RGA
ENVIRONMENTAL INC

Asbestos Survey Report
Oliver Rubber Company
1200 65th Street
Emeryville, California

Prepared for:

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Prepared by:
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July 2, 1998

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APPENDICES

1. EXECUTIVE SUMMARY

The following report describes the asbestos survey conducted at the Oliver Rubber Company located at 1200 65th Street in Emeryville, California. Kenneth Pilgrim, a Certified Asbestos Consultant, conducted the survey. RGA Environmental Inc. (RGA) was retained by the Oliver Rubber Company to conduct the survey. The survey scope of work includes the following:

- Collect bulk samples of suspect building materials. Conduct a comprehensive survey in the occupied buildings. Samples to be analyzed by polarized light microscopy (PLM) in accordance with the EPA Interim Method for the Determination of Asbestos in Bulk Insulation (1982).

- Submit a final written Survey Report to Client including a project summary, sampling notes, analytical results, and recommendations.

ACM Results

Asbestos-containing materials were detected throughout the building and on the roof of the subject property. One hundred and one (101) bulk samples were collected from thirty-one (31) homogenous materials identified in the structure. Seventy-two of the bulk samples were analyzed by a certified laboratory. Fourteen (14) of the thirty-one (31) homogenous materials were determined to contain asbestos. Refer to Table A in Section 4 for details.

2. BUILDING DESCRIPTION

The subject property is a decommissioned tire manufacturing facility. Offices are located at the southern end of the building opening to 65th Street. A second level or mezzanine level wraps around to the east wall of the facility. The remainder of the building is open with the exception of a few dividing walls. Building materials include gypsum walls and ceilings, ceiling tile, carpet, resilient floor coverings and a stucco exterior. The roof has been replaced in multiple sections. The majority of the roof is rolled composite asphalt.

3. VISUAL INSPECTION, SAMPLING PROCEDURES, AND LABORATORY PROCEDURES

3.1 Visual Inspection - Asbestos

Suspect asbestos-containing materials (ACMs) were visually examined by a Certified Asbestos Consultant (CAC). The CAC certification was issued by the State of California, Division of Occupational Safety and Health as authorized by

Sections 7180 et seq. of the Business and Professional Code (inspector certifications are in Appendix 4). The certified inspector follows the inspection methods presented in Federal Asbestos Hazard Emergency Response Act (AHERA). AHERA was originally only applicable to public and private non-profit schools from kindergarten to twelfth grade; however the Occupational Safety and Health Administration (OSHA) has adopted the AHERA sampling methodology for all buildings subject to demolition or renovation.

Homogeneous Material Classifications

The purpose of the visual inspection is to determine materials that are visually similar in color, texture, and general appearance and that appeared to have been installed at the same time. Such materials are termed "homogeneous materials". Following the AHERA inspection protocol, each identified suspect homogeneous material will be categorized as one of the following EPA classifications:

- **Surfacing Materials**: Spray or trowel-applied to building surfaces or structural components. Example: plaster.
- **Thermal System Insulation**: Materials generally applied to various mechanical systems. Example: pipe insulation.
- **Miscellaneous Materials**: Any materials which do not fit either of the above categories. Example: floor tile.

3.2 Sampling Procedures - Asbestos

Bulk samples were obtained with the aid of a coring device or other hand tool and placed into individual sampling containers. Sampling tools were wiped with a damp cloth following the collection of each sample in order to prevent cross-contamination. Each sample was assigned to a homogenous material, given a unique sample number, and recorded on field notes as well as on bulk chain-of-custody forms as shown in Appendix 2. The samples were transported under chain-of-custody procedures to a certified laboratory.

Suspect ACM including surfacing, thermal system insulation, and miscellaneous materials were inspected during the survey. Multiple samples were collected from each homogeneous material. *Note, under EPA assessment criteria, if a **single** sample of a homogeneous material tests positive for asbestos, that homogeneous material is considered to be asbestos-containing at all locations where it is present.*

3.3 Laboratory Procedures - Asbestos

All asbestos bulk samples were sent to RJ Lee Group (RJ Lee) located in San Leandro, California. RJ Lee is currently accredited under the National Institute of Standards and Technology (NIST) and National Voluntary Laboratories Accreditation Programs (NVLAP). Copies of certifications are included in Appendix 3.

All bulk samples were analyzed by Polarized Light Microscopy (PLM) with dispersion staining as described by the method of the determination of asbestos in bulk insulation, EPA/600/R-93/116, July 1993.

Analysis was performed by using the bulk sample for visual observation and slide preparations for microscopic examination and identification. The sample was mounted on a slide and then analyzed for asbestos (chrysotile, amosite, crocidolite, anthophylite, and actinolite/tremolite), fibrous non-asbestos constituents (mineral wool, paper, etc.) and non-fibrous constituents. Asbestos was identified by refractive indices, morphology, color, pleochroism, birefringence, extinction characteristics, and signs of elongation. The characteristic color change enables mineral identification. The same characteristics are used to identify the non-asbestos constituents.

The microscopist uses a stereoscope to visually estimate relative amounts of each constituent, by determining the volume of each constituent in proportion to the total volume of the sample.

4. ASBESTOS RESULTS

RGA collected one hundred and one (101) bulk samples from the subject property. Fourteen (14) of the thirty-one (31) homogenous materials were determined to contain asbestos. Please refer to Appendix 1, Bulk Sample Result Summary for details. Laboratory sample reports are in Appendix 2. Table A below summarizes the results of the materials sampled.

Table A – Asbestos Bulk Sample Summary

HM No.	Homogenous Material	Material Location	Asbestos Result
001	1' x 2' Smooth ceiling tile and mastic	1st floor offices	ND
002	4" Brown base cove and mastic	1st and 2nd floor offices	ND
003	1' x 1' Even-holed ceiling tile – No mastic	1st and 2nd floor offices	ND
004	Gypsum drywall and Joint Compound	Throughout	Composite: <1% CH, DW: ND, JC: 1%CH

HM No.	Homogenous Material	Material Location	Asbestos Result
005	Interior window glazing	1st and 2nd floor offices	ND
006	12" x 12" Beige floor tile w/ brown streaks and mastic – 2nd layer under carpet	1st floor offices	Tile: ND, Mastic: 6% CH
007	Green resilient flooring and mastic – 3rd layer under HM006	1st floor offices	Tile: ND, Mastic: 2% CH
008	4" Black base cove and mastic	1st and 2nd floor offices	ND
009	Mastic associated with 12" x 12" black rubberized floor tile	1st floor offices and corridor	ND
010	Floor tile and mastic under beige 12" x 12" floor tile w/ white, brown and black streaks	2nd floor offices	Tile: 3% CH, Mastic: <1% CH
011	12" x 12" Gray marble pattern floor tile and mastic	2nd floor – Women's' restroom	ND
012	4" Gray base cove and mastic	2nd floor – Women's' restroom	ND
013	9" x 9" Floor tile with light streaks and mastic	Greg's office	Tile: 2% CH, Mastic: <1% CH
014	12" x 12" brown floor tile with pink and dark brown streaks	Telephone room - Mezzanine	Tile: 1% CH, Mastic: ND
015	Black sheet vinyl and mastic	East mezzanine area	ND
016	Skip-trowel drywall texture	East mezzanine area	ND
017	Smooth-finish plaster	East mezzanine area – shower	ND
018	Mastic associated with 12" x 12" blue rubberized floor tile	Area east of research and development	ND
019	Black floor tile and mastic – 2nd layer under HM018	Pat's office	Tile: 1% CH, Mastic: ND
020	12" x 12" Black tile and mastic	Old maintenance office	ND
021	3" O.D. Pipe insulation	Area north of old maintenance office	35% CH
022	Roofing cements	Penetrations and patches – entire roofing area	15% CH
023	Build-up roofing	Southeast roofing field	Felt: 15% CH
024	Build-up roofing	Northwest roofing field	Felt: 15% CH
025	Parapet wall felt	Northwest roof	20% CH
026	Rolled asphalt roofing	West roof	Felt: 10% CH
027	Build-up roofing	Southwest roofing field	ND
028	Skylight window glazing	West roof	ND
029	Exterior surfacing material	Exterior walls	ND
030	Exterior window glazing	Throughout	1% CH
031	Roofing felt	East roof under new metal roof	ND

ND = None Detected, CH = Chrysotile, DW = Drywall, JC = Joint Compound

5. ASBESTOS REGULATIONS

The purpose of this inspection was to identify asbestos-containing materials. Several regulating agencies govern asbestos related activities including the Environmental Protection Agency (U.S. EPA and Cal-EPA) and the Occupational Safety and Health Administration (Federal OSHA and Cal-OSHA). EPA regulations focus on application and removal of asbestos-containing materials in new or remodeled buildings, and identification of friable asbestos in schools. The EPA also regulates the industrial emission of asbestos fibers and the disposal of asbestos waste. OSHA addresses worker protection in the workplace. A brief summary of these agencies asbestos regulations is listed below.

5.1 Occupational Safety and Health Administration (OSHA)

Regulation of asbestos exposure in the Construction Industry is codified in 29 CFR 1926.1101 "Occupational Exposure to Asbestos". The Construction Industry Standard covers anyone involved in construction, alteration, repair, maintenance, or renovation of structures that contain asbestos. The regulations for the General Industry and Maritime are codified in 29 CFR 1910.1001 and 29 CFR 1915.1001 respectively. The General Industry Standard applies to asbestos exposures to non-construction employees while the Maritime Standard is specific only to asbestos exposures on vessels.

The OSHA regulations were first issued in 1972 and modified in 1986 and again in 1994. The regulations specified airborne exposure standards for workers, engineering and administrative controls, workplace practices, medical surveillance and worker protection requirements. The OSHA regulations apply to all workplace activities involving asbestos, including removal of ACM from buildings. OSHA defines an asbestos-containing material as any material containing more than one percent (1%) asbestos. This standard in no way requires the removal of asbestos-containing materials.

5.2 U.S. Environmental Protection Agency (EPA)

The first EPA regulations were issued in 1973 under the National Emission Standards for Hazardous Air Pollutants (NESHAPS – 40 CFR Part 61) as authorized by the Clean Air Act. These regulations were directed largely at the asbestos industries, but also partially banned spray-applied ACM in new buildings and established procedures for handling ACM during demolition. The regulations were revised in 1975, 1978, and 1990 to cover building renovations, use of all types of insulating ACM in new buildings, asbestos emissions from ACM waste disposal, and notification requirements. NESHAP divides asbestos-containing materials into three (3) categories: (1) Regulated ACM, (2) Category I non-friable ACM, and (3) Category II non-friable ACM. ACM is defined as any material containing greater than one percent (1%) asbestos. This standard requires removal of all RACMs prior to

demolition. Local air quality control districts have been give authority by the EPA to implement and enforce this rule. Local air quality management districts may have additional or more stringent requirements.

5.3 Division Occupational Safety and Health (DOSH)

DOSH or Cal-OSHA regulates employee exposure to asbestos under Title 8 CCR 1529. This standard includes all provisions under Federal-OSHA CFR1926.1101. Additional requirements are specified in Cal-OSHA's regulation. The following are two major additions:

- Certified personnel is required for handling of "asbestos containing construction materials" less than one percent (1%) but greater than one tenth of a percent (0.1%) when impacting one-hundred square feet (100 sq.ft.) or more.

- Exposure to asbestos is regulated at any detectable concentration.

5.4 California Environmental Protection Agency (Cal-EPA)

The Department of Toxic and Substances Control (DTSC) is a division under Cal-EPA. DTSC regulates disposal of asbestos waste. In California, friable asbestos waste is required to be handled and manifested as a hazardous waste. DTSC issues U.S. EPA hazardous waste generator identification numbers.

6. DISCUSSION & RECOMMENDATIONS

6.1 Asbestos-Containing Materials

Asbestos-containing materials (ACMs) were found throughout the building on the subject property. RGA recommends the following actions prior to the start of any renovation or demolition work:

- Conduct a demolition survey to inspect for hidden asbestos containing materials (example: pipe insulation inside walls or above ceilings).
- Develop an abatement specification. The purpose of an abatement specification is to clearly define the scope of work for more competitive and accurate bidding as well as to reduce the number of costly delays and change order requests during the project.
- Abate asbestos-containing materials that will be impacted by renovation work.
- Hire a certified asbestos abatement contractor to conduct all abatement work.

7. LIMITATIONS

RGA Environmental Inc. (RGA) warrants that the findings contained herein have been prepared in general accordance with accepted professional practices as applied by similar professionals in the community at the time of its preparation. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in this report.

Note that destructive testing was not conducted in the occupied buildings. Consequently, unidentified ACMs may be present such as pipe insulation between walls and other hidden or non-accessible suspect materials. RGA does not warrant the presence of ACMs under the above condition.

The field and laboratory results reported herein are considered sufficient in detail and scope to determine the presence of hazardous materials identified in the scope of work. Test results are valid only for the material tested.

Also, note that this is a survey report and not an abatement specification. This document is not appropriate for competitive bidding or for use as an asbestos abatement specification.

Appendix 1
Bulk Sample Result Summary

Table I

Bulk Sample Results Summary All Materials Sampled

OliverRubbe

Job ORC4010

30-Jun-98

HMN	Material Description	Friability	Condition	Asbestos Type / Percent
001	**1' x 2' Smooth Ceiling Tile and Mastic**			
67653	1st floor - Office - space 7719			ND
67654	1st floor - Office - space 7719			ND
67803	1st floor - Office - space 7719			ND
002	**4" Brown base cove and mastic**	NA		
67628	2nd floor - lounge			ND
67839	1st floor - Office - Jan's office			ND
67846	1st floor - office - space 7719			ND
003	**1' x 1' Even-holed ceiling tile - no mastic**	NA		
67644	2nd floor - Corridor			ND
67808	2nd floor - Conference room			ND
67840	1st floor - Jan's office			ND
004	**Gypsum drywall with Joint Compound**	Friable	Good Condition	
67630	Production Area - Mezzanine - Locker room			Not analyzed
67638	2nd floor - Mens' restroom			Drywall: ND; Compound: 1% Chrysotile
67805	2nd floor - conference room			Not analyzed
67836	2nd floor - storage room closet			Not analyzed
67837	Interior lobby			Not analyzed
72274	Production Area - Mezzanine - Break room			Not analyzed
72287	R&D area - east wall			Not analyzed

All analyses completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982). PLM may detect asbestos in "Trace" concentrations (<1%). Thus negative (ND) resul cannot be guaranteed. The absence of asbestos in vinyl floor tiles, wipes or other similar samples cannot be conclusively established by this method, and should be confirmed by an independent analytical method such as Transmission Electron Microscopy (TEM). Detection Limit: <1% ("Trace"). Quantification range 1-100%. ND = None Detected. NA = Not Applicable.

HMN = Homogenous material number, CH=Chrysotile, Am=Amosite, TR=Tremolite, CR=Crocidolite, AN=Anthophyllite, AC=Actinolite

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HMN	Material Description	Friability	Condition	Asbestos Type / Percent
005	**Interior Window Galzing**	NA		
	67649 Mezzanine - beak room hallway - east window bank			ND
	67867 1st floor - Jan's office			ND
	67881 R&D area - west wall			ND
006	**12x12" beige floor tile w/brown streaks and mastic 2nd lyr under carpt**	Non-Friable	Good Condition	
	67633 1st floor - Maintenance Manager's office			Not analyzed
	67645 1st floor - office - space 7719			Not analyzed
	67835 1st floor - Jan's office			Tile: ND; Mastic: 6% Chrysotile
007	**Green resilient flooring and mastic under 006 3rd layer**	Non-Friable	Good Condition	
	67626 1st floor Jan's office			Not analyzed
	67779 1st floor Dave's office			Mastic: 2% Chrysotile; Other layer: ND
	72288 1st floor maintenance manager's office			ND
008	**4" black basecove and mastic**	NA		
	67657 1st floor interior lobby			ND
	67843 Maintenance manager's office			ND
	67877 1st floor Mary's office			ND
009	**Mastic associated w/ 12" x 12" black rubberized floor tile**	NA		
	67642 1st floor Mary's office			ND
	67767 1st floor corridor			ND
	67834 1st floor maintenance manager's office			ND
010	**Vinyl floor tile and mastic under 12x12" beige w/wht, brwn,blk streaks**	Non-Friable	Good Condition	

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HMN	Material Description	Friability	Condition	Asbestos Type / Percent
67635	2nd floor open area near center			Not analyzed
67636	2nd floor office across from stairwell			Not analyzed
67646	2nd floor office northeast corner			Tile: 3% Chryso; Mastic: <1% Chryso; Other lyr: ND
011	**12" x 12" gray marble pattern floor tile and mastic**	NA		
67632	2nd floor women's restroom			ND
67641	2nd floor women's restroom			ND
67651	2nd floor women's restroom			ND
012	**4" gray basecove and mastic**	NA		
67634	2nd floor women's restroom			ND
67648	2nd floor women's restroom			ND
67659	2nd floor women's restroom			ND
013	**9" x 9" floor tile w/ light streaks and mastic**	Non-Friable	Good Condition	
67655	Mezzanine Greg's office next to telephone room			Tile: 2% Chr; Mastic: <1% Chr; Other layer: ND
67790	Mezzanine Greg's office next to telephone room			Not analyzed
67866	Mezzanine Greg's office next to telephone room			Not analyzed
014	**12" x 12" brown floor tile w/pink and dark brwn streaks**	Non-Friable	Good Condition	
67627	Telephone room / mezzanine			1% Chrysotile
67845	Telephone room / mezzanine			Not analyzed
67847	Telephone room / mezzanine			Tile: 1% CH, Mastic: ND
015	**Black sheet vinyl and mastic**	NA		
67637	Production area mezzanine restroom			ND
67639	Production area mezzanine break room			ND
67640	Production area corridor to locker room			ND

All analyses completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982). PLM may detect asbestos in "Trace" concentrations (<1%). Thus negative (ND) resul cannot be guaranteed. The absence of asbestos in vinyl floor tiles, wipes or other similar samples cannot be conclusively established by this method, and should be confirmed by an independent analytical method such as Transmission Electron Microscopy (TEM). Detection Limit: <1% ("Trace"). Quantification range 1-100%. ND = None Detected. NA = Not Applicable.

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HMN	Material Description		Friability	Condition	Asbestos Type / Percent
016	**Skip trowel drywall texture - limited application**		NA		
	67643	Production area mezzanine locker room			ND
	67656	Production area mezzanine break room			ND
	72282	Production area mezzanine corridor to locker room			ND
017	**Smooth finish plaster**		NA		
	67770	Production area mezzanine /shower			ND
	67785	Production area mezzanine /shower			ND
	72286	Production area mezzanine /shower			ND
018	**Mastic associated w/12 " x 12" blue rubberized floor tile**		NA		
	72223	East of R&D lab			ND
	72256	East of R&D lab			ND
	72285	East of R&D lab			ND
019	**Black floor tile and mastic 2nd layer under 018**		Non-Friable	Good Condition	
	67629	Lab area, Pat's office			Tile: 1% CH, Mastic: ND
	67787	Lab area, Pat's office			1% Chrysotile
	72251	Lab area, Pat's office			Not analyzed
020	**12" x 12" black floor tile and mastic**		NA		
	67764	Old maintenance office			ND
	67782	Old maintenance office			ND
	72237	Old maintenance office			ND
021	**3" OD pipe insulation**		Friable	Significantly Damaged Condition	
	67647	East area north of old maintenance shop			35% Chrysotile
	67660	East area north of old maintenance shop			Not analyzed

All analyses completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982). PLM may detect asbestos in "Trace" concentrations (<1%). Thus negative (ND) resul cannot be guaranteed. The absence of asbestos in vinyl floor tiles, wipes or other similar samples cannot be conclusively established by this method, and should be confirmed by an independent analytical method such as Transmission Electron Microscopy (TEM). Detection Limit: <1% ("Trace"). Quantification range 1-100%. ND = None Detected. NA = Not Applicable.

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HMN	Material Description		Friability	Condition	Asbestos Type / Percent
	67771	East area north of old maintenance shop			Not analyzed
022	**Roofing cements**		Non-Friable	Good Condition	
	67631	Northwest roof at penetration			Not analyzed
	67718	Northwest roof at parapet			Not analyzed
	67886	East roof at flashing			15% Chrysotile
023	**Southeast roofing fields**		Non-Friable	Good Condition	
	67786	East roof lower level			ND
	67793	West roof lower level			Felt: 15% Chrysotile; Other layer: ND
	67815	Middle roof upper level			ND
024	**Northwest roofing field**		Non-Friable	Good Condition	
	67768	Near center			Felt: 15% Chrysotile; Other layer: ND
	67795	West end			Not analyzed
	67888	East end			Not analyzed
025	**Northwest roof parapet felt**		Non-Friable	Good Condition	
	67625	North parapet			20% Chrysotile
	67783	South parapet			Not analyzed
	67849	West parapet			Not analyzed
026	**West roofing field**		Non-Friable	Good Condition	
	67658	North end			Felt: 10% Chrysotile; Other layer: ND
	67870	Near center			Not analyzed
	67887	West section lower level			Not analyzed
027	**Southwest corner roofing field**		NA		

All analyses completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982). PLM may detect asbestos in "Trace" concentrations (<1%). Thus negative (ND) resul cannot be guaranteed. The absence of asbestos in vinyl floor tiles, wipes or other similar samples cannot be conclusively established by this method, and should be confirmed by an independent analytical method such as Transmission Electron Microscopy (TEM). Detection Limit: <1% ("Trace"). Quantification range 1-100%. ND = None Detected. NA = Not Applicable.

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HMN	Material Description	Friability	Condition	Asbestos Type / Percent
67774	South end			ND
67777	Detached shed			ND
67879	North end			ND
028	**Skylight window glazing**	NA		
67652	West roof near center			ND
67791	West roof north end			ND
67884	West roof southeast corner			ND
029	**Exterior surfacing material**	NA		
67708	Southeast corner			ND
67709	Southeast corner near center roof level			ND
67719	Southeast room north wall (janitor storage)			ND
67773	South face near center roof level			ND
67807	Southwest corner roof level			ND
67819	South face near center roof level			ND
67838	Southeast room north wall (janitor storage)			ND
030	**Exterior window glazing**	Non-Friable	Damaged Condition	
67650	Roof level south end			Not analyzed
67780	Roof level southeast			Not analyzed
67848	Roof level southwest corner			1% Chrysotile
031	**Roofing felt east roof under new metal roof**	NA		
67706	South end			ND
67723	Near center			ND
67766	North end			ND

All analyses completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982). PLM may detect asbestos in "Trace" concentrations (<1%). Thus negative (ND) resul cannot be guaranteed. The absence of asbestos in vinyl floor tiles, wipes or other similar samples cannot be conclusively established by this method, and should be confirmed by an independent analytical method such as Transmission Electron Microscopy (TEM). Detection Limit: <1% ("Trace"). Quantification range 1-100%. ND= None Detected. NA = Not Applicable.

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Appendix 2

Laboratory Sample Reports and Chain-of-Custody Forms

Bulk Chain of Custody Form

RGA Environmental Inc.
4701 Doyle Street, Ste; 14, Emeryville, CA 94608, 510 547-7771

Project #: ORC4010
Building #: OliverRubbe
15-Jun-98
ACC806186

Turn Around Time: 8 hr ☐ Standard ☑
First postive for each homogenous area. Yes ☑ No ☐

Homogenous Areas	Sample Number		Check
001	Material Description	1' x 2' Smooth Ceiling Tile and Mastic	
	67803	1st floor - Office - space 7719	☑
	67654	1st floor - Office - space 7719	☑
	67653	1st floor - Office - space 7719	☑
002	Material Description	4" Brown base cove and mastic	
	67846	1st floor - office - space 7719	☑
	67839	1st floor - Office - Jan's office	☑
	67628	2nd floor - lounge	☑
003	Material Description	1' x 1' Even-holed ceiling tile - no mastic	
	67840	1st floor - Jan's office	☑
	67808	2nd floor - Conference room	☑
	67644	2nd floor - Corridor	☑
004	Material Description	Gypsum drywall with Joint Compound	
	67638	2nd floor - Mens' restroom	☑
	72287	R&D area - east wall	☑
	67630	Production Area - Mezzanine - Locker room	☑
	67805	2nd floor - conference room	☑
	67836	2nd floor - storage room closet	☑
	67837	Interior lobby	☑
	72274	Production Area - Mezzanine - Break room	☑
005	Material Description	Interior Window Galzing	
	67867	1st floor - Jan's office	☑
	67649	Mezzanine - beak room hallway - east window	☑
	67881	R&D area - west wall	☑
006	Material Description		

(102)

Report any missing pages immediately. Include the material description with the sampling results. All analyses to be completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982).

Homogenous Areas	Sample Number		Check
	67835	1st floor - Jan's office	☑
	67633	1st floor - Maintenance Manager's office	☑
	67645	1st floor - office - space 7719	☑
007	Material Description	Green resilient flooring and mastic under 006 3rd layer	
	67779	1st floor Dave's office	☑
	67626	1st floor Jan's office	☑
	72288	1st floor maintenance manager's office	☑
008	Material Description	4" black basecove and mastic	
	67877	1st floor Mary's office	☑
	67657	1st floor interior lobby	☑
	67843	Maintenance manager's office	☑
009	Material Description	Mastic associated w/ 12x12" black rubberized floor tile	
	67834	1st floor maintenance manager's office	☑
	67842 (6)	1st floor Mary's office	☑
	67767	1st floor corridor	☑
010	Material Description	Vinyl floor tile and mastic under 12x12" beige w/wht, brwn,blk streaks	
	67646	2nd floor office northeast corner	☑
	67635	2nd floor open area near center	☑
	67636	2nd floor office across from stairwell	☑
011	Material Description	12x12" gray marble pattern floor tile and mastic	
	67632	2nd floor women's restroom	☑
	67641	2nd floor women's restroom	☑
	67651	2nd floor women's restroom	☑
012	Material Description	4" gray basecove and mastic	
	67634	2nd floor women's restroom	☑
	67648	2nd floor women's restroom	☑
	67659	2nd floor women's restroom	☑
013	Material Description	9x9" floor tile w/ light streaks and mastic	
	67665. (5)	Mezzanine Greg's office next to telephone roo	☑

Report any missing pages immediately. Include the material description with the sampling results. All analyses to be completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982).

Homogenous Areas	Sample Number		Check
	67866	Mezzanine Greg's office next to telephone roo	
	67790	Mezzanine Greg's office next to telephone roo	
014	Material Description	12x12" brown floor tile w/pink and dark brwn streaks	
	67627	Telephone room / mezzanine	
	67847	Telephone room / mezzanine	
	67845	Telephone room / mezzanine	
015	Material Description	Black sheet vinyl and mastic	
	67637	Production area mezzanine restroom	
	67640	Production area corridor to locker room	
	67639	Production area mezzanine break room	
016	Material Description	Skip trowel drywall texture - limited application	
	72282	Production area mezzanine corridor to locker r	
	67643	Production area mezzanine locker room	
	67656	Production area mezzanine break room	
017	Material Description	Smooth finish plaster	
	67770	Production area mezzanine /shower	
	67785	Production area mezzanine /shower	
	72286	Production area mezzanine /shower	
018	Material Description	Mastic associated w/12x12" blue rubberized floor tile	
	72285	East of R&D lab	
	72256	East of R&D lab	
	72223	East of R&D lab	
019	Material Description	Black floor tile and mastic 2nd layer under 018	
	67787	Lab area, Pat's office	
	67629	Lab area, Pat's office	
	72251	Lab area, Pat's office	
020	Material Description	12x12" black floor tile and mastice	
	67764	Old maintenance office	
	72237	Old maintenance office	

Report any missing pages immediately. Include the material description with the sampling results. All analyses to be completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982).

Homogenous Areas	Sample Number		Check
	67782	Old maintenance office	☑
021	Material Description	3" OD pipe insulation	
	67647	East area north of old maintenance shop	☑
	67771	East area north of old maintenance shop	☑
	67660	East area north of old maintenance shop	☑
022	Material Description	Roofing cements	
	67886	East roof at flashing	☑
	67631	Northwest roof at penetration	☑
	67718	Northwest roof at parapet	☑
023	Material Description	Southeast roofing fields	
	67815	Middle roof upper level	☑
	67786	East roof lower level	☑
	67793	West roof lower level	☑
024	Material Description	Northwest roofing field	
	67768	Near center	☑
	67888	East end	☑
	67795	West end	☑
025	Material Description	Northwest roof parapet felt	
	67625	North parapet	☑
	67849	West parapet	☑
	67783	South parapet	☑
026	Material Description	West roofing field	
	67658	North end	☑
	67887	West section lower level	☑
	67870	Near center	☑
027	Material Description	Southwest corner roofing field	
	67879	North end	☑
	67774	South end	☑
	67777	Detached shed	☑

Report any missing pages immediately. Include the material description with the sampling results. All analyses to be completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982).

Homogenous Areas	Sample Number		Check
028	Material Description	Skylight window glazing	
	67791	West roof north end	☑
	67884	West roof southeast corner	☑
	67652	West roof near center	☑
029	Material Description	Exterior surfacing material 65th Street	
	67838	Southeast room north wall (janitor storage)	☑
	67719	Southeast room north wall (janitor storage)	☑
	67708	Southeast corner	☑
	67709	Southeast corner near center roof level	☑
	67819	South face near center roof level	☑
	67807	Southwest corner roof level	☑
	67773	South face near center roof level	☑
030	Material Description	Exterior window glazing	
	67848	Roof level southwest corner	☑
	67650	Roof level south end	☑
	67780	Roof level southeast	☑
031	Material Description	Roofing felt east roof under new metal roof	
	67706	South end	☑
	67766	North end	☑
	67723	Near center	☑

Contact Person for these samples is: Ken Pilgrim

Samples Relinquished by: J Laster Date: 6-15-98

Samples Received by: K. Price Date: 6/15/98 @ 1700

Notes: _____

Report any missing pages immediately. Include the material description with the sampling results. All analyses to be completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982).

RJ Lee *Group*, Inc.

530 McCormick Street• San Leandro, CA 94577
(510) 567-0480 • FAX (510) 567-0488

June 16, 1998

Mr. Ken Pilgrim
RGA Environmental, Inc.
4701 Doyle Street, Suite 14
Emeryville, CA 94608

RE: PLM Standard Asbestos Analysis Results for Samples as Shown on Test Report
RJLeeGroup, Inc. Job No.: AOC806186
Client P.O./Job Number: ORC4010
Client Job Name/Location: OliverRubbe

Dear Mr. Pilgrim:

Enclosed are the results from the polarized light microscopy (PLM) asbestos analysis of the above referenced sample(s). Sample(s) were analyzed in accordance with guidelines set forth in the EPA Method for the Determination of Asbestos in Bulk Building Materials, U.S. EPA/600/R-93/116 (7/93 Edition).

Test Report lists each sample identification number, gross sample description, sample location, type(s) and concentration of asbestos, type(s) and concentration of nonasbestos fibers, major components and concentration of nonfibrous material (NFM), sample run date, analyst, sample homogeneity, and a layer breakdown if applicable. All concentrations are given in area percents (visual estimation).

RJ Lee Group, Inc. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) (NVLAP Participant Number 1208-2) for bulk asbestos fiber analysis (PLM), and by the California Department of Health Services, Environmental Laboratory Accreditation Program (CALELAP) for bulk asbestos analysis. Neither the NVLAP Accreditation of this laboratory nor this report may be used to claim product endorsement by NVLAP or any agency of the United States government.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the sample(s) covered by this report, RJ Lee Group will store the sample(s) for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample(s).

If you have any questions on this report or if RJ Lee Group, Inc. can be of further assistance, please do not hesitate to call.

Sincerely,

Stephen S. Yata
Geologist

SSY/sb
Enclosure

Test Report - RGA Environmental Inc.

Attn: Mr. Ken Pilgrim **Project #: ORC4010; OliverRubbe**

Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672765CPL	67803	-	-	-	-	-	-	95 %	-	-	-	-	5 %	6/16/98
White ceiling tile with brown mastic						**NFM:** Qtz, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672766CPL	67654	-	-	-	-	-	-	95 %	-	-	-	-	5 %	6/16/98
White ceiling tile with brown mastic						**NFM:** Qtz, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672767CPL	67653	-	-	-	-	-	-	95 %	-	-	-	-	5 %	6/16/98
White ceiling tile with brown mastic						**NFM:** Qtz, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672768CPL	67846	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Brown cove base with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672769CPL	67839	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Brown cove base with yellow mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672770CPL	67628	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Brown cove base with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous

Samples received on: Tuesday, June 16, 1998

Authorized Signature

Stephen S. Yata, Geologist

Date Tuesday, June 16, 1998

RJ Lee Group, Inc.
Bay Area Lab
530 McCormick Street
San Leandro, CA 94577
Phone (510) 567-0480
Fax (510) 567-0488

Test Report - RGA Environmental Inc.

Attn: Mr. Ken Pilgrim **Project #: ORC4010; OliverRubbe**

Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Nonasbestos: Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672771CPL	67840	-	-	-	-	-	-	98 %	-	-	-	-	2 %	6/16/98
White ceiling tile						**NFM:** Qtz, Binder, Opaq, Misc. Part.								SSY
													Homogeneous	
1672772CPL	67808	-	-	-	-	-	-	98 %	-	-	-	-	2 %	6/16/98
Grey ceiling tile						**NFM:** Qtz, Binder, Opaq, Misc. Part.								SSY
													Homogeneous	
1672773CPL	67644	-	-	-	-	-	-	98 %	-	-	-	-	2 %	6/16/98
Brown ceiling tile						**NFM:** Qtz, Binder, Opaq, Misc. Part.								SSY
													Homogeneous	
1672774CPL	67638	<1 %	-	-	-	-	-	2 %	-	-	-	-	98 %	6/16/98
White drywall with off white compound						**NFM:** Qtz, Carb, Opaq, Gyp, Mica, Misc. Part.								SSY
Layer Content:	Drywall: None Detected; Compound: 1% Chrysotile												Non Homogeneous	
1672775CPL	72287													
Sample Location	Sample Not Analyzed													
1672776CPL	67630													
Sample Location	Sample Not Analyzed													

Samples received on: Tuesday, June 16, 1998

Authorized Signature _____

Stephen S. Yata, Geologist

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Test Report - RGA Environmental Inc.

Attn: Mr. Ken Pilgrim **Project #: ORC4010; OliverRubbe**

Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1672789CPL	72288													
Sample Location	Sample Not Analyzed													
1672790CPL	67877	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Black cove base with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672791CPL	67657	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Black cove base with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672792CPL	67843	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Black cove base with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672793CPL	67834	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Black floor tile with grey mastic						**NFM:** Qtz, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672794CPL	67642	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Black cove base with brown mastic						**NFM:** Qtz, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous

Samples received on: Tuesday, June 16, 1998

Authorized Signature _____
Stephen S. Yata, Geologist
Date Tuesday, June 16, 1998

RJ Lee Group, Inc.
Bay Area Lab
530 McCormick Street
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Fax (510) 567-0488

Test Report - RGA Environmental Inc.

Attn: Mr. Ken Pilgrim **Project #: ORC4010; OliverRubbe**

Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672777CPL	67805													
Sample Location	Sample Not Analyzed													
1672778CPL	67836													
Sample Location	Sample Not Analyzed													
1672779CPL	67837													
Sample Location	Sample Not Analyzed													
1672780CPL	72274													
Sample Location	Sample Not Analyzed													
1672781CPL	67867	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey window glazing						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Homogeneous
1672782CPL	67649	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey window glazing						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Homogeneous

Samples received on: Tuesday, June 16, 1998

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Stephen S. Yata, Geologist

Date: Tuesday, June 16, 1998

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Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672789CPL	72288													
Sample Location	Sample Not Analyzed													
1672790CPL	67877	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Black cove base with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672791CPL	67657	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Black cove base with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672792CPL	67843	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Black cove base with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672793CPL	67834	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Black floor tile with grey mastic						**NFM:** Qtz, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672794CPL	67642	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Black cove base with brown mastic						**NFM:** Qtz, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous

Samples received on: Tuesday, June 16, 1998

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Stephen S. Yata, Geologist

Date Tuesday, June 16, 1998

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Test Report - RGA Environmental Inc.

Attn: Mr. Ken Pilgrim **Project #: ORC4010; OliverRubbe**

Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672783CPL	67881	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey window glazing						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.							Homogeneous	SSY
1672784CPL	67835	<1 %	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Brown floor tile with black mastic						**NFM:** Qtz, Tar, Carb, Binder, Opaq, Misc. Part.								SSY
Layer Content:	Tile: None Detected; Mastic: 6% Chrysotile												Non Homogeneous	
1672785CPL	67633													
Sample Location	Sample Not Analyzed													
1672786CPL	67645													
Sample Location	Sample Not Analyzed													
1672787CPL	67779	<1 %	-	-	-	-	-	20 %	-	-	<1 %	-	80 %	6/16/98
Green flooring with black mastic						**NFM:** Qtz, Tar, Carb, Binder, Opaq, Misc. Part.								SSY
Layer Content:	Mastic: 2% Chrysotile; Other Layer: None Detected												Non Homogeneous	
1672788CPL	67626													
Sample Location	Sample Not Analyzed													

Samples received on: Tuesday, June 16, 1998

Authorized Signature _____

Stephen S. Yata, Geologist

Date Tuesday, June 16, 1998

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Samples received on: Tuesday, June 16, 1998

Authorized Signature _____

Stephen S. Yata, Geologist

Date Tuesday, June 16, 1998

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Test Report - RGA Environmental Inc.

Attn: Mr. Ken Pilgrim **Project #: ORC4010; OliverRubbe**

Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672789CPL	72288													
Sample Location	Sample Not Analyzed													
1672790CPL	67877	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98 SSY
Black cove base with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								Non Homogeneous
1672791CPL	67657	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98 SSY
Black cove base with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								Non Homogeneous
1672792CPL	67843	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98 SSY
Black cove base with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								Non Homogeneous
1672793CPL	67834	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98 SSY
Black floor tile with grey mastic						**NFM:** Qtz, Binder, Opaq, Misc. Part.								Non Homogeneous
1672794CPL	67642	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98 SSY
Black cove base with brown mastic						**NFM:** Qtz, Binder, Opaq, Misc. Part.								Non Homogeneous

Samples received on: Tuesday, June 16, 1998

Authorized Signature _____
Stephen S. Yata, Geologist
Date Tuesday, June 16, 1998

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Test Report - RGA Environmental Inc.

Attn: Mr. Ken Pilgrim **Project #: ORC4010; OliverRubbe**

Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672795CPL	67767	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Black cove base with brown mastic						**NFM:** Qtz, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672796CPL	67646	3 %	-	-	-	-	-	<1 %	-	-	-	-	97 %	6/16/98
Beige VFT with black mastic, brown mastic						**NFM:** Qtz, Tar, Carb, Binder, Opaq, Misc. Part.								SSY
Layer Content:	Tile: 3% Chrysotile; Black Mastic: <1% Chrysotile; Other Layer: None Detected													Non Homogeneous
1672797CPL	67635													
Sample Location	Sample Not Analyzed													
1672798CPL	67636													
-		-	-	-	-	-	-	-	-	-	-	-	-	
Sample Location	Sample Not Analyzed													
1672799CPL	67632	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey floor tile with clear mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672800CPL	67641	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey floor tile with clear mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous

Samples received on: Tuesday, June 16, 1998

Authorized Signature

Stephen S. Yata, Geologist

Date Tuesday, June 16, 1998

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Test Report - RGA Environmental Inc.

Attn: Mr. Ken Pilgrim **Project #: ORC4010; OliverRubbe**

Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672801CPL	67651	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey floor tile with clear mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672802CPL	67634	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Grey cove base with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672803CPL	67648	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Grey cove base with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672804CPL	67659	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Grey cove base with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672805CPL	67655	2 %	-	-	-	-	-	1 %	-	-	-	-	97 %	6/16/98
Grey floor tile with black mastic, black fiber layer						**NFM:** Qtz, Tar, Carb, Binder, Opaq, Misc. Part.								SSY
Layer Content:	Tile: 2% Chrysotile; Mastic: <1% Chrysotile; Other Layer: None Detected													Non Homogeneous
1672806CPL	67866													
Sample Location	Sample Not Analyzed													

Samples received on: Tuesday, June 16, 1998

Authorized Signature _____
Stephen S. Yata, Geologist
Date Tuesday, June 16, 1998

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Bay Area Lab
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Test Report - RGA Environmental Inc.

Attn: Ken Pilgrim **Project #: ORC4010; OliverRubbe**

Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672807CPL	67790													
Sample Location	Sample Not Analyzed													
1672808CPL	67627	1 %	-	-	-	-	-	<1 %	-	-	-	-	99 %	6/16/98
Brown floor tile (mastic - not submitted)		**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.												SSY
														Homogeneous
1672809CPL	67847	1 %	-	-	-	-	-	<1 %	-	-	-	-	99 %	6/18/98
Brown floor tile with yellow mastic		**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.												SSY
Layer Content:	Tile: 1% Chrysotile; Mastic: None Detected													Non Homogeneous
1672810CPL	67845													
Sample Location	Sample Not Analyzed													
1672811CPL	67637	-	-	-	-	-	-	-	-	-	1 %	-	99 %	6/16/98
Black sheet vinyl mastic		**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.												SSY
														Homogeneous
1672812CPL	67640	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Black sheet vinyl mastic		**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.												SSY
														Homogeneous

Samples received on: Tuesday, June 16, 1998

Authorized Signature _____
Stephen S. Yata, Geologist
Date Wednesday, June 17, 1998

RJ Lee Group, Inc.
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Phone (510) 567-0480
Fax (510) 567-0488

Test Report - RGA Environmental Inc.

Attn: Mr. Ken Pilgrim **Project #: ORC4010; OliverRubbe**

Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672813CPL	67639	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Black sheet vinyl mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
													Homogeneous	
1672814CPL	72282	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
White skip trowel						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
													Homogeneous	
1672815CPL	67643	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
White skip trowel						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
													Homogeneous	
1672816CPL	67656	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
White skip trowel						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
													Homogeneous	
1672817CPL	67770	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
White plaster						**NFM:** Qtz, Carb, Opaq, Misc. Part.								SSY
													Homogeneous	
1672818CPL	67785	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
White plaster						**NFM:** Qtz, Carb, Opaq, Misc. Part.								SSY
													Homogeneous	

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Attn: Mr. Ken Pilgrim **Project #: ORC4010; OliverRubbe**

Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672825CPL	72251													
Sample Location	Sample Not Analyzed													
1672826CPL	67764	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Black floor tile with black mastic						**NFM:** Qtz, Tar, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672827CPL	72237	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Black floor tile with brown/black mastic						**NFM:** Qtz, Tar, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672828CPL	67782	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Black floor tile with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672829CPL	67647	35 %	-	-	-	-	-	-	-	-	-	-	65 %	6/16/98
Tan pipe insulation						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Homogeneous
1672830CPL	67771													
Sample Location	Sample Not Analyzed													

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Attn: Ken Pilgrim **Project #: ORC4010; OliverRubbe**

Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672819CPL	72286	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
White plaster						**NFM:** Qtz, Carb, Opaq, Misc. Part.								SSY
													Homogeneous	
1672820CPL	72285	-	-	-	-	-	-	1 %	-	-	-	-	99 %	6/16/98
Blue VFT with tan compound (mastic N/S)						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
													Non Homogeneous	
1672821CPL	72256	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Blue VFT with white mastic, tan compound with grey stucco						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
													Non Homogeneous	
1672822CPL	72223	-	-	-	-	-	-	-	-	-	-	-	100 %	6/16/98
Blue VFT with white mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
													Non Homogeneous	
1672823CPL	67787	1 %	-	-	-	-	-	-	-	-	-	-	99 %	6/16/98
Black floor tile (mastic N/S)						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
													Homogeneous	
1672824CPL	67629	1 %	-	-	-	-	-	<1 %	-	-	-	-	99 %	6/18/98
Black floor tile with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
Layer Content:	Tile: 1% Chrysotile; Mastic: None Detected												Non Homogeneous	

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Test Report - RGA Environmental Inc.

Attn: Mr. Ken Pilgrim **Project #: ORC4010; OliverRubbe**

Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672825CPL	72251													
Sample Location	Sample Not Analyzed													
1672826CPL	67764	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Black floor tile with black mastic						**NFM:** Qtz, Tar, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672827CPL	72237	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Black floor tile with brown/black mastic						**NFM:** Qtz, Tar, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672828CPL	67782	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Black floor tile with brown mastic						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672829CPL	67647	35 %	-	-	-	-	-	-	-	-	-	-	65 %	6/16/98
Tan pipe insulation						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Homogeneous
1672830CPL	67771													
Sample Location	Sample Not Analyzed													

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Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672831CPL	67660													
Sample Location	Sample Not Analyzed													
1672832CPL	67886	15 %	-	-	-	-	-	-	-	-	-	-	85 %	6/16/98
Black roofing cement		**NFM:** Qtz, Tar, Carb, Opaq, Misc. Part.											Homogeneous	SSY
1672833CPL	67631													
Sample Location	Sample Not Analyzed													
1672834CPL	67718													
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sample Location	Sample Not Analyzed													
1672835CPL	67815	-	-	-	-	-	-	<1 %	-	1 %	-	-	99 %	6/16/98
Black roofing field		**NFM:** Qtz, Tar, Carb, Opaq, Misc. Part.											Homogeneous	SSY
1672836CPL	67786	-	-	-	-	-	-	10 %	-	1 %	-	-	89 %	6/16/98
Black roofing field with black felt		**NFM:** Qtz, Tar, Carb, Opaq, Misc. Part.											Non Homogeneous	SSY

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Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672837CPL	67793	12 %	-	-	-	-	-	-	-	1 %	-	-	87 %	6/16/98
Black roofing field with brown felt						**NFM:** Qtz, Tar, Carb, Opaq, Misc. Part.								SSY
Layer Content:	Felt: 15% Chrysotile; Other Layer: None Detected												Non Homogeneous	
1672838CPL	67768	12 %	-	-	-	-	-	<1 %	-	1 %	-	-	87 %	6/16/98
Black roofing field with brown felt						**NFM:** Qtz, Tar, Carb, Opaq, Misc. Part.								SSY
Layer Content:	Felt: 15% Chrysotile; Other Layer: None Detected												Non Homogeneous	
1672839CPL	67888													
Sample Location	Sample Not Analyzed													
1672840CPL	67795													
Sample Location	Sample Not Analyzed													
1672841CPL	67625	20 %	-	-	-	-	-	<1 %	-	<1 %	-	-	80 %	6/16/98
Brown felt						**NFM:** Qtz, Tar, Carb, Opaq, Misc. Part.								SSY
													Homogeneous	
1672842CPL	67849													
Sample Location	Sample Not Analyzed													

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Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672843CPL	67783													
Sample Location	Sample Not Analyzed													
1672844CPL	67658	7 %	-	-	-	-	-	7 %	-	1 %	-	-	85 %	6/16/98
Black roofing field with brown felt						**NFM:** Qtz, Tar, Carb, Opaq, Misc. Part.								SSY
Layer Content:	Felt: 10% Chrysotile; Other Layer: None Detected												Non Homogeneous	
1672845CPL	67887													
Sample Location	Sample Not Analyzed													
1672846CPL	67870													
Sample Location	Sample Not Analyzed													
1672847CPL	67879	-	-	-	-	-	-	-	-	2 %	-	-	98 %	6/16/98
Black roofing field						**NFM:** Qtz, Tar, Carb, Opaq, Misc. Part.								SSY
													Homogeneous	
1672848CPL	67774	-	-	-	-	-	-	3 %	-	2 %	-	-	95 %	6/16/98
Black roofing field						**NFM:** Qtz, Tar, Carb, Opaq, Misc. Part.								SSY
													Homogeneous	

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Stephen S. Yata, Geologist

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Test Report - RGA Environmental Inc.

Attn: Mr. Ken Pilgrim **Project #: ORC4010; OliverRubbe**

Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672849CPL	67777	-	-	-	-	-	-	1 %	-	2 %	-	-	97 %	6/16/98
Black roofing field						**NFM:** Qtz, Tar, Carb, Opaq, Misc. Part.								SSY
														Homogeneous
1672850CPL	67791	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey window glazing						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Homogeneous
1672851CPL	67884	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey window glazing						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Homogeneous
1672852CPL	67652	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey window glazing						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Homogeneous
1672853CPL	67838	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey stucco						**NFM:** Qtz, Carb, Opaq, Misc. Part.								SSY
														Homogeneous
1672854CPL	67719	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey stucco						**NFM:** Qtz, Carb, Opaq, Misc. Part.								SSY
														Homogeneous

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Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672855CPL	67708	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey stucco with black mastic						**NFM:** Qtz, Carb, Opaq, Misc. Part.								SSY
														Non Homogeneous
1672856CPL	67709	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey stucco						**NFM:** Qtz, Carb, Opaq, Misc. Part.								SSY
														Homogeneous
1672857CPL	67819	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey stucco						**NFM:** Qtz, Carb, Opaq, Misc. Part.								SSY
														Homogeneous
1672858CPL	67807	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey stucco						**NFM:** Qtz, Carb, Opaq, Misc. Part.								SSY
														Homogeneous
1672859CPL	67773	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/16/98
Grey stucco						**NFM:** Qtz, Carb, Opaq, Misc. Part.								SSY
														Homogeneous
1672860CPL	67848	1 %	-	-	-	-	-	-	-	-	-	-	99 %	6/16/98
Grey window glazing						**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Homogeneous

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Authorized Signature

Stephen S. Hall, Geologist

Date Tuesday, June 16, 1998

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Project AOC806186

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1672861CPL	67650													
Sample Location	Sample Not Analyzed													
1672862CPL	67780													
Sample Location	Sample Not Analyzed													
1672863CPL	67706	-	-	-	-	-	-	-	-	2 %	-	-	98 %	6/16/98
Black roofing felt						**NFM:** Qtz, Tar, Carb, Opaq, Misc. Part.								SSY
													Homogeneous	
1672864CPL	67766	-	-	-	-	-	-	<1 %	-	1 %	-	-	99 %	6/16/98
Black roofing felt						**NFM:** Qtz, Tar, Carb, Opaq, Misc. Part.								SSY
													Homogeneous	
1672865CPL	67723	-	-	-	-	-	-	<1 %	-	1 %	-	-	99 %	6/16/98
Black roofing field						**NFM:** Qtz, Tar, Carb, Opaq, Misc. Part.								SSY
													Homogeneous	

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Date Tuesday, June 16, 1998

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Appendix 3
Laboratory Certifications

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

RJ LEE GROUP, INC.
SAN LEANDRO, CA

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

June 30, 1998
Effective through

For the National Institute of Standards and Technology

NVLAP Lab Code: 101208-2

NVLAP-01C (11-95)

Appendix 4
Inspector Certifications

The Environmental Institute

Kenneth Pilgrim

559 02 9726

Has completed course work that meets the criteria required for EPA/AHERA (TSCA Title II) Approved Reaccreditation and NESHAPs Regulation Training

Asbestos in Buildings: Building Inspector Refresher

January 13, 1998
Course Date

12062 – BIR
Certificate Number

January 13, 1999
Expiration Date

E Schuler
Course Director

6666 Owens Drive - Pleasanton, California

State of California
Division of Occupational Safety and Health

Certified Asbestos Consultant

Kenneth M. Pilgrim
Name

Certification No. 97-2267

Expires on 10/15/98

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California
Division of Occupational Safety and Health

Certified Asbestos Consultant

Yew "Eddie" C. Chan
Name

Certification No. **93-0954**

Expires on **3/12/99**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.