

**ASBESTOS AND LEAD SURVEY
AND HAZARDOUS MATERIALS
SURVEY RESULTS**

**Goodman Property
Salem, Oregon**

Prepared by:



centurywest
ENGINEERING CORPORATION

Kathleen J. Thorpe
Senior Project Manager

Thomas B. Gainer, P.E.
Senior Environmental Engineer

February 10, 1997

CS10315



centurywest
ENGINEERING CORPORATION

February 10, 1997

Mr. Dan Berrey
Courthouse Square, Inc.
340 Vista Ave.
Salem, OR 97302

RE: Asbestos and Lead Survey and
Hazardous Materials Survey Results
Goodman Property, Salem, Oregon

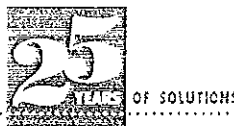
Dear Dan:

Century West Engineering Corporation (Century West) was retained by Dan Berrey of Courthouse Square, Inc., to perform an Asbestos and Lead Survey and Hazardous Materials Survey on the Goodman property, located at 525 Court Street NE in Salem, Oregon. The property is a 40-foot by 90-foot developed parcel containing a building which is used for a dental practice.

The purpose of the surveys was to identify and quantify asbestos containing building materials, lead based paint, and hazardous materials in the Goodman building to prepare for demolition activities.

SCOPE OF WORK

In order to satisfy the above stated purpose, the survey included a physical examination of the property. A qualified subcontractor, Three Rivers Environmental, performed a survey of the Goodman property on January 13, 1997 in order to identify and quantify specific asbestos containing materials (ACMS), and lead based paint. Foss Environmental Services, a qualified subcontractor, performed a survey of the property on February 4, 1997 in order to identify and quantify hazardous materials. The inspections consisted of visual and tactile examination of all accessible portions of the surveyed area.



LEADING THROUGH EFFECTIVE SOLUTIONS

1593 Clay Street NE Salem, Oregon 97301 Phone: (503) 540-0995 FAX: (503) 589-1657

SAMPLING METHODOLOGY

All observed suspect asbestos containing materials were sampled in accordance with the Asbestos Hazard Emergency Response Act (AHERA) protocol. All lead paint screen samples were collected in accordance with the Environmental Protection Agency (EPA) sampling protocol. The survey was not performed using destructive sampling methods, therefore, any unknown suspect materials revealed during demolition of the buildings should be tested for asbestos, lead content or other hazards as they become apparent, prior to their disturbance. Details of the inspection and findings are provided in the following Appendixes.

Approximately 84 samples were collected and submitted for analysis by polarized light microscopy (PLM) for asbestos containing building materials in accordance with National Institution of Occupational Safety and Health (NIOSH) and 40 CRF 763 as amended.

Four samples were collected for a lead paint screen and submitted for analysis of lead in paint according to the U.S. Department of Housing and Urban Development (HUD) guidelines, Title X of the Housing and Community Development Act of 1992. Please note, all potential lead containing paint surfaces were not sampled. According to the Federal OSHA standards, once it has been determined that lead is present, then OSHA compliance monitoring and waste stream analysis is required on all demolition material.

The hazardous materials inventory was conducted by visually inspecting the property for polychlorinated biphenyl (PCB) containing light ballasts, florescent light tubes, and any other waste streams and containers in the buildings which would need to be properly disposed of in accordance with environmental regulations.

RESULTS- ASBESTOS

Results of the analyses conducted identified asbestos in sheet vinyl flooring, 9 x 9 floor tile, mastic under the 9 x 9 floor tile, mastic under sheet vinyl, in the furnace lining, petroleum based roofing built-up, and tar in samples taken from the site, and was assumed in the cement asbestos board and thermal systems insulation (Appendix 1). According to the Department of Environmental Quality (DEQ) Regulations, (OAR 340-32-5620(1)(b)), sheet vinyl flooring with an asbestos backing must be treated as friable material. Remodeling or demolition which may impact any of these materials is to be handled by a DEQ licensed abatement contractor.

Table 1 summarizes the material sampled, location, results, and quantity of asbestos containing building material:

TABLE 1
Summary of Asbestos Sample Locations and Results

SAMPLE ID NUMBER	SAMPLE LOCATION	ASBESTOS CONTAINING
525-22 Approx 1200 sq ft	Sheet Vinyl Flooring: Beige, white & gold Examination Areas, Central Lab, Kitchen, Men's Restroom & Developing Closet	YES 20% Chrysotile
525-34 Approx 20 sq ft	Sheet Vinyl Flooring: White & beige	YES 22.5% Chrysotile
525-43 Approx 320 sq ft	9 X 9 Floor Tile: White NE office and E cast room	YES 11.6% Chrysotile
525-46 Approx 320 sq ft	9 X 9 Floor Tile: White NE office and E cast room	YES 25 % Chrysotile
525-49 Approx 140 sq ft	9 X 9 Floor Tile: Black & green NE Storage Room	YES 30% Chrysotile
525-52 Approx 140 sq ft	Mastic: under 9 X 9 black and green floor tile NE Storage Room	YES 30% Chrysotile
525-55 Approx 370 sq ft	Floor tile: White, under sheet vinyl Under grey, white & black sheet vinyl. Throughout Childrens Dental Office	YES 10% Chrysotile
525-58 Approx 25 sq ft	Mastic: under beige & grey sheet vinyl E restroom	YES 15% Chrysotile
525-67 Approx 80 sq ft	Furnace Lining Mechanical room	YES 80% Chrysotile
525-76 Approx 1800 sq ft	Roofing built-up S Roof	YES 20.3% Chrysotile
525-82 Not Quantified	Wall surfacing Tar N Exterior of Building	25% Chrysotile
Assumed Approx 40 sq ft Approx 115 sq ft Approx 400 sq ft	Cement Asbestos Board Mechanical Room, interior of door and jam NE Office, cast rooms, central lab, counter tops Within walls, ceilings and floors	ASSUMED

RESULTS - LEAD BASED PAINT

Results of analyses conducted identified lead in paint below the DEQ cleanup level of 0.5 percent by weight in all samples except 525-04, a yellow paint sample with 1.9 percent by weight (Appendix 2). This yellow paint material was located on the original ceiling of lathee and plaster located throughout the facility. This paint was found on the original substructure and could be found on any lathe and plaster subtrait throughout the structure. Results of analysis indicate that there is lead based material in the building. OSHA requires exposure compliance monitoring of

personnel during demolition and that the waste stream be analyzed by Total Characteristic Leaching Procedure (TCLP) prior to disposal.

Table 2 summarizes the material sampled, location, and results of lead based paint materials:

TABLE 2
Summary of Lead Sample Locations and Results

SAMPLE ID NUMBER	SAMPLE LOCATION	LEAD CONTAINING
525-01	Paint: White and green Kitchen door frame	NO 0.0%
525-02	Paint: White and green Laundry NW Wall	YES 0.13%
525-03	Paint: Yellow, white and green Records Storage NW Wall	YES 0.40%
525-04	Paint: Yellow Above ceiling, NW hallway	YES 1.89%

RESULTS - HAZARDOUS MATERIALS

Typical hazardous material in office buildings include, but are not limited to: spent halogenated solvents and mixtures of these solvents used as cleaners/degreaser, freon, paint wastes, polychlorinated biphenyls, and waste exhibiting the characteristics of ignitability, corrosivity, reactivity or toxicity. Determination of a hazardous characteristic is achieved by laboratory testing or knowledge of the nature of the waste. A waste may exhibit more than one hazardous characteristic.

Results of the survey indicated 25 PCB-containing light ballasts, 42 non-PCB containing light ballasts, 37 florescent light fixtures, 125 florescent light tubes, 2 wall mounted A/C units with Freon, and 2 Refrigerators with Freon (Appendix 3).

There are various resins and other materials in the dental laboratory which would require extensive hazardous characterization determination prior to disposal. A technician at the laboratory stated that their intention was to take all lab equipment, miscellaneous material and chemicals with them when they relocated. Table 3 summarizes the material sampled, location, and materials classified as hazardous:

TABLE 3
Summary of Materials Classified as Hazardous

Quantity	Material	Classification
25	PCB containing light ballasts	Hazardous Material
42	Non-PCB containing light ballasts	Non-hazardous Special Waste (due to mineral oil content)
125	Fluorescent light tubes	Hazardous Material
2	Wall mounted A/C units with Freon Freon gas only	Hazardous Material Fully Recyclable
2	Refrigerators with Freon Freon gas only	Hazardous Material Fully Recyclable

RECOMMENDATION

Based upon the conclusions of this investigation of the Goodman property, Century West Engineering following recommendation:

- 1) At the time of or prior to demolition, asbestos-containing materials, lead-based paint, and hazardous materials should be properly handled, removed, and disposed of by a qualified contractor.

LIMITATIONS

In part, these findings, conclusions and recommendations are based on the best available information known or made available by regulators, other consultants or other sources. Over time, the surficial evidence of some activities is obscured or obliterated entirely. It is possible that certain adverse conditions could exist at the site which were not detected in this evaluation.

The services provided under this contract as described in this report include professional opinions and judgments based on data collected. These services have been provided according to generally accepted engineering practices. The opinions and conclusions contained in this report are typically based on information obtained from:

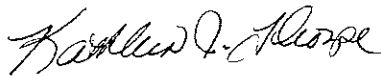
1. Observations and measurements made by our field staff.
2. Contacts and discussions with regulatory agencies and others.
3. Review of available hazardous substance or solid waste lists.

4. Opinions and judgments of Century West based on the information available.

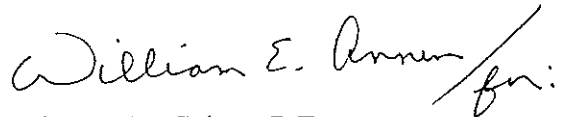
Courthouse Square, Inc. (the **CLIENT**), acknowledges that Century West has been retained for the sole purpose of assisting the **CLIENT** in evaluating the environmental liability associated with the project site. It is recognized and agreed that Century West has assumed responsibility only for performing this investigation and presenting this report and conclusions to the **CLIENT**. The responsibility for making any further evaluation, disclosure or report to any third party or for the taking of corrective, remedial and mitigative action, shall be solely that of the **CLIENT**. The **CLIENT** agrees to hold Century West harmless from any and all liability, damage, loss, cost or expense, including attorneys' fees, in any way arising from the claim of any third party. Century West agrees not to make, except to the **CLIENT** or at the **CLIENT**'s request, any report to any third party not legally required of it.

In the professional judgment of Century West, the services performed pursuant to the Scope of Services are an adequate basis to collect data for a preliminary evaluation of the site and upon which to draw the conclusions stated in this document.

Sincerely,



Kathleen J. Thorpe
Senior Project Manager



Thomas B. Gainer, P.E.
Senior Environmental Engineer

- Appendix 1: Results - Asbestos
- Appendix 2: Results - Lead Based Paint
- Appendix 3: Results - Hazardous Materials

APPENDIX 1
RESULTS - ASBESTOS



GOODMANBUILDING
ASBESTOS SURVEY & LEAD PAINT SCREEN TR# 1420-01
525 COURT STREET NE. SALEM, OREGON 97301

INTRODUCTION
1997
PAGE 1 OF 1

Introduction

January, 1997

Three Rivers Environmental performed a survey to identify specific asbestos containing materials (ACMs) and Lead containing paint that may be present at the Goodman Building located at; 525 Court Street NE. Salem, Oregon 97301

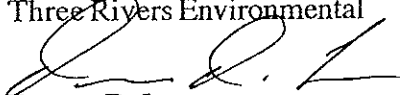
Field investigation was conducted by Jeff Smith and Darren D. Lee, of this office on January 13th of 1997.

The inspection consisted of visual and tactile examination of all accessible portions of the surveyed area. All observed suspect asbestos containing materials were sampled in accordance with the Asbestos Hazard Emergency Response Act (AHERA) protocol, and submitted for laboratory analysis. All lead paint screen samples were collected in accordance with the Environmental Protection Agency (EPA) sampling protocol and submitted for laboratory analysis.

This survey was not performed using destructive sampling methods. Any unknown suspect materials revealed during renovation of the facility should be tested for asbestos and lead content prior to their disturbance.

Please contact us with any questions or comments regarding the contents of this report.

Sincerely;
Three Rivers Environmental



Darren D. Lee
Operations Manager

Asbestos Material Summary

Material: Sheet Vinyl Flooring beige, white & gold

Description: Sheet vinyl flooring, beige, white & gold, which contains approximately 20% chrysotile asbestos.

Locations: Examination Areas, Central Lab, Kitchen, Mens Restroom & Developing Closet

Quantity: Approximately: 1200 sq. ft.

Material: Sheet Vinyl Flooring white & beige

Description: Sheet vinyl flooring, white & beige, which contains approximately 22.5% chrysotile asbestos.

Locations: N. Womans Restroom

Quantity: Approximately: 20 sq. ft.

Material: Floor Tile 9x9 white

Description: Floor tile 9x9 white, which contains approximately 11.6% chrysotile asbestos.

Locations: N.E. Office & E. Cast Room

Quantity: Approximately: 320 sq. ft.

Material: Mastic under 9x9 white Floor Tile

Description: Mastic under 9x9 white floor tile which contains approximately 25% chrysotile asbestos.

Locations: N.E. Office & E. Cast Room

Quantity: Approximately: 320 sq. ft.

Asbestos Material Summary

Material: Floor Tile 9x9 black & green

Description: Floor tile 9x9 black & green, which contains approximately 25% chrysotile asbestos.
Locations: N.E. Storage Room
Quantity: Approximately: 140 sq. ft.

Material: Mastic under 9x9 black & green Floor Tile

Description: Mastic under 9x9 black & green floor tile which contains approximately 30% chrysotile asbestos.
Locations: N.E. Storage Room
Quantity: Approximately: 140 sq. ft.

Material: Floor Tile white under Sheet Vinyl

Description: Floor tile white, under grey, white & black sheet vinyl which contains approximately 10% chrysotile asbestos.
Locations: Throughout Childrens Dental Offices
Quantity: Approximately: 370 sq. ft.

Material: Mastic under beige & grey Sheet Vinyl

Description: Mastic under beige & grey sheet vinyl which contains approximately 15% chrysotile asbestos.
Locations: E. Restroom
Quantity: Approximately: 25 sq. ft.

Asbestos Material Summary

Material: Furnace Lining

Description: Furnace lining which contains approximately 80% chrysotile asbestos.
Locations: Mechanical Room
Quantity: Approximately 80 sq. ft.

Material: Roofing Built-up

Description: Roofing built-up, which contains approximately 20.3% chrysotile asbestos.
Locations: S. Roof
Quantity: Approximately 1800 sq. ft.

Material: Tar wall surfacing

Description: Tar on exterior wall surface, which contains approximately 25% chrysotile asbestos.
Locations: N. Exterior of Building
Quantity: Not Quantified

Material: Cement Asbestos Board

Description: Cement asbestos board which is assumed to contain asbestos.
Locations: Mechanical Room, Interior of Door and Jam
Quantity: Approximately 40 sq. ft.

Asbestos Material Summary

Material: Cement Asbestos Board

Description: Cement asbestos board which is assumed to contain asbestos.
Locations: N.E. Office, Cast Rooms & Central Lab. Counter Tops
Quantity: 115 sq. ft.

Material: Thermal Systems Insulation

Description: Thermal systems insulation which is assumed to contain asbestos.
Locations: Within Walls, Ceilings and Floors
Quantity: (estimated) 400 sq. ft.

TOTAL QUANTIFICATION OF ACM

<u>Material</u>	<u>Photo #</u>	<u>Approx. Quantity</u>
Sample # 525-22 Sheet Vinyl Flooring	5	1200 sq. ft.
Sample # 525-34 Sheet Vinyl Flooring	9	20 sq. ft.
Sample # 525-43 Floor Tile 9x9	12	320 sq. ft.
Sample # 525-46 Mastic under Floor Tile 9x9	12	320 sq. ft.
Sample # 525-49 Floor Tile 9x9	13	140 sq. ft.
Sample # 525-52 Mastic under Floor Tile 9x9	13	140 sq. ft.
Sample # 525-55 Floor Tile under Sheet Vinyl	14	370 sq. ft.
Sample # 525-58 Mastic under Sheet Vinyl	15	25 sq. ft.
Sample # 525-67 Furnace Lining	18	80 sq. ft.
Sample # 525-76 Roofing Built-up	20	1800 sq. ft.
Sample # 525-82 Tar (exterior surfacing)	22	Not Quantified
Cement Asbestos Board	23	40 sq. ft.
Cement Asbestos Board	24 & 25	115 sq. ft.
Thermal Systems Insulation	N/A	(estimated) 400 sq. ft.

Bulk Sample Inventory Sheet

Sample #	Material Description	Sample Location	Photo #	Asbestos %
525-01	Sheet Vinyl Flooring, white	South Entry	2	0%
525-02	Sheet Vinyl Flooring, white	South Entry	2	0%
525-03	Sheet Vinyl Flooring, white	South Entry	2	0%
525-04	Sheet Vinyl Flooring, grey under Sheet Vinyl, white.	South Entry	2	0%
525-05	Sheet Vinyl Flooring, grey under Sheet Vinyl, white.	South Entry	2	0%
525-06	Sheet Vinyl Flooring, grey under Sheet Vinyl, white.	South Entry	2	0%
525-07	Carpet Mastic	S.W. Lobby	3	0%
525-08	Carpet Mastic	Central Office	3	0%
525-09	Carpet Mastic	N.W. Office	3	0%
525-10	Leveling Compound	S.W. Lobby	3	0%
525-11	Leveling Compound	S.W. Office	3	0%
525-12	Leveling Compound	S.W. Office	3	0%
525-13	Floor Tile 9x9 brown & tan	S.W. Lobby	3	0%
525-14	Floor Tile 9x9 brown & tan	S.W. Office	3	0%
525-15	Floor Tile 9x9 brown & tan	S.W. Office	3	0%
525-16	Felt Backing under Floor Tile 9x9 brown & tan	S.W. Lobby	3	0%

Bulk Sample Inventory Sheet

Sample #	Material Description	Sample Location	Photo #	Asbestos %
525-17	Felt Backing under Floor Tile 9x9 brown & tan	S.W. Office	3	0%
525-18	Felt Backing under Floor Tile 9x9 brown & tan	S.W. Office	3	0%
525-19	Cove Base Mastic	S.W. Lobby	4	<1%
525-20	Cove Base Mastic	S.W. Office	4	0%
525-21	Cove Base Mastic	S.W. Office	4	0%
525-22	Sheet Vinyl Flooring, beige, white & gold	Central Hallway	5	20%
525-23	Sheet Vinyl Flooring, beige, white & gold	Central Lab	5	Not Analyzed
525-24	Sheet Vinyl Flooring, beige, white & gold	Darkroom Closet	5	Not Analyzed
525-25	Mastic on 1x1 Ceiling Tile	S.W. Lobby	6	0%
525-26	Mastic on 1x1 Ceiling Tile	S.W. Office	6	0%
525-27	Mastic on 1x1 Ceiling Tile	N. Hallway	6	0%
525-28	Wall Plaster	S.W. Lobby	7	0%
525-29	Wall Plaster	N.E. Office	7	0%
525-30	Wall Plaster	Central Office	7	0%
525-31	Mastic on HVAC Ducting	Above Ceiling	8	0%
525-32	Mastic on HVAC Ducting	Above Ceiling	8	0%
525-33	Mastic on HVAC Ducting	Furnace Room	8	0%

Bulk Sample Inventory Sheet

Sample #	Material Description	Sample Location	Photo #	Asbestos %
525-34	Sheet Vinyl Flooring, white & beige	N.Womans Restroom	9	22.5%
525-35	Sheet Vinyl Flooring, white & beige	N.Womans Restroom	9	Not Analyzed
525-36	Sheet Vinyl Flooring, white & beige	N.Womans Restroom	9	Not Analyzed
525-37	Sheet Vinyl Flooring, white & tan	Kitchen	10	0%
525-38	Sheet Vinyl Flooring, white & tan	Kitchen	10	0%
525-39	Sheet Vinyl Flooring, white & tan	Kitchen	10	0%
525-40	Sheet Vinyl Flooring, grey, blue & tan	Cast Room	11	0%
525-41	Sheet Vinyl Flooring, grey, blue & tan	Cast Room	11	0%
525-42	Sheet Vinyl Flooring, grey, blue & tan	Cast Room	11	0%
525-43	Floor Tile 9x9 white	E. Cast Room	12	11.6%
525-44	Floor Tile 9x9 white	N.E. Office	12	Not Analyzed
525-45	Floor Tile 9x9 white	N.E. Office	12	Not Analyzed
525-46	Mastic under Floor Tile 9x9 white	N.E. Office	12	25%
525-47	Mastic under Floor Tile 9x9 white	N.E. Office	12	Not Analyzed

Bulk Sample Inventory Sheet

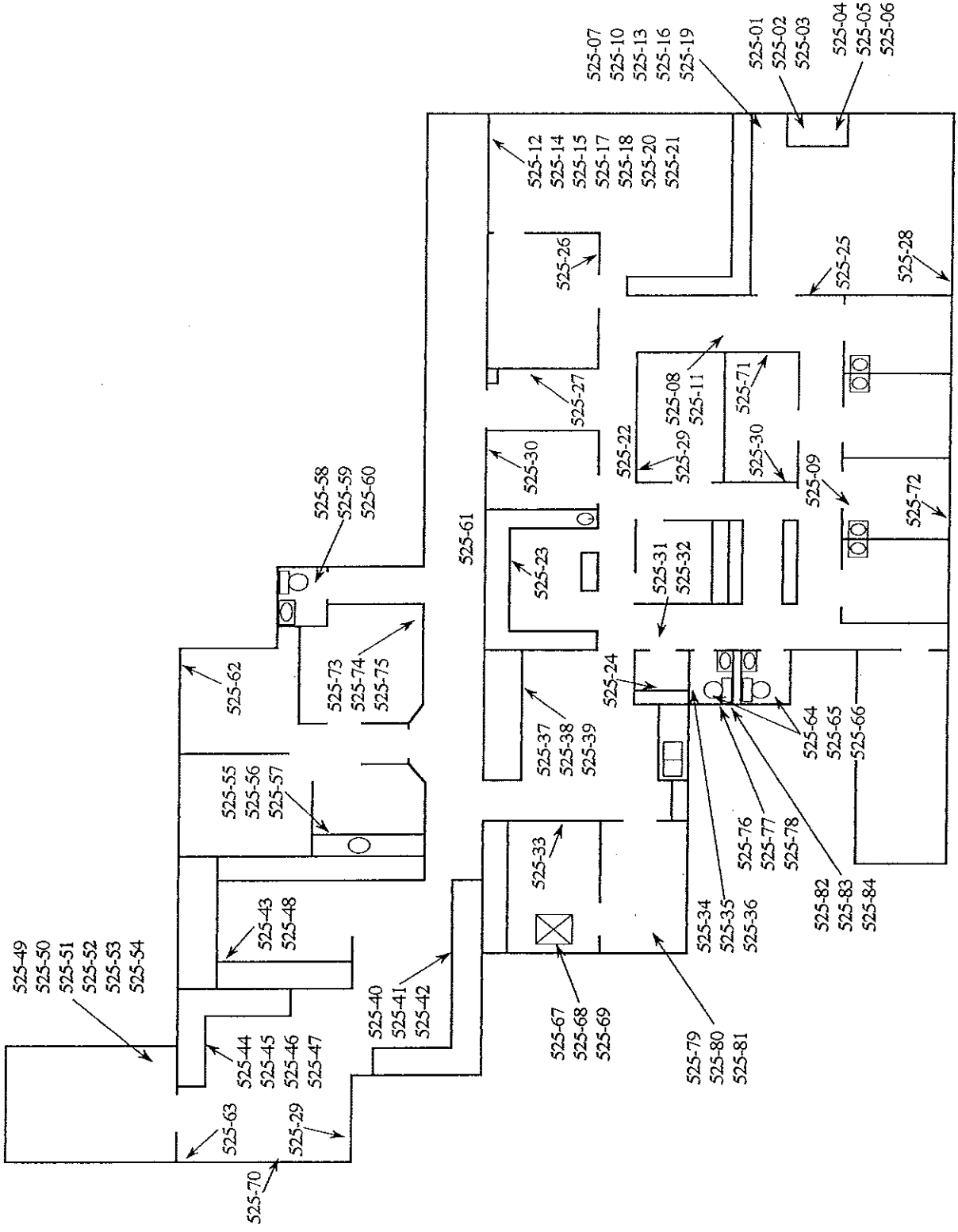
Sample #	Material Description	Sample Location	Photo #	Asbestos %
525-48	Mastic under Floor Tile 9x9 white	E. Cast Room	12	Not Analyzed
525-49	Floor Tile 9x9 black & green	N.E. Storage	13	25%
525-50	Floor Tile 9x9 black & green	N.E. Storage	13	Not Analyzed
525-51	Floor Tile 9x9 black & green	N.E. Storage	13	Not Analyzed
525-52	Mastic under Floor Tile 9x9 black & green	N.E. Storage	13	30%
525-53	Mastic under Floor Tile 9x9 black & green	N.E. Storage	13	Not Analyzed
525-54	Mastic under Floor Tile 9x9 black & green	N.E. Storage	13	Not Analyzed
525-55	Sheet Vinyl Flooring, grey white & black	Children Dental Office	14	0%
	Floor Tile, white under, grey white & black Sheet Vinyl	Children Dental Office	14	10%
525-56	Sheet Vinyl Flooring, grey white & black	Children Dental Office	14	Not Analyzed
525-57	Sheet Vinyl Flooring, grey white & black	Children Dental Office	14	Not Analyzed
525-58	Sheet Vinyl Flooring, beige & grey	E. Restroom	15	0%
	Mastic under beige & grey Sheet Vinyl	E. Restroom	15	15%

Bulk Sample Inventory Sheet

Sample #	Material Description	Sample Location	Photo #	Asbestos %
525-59	Sheet Vinyl Flooring, beige & grey	E. Restroom	15	<1%
525-60	Sheet Vinyl Flooring, beige & grey	E. Restroom	15	<1%
525-61	Wall & Ceiling Plaster	E. Hallway	16	0%
525-62	Wall & Ceiling Plaster	Children Dental Office	16	0%
525-63	Wall & Ceiling Plaster	N.E. Office	16	0%
525-64	Ceiling Acoustical Surfacing (popcorn)	N.W. Restrooms	17	0%
525-65	Ceiling Acoustical Surfacing (popcorn)	N.W. Restrooms	17	0%
525-66	Ceiling Acoustical Surfacing (popcorn)	N.W. Restrooms	17	0%
525-67	Furnace Lining	Mechanical Rm.	18	80%
525-68	Furnace Lining	Mechanical Rm.	18	Not Analyzed
525-69	Furnace Lining	Mechanical Rm.	18	Not Analyzed
525-70	Drywall/Taping Compound	S.E. Office	19	0%
525-71	Drywall/Taping Compound	Central Office	19	0%
525-72	Drywall/Taping Compound	N.W. Office	19	0%
525-73	Ceiling Tile 2x4	S.E. Dental Office	N/A	0%
525-74	Ceiling Tile 2x4	S.E. Dental Office	N/A	0%
525-75	Ceiling Tile 2x4	S.E. Dental Office	N/A	0%
525-76	Roofing Built-up	N. Side of Roof	20	20.3%

Bulk Sample Inventory Sheet

Sample #	Material Description	Sample Location	Photo #	Asbestos %
525-77	Roofing Built-up	N. Side of Roof	20	Not Analyzed
525-78	Roofing Built-up	N. Side of Roof	20	Not Analyzed
525-79	Roofing Material (rolled-on)	N. Side of Roof	21	0%
525-80	Roofing Material (rolled-on)	N. Side of Roof	21	0%
525-81	Roofing Material (rolled-on)	N. Side of Roof	21	0%
525-82	Wall Surfacing	N. Side of Bldg. Exterior	22	0%
	Tar	N. Side of Bldg. Exterior	22	25%
525-83	Wall Surfacing	N. Side of Bldg. Exterior	22	0%
525-84	Wall Surfacing	N. Side of Bldg. Exterior	22	0%
	Cement Asbestos Board	Mechanical Room door covering & jam	23	Assumed
	Cement Asbestos Board	Cast Room counter tops	24	Assumed
	Cement Asbestos Board	Central Lab counter tops	25	Assumed
	Thermal Systems Insulation	Throughout	N/A	Assumed



DATE:	1/97
DRWN BY:	DDL
DGRM #:	

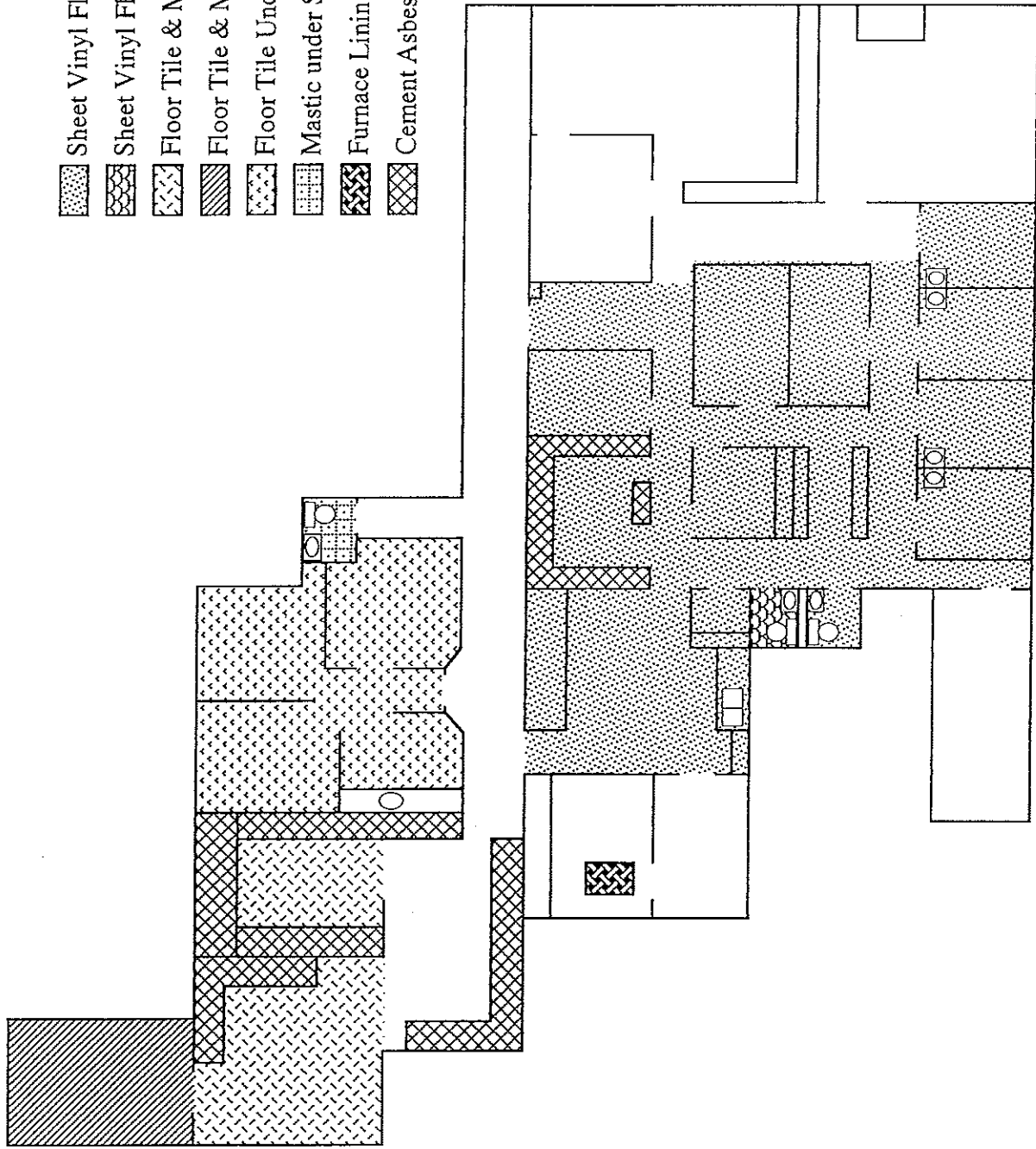
Asbestos Survey Report
GOODMAN BUILDING
 525 Court Street NE Salem, Oregon 97301
 Project #: 1420-01

**ASBESTOS SAMPLE LOCATIONS
 DIAGRAM**

(Drawing Not to Scale)



- Sheet Vinyl Flooring
- Sheet Vinyl Flooring
- Floor Tile & Mastic
- Floor Tile & Mastic
- Floor Tile Under Sheet Vinyl
- Mastic under Sheet Vinyl
- Furnace Lining
- Cement Asbestos Board



DATE: 1/97
 DRWN BY: DDL
 DGRM #:

Asbestos Survey Report
GOODMAN BUILDING
 525 Court Street NE Salem, Oregon 97301
 Project #: 1420-01

**POSITIVE MATERIAL LOCATIONS
 DIAGRAM**

(Drawing Not to Scale)

**THREE RIVERS
 ENVIRONMENTAL**
 P.O. Box 216 Gladstone, Oregon 97027 (503) 557-2396

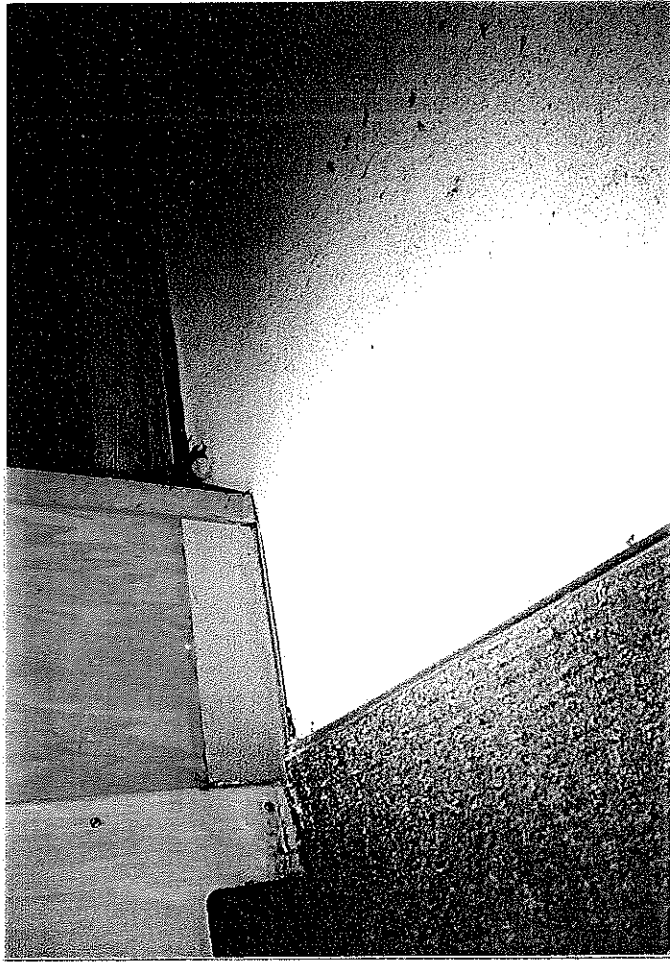
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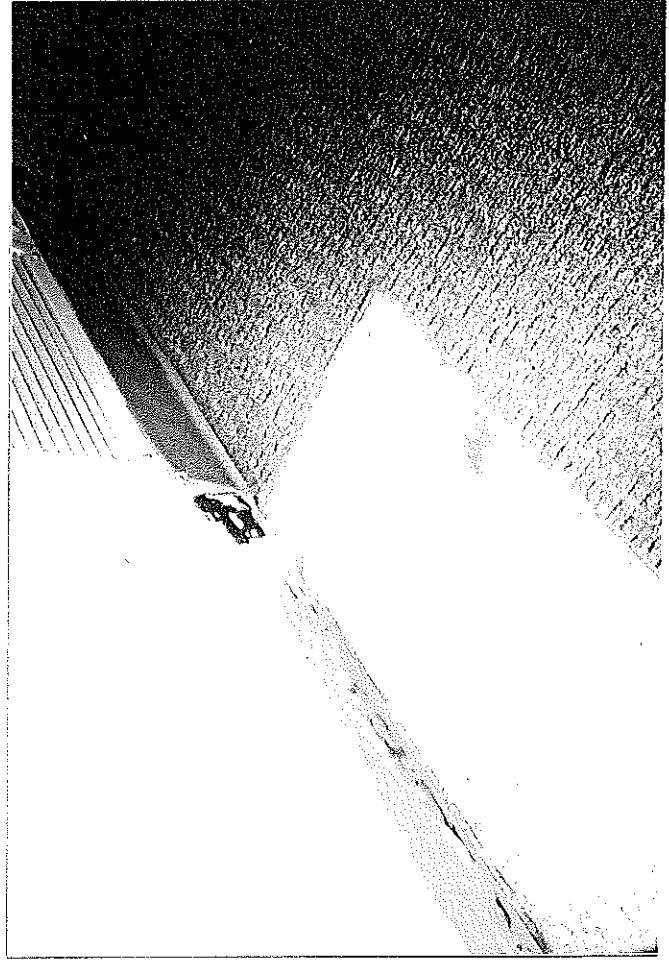
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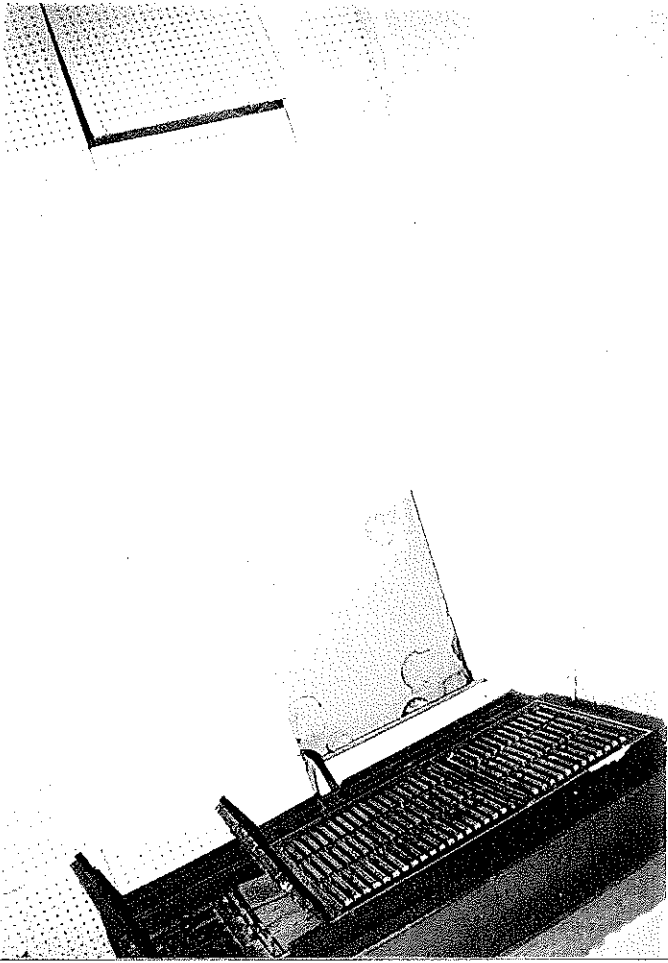
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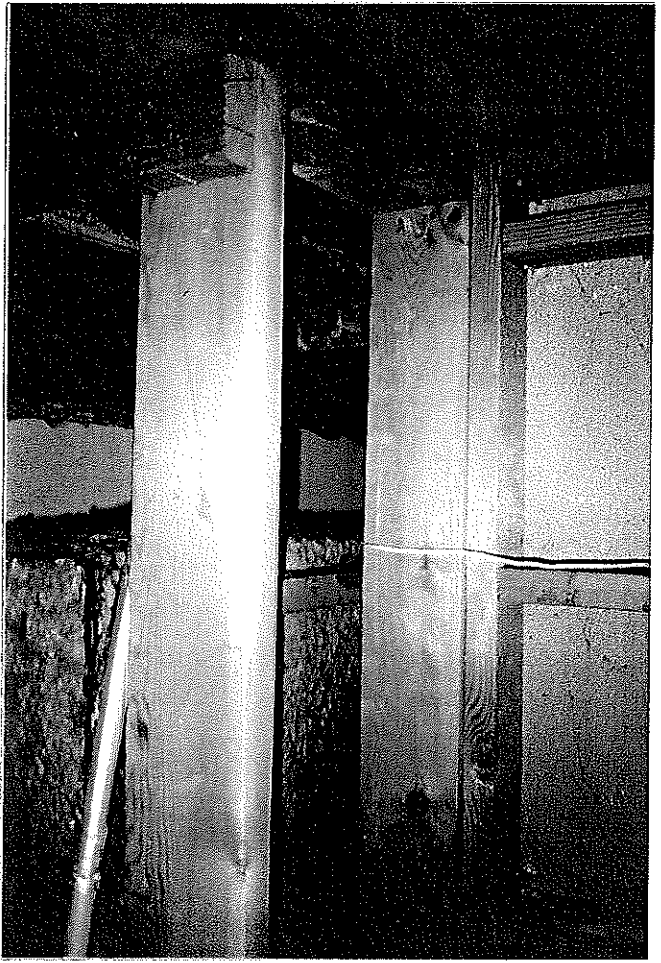
Picture No. 4



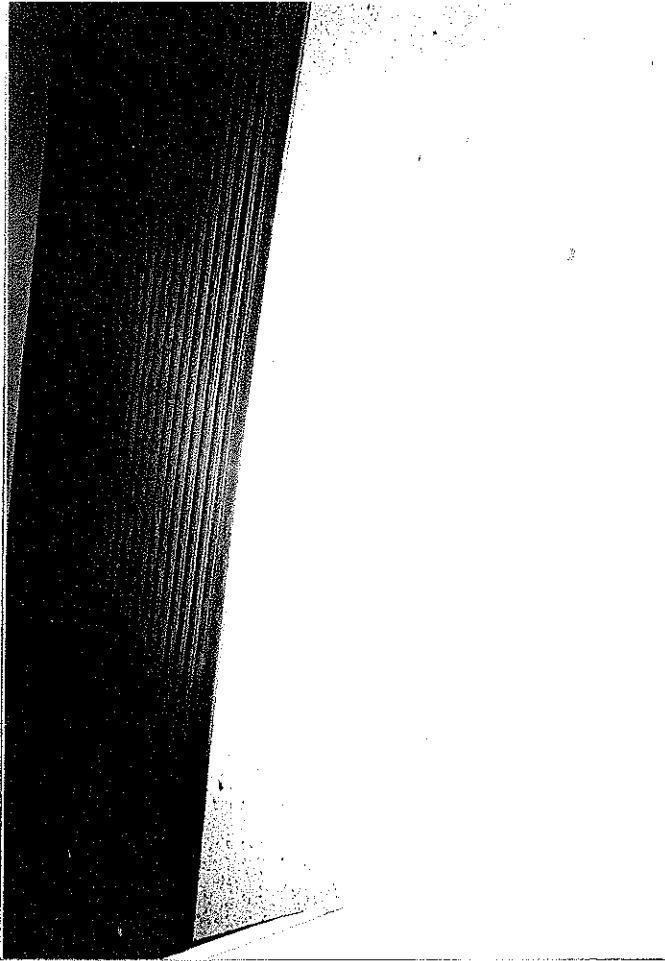
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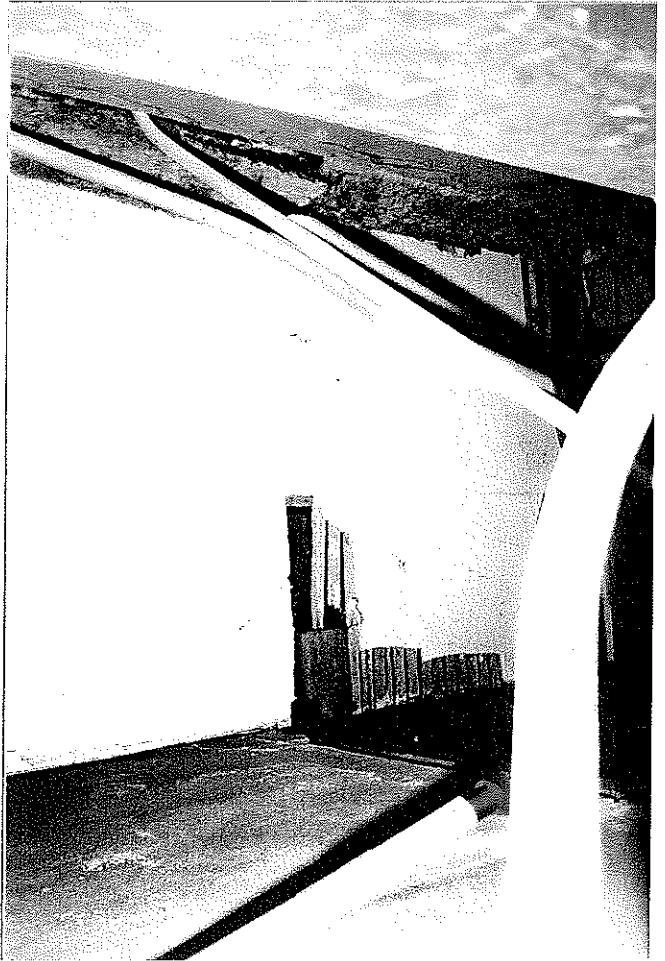
Picture No. 8



Picture No. 5



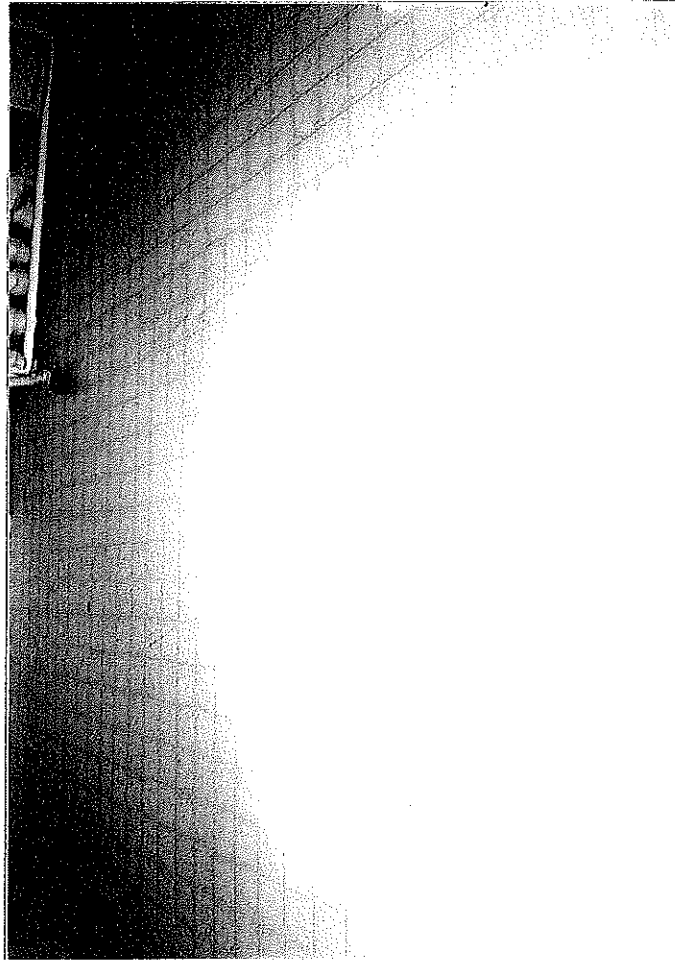
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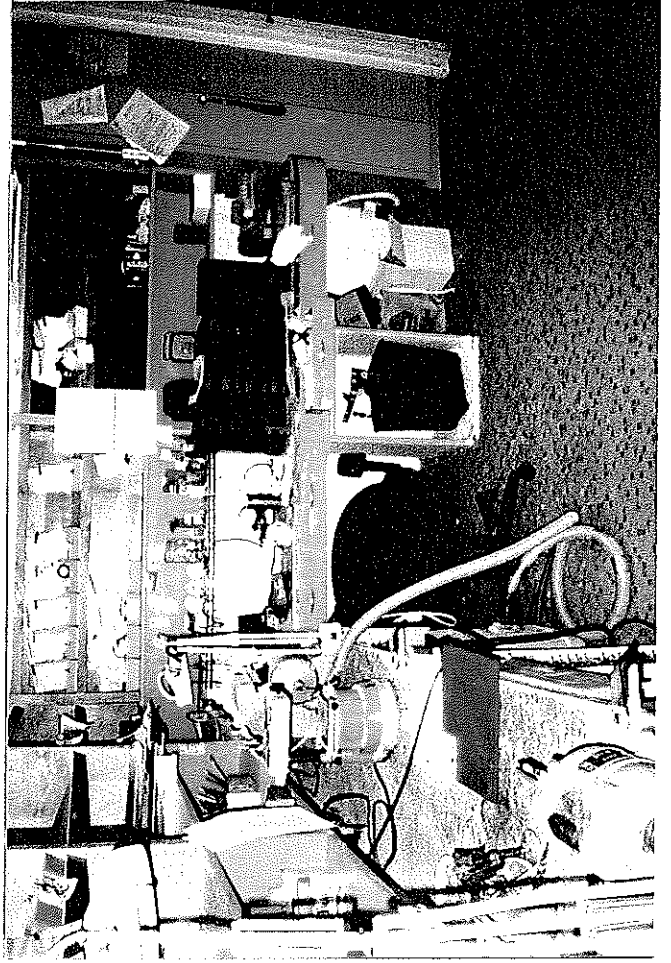
Picture No. 9



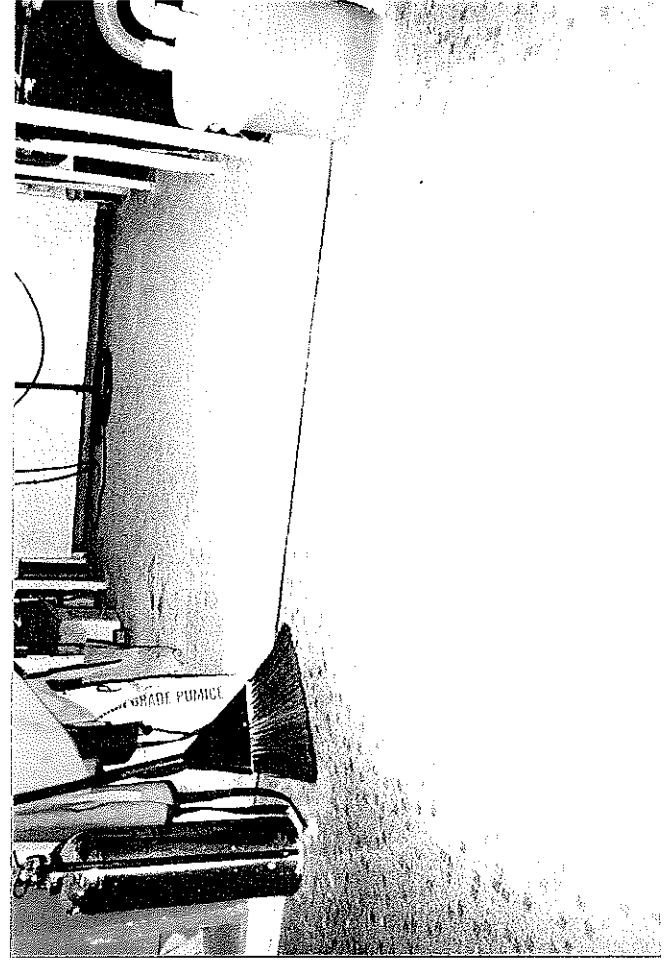
Picture No. 10



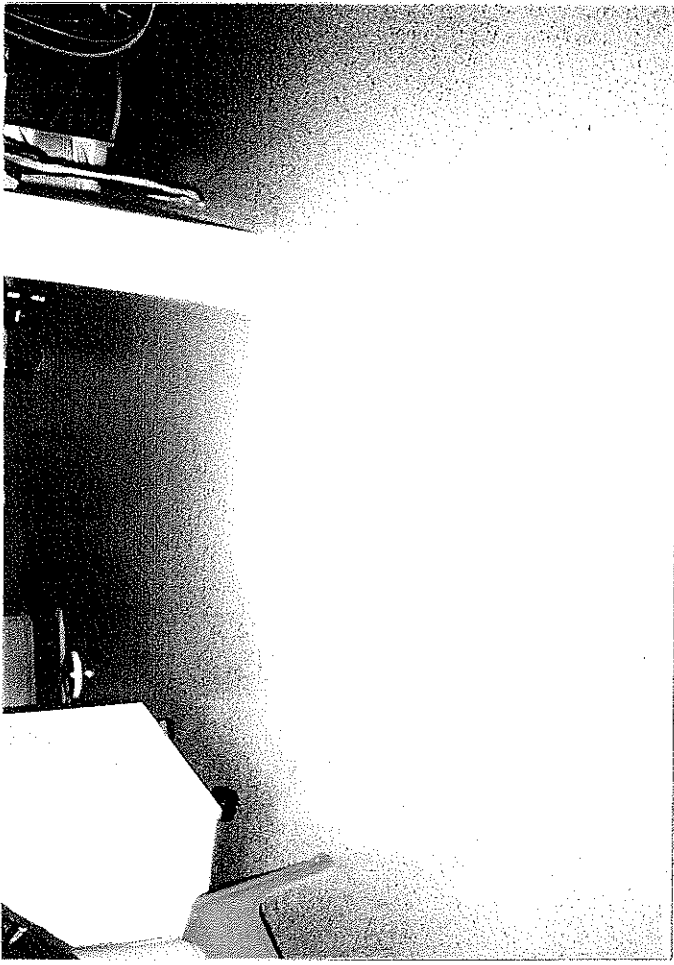
Picture No. 11



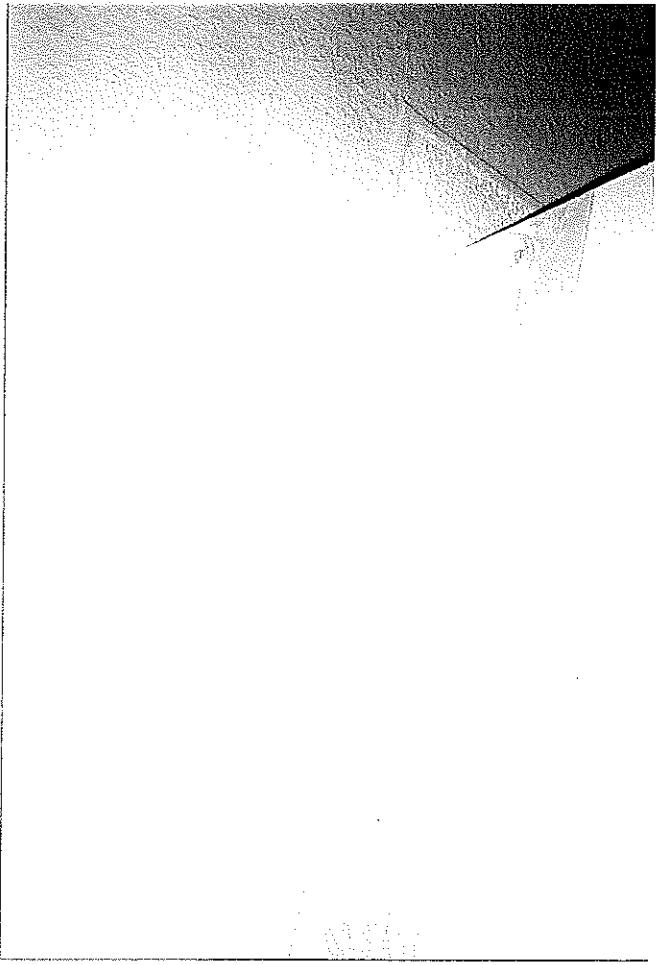
Picture No. 12



Picture No. 14



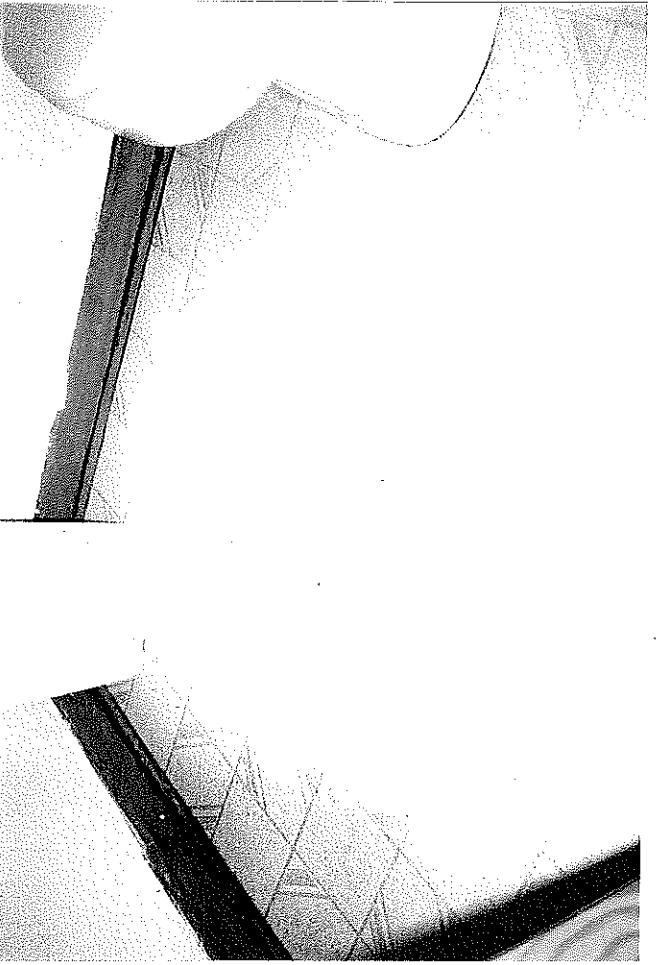
Picture No. 16



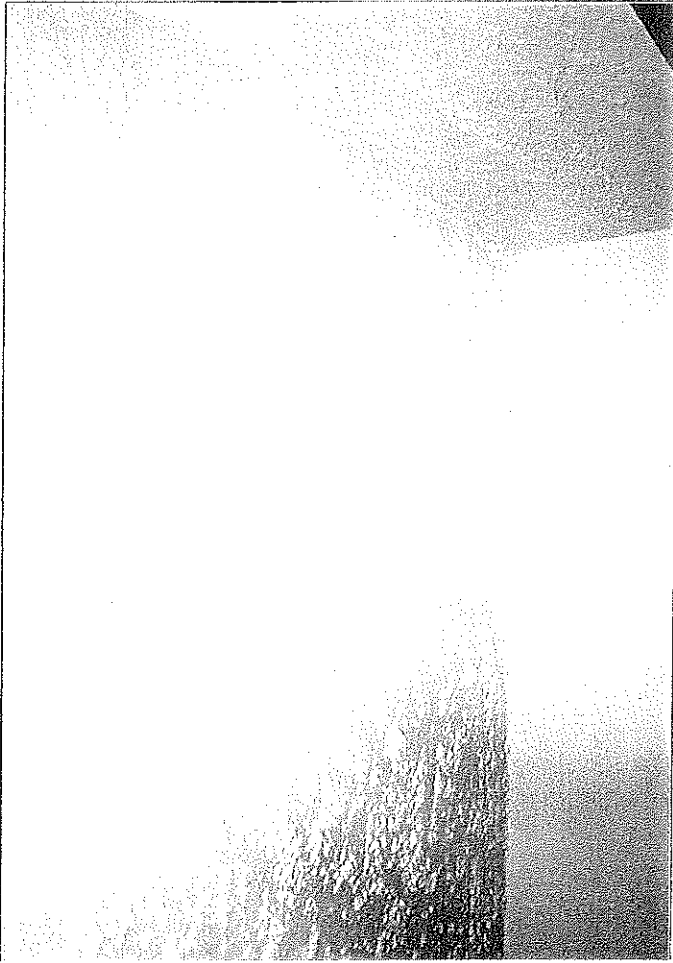
Picture No. 13



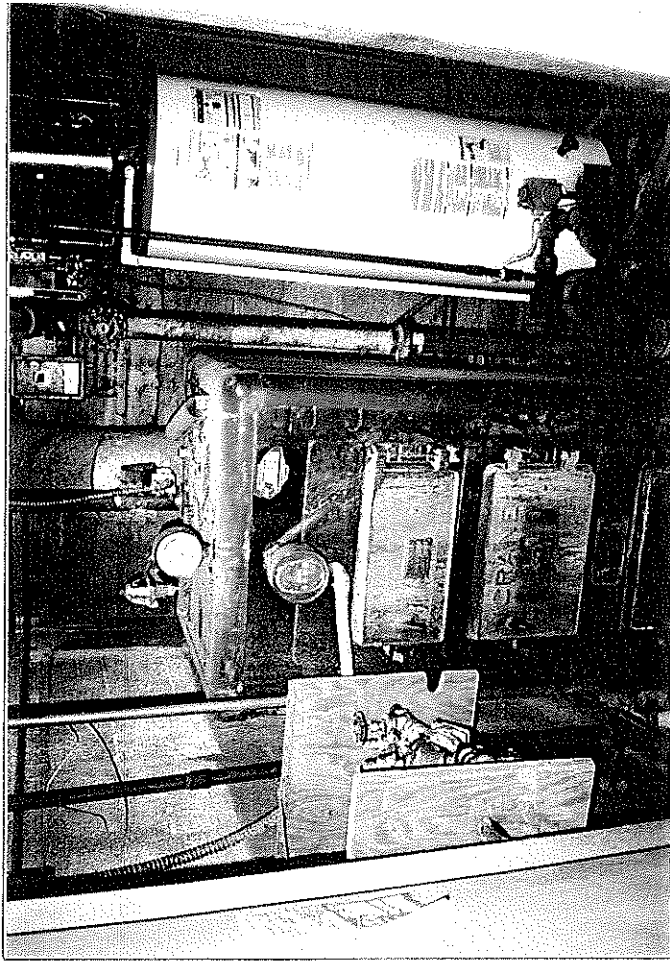
Picture No. 15



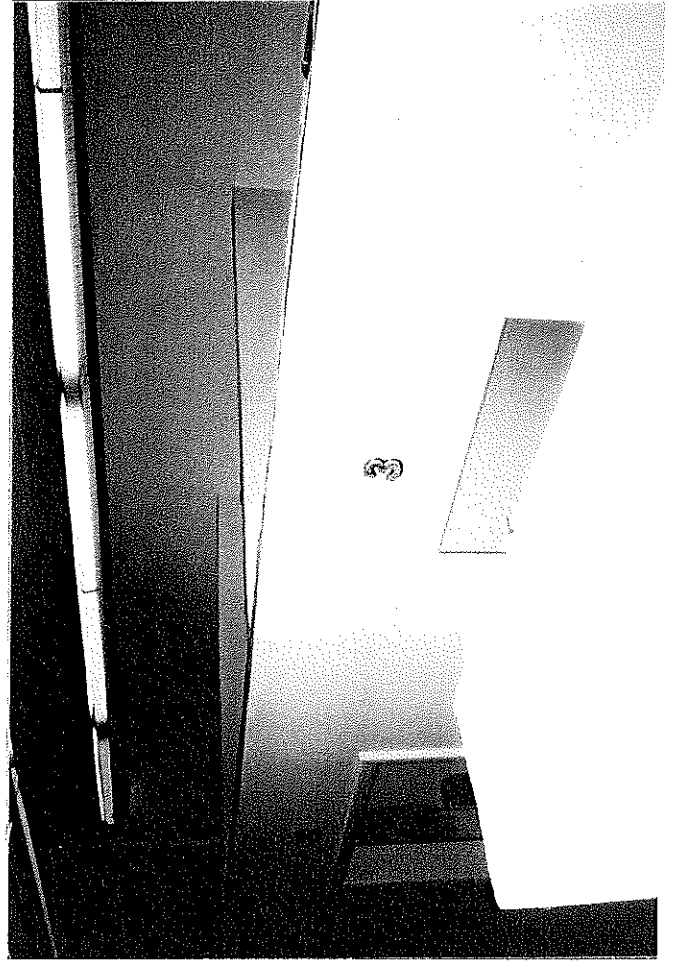
Picture No. 17



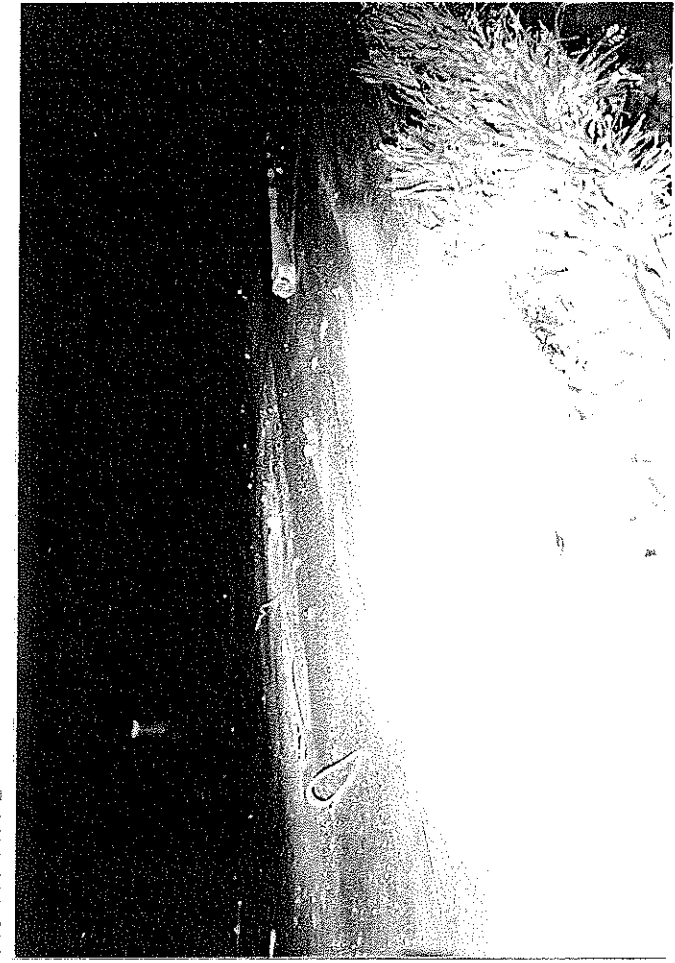
Picture No. 18



Picture No. 19



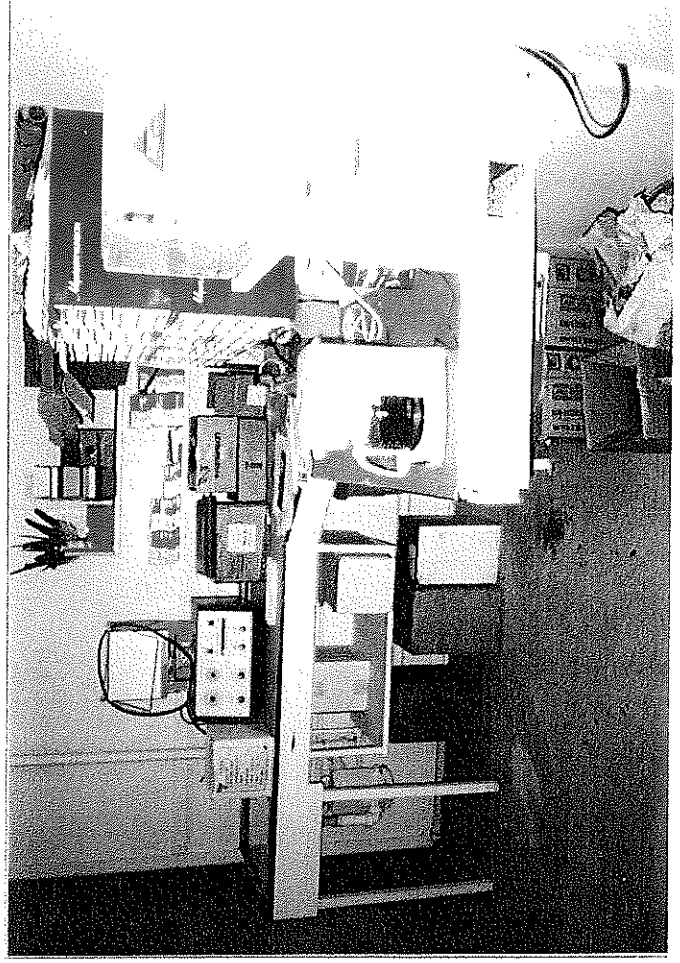
Picture No. 20



Picture No. 22



Picture No. 24



Picture No. 21



Picture No. 23



Picture No. 25





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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322965

Project ID: 1420-01

Page: 1 of 18

Sample Description:

Sample Number	Sample Date	Description
525-1*	01/13/97	Sheet vinyl, white/S entrance (with yellow mastic)
525-1 [A]	01/13/97	(sheet vinyl)
525-1 [a]	01/13/97	(mastic)
525-2*	01/13/97	Sheet vinyl, white/S entrance (with yellow mastic)
525-2 [A]	01/13/97	(sheet vinyl)

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-1*	525-1 [A]	525-1 [B]	525-2*	525-2 [A]
Asbestiform Minerals:					
Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	_____	_____	_____	_____
Tremolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
TOTAL ASBESTOS	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Other Fibrous Materials:					
Fibrous Glass	<u>10.0</u>	<u>10.0</u>	_____	<u>5.0</u>	<u>5.0</u>
Cellulose	<u>30.1</u>	<u>30.0</u>	<u>10.0</u>	<u>40.1</u>	<u>40.0</u>
Synthetics	<u>10.0</u>	<u>10.0</u>	_____	<u>5.0</u>	<u>5.0</u>
Other:	_____	_____	_____	_____	_____
Percent Nonfibrous Material	<u>49.9</u>	<u>50.0</u>	<u>90.0</u>	<u>49.9</u>	<u>50.0</u>

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Craig Bruno
 Craig Bruno

Date: 01/17/97



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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322965

Project ID: 1420-01

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Sample Description:

Sample Number	Sample Date	Description
525-2 (B)	01/13/97	[mastic]
525-3*	01/13/97	Sheet vinyl, white/S entrance [with yellow mastic]
525-3 (A)	01/13/97	[sheet vinyl]
525-3 (B)	01/13/97	[mastic]
525-4*	01/13/97	Sheet vinyl, grey/S entrance, under #1-3 [with yellow mastic]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-2 (B)	525-3*	525-3 (A)	525-3 (B)	525-4*
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Trochilolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass		5.0	5.0		5.0
Cellulose	10.0	40.1	40.0	10.0	40.1
Synthetics		5.0	5.0		5.0
Other:					
Percent Nonfibrous Material	90.0	49.9	50.0	90.0	49.9

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Craig Bruno

Date: 01/17/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322965

Project ID: 1420-01

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Sample Description:

Sample Number	Sample Date	Description
525-4 (A)	01/13/97	[sheet vinyl]
525-4 (B)	01/13/97	[mastic]
525-5*	01/13/97	Sheet vinyl, grev/S entrance, under #1-3 [with yellow mastic]
525-5 (A)	01/13/97	[sheet vinyl]
525-5 (B)	01/13/97	[mastic]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-4 [A]	525-4 [B]	525-5*	525-5 [A]	525-5 [B]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass	5.0		5.0	5.0	
Cellulose	40.0	10.0	40.1	40.0	10.0
Synthetics	5.0		5.0	5.0	
Other:					
Percent Nonfibrous Material	50.0	90.0	49.9	50.0	90.0

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Craig Bruno

Date: 01/17/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322965

Project ID: 1420-01

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Sample Description:

Sample Number	Sample Date	Description
525-6*	01/13/97	Sheet vinyl, grey/S entrance, under #1-3 (with yellow mastic)
525-6 [A]	01/13/97	(sheet vinyl)
525-6 [B]	01/13/97	(mastic)
525-7	01/13/97	Carpet mastic, tan carpet/S room, throughout (yellow)
525-8	01/13/97	Carpet mastic, tan carpet/S room, throughout (yellow)

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-6*	525-6 [A]	525-6 [B]	525-7	525-8
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Crocidolite					
Remolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass	5.0	5.0			
Cellulose	40.1	40.0	10.0	5.0	5.0
Synthetics	5.0	5.0		5.0	5.0
Other:					
Percent Nonfibrous Material	49.9	50.0	90.0	90.0	90.0

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Craig Bruno

Date: 01/17/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322965

Project ID: 1420-01

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Sample Description:

Sample Number	Sample Date	Description
525-9	01/13/97	Carpet mastic, tan carpet/S room, throughout (yellow)
525-10	01/13/97	Leveling compound/S room, throughout (with inseparable yellow mastic)
525-11	01/13/97	Leveling compound/S room, throughout (with inseparable yellow mastic)
525-12	01/13/97	Leveling compound/S room, throughout (with inseparable yellow mastic)
525-13*	01/13/97	9x9 floor tile, brown and tan/S room (3 parts)

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-9	525-10	525-11	525-12	525-13*
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Brocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	5.0				11.0
Synthetics	5.0				Trace <1%
Other:					
Percent Nonfibrous Material	90.0	100	100	100	88.8

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Craig Bruno Mike Scales

Date: 01/17/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322965

Project ID: 1420-01

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Sample Description:

Sample Number	Sample Date	Description
525-13 [A]	01/13/97	[brown/tan cork floor tile]
525-13 [B]	01/13/97	[brown mastic]
525-13 [C]	01/13/97	[black felt]
525-14*	01/13/97	9x9 floor tile, brown and tan/S room (3 parts)
525-14 [A]	01/13/97	[brown/tan cork floor tile]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-13 [A]	525-13 [B]	525-13 [C]	525-14*	525-14 [A]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	Trace <1%	Trace <1%	75.0	7.0	Trace <1%
Synthetics		Trace <1%	Trace <1%	Trace <1%	
Other:					
Percent Nonfibrous Material	99.9	99.8	24.9	92.9	99.9

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/17/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322965

Project ID: 1420-01

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-14 [B]	01/13/97	[brown mastic]
525-14 [C]	01/13/97	[black felt]
525-15*	01/13/97	9x9 floor tile, brown and tan/S room (2 parts)
525-15 [A]	01/13/97	[brown/tan cork floor tile]
525-15 [B]	01/13/97	[brown mastic with inseparable black felt]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

<u>Sample Number:</u>	<u>525-14 [B]</u>	<u>525-14 [C]</u>	<u>525-15*</u>	<u>525-15 [A]</u>	<u>525-15 [B]</u>
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Trochilolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	<u>1.0</u>	<u>75.0</u>	<u>1.0</u>		<u>10.0</u>
Synthetics		<u>Trace <1%</u>			
Other:					
Percent Nonfibrous Material	<u>99.0</u>	<u>24.9</u>	<u>99.0</u>	<u>100</u>	<u>90.0</u>

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst:

Mike Scales

Date: 01/17/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: **Three Rivers Environmental**

CLIENT: Three Rivers LGN: 322965

Project ID: 1420-01

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-16*	01/13/97	Felt backing of 9x9 floor tile/S room (4 parts)
525-16 [A]	01/13/97	[black felt]
525-16 [B]	01/13/97	[brown mastic]
525-16 [C]	01/13/97	[tan cork material]
525-16 [D]	01/13/97	[grayish brown mastic with inseparable wood]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	<u>525-16*</u>	<u>525-16 [A]</u>	<u>525-16 [B]</u>	<u>525-16 [C]</u>	<u>525-16 [D]</u>
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Crocidolite					
Premolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	56.7	70.0	Trace <1%		6.0
Synthetics					
Other:					
Percent Nonfibrous Material	43.3	30.0	99.9	100	94.0

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/17/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322965

Project ID: 1420-01

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Sample Description:

Sample Number	Sample Date	Description
525-17*	01/13/97	Felt backing of 9x9 floor tile/S room [3 parts]
525-17 [A]	01/13/97	[black felt]
525-17 [B]	01/13/97	[brown mastic with inseparable tan cork material]
525-17 [C]	01/13/97	[grayish brown mastic with inseparable wood]
525-18*	01/13/97	Felt backing of 9x9 floor tile/S room [4 parts]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-17*	525-17 [A]	525-17 [B]	525-17 [C]	525-18*
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	55.0	75.0	Trace <1%	8.0	39.4
Synthetics					
Other:					
Percent Nonfibrous Material	45.0	25.0	99.9	92.0	60.6

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/17/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LABORATORY NUMBER: 1420-LGN: 322965

Project ID: 1420-01

Page: 10 of 18

Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-18 [A]	01/13/97	[black felt]
525-18 [B]	01/13/97	[brown mastic]
525-18 [C]	01/13/97	[tan cork material]
525-18 [D]	01/13/97	[grayish brown mastic with inseparable tan material]
525-19*	01/13/97	Covebase mastic/S room, throughout [5 parts]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

	<u>Sample Number: 525-18 [A]</u>	<u>525-18 [B]</u>	<u>525-18 [C]</u>	<u>525-18 [D]</u>	<u>525-19*</u>
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					Trace <1%
Crocidolite					
Fremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	Trace <1%
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	75.0	Trace <1%		3.0	Trace <1%
Synthetics					
Other:					4.0
Percent Nonfibrous Material	25.0	99.9	100	97.0	95.7

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/17/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322965

Project ID: 1420-01

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-19 [A]	01/13/97	[white/tan mastic]
525-19 [B]	01/13/97	[beige cove base]
525-19 [C]	01/13/97	[brown mastic]
525-19 [D]	01/13/97	[dark brown mastic]
525-19 [E]	01/13/97	[white joint compound-like material]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

	<u>Sample Number: 525-19 [A]</u>	<u>525-19 [B]</u>	<u>525-19 [C]</u>	<u>525-19 [D]</u>	<u>525-19 [E]</u>
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					2.0
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	2.0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose			Trace <1%		1.0
Synthetics					
Other:				20.0	
				Talc	
Percent Nonfibrous Material	100	100	99.9	80.0	97.0

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/17/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: **Three Rivers Environmental**

LGN: **322965**

Project ID: **1420-01**

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-20*	01/13/97	Covebase mastic/S room, throughout (3 parts)
525-20 [A]	01/13/97	[white/tan mastic]
525-20 [B]	01/13/97	[brown mastic]
525-20 [C]	01/13/97	[black felt]
525-21*	01/13/97	Covebase mastic/S room, throughout (3 parts)

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	<u>525-20*</u>	<u>525-20 [A]</u>	<u>525-20 [B]</u>	<u>525-20 [C]</u>	<u>525-21*</u>
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	<u>1.0</u>		<u>Trace <1%</u>	<u>65.0</u>	<u>Trace <1%</u>
Synthetics					<u>Trace <1%</u>
Other:					
Percent Nonfibrous Material	<u>99.0</u>	<u>100</u>	<u>99.9</u>	<u>35.0</u>	<u>99.8</u>

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/17/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322965

Project ID: 1420-01

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-21 [A]	01/13/97	[white mastic]
525-21 [B]	01/13/97	[tan mastic]
525-21 [C]	01/13/97	[brown mastic]
525-22	01/13/97	Sheet vinyl, beige white gold/SE mid hallway [with inseparable tan mastic]
525-23	01/13/97	Sheet vinyl, beige white gold/mid E lab [Not analyzed, group method]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

	<u>Sample Number: 525-21 [A]</u>	<u>525-21 [B]</u>	<u>525-21 [C]</u>	<u>525-22</u>	<u>525-23</u>
Asbestiform Minerals:					Not Analyzed
Amosite					
Anthophyllite					
Chrysotile				20.0	
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	20.0	
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	Trace <1%				
Synthetics	Trace <1%				
Other:					
Percent Nonfibrous Material	99.8	100	100	80.0	

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/17/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: **Three Rivers Environmental**

LGN: **322965**

Project ID: **1420-01**

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-24	01/13/97	Sheet vinyl, beige white gold/W closet [Not analyzed, group method]
525-25*	01/13/97	Mastic of 1x1 ceiling tile/throughout (2 parts)
525-25 [A]	01/13/97	[brown mastic]
525-25 [B]	01/13/97	[tan fibrous material]
525-26*	01/13/97	Mastic of 1x1 ceiling tile/throughout (2 parts)

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-24	525-25*	525-25 [A]	525-25 [B]	525-26*
Asbestiform Minerals: Not Analyzed					
Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	_____	_____	_____	_____
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
TOTAL ASBESTOS	_____	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass	_____	_____	_____	_____	_____
Cellulose	_____	15.0	Trace <1%	75.0	16.0
Synthetics	_____	_____	_____	_____	_____
Other:	_____	Trace <1%	_____	Trace <1%	_____
				Spider web	
Percent Nonfibrous Material	_____	84.9	99.9	24.9	84.0

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/17/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322965

Project ID: 1420-01

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-26 [A]	01/13/97	[brown mastic]
525-26 [B]	01/13/97	[tan fibrous material]
525-27*	01/13/97	Mastic of 1x1 ceiling tile/throughout [2 parts]
525-27 [A]	01/13/97	[brown mastic]
525-27 [B]	01/13/97	[tan fibrous material]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-26 [A]	525-26 [B]	525-27*	525-27 [A]	525-27 [B]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Brocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	Trace <1%	65.0	13.0	Trace <1%	65.0
Synthetics					
Other:					
Percent Nonfibrous Material	99.9	35.0	87.0	99.9	35.0

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
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Client: Three Rivers Environmental

LGN: 322965

Project ID: 1420-01

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-28	01/13/97	Plaster, lath and plaster/throughout outer walls and above ceiling [with paint]
525-29	01/13/97	Plaster, lath and plaster/throughout outer walls and above ceiling [with paint]
525-30	01/13/97	Plaster, lath and plaster/throughout outer walls and above ceiling [with paint]
525-31	01/13/97	Mastic on air ducts/above 1st ceiling [with inseparable yellow insulation]
525-32	01/13/97	Mastic on air ducts/above 1st ceiling [with inseparable yellow insulation]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-28	525-29	525-30	525-31	525-32
Asbestiform Minerals:					
Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	_____	_____	_____	_____
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass	_____	_____	_____	20.0	50.0
Cellulose	Trace <1%	Trace <1%	Trace <1%	Trace <1%	Trace <1%
Synthetics	_____	_____	_____	_____	_____
Other:	Trace <1%	Trace <1%	Trace <1%	_____	_____
	Hair	Hair	Hair		
Percent Nonfibrous Material	99.8	99.8	99.8	79.9	49.9

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322965

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-33	01/13/97	Mastic on aug ducts above 1st ceiling [with inseparable yellow insulation]
525-34*	01/13/97	Sheet vinyl, white with beige splouches/W restroom [2 parts]
525-34 (A)	01/13/97	[white/beige sheet vinyl]
525-34 (B)	01/13/97	[tan mastic]
525-35	01/13/97	Sheet vinyl, white with beige splouches/W restroom [Not analyzed, group method]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

	<u>Sample Number: 525-33</u>	<u>525-34*</u>	<u>525-34 (A)</u>	<u>525-34 (B)</u>	<u>525-35</u>
Asbestiform Minerals:					Not Analyzed
Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	22.5	25.0	_____	_____
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
TOTAL ASBESTOS	0	22.5	25.0	0	_____
Other Fibrous Materials:					
Fibrous Glass	60.0	_____	_____	_____	_____
Cellulose	Trace <1%	_____	_____	_____	_____
Synthetics	_____	_____	_____	_____	_____
Other:	_____	_____	_____	_____	_____
Percent Nonfibrous Material	39.9	77.5	75.0	100	_____

* Composite analysis (multilayered sample, see individual layer analyses).

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322965

Project ID: 1420-01

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-36	01/13/97	Sheet vinyl, white with beige splouches/W restroom (Not analyzed, group method)

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number: 525-36

Asbestiform Minerals: Not Analyzed

Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	_____	_____	_____	_____
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
TOTAL ASBESTOS	_____	_____	_____	_____	_____

Other Fibrous Materials:

Fibrous Glass	_____	_____	_____	_____	_____
Cellulose	_____	_____	_____	_____	_____
Synthetics	_____	_____	_____	_____	_____
Other:	_____	_____	_____	_____	_____

Percent Nonfibrous Material	_____	_____	_____	_____	_____
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* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-37*	01/13/97	Sheet vinyl, white square pattern/breakroom [3 parts]
525-37 [A]	01/13/97	[white sheet vinyl]
525-37 [B]	01/13/97	[tan mastic]
525-37 [C]	01/13/97	[tan sealant]
525-38*	01/13/97	Sheet vinyl, white square pattern/breakroom [3 parts]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-37*	525-37 [A]	525-37 [B]	525-37 [C]	525-38*
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass	6.1	6.0		Trace <1%	8.0
Cellulose	14.2	15.0	1.0	Trace <1%	12.2
Synthetics	4.1	4.0		Trace <1%	Trace <1%
Other:					
Percent Nonfibrous Material	75.6	75.0	99.0	99.7	79.7

* Composite analysis (multilayered sample, see individual layer analyses).

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-38 [A]	01/13/97	[white sheet vinyl]
525-38 [B]	01/13/97	[tan mastic]
525-38 [C]	01/13/97	[tan sealant]
525-39*	01/13/97	Sheet vinyl, white square pattern/breakroom (2 parts)
525-39 [A]	01/13/97	[white sheet vinyl]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

	<u>Sample Number: 525-38 [A]</u>	<u>525-38 [B]</u>	<u>525-38 [C]</u>	<u>525-39*</u>	<u>525-39 [A]</u>
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass	8.0			3.0	3.0
Cellulose	12.0	5.0	Trace <1%	9.1	10.0
Synthetics			Trace <1%	2.0	2.0
Other:					
Percent Nonfibrous Material	80.0	95.0	99.8	85.9	85.0

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-39 [B]	01/13/97	[tan sealant]
525-40*	01/13/97	Sheet vinyl, grey with blue and tan square/cast room [3 parts]
525-40 [A]	01/13/97	[grey/blue sheet vinyl]
525-40 [B]	01/13/97	[tan mastic]
525-40 [C]	01/13/97	[white material]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-39 [B]	525-40*	525-40 [A]	525-40 [B]	525-40 [C]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Procidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass		5.0	5.0		
Cellulose	Trace <1%	14.1	15.0	Trace <1%	
Synthetics					
Other:					
Percent Nonfibrous Material	99.9	80.9	80.0	99.9	100

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/20/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

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Sample Description:

Sample Number	Sample Date	Description
525-41*	01/13/97	Sheet vinyl, grey with blue and tan square/cast room [3 parts]
525-41 [A]	01/13/97	[grey/blue sheet vinyl]
525-41 [B]	01/13/97	[tan mastic]
525-41 [C]	01/13/97	[white material]
525-42	01/13/97	Sheet vinyl, grey with blue and tan square/cast room [with inseparable tan mastic]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-41*	525-41 [A]	525-41 [B]	525-41 [C]	525-42
Asbestiform Minerals:					
Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	_____	_____	_____	_____
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass	5.0	5.0	_____	_____	5.0
Cellulose	15.1	15.0	_____	Trace <1%	12.0
Synthetics	_____	_____	_____	_____	_____
Other:	_____	_____	_____	_____	_____
Percent Nonfibrous Material	79.9	80.0	100	99.9	83.0

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/20/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

Project ID: 1420-01

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Sample Description:

Sample Number	Sample Date	Description
525-43*	01/13/97	9x9 floor tile, white/rooms E of east room [2 parts]
525-43 [A]	01/13/97	[white floor tile]
525-43 [B]	01/13/97	[black mastic]
525-44	01/13/97	9x9 floor tile, white/rooms E of east room [Not analyzed, group method]
525-45	01/13/97	9x9 floor tile, white/rooms E of east room [Not analyzed, group method]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number: 525-43*	525-43 [A]	525-43 [B]	525-44	525-45
Asbestiform Minerals:			Not Analyzed	Not Analyzed
Amosite				
Anthophyllite				
Chrysotile	11.6	12.0		
Crocidolite				
Tremolite-Actinolite				
TOTAL ASBESTOS	11.6	12.0	0	
Other Fibrous Materials:				
Fibrous Glass				
Cellulose	Trace <1%		1.0	
Synthetics				
Other:				
Percent Nonfibrous Material				
	88.3	88.0	99.0	

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/20/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

Project ID: 1420-01

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-46	01/13/97	Mastic of 9x9 white floor tile/rooms E of cast room
525-47	01/13/97	Mastic of 9x9 white floor tile/rooms E of cast room [Not analyzed, group method]
525-48	01/13/97	Mastic of 9x9 white floor tile/rooms E of cast room [Not analyzed, group method]
525-49*	01/13/97	9x9 floor tile, black with green str/room NE of 43-48 [2 parts]
525-49 [A]	01/13/97	[black/green floor tile]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-46	525-47	525-48	525-49*	525-49 [A]
Asbestiform Minerals:		Not Analyzed	Not Analyzed		
Amosite					
Anthophyllite					
Chrysotile	25.0			25.1	25.0
Crocidolite					
Remolite-Actinolite					
TOTAL ASBESTOS	25.0			25.1	25.0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose					
Synthetics					
Other:					
Percent Nonfibrous Material	75.0			74.9	75.0

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike ScalesDate: 01/20/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-49 [B]	01/13/97	[black mastic]
525-50	01/13/97	9x9 floor tile, black with green str/room NE of 43-48 [Not analyzed, group method]
525-51	01/13/97	9x9 floor tile, black with green str/room NE of 43-48 [Not analyzed, group method]
525-52	01/13/97	Mastic of 9x9 black with green str FT/room NE of 43-48
525-53	01/13/97	Mastic of 9x9 black with green str FT/room NE of 43-48 [Not analyzed, group method]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-49 [B]	525-50	525-51	525-52	525-53
Asbestiform Minerals:		Not Analyzed	Not Analyzed		Not Analyzed
Amosite					
Anthophyllite					
Chrysotile	30.0			30.0	
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	30.0			30.0	
Other Fibrous Materials:					
Fibrous Glass					
Cellulose				Trace <1%	
Synthetics					
Other:					
Percent Nonfibrous Material	70.0			69.9	

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/20/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

Project ID: 1420-01

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-54	01/13/97	Mastic of 9x9 black with green str in room NE of 43-44 [Not analyzed, group method]
525-55*	01/13/97	Sheet vinyl, grey white and black/far E, old dent rms 15 parts]
525-55 [A]	01/13/97	[grey/white/black sheet vinyl with inseparable tan mastic]
525-55 [B]	01/13/97	[white floor tile]
525-55 [C]	01/13/97	[black mastic]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-54	525-55*	525-55 [A]	525-55 [B]	525-55 [C]
Asbestiform Minerals: Not Analyzed					
Amosite					
Anthophyllite					
Chrysotile		Trace <1%		10.0	
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS		Trace <1%	0	10.0	0
Other Fibrous Materials:					
Fibrous Glass		3.0	4.0		
Cellulose		14.1	18.0		Trace <1%
Synthetics		2.0	2.0		
Other:		Trace <1%		2.0	
Talc					
Percent Nonfibrous Material		80.7	76.0	88.0	99.9

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst:

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Date: 01/20/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-55 [D]	01/13/97	[tan cork material]
525-55 [E]	01/13/97	[white sealant-like material]
525-56	01/13/97	Sheet vinyl, grey white and black/far E, cild dent rxs [Not analyzed, group method]
525-57	01/13/97	Sheet vinyl, grey white and black/far E, cild dent rxs [Not analyzed, group method]
525-58*	01/13/97	Sheet vinyl, beige with square/E restroom [2 parts]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

	Sample Number: 525-55 [D]	525-55 [E]	525-56	525-57	525-58*
Asbestiform Minerals:			Not Analyzed	Not Analyzed	
Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	_____	_____	_____	_____
Crocidolite	_____	_____	_____	_____	_____
Remolite-Actinolite	_____	_____	_____	_____	_____
TOTAL ASBESTOS	0	0	_____	_____	0
Other Fibrous Materials:					
Fibrous Glass	_____	_____	_____	_____	5.0
Cellulose	_____	_____	_____	_____	20.1
Synthetics	_____	_____	_____	_____	_____
Other:	_____	_____	_____	_____	_____
Percent Nonfibrous Material	100	100	_____	_____	74.9

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike ScalesDate: 01/20/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-58 [A]	01/13/97	[beige sheet vinyl]
525-58 [B]	01/13/97	[tan mastic]
525-59*	01/13/97	Sheet vinyl, beige with square/E restroom [3 parts]
525-59 [A]	01/13/97	[beige sheet vinyl]
525-59 [B]	01/13/97	[tan mastic]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number: 525-58 [A] 525-58 [B] 525-59* 525-59 [A] 525-59 [B]

Asbestiform Minerals:

Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	_____	Trace <1%	_____	_____
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
TOTAL ASBESTOS	0	0	Trace <1%	0	0

Other Fibrous Materials:

Fibrous Glass	5.0	_____	3.0	3.0	_____
Cellulose	20.0	1.0	11.2	12.0	Trace <1%
Synthetics	_____	_____	_____	_____	_____
Other:	_____	_____	_____	_____	_____

**Percent Nonfibrous
 Material**

75.0	99.0	85.6	85.0	99.9
------	------	------	------	------

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/20/97

Analytica Solutions, Inc.
 325 Interlocken Parkway
 Suite 200
 Broomfield, CO 80021
 (303) 469-8868
 (800) 873-8707
 FAX: (303) 469-5254

**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

Project ID: 1420-01

Page: 11 of 20

Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-59 [C]	01/13/97	[black mastic]
525-60*	01/13/97	Sheet vinyl, beige with square/E restroom [3 parts]
525-60 [A]	01/13/97	[beige sheet vinyl]
525-60 [B]	01/13/97	[tan mastic]
525-60 [C]	01/13/97	[black mastic]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-59 [C]	525-60*	525-60 [A]	525-60 [B]	525-60 [C]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile	15.0	Trace <1%			6.0
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	15.0	Trace <1%	0	0	6.0
Other Fibrous Materials:					
Fibrous Glass		3.1	3.0	1.0	
Cellulose	1.0	15.2	15.0	4.0	2.0
Synthetics		Trace <1%			Trace <1%
Other:					
Percent Nonfibrous Material	84.0	81.5	82.0	95.0	91.9

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike ScalesDate: 01/20/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

Project ID: 1420-01

Page: 12 of 20

Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-61	01/13/97	Plaster, walls and ceilings/E section
525-62	01/13/97	Plaster, walls and ceilings/E section
525-63	01/13/97	Plaster, walls and ceilings/E section
525-64	01/13/97	Acoustical surfacing ceiling mat, popcorn/men and wom rx
525-65	01/13/97	Acoustical surfacing ceiling mat, popcorn/men and wom rx

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-61	525-62	525-63	525-64	525-65
Asbestiform Minerals:					
Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	_____	_____	_____	_____
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass	_____	_____	_____	_____	_____
Cellulose	_____	_____	_____	_____	_____
Synthetics	_____	_____	_____	_____	_____
Other:	_____	_____	_____	_____	_____
Percent Nonfibrous Material	100	100	100	100	100

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/20/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

Project ID: 1420-01

Page: 13 of 20

Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-66	01/13/97	Acoustical surfacing ceiling mat, popcorn/mer and wcm rr
525-67	01/13/97	Furnace lining/furnace room [light gray aircell insulation]
525-68	01/13/97	Furnace lining/furnace room [Not analyzed, group method]
525-69	01/13/97	Furnace lining/furnace room [Not analyzed, group method]
525-70*	01/13/97	Drywall, taping compound/throughout bldg walls (3 parts)

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-66	525-67	525-68	525-69	525-70*
Asbestiform Minerals:			Not Analyzed	Not Analyzed	
Amosite					
Anthophyllite					
Chrysotile		80.0			
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	80.0			0
Other Fibrous Materials:					
Fibrous Glass					Trace <1%
Cellulose		2.0			7.0
Synthetics					
Other:					
Percent Nonfibrous Material	100	18.0			92.9

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/20/97

Analytica Solutions, Inc.

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

Project ID: 1420-01

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-70 [A]	01/13/97	[white/tan drywall]
525-70 [B]	01/13/97	[white taping compound]
525-70 [C]	01/13/97	[white plaster]
525-71*	01/13/97	Drywall, taping compound/throughout bldg walls [3 parts]
525-71 [A]	01/13/97	[white/tan drywall]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number: 525-70 [A] 525-70 [B] 525-70 [C] 525-71* 525-71 [A]

Asbestiform Minerals:

Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	_____	_____	_____	_____
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
TOTAL ASBESTOS	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Other Fibrous Materials:

Fibrous Glass	<u>Trace <1%</u>	_____	_____	<u>Trace <1%</u>	<u>Trace <1%</u>
Cellulose	<u>8.0</u>	_____	_____	<u>7.0</u>	<u>10.0</u>
Synthetics	_____	_____	_____	_____	_____
Other:	_____	_____	_____	_____	_____

Percent Nonfibrous

Material	<u>91.9</u>	<u>100</u>	<u>100</u>	<u>92.9</u>	<u>89.9</u>
----------	-------------	------------	------------	-------------	-------------

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: _____

Mike Scales

Date: 01/20/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

Project ID: 1420-01

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-71 [B]	01/13/97	[white taping compound]
525-71 [C]	01/13/97	[white plaster]
525-72*	01/13/97	Drywall, taping compound/throughout bldg walls [3 parts]
525-72 [A]	01/13/97	[white/tan drywall]
525-72 [B]	01/13/97	[white taping compound]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number: 525-71 [B] 525-71 [C] 525-72* 525-72 [A] 525-72 [B]

Asbestiform Minerals:

Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	_____	_____	_____	_____
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
TOTAL ASBESTOS	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Other Fibrous Materials:

Fibrous Glass	_____	_____	<u>Trace <1%</u>	<u>Trace <1%</u>	_____
Cellulose	_____	_____	<u>18.0</u>	<u>20.0</u>	_____
Synthetics	_____	_____	_____	_____	_____
Other:	_____	_____	_____	_____	_____

Percent Nonfibrous
 Material

<u>100</u>	<u>100</u>	<u>81.9</u>	<u>79.9</u>	<u>100</u>
------------	------------	-------------	-------------	------------

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/20/97

Analytica Solutions, Inc.

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

Project ID: 1420-01

Page: 16 of 20

Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-72 [C]	01/13/97	(white cluster)
525-73	01/13/97	2x2 ceiling tile/SE dental rm
525-74	01/13/97	2x2 ceiling tile/SE dental rm
525-75	01/13/97	2x2 ceiling tile/SE dental rm
525-76*	01/13/97	Built up roofing/N side of bldg [2 parts]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-72 [C]	525-73	525-74	525-75	525-76*
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					20.3
Crocidolite					
Remolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	20.3
Other Fibrous Materials:					
Fibrous Glass		35.0	30.0	30.0	2.0
Cellulose		35.0	40.0	40.0	7.0
Synthetics					
Other:					
Percent Nonfibrous Material	100	30.0	30.0	30.0	70.7

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike ScalesDate: 01/20/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

Project ID: 1420-01

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-76 [A]	01/13/97	{black felt}
525-76 [B]	01/13/97	{brown felt}
525-77	01/13/97	Built up roofing/N side of bldg [Not analyzed, group method]
525-78	01/13/97	Built up roofing/N side of bldg [Not analyzed, group method]
525-79*	01/13/97	Roofing material/N side of bldg [2 parts]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-76 [A]	525-76 [B]	525-77	525-78	525-79*
Asbestiform Minerals:			Not Analyzed	Not Analyzed	
Amosite					
Anthophyllite					
Chrysotile		45.0			
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	45.0			0
Other Fibrous Materials:					
Fibrous Glass		5.0			10.0
Cellulose	Trace <1%	15.0			15.0
Synthetics					
Other:					
Percent Nonfibrous Material	99.9	35.0			75.0

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: _____

Mike Scales

Date: 01/20/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

Project ID: 1420-01

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Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-79 [A]	01/13/97	[white grit shingle]
525-79 [B]	01/13/97	[black tar]
525-80*	01/13/97	Roofing material/N side of bldg [2 parts]
525-80 [A]	01/13/97	[white grit shingle]
525-80 [B]	01/13/97	[black tar]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-79 [A]	525-79 [B]	525-80*	525-80 [A]	525-80 [B]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass	20.0		6.0	15.0	
Cellulose		30.0	21.0		35.0
Synthetics					
Other:					
Percent Nonfibrous Material	80.0	70.0	73.0	85.0	65.0

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/20/97

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**RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
 POLARIZED LIGHT MICROSCOPY (PLM)**

Client: Three Rivers Environmental

LGN: 322966

Project ID: 1420-01

Page: 19 of 20

Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-81*	01/13/97	Roofing material (N side of bldg (2 parts)
525-81 [A]	01/13/97	[white grit shingle]
525-81 [B]	01/13/97	[black tar]
525-82*	01/13/97	Exterior wall surfacing (N wall of bldg (2 parts)
525-82 [A]	01/13/97	[white plaster]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-81*	525-81 [A]	525-81 [B]	525-82*	525-82 [A]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile				1.5	
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	1.5	0
Other Fibrous Materials:					
Fibrous Glass	7.0	20.0			
Cellulose	23.0	Trace <1%	35.0		
Synthetics					
Other:				Trace <1%	Trace <1%
					Spider web
Percent Nonfibrous Material	70.0	79.9	65.0	98.4	99.9

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/20/97

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY
POLARIZED LIGHT MICROSCOPY (PLM)

Client: Three Rivers Environmental

LGN: 322966

Project ID: 1420-01

Page: 20 of 20

Sample Description:

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-82 [B]	01/13/97	[black tar]
525-83	01/13/97	Exterior wall surfacing/N wall of bldg [Not analyzed, group method]
525-84	01/13/97	Exterior wall surfacing/N wall of bldg [Not analyzed, group method]

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	525-82 [B]	525-83	525-84
Asbestiform Minerals:		Not Analyzed	Not Analyzed
Amosite			
Anthophyllite			
Chrysotile	25.0		
Crocidolite			
Tremolite-Actinolite			
TOTAL ASBESTOS	25.0		
Other Fibrous Materials:			
Fibrous Glass			
Cellulose			
Synthetics			
Other:			
Percent Nonfibrous Material	75.0		

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Mike Scales

Date: 01/20/97

A.H.E.R.A.

THIS IS TO CERTIFY THAT

JEFF SMITH

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE
for
ASBESTOS INSPECTOR/MANAGEMENT PLANNER
REFRESHER

Course date: 09/19/96
Course location: Seattle, Washington
Certificate: RF-96-7811
Social Security #: 543-92-7811

Expiration Date: 09/19/97

AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)



For verification of the authenticity of this certificate contact: PBS Environmental
1220 SW Morrison, Portland, OR 97205
(503) 248-1939

This refresher certificate is given in conjunction with the original course certificate.

A handwritten signature in cursive script that reads "David Stover".

A.H.E.R.A.

THIS IS TO CERTIFY THAT

JEFF SMITH

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE
for
ASBESTOS INSPECTOR/MANAGEMENT PLANNER
REFRESHER

Course date: 09/21/95
Course location: Seattle, Washington
Certificate: PDR-95-7811
Social Security #: 543-92-7811

Expiration Date: 09/21/96

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David Stover

A.H.E.R.A.

THIS IS TO CERTIFY THAT

JEFF SMITH

HAS ATTENDED

**AHERA INSPECTOR/MANAGEMENT PLANNER
REFRESHER**

TRAINING COURSE

Expiration date: 09/22/95

Course date: 09/22/94

Course location: Kent, Washington

Certificate: RF-94-7811

Social Security #: 543-92-7811

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Control Act (TSCA)



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**INSPECTOR/MANAGEMENT PLANNER
REFRESHER**

TRAINING COURSE

Expiration date: 09/23/94

Course date: 09/23/93

Course location: Seattle, Washington

Certificate: RF-93-7811

Social Security #: 543-92-7811

ASBESTOS HAZARD
EMERGENCY RESPONSE ACT ENACTING
TITLE II OF TOXIC SUBSTANCE
CONTROL ACT (TSCA)



**ENVIRONMENTAL
BUILDING CONSULTANTS, INC**

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(503) 248-1939

A.H.E.R.A.

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JEFF SMITH

HAS ATTENDED

**ASBESTOS
INSPECTOR/MANAGEMENT PLANNER
REFRESHER
TRAINING COURSE**

Expiration date: 9/25/93

Course date: 9/25/92

Course location: Seattle, WA

Certificate: RF-92-7811

Social Security #: 543-92-7811

This refresher course certificate
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A.H.E.R.A.

THIS IS TO CERTIFY THAT

JEFF SMITH

HAS ATTENDED

**ASBESTOS
INSPECTOR/MANAGEMENT PLANNER
REFRESHER
TRAINING COURSE**

Expiration date: 9/23/92

Course date: 9/23/91

Course location: Seattle, WA

Certificate: RF-91-7811

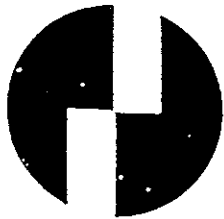
Social Security #: 543-92-7811

This refresher course certificate
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Hall-Kimbrell
Environmental Services, Inc.

Asbestos Management Planner
Initial Training Course

Jeff Smith

543-92-7811

has successfully completed the EPA-Approved Asbestos Management Planner Initial Training Course for purposes of accreditation required under section 206 of Title II of the Toxic Substances Control Act (TSCA). Conducted by Hall-Kimbrell Environmental Services, Inc.
4840 W. 15th Street, Lawrence, KS 66049, 800-346-2860/913-841-8034.

Location *Portland, Oregon*

Examination *September 21, 1990*

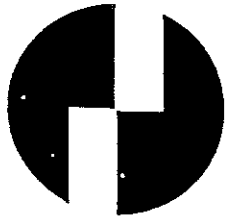
Course *September 20 - September 21, 1990*

Expiration *September 21, 1991*

Director of Training

Alina Shatt

Certificate Number *7HKP00798*



Hall-Kimbrell
Environmental Services, Inc.

Asbestos Inspector
Initial Training Course

Jeff Smith

543-92-7811

has successfully completed the EPA-Approved Asbestos Inspector Initial Training Course for purposes of accreditation required under section 206 of Title II of the Toxic Substances Control Act (TSCA). Conducted by Hall-Kimbrell Environmental Services, Inc. 4840 W. 15th Street, Lawrence, KS 66049, 800-346-2860/913-841-8034.

Location **Portland, Oregon**

Examination **September 19, 1990**

Course **September 17 - September 19, 1990**

Expiration **September 19, 1991**

Director of Training

Alan Skant

Certificate Number **7HK101066**

A.H.E.R.A.

THIS IS TO CERTIFY THAT

DARREN D. LEE

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE
for
ASBESTOS INSPECTOR/MANAGEMENT PLANNER
REFRESHER

Course date: 09/19/96

Course location: Seattle, Washington

Certificate: RF-96-7523

Social Security #: 535-86-7523



PBS
ENVIRONMENTAL

Expiration Date: 09/19/97

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(503) 248-1939

A.H.E.R.A.

THIS IS TO CERTIFY THAT

DARREN LEE

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE AND EXAM
for
ASBESTOS INSPECTOR/MANAGEMENT PLANNER

Course date: 09/25-29/95
Course location: Portland, Oregon
Certificate: PD-95-7523
Social Security #: 525-66-7523

Expiration Date: 09/29/96

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For verification of the authenticity of this certificate contact: PBS Environmental
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(503) 248-1939

A handwritten signature in black ink, appearing to read "Darren Lee".

APPENDIX 2

RESULTS - LEAD BASED PAINT

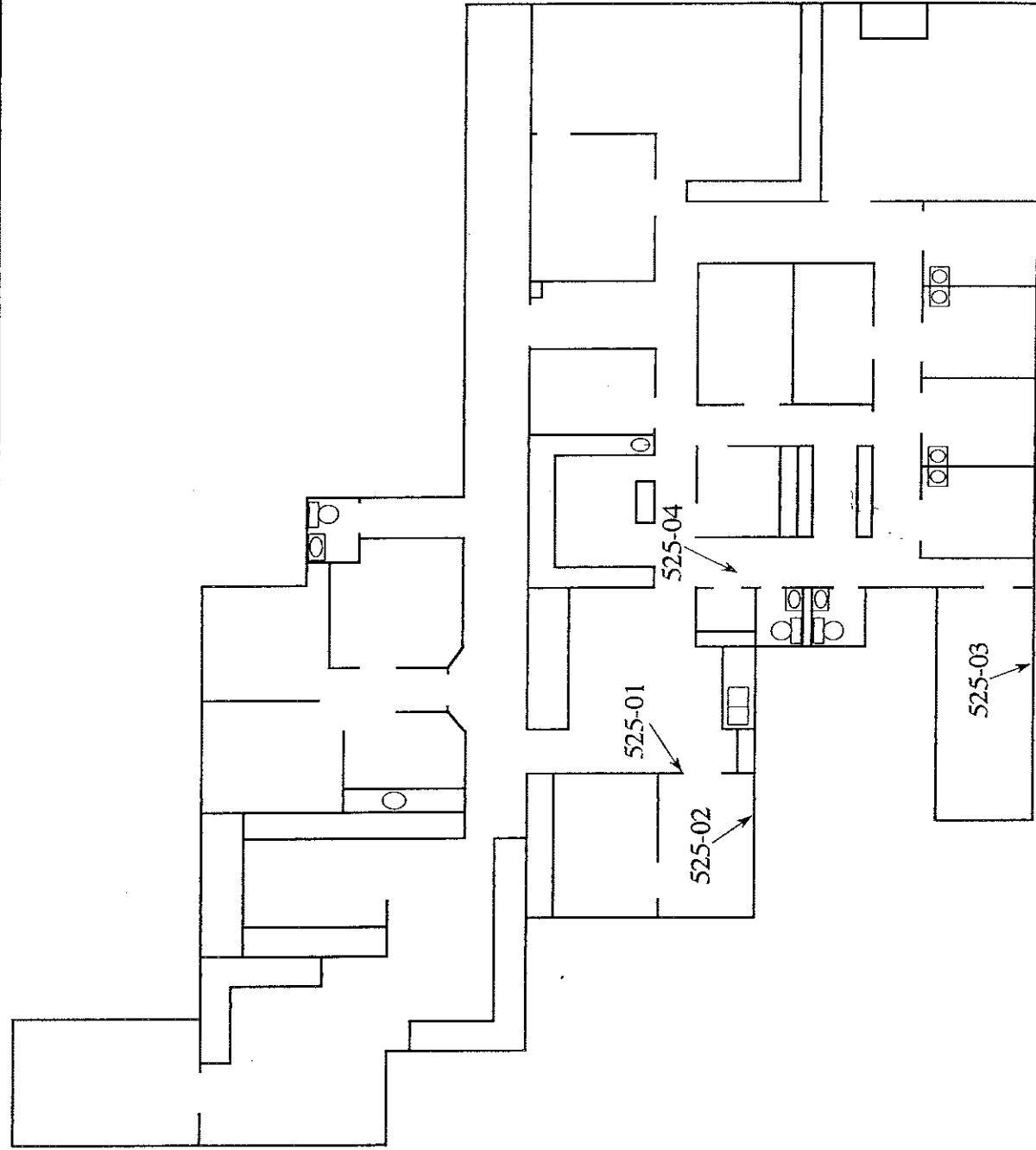
Lead Paint Sample Inventory Sheet

Sample #	Material Description	Sample Location	Sample Type	Photo #	Lead %
525-01	Paint white & green	Kitchen Door Frame	Chip	1	.0%
525-02	Paint white & green	Laundry N.W. Wall	Chip	2	0.126%
525-03	Paint yellow, white & green	Records Storage N.W. Wall	Chip	3	0.396%
525-04	Paint yellow	Above Ceiling N.W. Hallway	Chip	4	1.885%

Federal Lead Standards: Lead Paint: 1.0 mg/cm² or 5,000ug/g (0.5% by weight)

Dust Levels for Lead Hazard Screen (wipe samples): 50ug/ft²

Referring to the U.S. Department of Housing and Urban Development (HUD) guidelines, Title X of the Housing and Community Development Act of 1992.



DATE: 1/97
 DRWN BY: DDL
 DGRM #: 1420-01

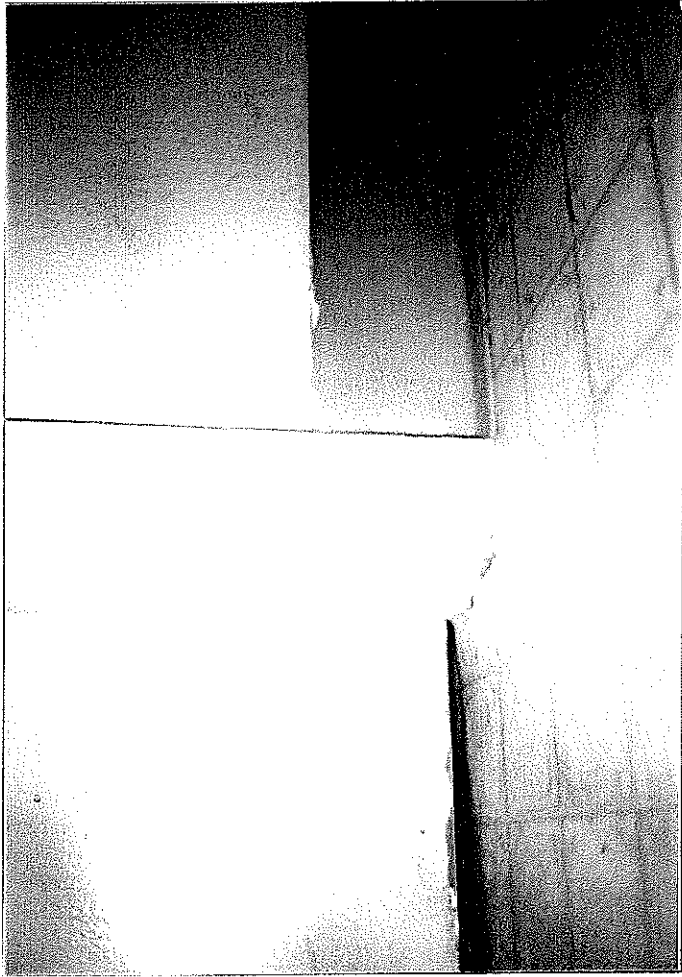
Asbestos Survey Report
GOODMAN BUILDING
 525 Court Street NE Salem, Oregon 97301
 Project #: 1420-01

LEAD PAINT SAMPLE LOCATIONS
DIAGRAM

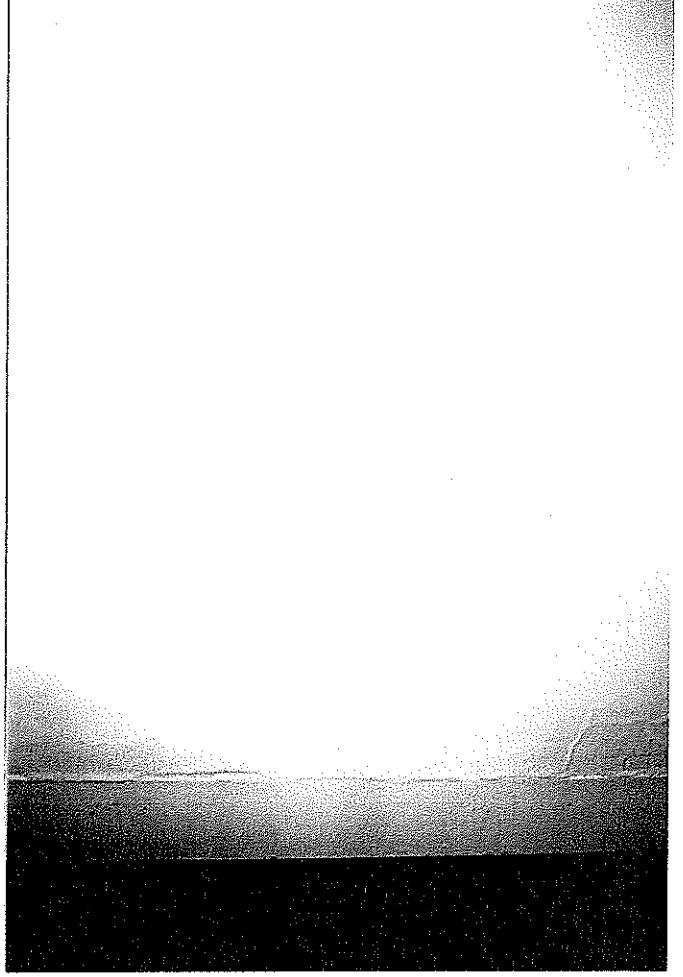
(Drawing Not to Scale)

THREE RIVERS
ENVIRONMENTAL
 P.O. Box 216 Gladstone, Oregon 97027 (503) 557-2396

Picture No. 1



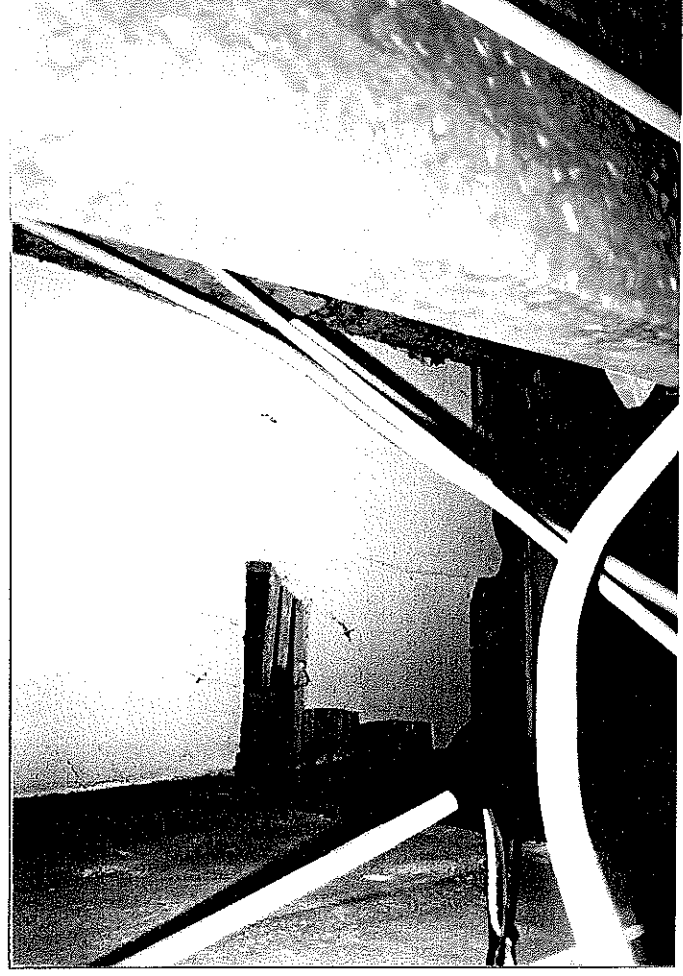
Picture No. 3



Picture No. 2



Picture No. 4



Analytica Solutions, Inc.
325 Interlocken Parkway
Suite 200
Broomfield, CO 80021
(303) 469-8868
(800) 873-8707
FAX: (303) 469-5254

RESULTS OF LEAD ANALYSIS BY
FLAME ATOMIC ABSORPTION
PAINT SAMPLE

Client: Three Rivers Environmental

LGN: 810092

Project ID: 1420-01

Page: 1 of 1

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
525-01	01/13/97	White and green, kitchen door jamb
525-02	01/13/97	White and green, laundry NW wall
525-03	01/13/97	Yellow, white, green, records storage NW wall
525-04	01/13/97	Yellow, wall above ceiling NW hallway

Results of LEAD Analysis:

<u>Sample Number</u>	<u>% By Weight</u>	<u>Detection Limit</u>
525-01	Not Detected	(0.008)
525-02	0.126	(0.009)
525-03	0.396	(0.009)
525-04	1.885	(0.020)

Analyst: Yong-Ming Ding

Date: 01/20/97

Oregon State University

Western Regional Lead Training Center

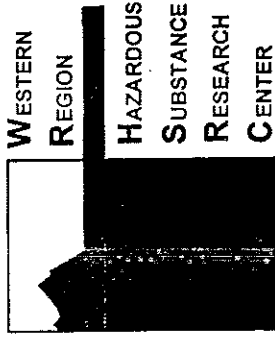
in recognition that

Jeffrey Smith

has completed
EPA-Sponsored

Lead Inspector Training

24 training hours
November 18-20, 1996



Peter O. Nelson

Peter O. Nelson, PhD.
Program Director

Passed Final Exam
Certificate Number: 566

Oregon State University

Western Regional Lead Training Center

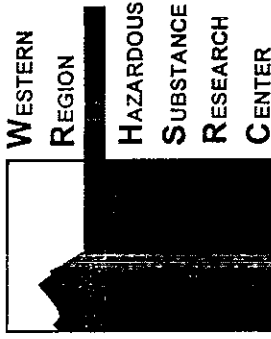
in recognition that

Jeffrey Smith

has completed
EPA-Sponsored

Lead-based Paint Risk Assessment Training

16 training hours
November 21-22, 1996



Peter O. Nelson

Peter O. Nelson, PhD.
Program Director

Passed Final Exam
Certificate Number: 591

Oregon State University

Western Regional Lead Training Center

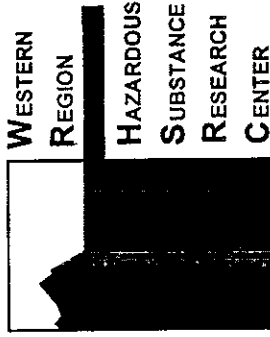
in recognition that

Darren Lee

has completed
EPA-Sponsored

Lead Inspector Training

24 training hours
November 18-20, 1996



Peter O. Nelson

Peter O. Nelson, PhD.
Program Director

Passed Final Exam
Certificate Number: 555

Oregon State University

Western Regional Lead Training Center

in recognition that

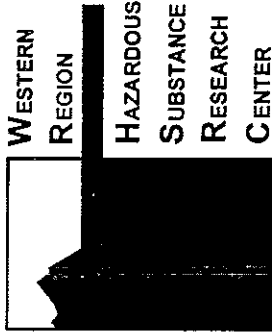
Darren Lee

has completed
EPA-Sponsored

Lead-based Paint Risk Assessment Training

16 training hours

November 21-22, 1996



Peter O. Nelson

Peter O. Nelson, PhD.
Program Director

Passed Final Exam
Certificate Number: 583

APPENDIX 3

RESULTS - HAZARDOUS MATERIALS



Always Ready

February 10, 1997

Ms Kathleen Thorpe
Century West Engineering
1593 Clay St. NE
Salem, OR 97301

Dear Kathleen:

The purpose of this survey is to assess and document the fluorescent lightballasts and other hazardous materials present in the Lui and Goodman Buildings. The survey was made during the time period of January 28 - February 3, 1997. The majority of the space in the buildings on this property is currently being occupied.

The survey has been broken down into the various section of these buildings. In many cases, a single location has several identical fixtures. In these cases only one fixture was sampled, thus reducing the amount of time spent on this survey, the disruption to tenants, and the possible damage to fixtures. Each fixture that appeared to be different was individually checked.

The Goodman Building is a one story dental office. A functioning dental laboratory occupies a portion of the property, containing chemicals and resins.

The Lui Building is a two story building containing a Wine shop, Liquor Store, and an small apartment complex. Please see the following chart showing breakdown of materials found per section.

Please feel free to contact myself or Rich Janecsek, if you have any further questions, at (503) 283-1150. Thank you for the opportunity to work with you, once again.

Environmentally yours,

A handwritten signature in black ink, appearing to read "Bob Asmussen", written in a cursive style.

Bob Asmussen
Foss Environmental Services

LIU BUILDING

	FEATURES	POB +	POB -	BULBS	REFRIGERATOR	A/C	PAINT RELATED MATERIALS	CAUSTIC CLEANERS
APARTMENTS	2	0	3	3	12	17	2	1
WINE SHOP	5	0	9	20	0	0	8	3
LIQUOR STORE	35	0	70	136	0	3	0	0

GOODMAN BUILDING

	FEATURES	POB +	POB -	BULBS	REFRIGERATOR	A/C	PAINT RELATED MATERIALS	CAUSTIC CLEANERS
MAIN FLOOR	37	25	42	125	2	2	0	0