



November 21, 1997
 Report 0164.R1
 HSHI3628

Ms. Judy Fabion
 Hardage Suite Hotels, Inc.
 9255 Towne Centre Drive, Suite 900
 San Diego, California 92121

RE: GROUNDWATER MONITORING AND SAMPLING REPORT
 Hardage Suite Hotels, Inc. Site
 Intersection of Powell Street and Shellmound Street
 Emeryville, CA

Dear Ms. Fabion:

This report documents the results of the monitoring and sampling of two groundwater monitoring wells at the subject site. This work was performed in accordance with RGA Environmental, Inc's (RGA) proposals dated November 5 and 7, 1997. The wells were monitored and sampled on November 5, 1997 and November 9, 1997. A Site Location Map (Figure 1) and Site Plan (Figure 2) are attached with this report.

BACKGROUND

The site is currently used as a paved parking lot. Review of a 1995 Phase I Environmental Site Assessment (ESA) prepared by EMG indicates that the site was used for industrial activities between 1884 and 1973. In addition, the surrounding properties have historically been used for industrial and commercial activities, and several leaking underground storage tanks have been identified in the vicinity of the site.

Two groundwater monitoring wells were reported to be present at the site in the 1995 Phase I ESA and by Hardage Suite Hotels, Inc. The origin of the wells is presently unknown to RGA. During a site visit after the November 9, 1997 sampling episode, a third groundwater monitoring well was identified at the site. The third monitoring well is located where pallets of pipe had been stored during the November 5 and 9, 1997 sampling episodes.

ENVIRONMENTAL
 CONSULTANTS
 GEOLOGISTS
 ENGINEERS
 INDUSTRIAL
 HYGIENISTS

1260 45TH STREET
 EMERYVILLE, CA
 94608-2907
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LOS ANGELES
 213.930.1197

FIELD ACTIVITIES

On November 5, 1997 the two groundwater monitoring wells at the site (designated as MW1 and MW2 on the attached Site Plan, Figure 2) were monitored and sampled by RGA personnel. At the time that the wells were monitored on November 5, 1997, the well caps for wells MW1 and MW2 were observed to have been labeled previously by others as ATD7 and ATD5, respectively. The wells were monitored for depth to water and the presence of free product or sheen. Depth to water was measured to the nearest 0.01 foot using an electric water level indicator relative to the top of the PVC well casing.

The measured depth to water in wells MW1 and MW2 was 5.20 and 3.92 feet, respectively. The presence of free product and sheen was evaluated using a transparent bailer. No free product or sheen were observed in either of the monitoring wells. No petroleum hydrocarbon odors were detected in either of the wells.

On November 9, 1997 the two groundwater monitoring wells at the site were re-monitored and re-sampled by RGA personnel. The wells were monitored for depth to water and the presence of free product or sheen using methods described above. The measured depth to water in wells MW1 and MW2 was 5.23 and 3.85 feet, respectively. No free product or sheen were observed in either of the monitoring wells. No petroleum hydrocarbon odors were detected in either of the wells.

Prior to sampling, the monitoring wells were purged of a minimum of three casing volumes of water. During purging operations, the field parameters of electrical conductivity, temperature and pH were monitored. Once the field parameters were observed to stabilize, and a minimum of three casing volumes had been purged or the wells had been purged dry and partially recovered, water samples were collected using a clean Teflon bailer. Records of the field parameters measured during well purging are attached with this report.

The water samples were transferred to 40-milliliter glass Volatile Organic Analysis (VOA) vials and 1-liter amber glass bottles which were sealed with Teflon-lined screw caps, and to plastic polypropylene bottles which were sealed with plastic screw caps. The VOA vials were overturned and tapped to assure that no air bubbles were present.

The VOA vials and bottles were then transferred to a cooler with ice, until they were transported directly to McCampbell Analytical, Inc. in Pacheco, California. McCampbell Analytical, Inc. is a State-certified hazardous waste testing laboratory. Chain of custody documentation accompanied the samples to the laboratory.

HYDROGEOLOGY

The measured depth to water in wells MW1 and MW2 on November 5, 1997 was 5.20 and 3.92 feet, respectively. The measured depth to water in wells MW1 and MW2 on November 9, 1997 was 5.23 and 3.85 feet, respectively. Although the groundwater flow direction cannot be determined with the two wells at the site (monitoring of a third well is required for flow direction determination), Ms. Susan Hugo of the Alameda County Department of Environmental Health reported that the groundwater flow direction at the site is towards the west.

LABORATORY RESULTS

The groundwater samples collected on November 5, 1997 from monitoring wells MW1 and MW2 were analyzed for TPH-G using EPA Method 5030 and Modified EPA Method 8015; benzene, toluene, ethylbenzene, total xylenes (BTEX), and MTBE using EPA Method 8020; TPH-D using EPA Method 3510 in conjunction with Modified EPA Method 8015; and for the metals arsenic, barium, cadmium, chromium, mercury, lead, selenium, and silver using EPA-approved methods.

The groundwater samples collected on November 9, 1997 from monitoring wells MW1 and MW2 were analyzed for TPH-D using EPA Method 3510 in conjunction with Modified EPA Method 8015; and for chromium using EPA-approved methods.

The laboratory analytical results for the groundwater samples collected on November 5, 1997 show that TPH-G, BTEX and MTBE were not detected. TPH-D was detected in wells MW1 and MW2 at concentrations of 210 and 230 micrograms per liter (ug/L), respectively. Review of the laboratory analytical reports indicates that the TPH-D results are described by the laboratory as aged diesel. All of the metals were either not detected or were 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. The chromium MCL is 0.010 ug/L. The laboratory analytical results of the groundwater samples collected on November 5, 1997 are summarized in Table 2. Copies of the laboratory analytical reports and chain of custody documentation are attached with this report.

The laboratory analytical results for the groundwater samples collected on November 9, 1997 show that TPH-D was detected in wells MW1 and MW2 at concentrations of 240 and 220 micrograms per liter (ug/L). Review of the laboratory analytical reports indicates that the TPH-D results are described by the laboratory as aged diesel. Chromium was not detected in well MW2. The laboratory analytical results of the groundwater samples

collected on November 9, 1997 are summarized in Table 2. Copies of the laboratory analytical reports and chain of custody documentation are attached with this report.

DISCUSSION AND RECOMMENDATIONS

Based on the laboratory analytical results of the water samples collected from the monitoring wells, RGA recommends that the following activities be performed.

- o File an Unauthorized Release Form with the Alameda County Department of Environmental Health (ACDEH).
- o Provide a copy of this report to Ms. Susan Hugo at the ACDEH, and to Mr. Kevin Graves at the Regional Water Quality Control Board, San Francisco Bay Region. Copies of the report should be accompanied by a transmittal letter signed by a representative of Hardage Suite Hotels, Inc.
- o Perform a file search at the ACDEH to identify the origin of the groundwater monitoring wells at the site.
- o Perform a file search at the ACDEH to identify the source of groundwater contaminants at the site.
- o Perform a file search at the ACDEH to determine if the designations written on the wells (ATD5 and ATD7) indicate that these wells are part of a larger groundwater monitoring network.
- o Contact Ms. Susan Hugo at the ACDEH to discuss the need for any additional investigation or groundwater monitoring and sampling.

LIMITATIONS

This report was prepared solely for the use of Hardage Suite Hotels, Inc. The content and conclusions provided by RGA in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with the site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or other

conditions are revealed which vary from these findings, the newly-revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. RGA is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

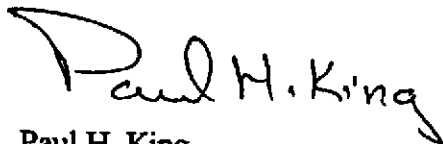
Should you have any questions, please do not hesitate to contact us at (510) 547-7771.

Very Truly Yours,

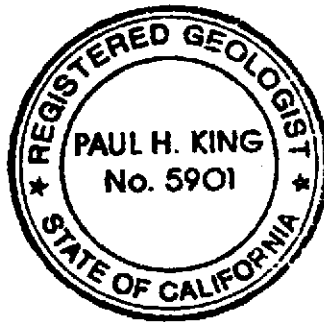
RGA Environmental, Inc.



Karin Schroeter
Project Manager



Paul H. King
California Registered Geologist
Registration No.: #5901
Expiration Date: 12/31/99



PHK/bj
0164.R1
HSHI3628

Attachments: Tables 1 & 2
Site Location Map (Figure 1)
Site Plan (Figure 2)
Field Parameter Forms
Laboratory Analytical Results
Chain of Custody Documentation

**TABLE 1
WELL MONITORING DATA**

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW1	11/09/97	Unknown	5.23	Unknown
	11/05/97		5.20	Unknown
MW2	11/09/97	Unknown	3.85	Unknown
	11/05/97		3.92	Unknown

Notes:

Elev. = Elevation
ft. = feet

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 silver 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.

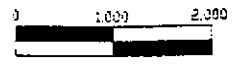


FIGURE 1
 SITE LOCATION MAP
 Hardage Suite Hotels, Inc.
 Intersection of Shellmound and Powell Street (Northeast corner)
 Emeryville, California

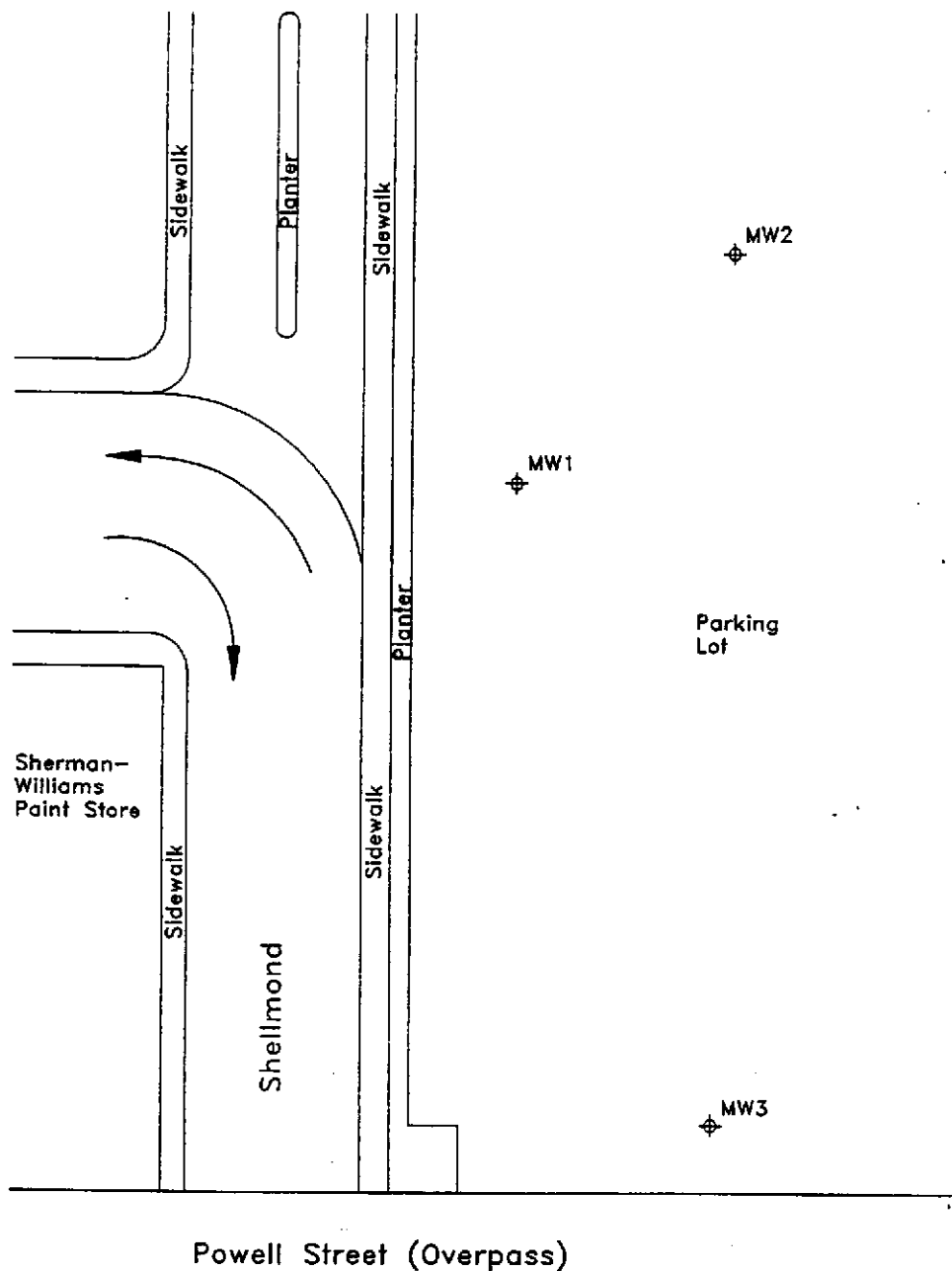


Source:
 U.S. Geological Survey
 Oakland West, California
 7.5 Minute Quadrangle
 Photorevised, 1980

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



SCALE IN FEET



LEGEND

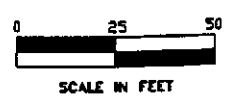
⊕ Monitoring Well Locations

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



Base Map From:
 RGA Environmental Inc.
 November, 1997
 (BJ1054)

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



RGA
 ENVIRONMENTAL
 GROUNDWATER MONITORING/WELL PURGING
 DATA SHEET

Site Name Hardage Suites Hotels, Inc
 Job No. HSHE 3628
 TOC to Water (ft.) 5.20
 Well Depth (ft.) 9.2
 Well Diameter 4"
 Gal./Casing Vol. ~~3.5~~ 2.6

Well No. MW1
 Date 11/5/97
 Sheen None
 Free Product Thickness 0
 Sample Collection Method Teflon Barler

TIME	GAL. PURGED	pH	TEMPERATURE (°F)	ELECTRICAL CONDUCTIVITY (µS/cm)
10:55	0.1	5.82	71.8	4.35 x 1000
10:57	1	5.60	73.9	4.77
10:58	2	5.55	76.3	4.47
10:59	3	5.57	78.4	3.91
11:00	4	5.53	79.1	3.10
11:01	5	5.35	78.7	5.04
11:02	Well dewatered. Shut off pump			
11:20	6	5.44	78.8	4.86
11:21	7	5.40	78.7	3.77 4.95
11:21	well dewatered.			
11:39	8	5.44	78.5	4.75
11:40	9	5.47	78.8	4.70
11:41	10	5.48	78.8	4.80
11:45	collect samples.			

NOTES:

Purged with Honda Pump 2 Foot valve.

2 bolts in box. Plug is ~~little~~
 Expansion not tight on well fit

PURGE10.92

Organic debris (egg grass or roots) in water

RGA
~~ENVIRONMENTAL~~
 GROUNDWATER MONITORING/WELL PURGING
 DATA SHEET

Site Name Hardage Suite Hotels, Inc.

Well No. MWZ

Job No. HSNI 2628

Date 11/5/97 11/5/97

TOC to Water (ft.) 3.92

Sheen None

Well Depth (ft.) 9.1

Free Product Thickness Ø

Well Diameter 4 in

Sample Collection Method Teflon Bailor

Gal./Casing Vol. 2.6

<u>TIME</u>	<u>GAL. PURGED</u>	<u>pH</u>	<u>TEMPERATURE</u> (°F)	<u>ELECTRICAL CONDUCTIVITY</u> (µS/cm)
<u>12:31</u>	<u>0.1</u>	<u>5.61</u>	<u>77.7</u>	<u>4.75 x 1000</u>
<u>12:32</u>	<u>1</u>	<u>5.60</u>	<u>78.6</u>	<u>4.82</u>
<u>12:33</u>	<u>2</u>	<u>5.71</u>	<u>79.2</u>	<u>3.38</u>
<u>12:34</u>	<u>3</u>	<u>5.78</u>	<u>79.6</u>	<u>2.45</u>
<u>12:35</u>	<u>4</u>	<u>5.75</u>	<u>79.9</u>	<u>2.08</u>
<u>12:36</u>	<u>5</u>	<u>5.72</u>	<u>80.4</u>	<u>2.01</u>
<u>12:37</u>	<u>6</u>	<u>5.68</u>	<u>80.7</u>	<u>1.92</u>
<u>12:38</u>	<u>7</u>	<u>5.66</u>	<u>80.8</u>	<u>1.91</u>
<u>12:39</u>	<u>8</u>	<u>5.62</u>	<u>80.7</u>	<u>1.92</u>
<u>12:40</u>	<u>9</u>	<u>5.60</u>	<u>80.9</u>	<u>1.90</u>
<u>12:41</u>	<u>10</u>	<u>5.58</u>	<u>80.8</u>	<u>1.88</u>
<u>12:45</u>	<u>Collect samples</u>			

NOTES:

PURGE 10.92 No bolts in well head cover. Expansion plug is not tightly in place

R67A
 ENVIRONMENTAL
 GROUNDWATER MONITORING/WELL PURGING
 DATA SHEET

Site Name Hardage Suite Hotels, Inc Well No. MW1
 Job No. W5H2 3628 Date 11/9/97
 TOC to Water (ft.) 5.23 Sheen None
 Well Depth (ft.) 9.2 Free Product Thickness 0
 Well Diameter 4" Sample Collection Method Nylon Bailor
 Gal./Casing Vol. 2.6

TIME ^{PM}	GAL. PURGED	pH	TEMPERATURE (°F)	ELECTRICAL CONDUCTIVITY (µS/cm)
6:23	0.1	5.56	69.2	2.97 x 1000
6:24	1	5.45	72.1	4.05
6:25	2	5.47	73.7	3.55
6:26	3	5.50	73.8	2.97
6:27	4	7.47 5.49	74.8	2.63
6:28	5	5.47	75.2	2.59
6:29	6	5.42	74.1	2.64
6:30	7	5.36	75.3	3.00
6:31	8	5.34	75.4	3.45
6:31	8	Well dewatered		
6:54	9	5.50	69.0	3.78
6:55	10	5.55	73.2	3.36
6:56	11	5.58	74.1	2.98
6:57	12	5.59	74.8	2.86
6:58	13	5.57	74.8	2.98
6:58	13	Well dewatered		
7:10	Collect sample			

NOTES:

PURGE10.92 AFD7 written on PVC cap

126A
~~ENVIRONMENTAL~~ ENVIRONMENTAL
 GROUNDWATER MONITORING/WELL PURGING
 DATA SHEET

Site Name Hardage Suite
 Job No. HSMI 3628
 TOC to Water (ft.) 3.85 4:55
 Well Depth (ft.) 9.1
 Well Diameter 4 inch
 Gal./Casing Vol. 3.4

Well No. MW#2
 Date 11/9/97
 Sheen None
 Free Product Thickness φ
 Sample Collection Method Teflon Bailor

TIME	PM	GAL. PURGED	pH	TEMPERATURE (°F)	ELECTRICAL CONDUCTIVITY (µS/cm)
5:07		0.1	6.09	67.6	3.01 x 1000
5:08		1	5.94	72.6	2.98
5:09		2	5.99	75.9	2.06
5:10		3	5.97	77.1	1.79
5:11		4	5.91	78.5	1.70
5:12		5	5.84	79.0	1.68
5:13		6	5.78	79.3	1.66
5:14		7	5.75	79.7	1.64
5:15		8	5.72	79.9	1.62
5:16		9	5.65	80.4	1.78
5:17		10	5.70	80.2	1.62
5:17		10	well dewatered		
5:28		11	5.62	74.5	2.28
5:29		12	5.72	76.0	1.71
5:30		13	5.70	75.8	1.57
5:31		14	5.67	75.3	1.65
5:32		15	5.66	75.2	1.65
5:35		collect samples.			

NOTES:

PHK. No PHC odor. Leaves in well

PURGE10.92

ATDS is written on the top of the PVC cap.



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



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		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.



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	Client P.O:	Date Extracted: 11/05/97
		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 ^o	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

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

^a 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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 11/05/97

Matrix: WATER

Analyte	Concentration (mg/L)			Amount Spiked	% Recovery		RPD
	Sample # (82584)	MS	MSD		MS	MSD	
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

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

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

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



ENVIRONMENTAL INC.

1260 45TH STREET

FAX: (510) 547-1983

TEL: (510) 547-7771

EMERYVILLE, CA 94608

9805 X RGA 50

CHAIN OF CUSTODY

Project Number: <i>W5H1 3628</i>	Project Name: <i>Hardage Suite Hotels - Emeryville</i>
Sampled By: (Printed and Signature): <i>Paul H. King Paul H. King</i>	

No. of Containers: _____
 Analysis(es):
 TPH - Gas/BTEX/MDE ✓
 TPH - Diesel ✓
 RCRA Metals ✓
 Preservatives: _____

Sample Number	Date	Time	Type	Sample Location	No. of Containers	Analysis(es)	TPH - Gas/BTEX/MDE	TPH - Diesel	RCRA Metals	Preservatives	Remarks
X MW1	11/5/97		Water	Well MW1	5	X	X	X			24 Hr Turn Around
X MW2	11/5/97		Water	Well MW2	5	X	X	X			24 Hr Turn Around
											82617
											82618
Relinquished By: (Signature): <i>Paul H. King</i>	Date: 11/5/97	Time: 3:00pm	Received Relinquished By: (Signature): <i>Milenia MAI</i>	Total No. of Samples: 2	Total No. of Containers: 10	Laboratory: McC Campbell					
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 Attached () Yes (X) No							

VOAS O&G METALS OTHER
 PRESERVATION APPROPRIATE CONTAINERS
 REA ✓
 GOOD CONDITION ✓
 HEAD SPACE ABSENT ✓

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



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

Chromium*

EPA analytical methods 6010/200.7, 239.2*

Lab ID	Client ID	Matrix	Extraction ^o	Chromium	% Recovery Surrogate
82834	MW2	W	Dissolved	ND	NA
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLIC		0.5 mg/kg	
	W	TTLIC		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,TTLIC), 3040(organic matrices,TTLIC), 3050(solids,TTLIC); 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.

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

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

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



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CHAIN OF CUSTODY

XRGAS1

9844

Project Number: WSEI 3628 Project Name: Marlodge Suite Hotels, Inc. - Emeryville

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

No. of Containers:	Analysis(es):	TPH-Diesel	Chromium	Preservatives
2	X	X		X
2	X	X		X

Sample Number	Date	Time	Type	Sample Location
(H) MW1	11/9/97		Water	well MW1
+ MW2	"		"	well MW2

Remarks

Normal Turn Around

" " "

82833

82834

ICE PRESERVATION

GOOD CONDITION APPROPRIATE

HEAD SPACE ABSENT CONTAINERS

NOAS LONG METALS OTHER

Relinquished By: (Signature): Date: 11/10/97 Time: 10:00 AM

Relinquished By: (Signature): Date: 11/10/97 Time: 10:00 AM

Relinquished By: (Signature): Date: 11/10/97 Time: 10:00 AM

Received For Laboratory By: (Signature): Michelle Tricca

Total No. of Samples: 2 Total No. of Containers: 4 Laboratory: McCampbell

Laboratory Contact: Ted Hamilton Laboratory Phone Number: (510) 798-1620

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.