other person who performs similar policy - or decision-making functions for the corporation, or

     ii the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

  b. By a general partner or proprietor if the Permit Holder submitting the reports is a partnership or sole proprietorship respectively.

  c. By a duly authorized representative of the individual designated in paragraph (a) or (b) of this section if:

     i. the authorization is made in writing by the individual described in paragraph (a) or (b);

     ii. the authorization specifies either an individual or position having responsibility for the overall operation of the facility from which the wastewater discharge originates, such as the position of plant manager, a field superintendent, or a position of equivalent responsibility, or having overall responsibility for environmental matters for the company; and

     iii. the written authorization is submitted to the District.

  d. If an authorization under paragraph (c) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for the environmental matters for the company, a new authorization satisfying the requirements of paragraph (c) of this section must be submitted to the District prior to or together with any reports to be signed by an authorized representative.