

# ASBESTOS BUILDING INSPECTION

LOCATION:

**WEIGAND HALL  
3051 SW CAMPUS WAY  
CORVALLIS, OR 97331**

NOVEMBER 28, 2008

FORENSIC ANALYTICAL PROJECT NO. PJ6286

PREPARED FOR:

**OREGON STATE UNIVERSITY  
127 OAK CREEK BUILDING  
CORVALLIS, OR 97331**

PREPARED BY:



Forensic Analytical Consulting Services, Inc.  
Portland Office  
17400 SW Upper Boones Ferry Road, Suite 245  
Portland, OR 97224  
503/595.1001

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## 1.0 INTRODUCTION

Forensic Analytical Consulting Services, Inc. (Forensic Analytical) was awarded the contract to provide asbestos survey services to the Oregon University System on March 4, 2008 (OUS RFP #2008-01). The RFP required specific field and reporting protocols which were fully integrated into the final proposal.

Forensic Analytical has entered into a Sub-Consultant agreement with G2 Consultants, Inc. (G2) of Lake Oswego, Oregon, to perform all field sampling, report writing, AutoCAD diagramming and to create electronic deliverables for all buildings scheduled to receive asbestos surveys on the Oregon State University campus. All reports and deliverables will be created using a Forensic Analytical reporting format.

This Subcontractor relationship was approved by both the Oregon University System and Oregon State University prior to the commencement of work.

G2 has subsequently performed an inspection to identify asbestos-containing building materials at the property located at 3051 SW Campus Way, Corvallis, OR. Dan Rouse, Noal Kraft, and Robin Sharpe conducted the field investigation on October 27, 2008 at the direction of Andrew Gray of Oregon State University.

The purpose of the inspection is to determine whether ACM is present in the structures onsite. The subject property consists of a two-story structure totaling 57,957 sq. ft.

This report presents the results of the asbestos inspection conducted by G2 for the above referenced project. Results of the inspection are summarized in Appendix A.

Drawings depicting ACM and sample locations are presented in Appendix B. A detailed laboratory report and chain of custody forms are contained in Appendix C.

At the request of OSU, sample data from previous asbestos surveys conducted by Hall-Kimbrell are being utilized as part of Forensic Analytical's comprehensive survey. Only friable materials were sampled and analyzed in the Hall-Kimbrell survey. Any materials found to contain asbestos in the previous survey is shown on the ACM locations diagram of this report. Sample locations in the previous survey are not shown on the Forensic Analytical sample locations diagram. The previous survey can be found in Appendix F of this report.

Positive materials identified in the previous survey as well as areas of damage noted may have been abated since the time of the previous survey. It is assumed that the positive materials, such as thermal system insulation, are still present in interstitial spaces. Areas of damage observed during the Forensic Analytical fieldwork will be noted in a separate detailed report. A brief description and location of any damaged materials found in the subject property can be found in Section 3.0.

## 2.0 FINDINGS

The results of the samples indicate that asbestos was detected at the site. A complete table of the samples taken and materials assumed to contain asbestos can be found in Appendix A.

### 3.0 RECOMMENDATIONS

Materials for which sample analysis by PLM results in greater than one percent asbestos (for any one sample collected from a homogeneous material) are classified as ACM under regulations promulgated by, but not limited to, the following agencies: federal EPA and federal OSHA.

The agencies use the following definitions:

Federal EPA (Oregon DEQ): materials containing greater than one percent asbestos are ACM

Federal OSHA (OR-OSHA): materials containing greater than one percent asbestos are ACM

For detailed regulatory requirements in specific situations, Forensic Analytical should be consulted, or the applicable regulations should be examined.

All materials identified were classified by condition. Materials in "Good" condition should be maintained in place following the OR-OSHA operations and maintenance requirements. Materials in "Fair" condition should have patch and repair activities performed to address any damaged areas. Materials in "Poor" condition should be addressed through removal, repair and/or encapsulation.

### 4.0 METHODS

Materials suspected of containing asbestos were sampled in accordance with the federal EPA AHERA protocols. Materials determined by the inspector to be non-suspect, such as wood, metal, glass, and fiberglass insulation, were not sampled. Destructive sample techniques were not used during the inspection. Additional suspect building materials may be present in areas that were inaccessible, unsafe to inspect, or obscured from view during the inspection process.

Suspect materials were grouped and classified as homogeneous materials based on their appearance, usage, and age of the building. Representative samples of each homogeneous material were collected for laboratory analysis. Where previous sample data exists, one confirming sample was collected of materials that previously tested positive. Additionally, where multiple samples of a given homogeneous material were collected, the set was analyzed to first positive.

The unique sample description ID was developed specifically for OSU. The sample ID includes; the OSU building ID; the homogeneous material number; followed by a unique material code (FT = Floor Tile); and lastly the sample number.

Samples were collected in such a manner as to minimize release of the material into the surroundings. Material type, sample number, sample location and other pertinent information were recorded at the time of sampling. Each sample was placed in a sample container labeled with a unique sample number and submitted to Forensic Analytical's NVLAP-accredited laboratory for analysis under chain of custody documentation. Samples were analyzed in accordance with EPA Method 600/R-93-116, using PLM with dispersion staining and using visual area estimation to determine percent asbestos content. This method allows for the identification of the primary types of asbestos used in building materials. The lower limit of detection for this method is one percent. Samples containing less than one percent asbestos by PLM with visual area estimation are reported as Trace.

## 5.0 LIMITATIONS

G2 did not inspect subsurface areas for asbestos. ACM such as underground waterproofing coatings, asbestos-cement water pipe, electrical ducts, or other subsurface materials or equipment may be present beneath the site. G2 did not disassemble building equipment; such as fans, ducts, elevator equipment, and electrical equipment. Consequently, equipment may contain untested gaskets, internal components, overspray of building materials and the like. It is also common for carpet to be installed over previously installed floor materials. If the aforementioned materials or any other untested suspect materials are encountered during construction or maintenance activities, they should be assumed to be asbestos-containing materials and not disturbed, unless sampling and analysis of the materials proves otherwise.

Every effort was made to inspect all accessible areas of the building. During the course of the inspection, G2 utilized the keys provided, as well as the assistance of our facilities contacts. However, on occasion, areas were not accessible by either. All areas were accessed in this building.

G2 has performed this asbestos sampling in accordance with generally accepted methods and practices of the profession, and consistent with that level of care and skill ordinarily exercised by reputable environmental consultants under similar conditions and circumstances. No other representation, guarantee or warranty, express or implied, is included or intended in this asbestos inspection report.

Respectfully submitted,



Dan Rouse  
G2 Consultants, Inc.

Reviewed by,



Noal Kraft  
G2 Consultants, Inc.

# **APPENDIX A**

## **COMPLETE SAMPLE INVENTORY**

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
Wgnd-01-CB-1	Cove Base, 4" Black, and Brown Adhesive	H101	-	ND	-	-
Wgnd-02-CM-1	Carpet Mastic, Yellow	100	-	ND	-	-
Wgnd-03-PL-1	Plaster	H102	-	ND	-	-
Wgnd-03-PL-2	Plaster	5	-	ND	-	-
Wgnd-03-PL-3	Plaster	115	-	ND	-	-
Wgnd-03-PL-4	Plaster	H203	-	ND	-	-
Wgnd-03-PL-5	Plaster	230	-	ND	-	-
Wgnd-03-PL-6	Plaster	238	-	ND	-	-
Wgnd-03-PL-7	Plaster	H102	-	ND	-	-
Wgnd-04-CT-1	Ceiling Tile, 12" x 12" Fissured w/ Pinholes	100	-	ND	-	-
Wgnd-05-CT-1	Ceiling Tile, 2' x 4' Gouged w/ Pinholes	100	-	ND	-	-
Wgnd-06-FT-1	Floor Tile, 9" x 9" Dark Brown w/ Cream and Red Streaks, and Black Mastic	H110	Throughout Building as Depicted on the ACM Drawings	5% Chrysotile Tile  ND Mastic	9,975 sq. ft.	Good

ND – Non-Detected

\* - This sample is part of a set in which another sample contains asbestos.

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
Wgnd-07-FT-1	Floor Tile, 9" x 9" Green w/ Light Green and Dark Green Specks, and Black Mastic	108	108, 108A, 108B, 124, 124A, 128, 128A, 128B	5% Chrysotile Tile  ND Mastic	835 sq. ft.	Good
Wgnd-08-SU-1	Sink Undercoating, Black	110	Throughout Building	15% Chrysotile	Not Quantified	Good
Wgnd-09-FT-1	Floor Tile, 12" x 12" White w/ Brown Specks, and Tan Mastic	H103	-	ND	-	-
Wgnd-10-FT-1	Floor Tile, 9" x 9" Light Brown w/ Brown and Cream Streaks, and Black Mastic	5	4, 5, 5A, 5B, 6	5% Chrysotile Tile  10% Chrysotile Mastic	1,315 sq. ft.	Good
Wgnd-11-FT-1	Floor Tile, 9" x 9" Dark Brown w/ Cream, Red and Green Streaks, and Black Mastic	115	115, 123, 2 <sup>nd</sup> Floor as Depicted on the ACM Drawing	5% Chrysotile Tile  ND Mastic	6,725 sq. ft.	Good
Wgnd-12-CT-1	Ceiling Tile, 12" x 12" Holes, and Brown Adhesive	114	-	ND	-	-
Wgnd-13-CT-1	Ceiling Tile, 12" x 12" Random Pinholes, and Brown Adhesive	5	-	ND	-	-
Wgnd-14-SU-1	Sink Undercoating, Grey	10	Throughout Building	7% Chrysotile	Not Quantified	Good
Wgnd-15-CT-1	Ceiling Tile, 12" x 12" Random Holes	9	-	ND	-	-
Wgnd-16-MAS-1	Mastic on Wall, Black	Former 19A, E Wall	-	ND	-	-

ND – Non-Detected

\* - This sample is part of a set in which another sample contains asbestos.



SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
Wgnd-17-FM-1	Cementitious Floor Material, Grey	120	-	ND	-	-
Wgnd-18-BF-1	Building Felt	Former 19D	-	ND	-	-
Wgnd-19-SU-1	Sink Undercoating, Black and Silver	4	Throughout Building	3% Chrysotile	Not Quantified	Good
Wgnd-20-FT-1	Floor Tile, 12" x 12" Light Brown w/ White, Orange and Brown Specks, and Tan Mastic	242	-	ND	-	-
Wgnd-21-SV-1	Sheet Vinyl, Off-white w/ Multicolored Specks	249	-	ND	-	-
Wgnd-22-INS-1	Blown-in Insulation	243	-	ND	-	-
Wgnd-23-FT-1	Floor Tile, 12" x 12" Light Grey Specked, and Tan Mastic	211A	-	ND	-	-
Wgnd-24-SV-1	Sheet Vinyl, White, Grey and Tan Specked	206	-	ND	-	-
Wgnd-25-CT-1	Ceiling Tile, 2' x 4' Fissured w/ Pinholes	H203	-	ND	-	-
Wgnd-26-SU-1	Sink Undercoating, White	230	-	ND	-	-
Wgnd-27-FT-1	Floor Tile, 12" x 12" Grey Specked, and Tan Mastic	238	-	ND	-	-
Wgnd-28-FT-1	Floor Tile, 12" x 12" Off White w/ Tan Specks, and Tan Mastic	Elevator	-	ND	-	-

ND – Non-Detected

\* - This sample is part of a set in which another sample contains asbestos.

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
Wgnd-29-FM-1	Floor Material, Tan Streaked	122	-	ND	-	-
Wgnd-30-CM-1	Carpet Mastic, Tan	220	-	ND	-	-
Previously Sampled	Pipe Insulation	As Shown in Previous Survey	As Shown in Previous Survey	As Shown in Previous Survey	Not Quantified	Fair to Good
Previously Sampled	Pipe Fitting Insulation	As Shown in Previous Survey	As Shown in Previous Survey	As Shown in Previous Survey	Not Quantified	Fair to Good
Previously Sampled	Exterior Duct Insulation	As Shown in Previous Survey	As Shown in Previous Survey	As Shown in Previous Survey	Not Quantified	Fair
Assumed	Cement Asbestos Countertops	Assumed	Throughout Building	Assumed	Not Quantified	Good
Assumed	Vent Hood Liners (Cement Asbestos Board)	Assumed	Throughout Building	Assumed	Not Quantified	Good

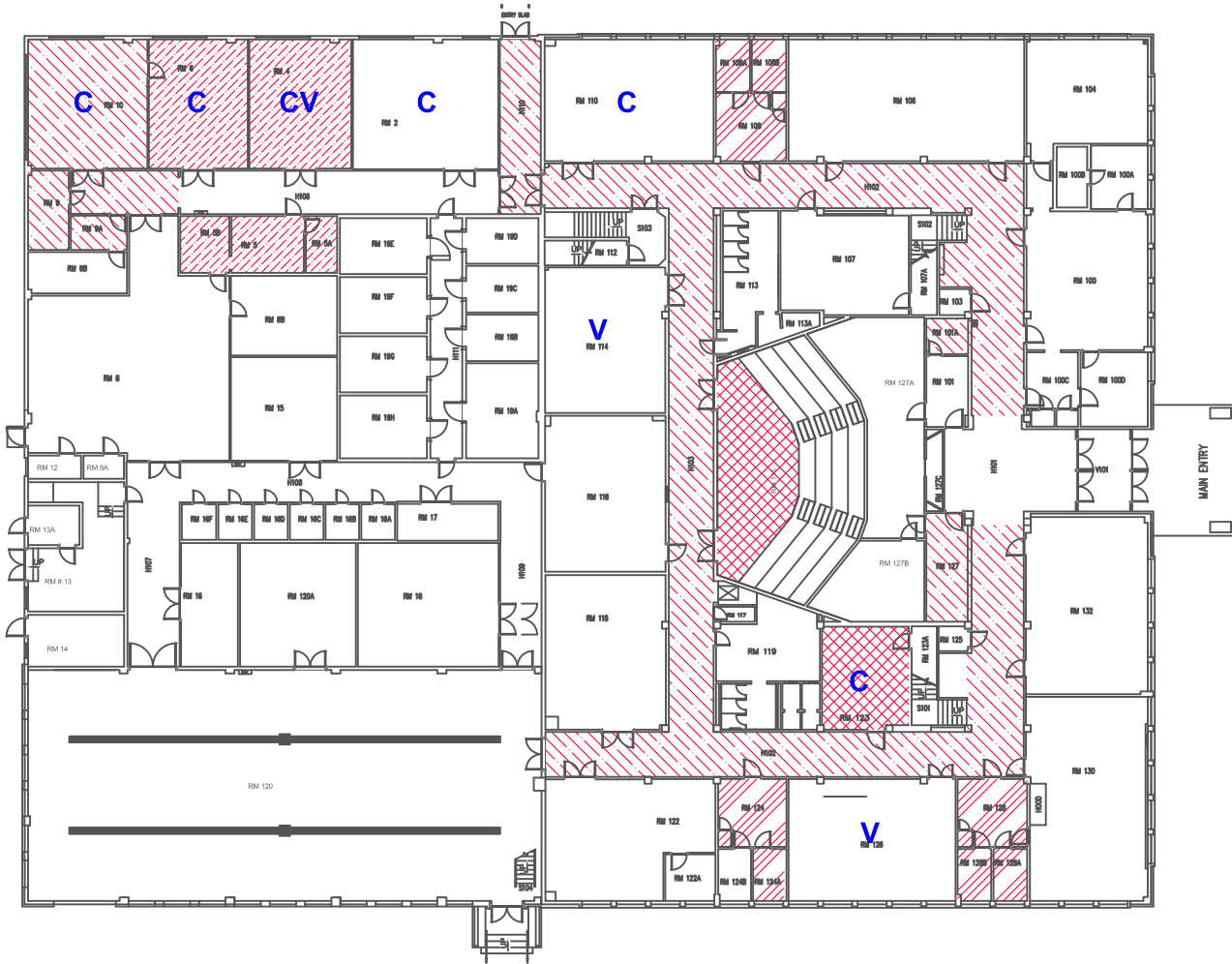
ND – Non-Detected

\* - This sample is part of a set in which another sample contains asbestos.

# **APPENDIX B**

**SITE DRAWING(S)**

# 1st Floor



- Floor Tile, 9" x 9" Dark Brown w/ Cream and Red Streaks
- Floor Tile, 9" x 9" Dark Brown w/ Cream, Red and Green Streaks
- Floor Tile, 9" x 9" Light Brown w/ Brown and Cream Streaks, and Black Mastic
- Floor Tile, 9" x 9" Green w/ Light Green and Dark Green Specks

- C** Cement Asbestos Countertops (Assumed)
- V** Vent Hood Liners (Cement Asbestos Board) (Assumed)

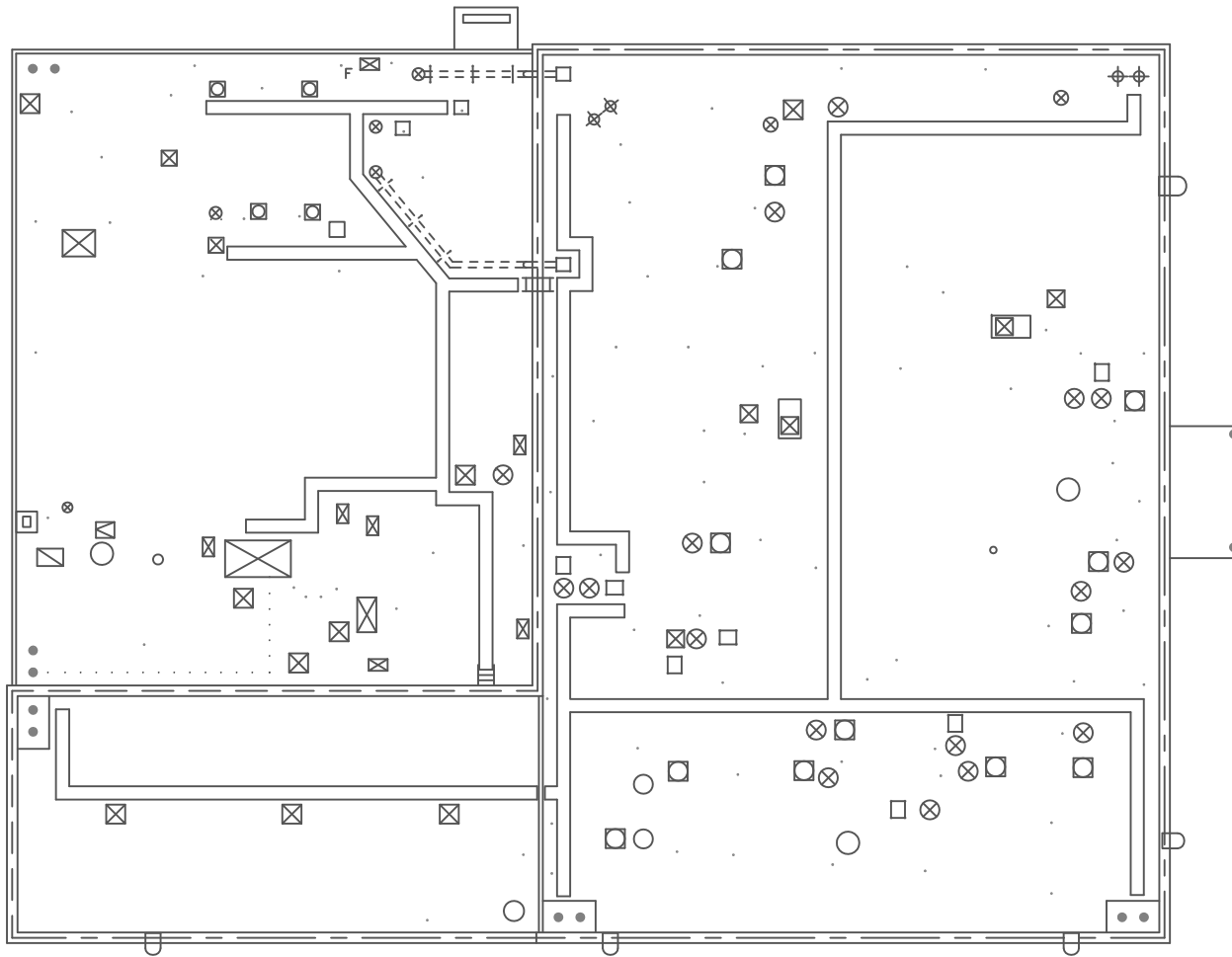
ACM not shown:  
 Pipe Insulation (Previously Sampled)  
 Pipe Fitting Insulation (Previously Sampled)  
 Exterior Duct Insulation (Previously Sampled)  
 Cement Asbestos Countertops (Assumed)  
 Vent Hood Liners (Cement Asbestos Board) (Assumed)  
 Slk Undercoating, Black  
 Slk Undercoating, Black and Silver  
 Slk Undercoating, Grey

Notes:  
 Asbestos-containing additional layers of floor materials may be present in areas not depicted on the diagrams.  
 Per OSU, the built-up roofing materials were not sampled. These materials must be sampled prior to impact to determine asbestos content.

<p>DATE: 11-28-08</p> <p>CLIENT: OSU Wiegand Hall PROCEDURE: Asbestos Mgmt LOCATION: Corvallis, Oregon 97331</p> <p>PROJECT #: PJ0286</p>	<p>DRN BY: RAS</p> <p>PAGE #: 13</p>	<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>																				
<p>Wiegand Hall 1st Floor ACM Locations</p>																						
<p>Report North</p> <p>No Scale</p>																						
<p>No Scale</p>																						
<p>Forensic Analytical                  17400 SW Upper Boones Ferry Road, Suite 245                  Portland, Oregon 97224                  503.955.1001                  503.955.1006 fax                  www.forensicanalytical.com</p>																						
<p>** - This material contains a trace amount of asbestos</p>																						



# Roof Plan



- Floor Tile, 9" x 9" Dark Brown w/ Cream and Red Streaks
- Floor Tile, 9" x 9" Dark Brown w/ Cream, Red and Green Streaks
- Floor Tile, 9" x 9" Light Brown w/ Brown and Cream Streaks, and Black Mastic
- Floor Tile, 9" x 9" Green w/ Light Green and Dark Green Specks

- C** Cement Asbestos Countertops (Assumed)
- V** Vent Hood Liners (Cement Asbestos Board) (Assumed)

ACM not shown:  
 Pipe Insulation (Previously Sampled)  
 Pipe Fitting Insulation (Previously Sampled)  
 Exterior Duct Insulation (Previously Sampled)  
 Cement Asbestos Countertops (Assumed)  
 Vent Hood Liners (Cement Asbestos Board) (Assumed)  
 Shk Undercoating, Black  
 Shk Undercoating, Black and Silver  
 Shk Undercoating, Grey

**Notes:**

Asbestos-containing additional layers of floor materials may be present in areas not depicted on the diagrams.

Per OSU, the built-up roofing materials were not sampled. These materials must be sampled prior to impact to determine asbestos content.

DATE: 11-28-08  
 DRN: RAS  
 RAS  
 PAGE #: 3/3

CLIENT: OSU  
 PROJECT: Wiegand Hall  
 LOCATION: Corvallis, Oregon 97331  
 PROJECT #: PJ0286

This is a single sheet and is not to be used as a reference for the entire project. It is not intended to be used as a substitute for the full report. It is not intended to be used as a substitute for the full report. It is not intended to be used as a substitute for the full report.

REVISIONS

**Wiegand Hall  
 Roof Plan  
 ACM Locations**

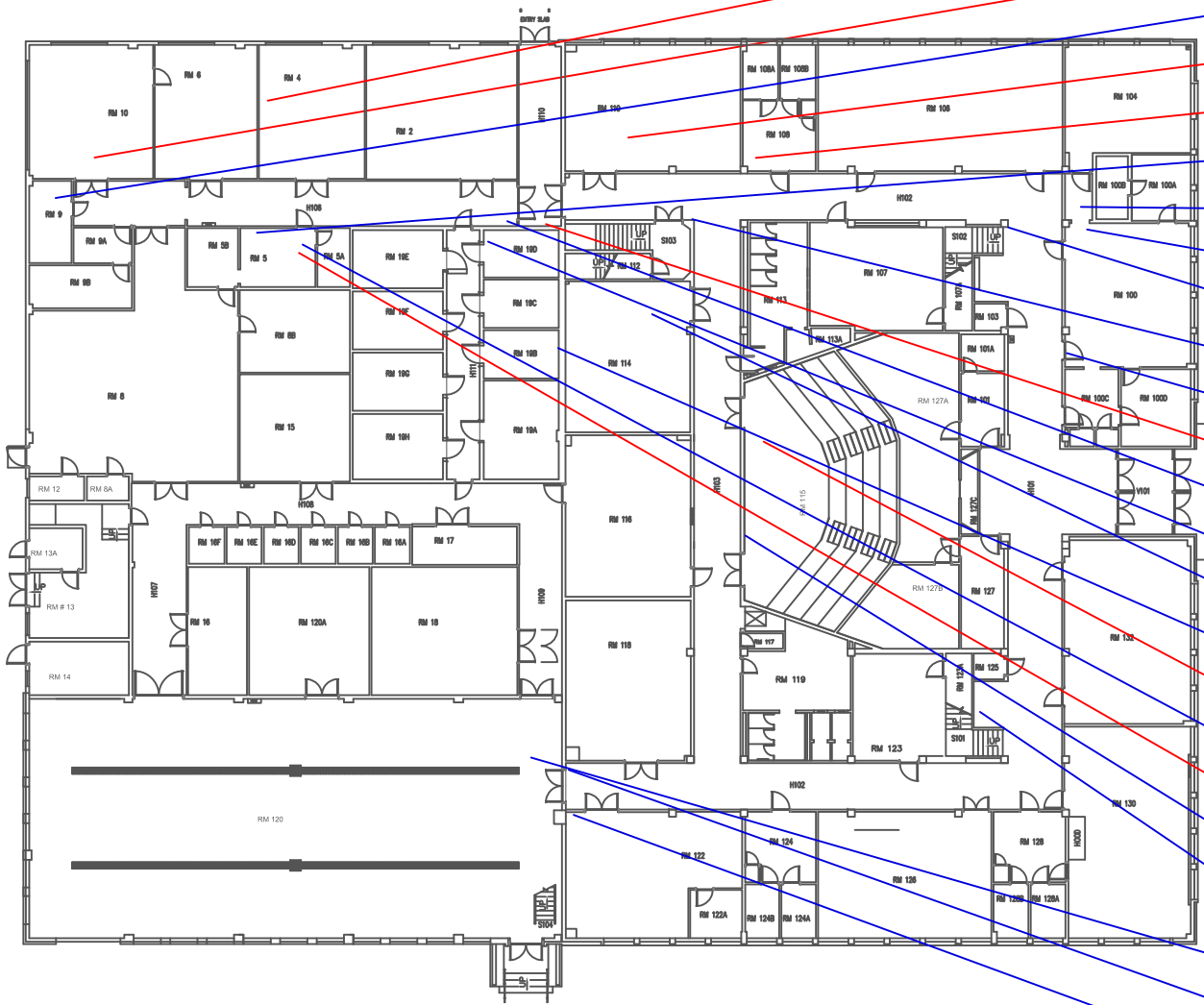


No Scale

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 17400 SW Upper Boones Ferry Road, Suite 245  
 Portland, Oregon 97224  
 503.955.1001  
 503.955.1006 fax  
[www.forensicanalytical.com](http://www.forensicanalytical.com)

\*\* - This material contains a trace amount of asbestos

# 1st Floor

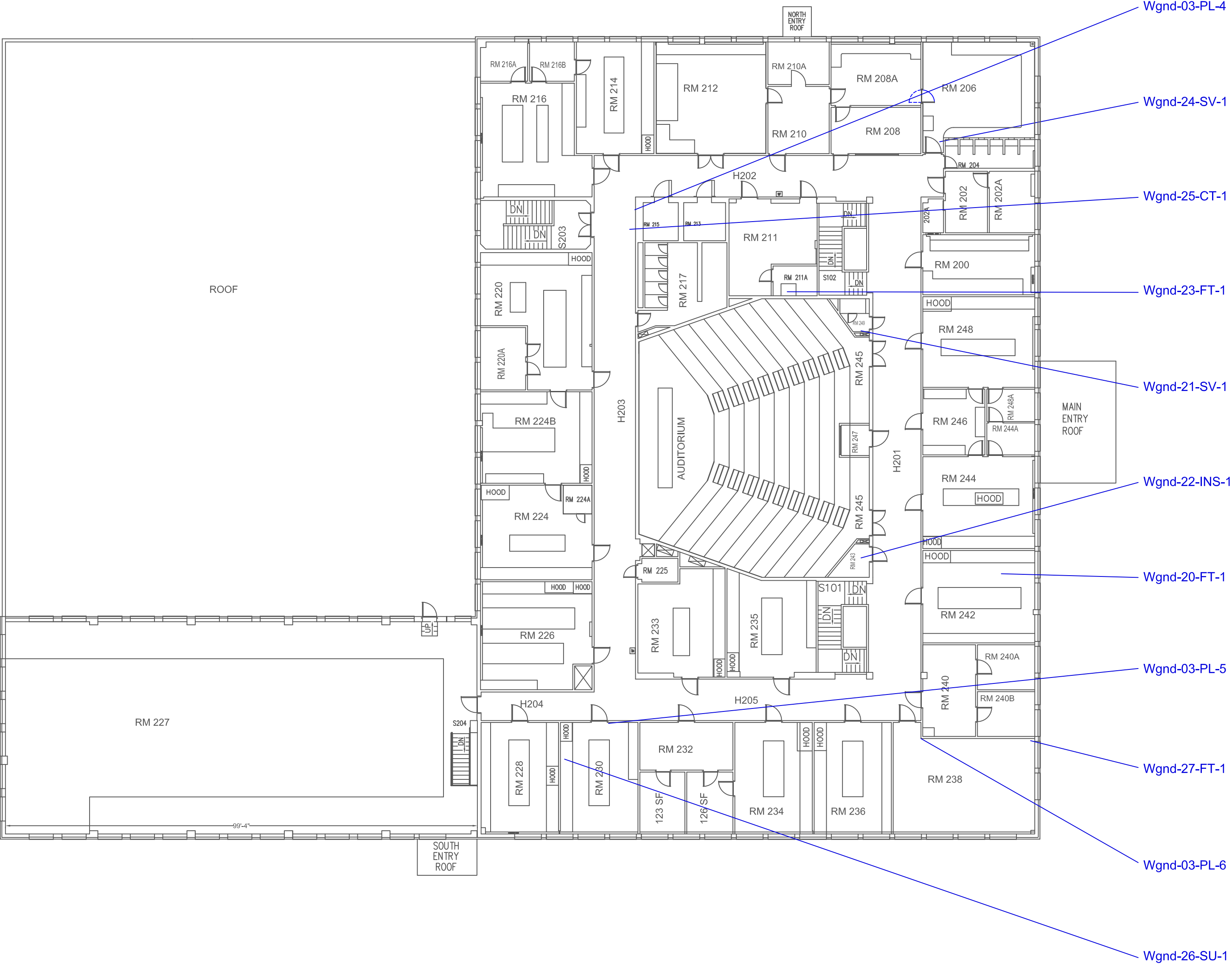


- Wgnd-19-SU-1
- Wgnd-14-SU-1
- Wgnd-15-CT-1
- Wgnd-08-SU-1
- Wgnd-07-FT-1
- Wgnd-13-CT-1
- Wgnd-04-CT-1
- Wgnd-05-CT-1
- Wgnd-01-CB-1
- Wgnd-03-PL-1
- Wgnd-02-CM-1
- Wgnd-06-FT-1
- Wgnd-09-FT-1
- Wgnd-18-BF-1
- Wgnd-12-CT-1
- Wgnd-16-MAS-1
- Wgnd-11-FT-1
- Wgnd-03-PL-2
- Wgnd-10-FT-1
- Wgnd-03-PL-3
- Wgnd-28-FT-1
- Wgnd-17-FM-1
- Wgnd-03-PL-7
- Wgnd-29-FM-1

<p>DATE: 11-28-08          DRN BY: RAS          PROJECT #: PJ0286          PAGE #: SAM - 1/3</p>	<p>CLIENT: OSU          PROJECT: Wiegand Hall          LOCATION: Corvallis, Oregon 97331</p>															
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No.	Description	Date														
<p>Wiegand Hall          1st Floor          Sample Locations</p>																
<p>Report North</p> <p>No Scale</p>																
<p><b>Sample ID # Key</b>          OSU Provided Building Code          Homogeneous Material #          Material Code - Click for Details          ACM Shown In Red          Non-ACM Shown In Blue</p>																
<p><b>Forensic Analytical</b>          17400 SW Upper Boones Ferry Road, Suite 245          Portland, Oregon 97224          503.955.1001          503.955.1006 fax          www.forensicanalytical.com</p>																

\* - This sample is part of a set in which one of the samples tested positive for asbestos.  
 \*\* - This sample contained a trace amount of asbestos.

# 2nd Floor



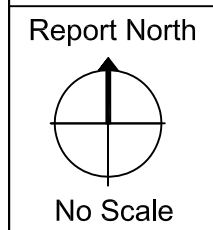
DATE: 11-28-08  
 DRN. BY: RAS  
 PAGE #: SAM - 2/3

CLIENT: OSU  
 PROJECT: Wiegand Hall  
 LOCATION: 3051 SW Campus Way  
 Corvallis, Oregon 97331  
 PROJECT #: P.6286

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REVISIONS

## Wiegand Hall 2nd Floor Sample Locations



Sample ID # Key
OSU Provided Building Code
Homogeneous Material #
Material Code - Click for Details
Sample #
ACM Shown in Red
Non-ACM Shown in Blue

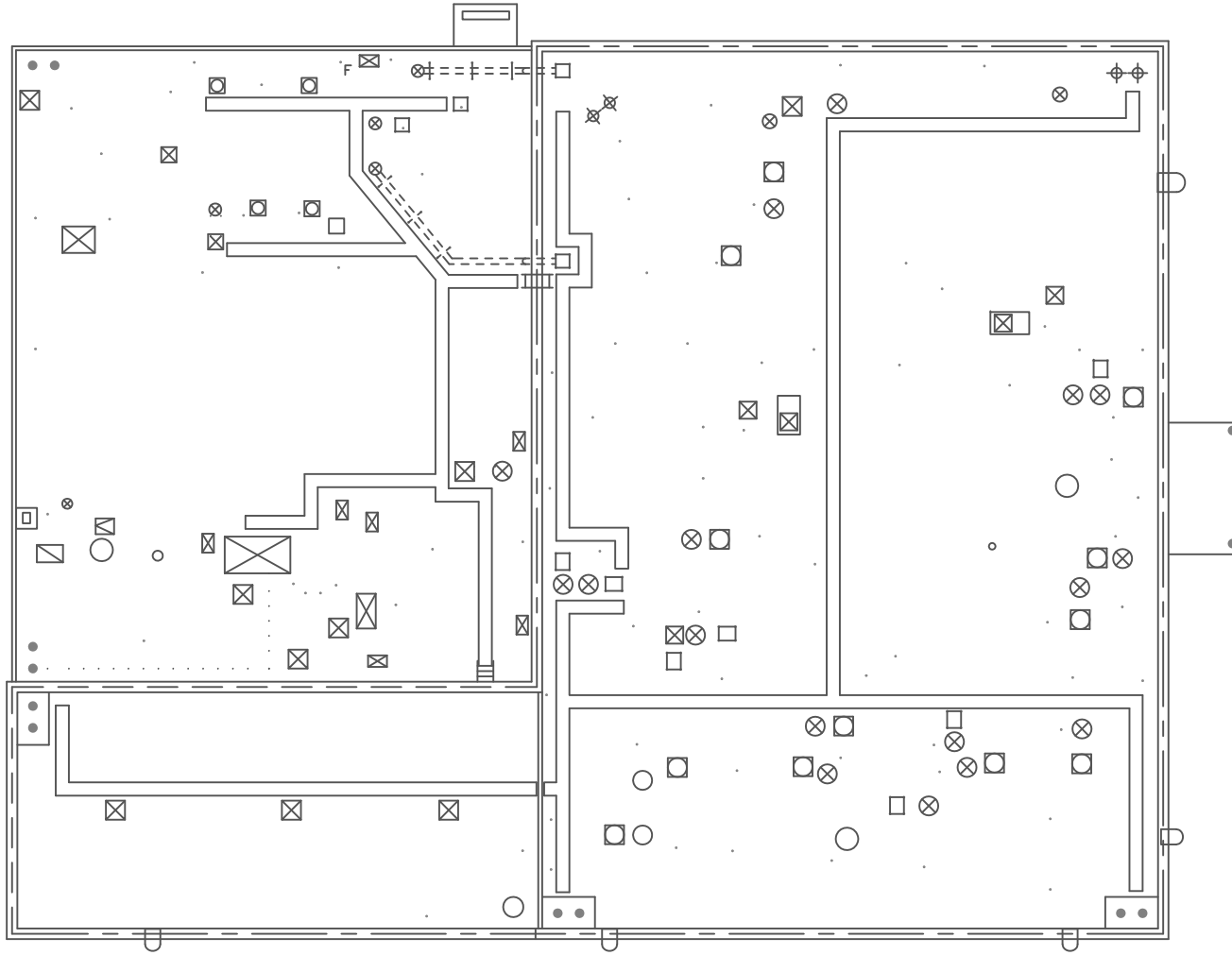
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 17400 SW Upper Boones Ferry Road, Suite 245  
 Portland, Oregon 97224  
 503/595.1001  
 503/595.1006 fax  
 www.forensica.com

\* - This sample is part of a set in which one of the samples tested positive for asbestos.  
 \*\* - This sample contained a trace amount of asbestos.



# Roof Plan

No sample in this area



DATE: 11-26-08  
 CLIENT: OSU  
 PROJECT: Wiegand Hall  
 LOCATION: Corvallis, Oregon 97331  
 DRN BY: RAS  
 PROJECT #: PJ0296  
 PAGE #: SAM - 33

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REVISIONS

Wiegand Hall  
Roof Plan  
Sample Locations

Report North  
  
 No Scale

**Sample ID # Key**  
 OSU Provided Building Code  
 Homogeneous Material #  
 Material Code - Click for Details  
 ACM Shown In Red  
 Non-ACM Shown In Blue

ABC-00-CT-1

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 Portland, Oregon 97224  
 503.955.1001  
 503.955.1006 fax  
 www.forensicanalytical.com



\* - This sample is part of a set in which one of the samples tested positive for asbestos.  
 \*\* - This sample contained a trace amount of asbestos.

## **APPENDIX C**

**LABORATORY ANALYSIS REPORTS  
AND CHAIN OF CUSTODY RECORDS**



# Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Forensic Analytical Consulting Svcs  
Richard Carlin  
17400 SW Upper Boones Ferry Rd  
Suite 245  
Durham, OR 97224

**Client ID:** PE21  
**Report Number:** B118561  
**Date Received:** 10/31/08  
**Date Analyzed:** 11/05/08  
**Date Printed:** 11/05/08  
**First Reported:** 11/05/08

**Job ID/Site:** PJ6286; Wiegard Hall Oregon State University 3051 SW Campus Way Asbestos Removal Corvallis OR  
**Date(s) Collected:** 10/27/2008

**FASI Job ID:** PE21  
**Total Samples Submitted:** 36  
**Total Samples Analyzed:** 36

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
<b>Wgnd-01-CB-1</b>	10814501						
Layer: Black Non-Fibrous Material			ND				
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>Wgnd-02-CM-1</b>	10814502						
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>Wgnd-03-PL-1</b>	10814503						
Layer: Off-White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>Wgnd-03-PL-2</b>	10814504						
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>Wgnd-03-PL-3</b>	10814505						
Layer: Off-White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>Wgnd-03-PL-4</b>	10814506						
Layer: Off-White Plaster			ND				
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B118561

Date Printed: 11/05/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
<b>Wgnd-03-PL-5</b>	10814507						
Layer: Off-White Plaster			ND				
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		<b>Asbestos (ND)</b>					
Cellulose (Trace)							
<b>Wgnd-03-PL-6</b>	10814508						
Layer: Off-White Plaster			ND				
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		<b>Asbestos (ND)</b>					
Cellulose (Trace)							
<b>Wgnd-03-PL-7</b>	10814509						
Layer: Off-White Plaster			ND				
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		<b>Asbestos (ND)</b>					
Cellulose (Trace)							
<b>Wgnd-04-CT-1</b>	10814510						
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		<b>Asbestos (ND)</b>					
Cellulose (2 %) Fibrous Glass (90 %)							
<b>Wgnd-05-CT-1</b>	10814511						
Layer: Grey Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		<b>Asbestos (ND)</b>					
Cellulose (35 %) Fibrous Glass (45 %)							
<b>Wgnd-06-FT-1</b>	10814512						
Layer: Dark Brown Tile		Chrysotile	5 %				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		<b>Asbestos (5%)</b>					
Cellulose (Trace)							
<b>Wgnd-07-FT-1</b>	10814513						
Layer: Green Tile		Chrysotile	5 %				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		<b>Asbestos (5%)</b>					
Cellulose (Trace)							
<b>Wgnd-08-SU-1</b>	10814514						
Layer: Dark Brown Semi-Fibrous Material		Chrysotile	15 %				
Total Composite Values of Fibrous Components:		<b>Asbestos (15%)</b>					
Cellulose (Trace)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B118561

Date Printed: 11/05/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
<b>Wgnd-09-FT-1</b>	10814515						
Layer: Off-White Tile			ND				
Layer: Yellow Mastic			ND				
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>Wgnd-10-FT-1</b>	10814516						
Layer: Tan Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
<b>Wgnd-11-FT-1</b>	10814517						
Layer: Dark Brown Tile		Chrysotile	5 %				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
<b>Wgnd-12-CT-1</b>	10814518						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
<b>Wgnd-13-CT-1</b>	10814519						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
<b>Wgnd-14-SU-1</b>	10814520						
Layer: Grey Semi-Fibrous Material		Chrysotile	7 %				
Total Composite Values of Fibrous Components:		Asbestos (7%)					
Cellulose (Trace)							
<b>Wgnd-15-CT-1</b>	10814521						
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
<b>Wgnd-16-MAS-1</b>	10814522						
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B118561

Date Printed: 11/05/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
<b>Wgnd-17-FM-1</b>	10814523						
Layer: Grey Cementitious Material			ND				
Layer: Grey Tape			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Synthetic (7 %)						
<b>Wgnd-18-BF-1</b>	10814524						
Layer: Black Fibrous Material			ND				
Layer: Black Tar			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (80 %)							
<b>Wgnd-19-SU-1</b>	10814525						
Layer: Black/Silver Tar		Chrysotile	3 %				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
<b>Wgnd-20-FT-1</b>	10814526						
Layer: Tan Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>Wgnd-21-SV-1</b>	10814527						
Layer: Grey Sheet Flooring			ND				
Layer: Fibrous Backing			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (5 %)	Synthetic (10 %)					
<b>Wgnd-22-INS-1</b>	10814528						
Layer: White Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Fibrous Glass (99 %)						
<b>Wgnd-23-FT-1</b>	10814529						
Layer: Off-White Tile			ND				
Layer: Clear Mastic			ND				
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>Wgnd-24-SV-1</b>	10814530						
Layer: Off-White Sheet Flooring			ND				
Layer: Fibrous Backing			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (5 %)	Synthetic (10 %)					

Client Name: Forensic Analytical Consulting Svcs

Report Number: B118561

Date Printed: 11/05/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
<b>Wgnd-25-CT-1</b>	10814531						
Layer: Grey Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %)	Fibrous Glass (45 %)						
<b>Wgnd-26-SU-1</b>	10814532						
Layer: Off-White Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (15 %)							
<b>Wgnd-27-FT-1</b>	10814533						
Layer: Off-White Tile			ND				
Layer: Yellow Mastic			ND				
Layer: Grey Non-Fibrous Material			ND				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
Comment: Sample volume is less than that advised by method.							
<b>Wgnd-28-FT-1</b>	10814534						
Layer: Off-White Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>Wgnd-29-FM-1</b>	10814535						
Layer: Tan Tile			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>Wgnd-30-CM-1</b>	10814536						
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							



James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



Client: <b>PE21 FACS Portland Oregon State University</b>	Sampled by: <b>RAS</b>	PM: <b>Richard Carlin</b> Date: <b>10-27-08</b>
Contact: <b>Richard Carlin</b> Phone: <b>(503) 595-1001</b>	Special Instructions: E-mail results to <b>rickcarlin@forensica.com</b> and <b>rtracy@forensica.com</b>	
Site: <b>PJ6286</b> <b>Wiegard Hall Oregon State University 3051 SW Campus Way Asbestos Removal Corvallis OR</b>	Turnaround Time:	<input type="checkbox"/> 1-Day <input type="checkbox"/> 2-Day <input checked="" type="checkbox"/> 3-Day <input type="checkbox"/> 5-Day <input type="checkbox"/> Other            Due Date & Time:
Client No.: <b>C6013:00014</b> FACS Job#: <b>PJ6286</b>	Analysis: <b>PLM Standard</b> / Point Count / Flame AA (Pb) / Other: <b>Analyse sets to 1st positive</b>	

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
Wgnd-01-081	CB, 4" black (brown)	H101	552		
02-CM	CM, yellow	100			
03-PL-1	Plaster	H102			
2		5			
3		115			
4		H203			
5		230			
6		238			
7		H102			
04-CF-1	CT, 12x12 fissured / pinhole	100			

WB - Wallboard    JC - Joint Compound    FT - Floor Tile    FTM - Floor Tile Mastic    BRM - Baseboard Mastic    Friable: Yes / No    Cond: Fair / Poor  
 RSF - Resilient Sheet Flooring    CT - Ceiling Tile    SAM - Spray-Applied Acoustical Material    WT - Wall Texture

Shipped via: Fed Ex    Airborne     DRS    US Mail    Courier    XXX Drop Off    Other:

Relinquished by:	Received by:
Date & Time: <b>10-30-08</b>	Date & Time: <b>10/31/2 1030am F/E</b>
Condition Acceptable <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	





Client: <b>PE21 FACS Portland</b> <b>Oregon State University</b>	Sampled by: <b>RAS</b>	PM: <b>Richard Carlin</b> Date: <b>10-27-08</b>
Contact: <b>Richard Carlin</b> Phone: <b>(503) 595-1001</b>	Special Instructions: E-mail results to <b>rickcarlin@forensica.com</b> and <b>rtracy@forensica.com</b>	
Site: <b>PJ6286</b> <b>Wiegard Hall Oregon State University 3051 SW</b> <b>Campus Way Asbestos Removal Corvallis OR</b>	Turnaround Time:	1-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> 3-Day <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> Other <input type="checkbox"/> Due Date & Time:
Client No.: <b>C6013:00014</b> FACS Job#: <b>PJ6286</b>	Analysis: <b>PLM Standard</b> / Point Count / Flame AA (Pb) / Other:	

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
Wjgnd 05-CT-1	CT, 2x4 G/P	100			
06-FT-1	FT, 9x9, dark brown w/ cream & red streaks (black)	H110			
07-FT-1	FT, 9x9, green w/ light green & dark green splashes (black)	108			
08-SU-1	SU, black	110			
09-FT-1	FT, 12x12, white w/ brown specks (tan)	H103			
10-FT-1	FT, 9x9, brown w/ brown & cream streaks (black)	5			
11-FT-1	FT, 9x9, dark brown w/ cream red & green streaks (black)	115			
12-CT-1	CT, 12x12, holes + <del>brown</del> adhes., brown	114			
13-CT-1	CT, 12x12 random pinholes + adh., brown	5			
14-SU-1	SU, grey	10			

WB - Wallboard JC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastic BRM - Busboard Mastic  
RSF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture

Friable (Good/  
Yes/No Fair/Poor)

Shipped via:  Fed Ex  Airborne  UPS  US Mail  Courier  XXX Drop Off  Other:

Relinquished by:

Date &amp; Time:

*[Signature]*  
10-30-08

Received by:

Date &amp; Time:

*[Signature]*  
10/21/08 1030 am F/G

Condition Acceptable Yes No



Client: <b>PE21 FACS Portland Oregon State University</b>		Sampled by: <b>RAS</b>		PM: <b>Richard Carlin</b> Date: <b>10-27-08</b>				
Contact: <b>Richard Carlin</b> Phone: (503) 595-1001		Special Instructions: E-mail results to rickcarlin@forensica.com and rtracy@forensica.com						
Site: <b>PJ6286</b> Wiegard Hall Oregon State University 3051 SW Campus Way Asbestos Removal Corvallis OR		Turnaround Time:	1-Day	2-Day	3-Day <input checked="" type="checkbox"/>	5-Day	Other	Due Date & Time:
Client No.: <b>C6013:00014</b> FACS Job#: <b>PJ6286</b>		Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other:						

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
Wgnd-15-CT-1	CT, 12x12 random holes	9	565		
16-INS-1	Mastic on wall, black	former 19A, E wall	566		
17-FM-1	Cementitious FM, grey	120	568		
18-BF-1	Building felt	former 19D	569		
19-SU-1	SU, black + silver	4	570		
20-FT-1	FT, 12x12 light brown w/ white <del>grout</del> + brown specks (tan)	242	571		
21-SV-1	SU, off-white w/ multi-colored specks	249	573		
22-INS-1	Insulation	243	572		
23-FT-1	FT, 12x12 light grey speckled (tan) + <del>grout</del> leveling compd	211A	574		
24-SV-1	SU, white, grey + tan speckled	206			

WB - Wallboard JC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastic BMM - Baseboard Mastic  
 RSF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture  
 Shipped via: Fed Ex Airborne UPS US Mail Courier XXX Drop Off Other:  Friable Yes/No  Good/Fair/Poor

Relinquished by:	Received by: <b>BP</b>
Date & Time: <b>10-30-08</b>	Date & Time: <b>10/21/08 1030 AM FIC</b>
Condition Acceptable <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	



Client: <b>PE21 FACS Portland Oregon State University</b>	Sampled by: <b>RAS</b>	PM: <b>Richard Carlin</b> Date: <b>10-27-08</b>
Contact: <b>Richard Carlin</b> Phone: (503) 595-1001	Special Instructions: E-mail results to <b>rickcarlin@forensica.com</b> and <b>rtracy@forensica.com</b>	
Site: <b>PJ6286</b> Wiegard Hall Oregon State University 3051 SW Campus Way Asbestos Removal Corvallis OR	Turnaround Time:	1-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> 3-Day <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> Other <input type="checkbox"/> Due Date & Time:
Client No.: <b>C6013:00014</b> FACS Job#: <b>PJ6286</b>	Analysis: <b>PLM Standard</b> / Point Count / Flame AA (Pb) / Other:	

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
Wgnd-25-CT-1	CT, 2x4 F/P	H203			
26-SU-1	SU, white	230			
27-FT-1	FT, 12x12, grey speckled (tan) + leveling compd	238			
28-FT-1	FT, 12x12 off-white w/ tan specks	Elevator			
29-FM-1	FM, tan streaked	122			
30-CM-1	CM, tan	220			

WB - Wallboard JC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastic BBM - Baseboard Mastic  
 RSF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray Applied Acoustical Material WT - Wall Texture  
 Shipped via: Fed Ex Airborne UPS US Mail Courier XXX Drop Off Other: Friable Yes/No Good Fair/Poor

Relinquished by:	Received by:
Date & Time: 10-30-08	Date & Time: 10/31/08 10:00am F/E

Condition Acceptable Yes No

# **APPENDIX D**

## **GLOSSARY OF TERMS**

## GLOSSARY OF TERMS

**ACM - Asbestos-containing material:** Any material containing more than one percent asbestos. This includes suspect and/or presumed ACM.

**AHERA:** Asbestos Hazard Emergency Response Act of 1986.

**AHERA Building Inspector:** A person who has successfully completed the training requirements for a building inspector established by EPA Asbestos Model Accreditation Plan; Interim Final Rule (40 CFR Part 763, Appendix C to Subpart E, I.B.3) and whose certification is current.

**AHERA Project Designer:** A person who has successfully completed the training requirements for an asbestos abatement project designer established by EPA regulations (40 CFR 763.90(g)) and whose certification is current.

**Asbestos:** Chrysotile, amosite, crocidolite, tremolite, anthophyllite, actinolite and any of these minerals that have been chemically treated and/or altered.

**Asbestos Building Inspection:** A written report describing an inspection using the procedures contained in EPA regulations (40 CFR 763,86) to determine whether materials or structures to be worked on, renovated, removed, or demolished (including materials on the outside of structures) contain asbestos.

**Authorized Person:** Any person authorized by the employer and required by work duties to be present in regulated areas.

**Chain of Custody Record:** Legal documentation that follows samples from collection to the laboratory indicating who has been in possession of the samples.

**Competent Person:** A person capable of identifying asbestos hazards, selecting appropriate control strategies and having the authority to take prompt corrective measures. Additionally, for Class I and Class II work, one who is specially trained in a training course meeting the criteria of EPA's Model Accreditation Plan (40 CFR 763) for project designer or supervisor, or its equivalent and, for Class II work, who is trained in an operations and Maintenance O & M Course developed by EPA (40 CFR 76392 (a) (2)).

**Contractor:** The asbestos abatement contractor.

**EPA:** United States Environmental Protection Agency

**Friable:** Asbestos-containing material that can be crumbled, pulverized or reduced to powder when dry, by hand pressure.

**HEPA - High-Efficiency Particulate Air (Filter):** A filter capable of trapping and retaining at least 99.97 percent of all mono-dispersed particles of 0.3 micrometers in diameter.

**Intact:** ACM that has not crumbled, been pulverized, or otherwise deteriorated so that its no longer likely to be bound within its matrix.

**LF:** Linear feet

**NESHAPs:** National Emission Standard for Hazardous Air Pollutants, 40 CFR part 61.

**NVLAP:** National Voluntary Laboratory Accreditation Program

**OSHA:** United States Department of Labor - Occupational Safety and Health Administration.

**Owner:** The legal entity, including a lessee, which exercises control over management and record keeping functions relating to a building and/or facility in which the abatement activities described in this document take place.

**Owners Representative:** A person authorized by the Owner to act on the Owners behalf.

**PLM:** Polarized Light Microscopy

**PACM - Presumed Asbestos Containing Material:** Thermal system insulation and surfacing material found in buildings constructed no later than 1980. The designation of a material as PACM may be rebutted through PLM analysis of samples obtained by certified inspectors.

**Removal:** All operations where ACM and/or PACM is taken out or stripped from structures or substrate, and includes demolition operations.

**Sq. Ft.:** Square feet

**Surfacing Material:** Material that is sprayed, troweled-on or otherwise applied to surfaces.

**Suspect ACBM:** Material that is suspected of containing asbestos that has not been sampled and analyzed for asbestos content.

**TSI - Thermal System Insulation:** ACM applied to pipes, fittings, boilers, breaching, tanks, ducts or other structural components to prevent heat loss or gain.

# **APPENDIX E**

## **ACCREDITATION**

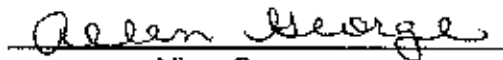
# *Certificate of Completion*

This is to certify that

## ***Robin Sharpe***

has attended and successfully completed the requisite training for  
accreditation under TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR  
EPA AHERA (Asbestos Hazard Emergency Response Act),  
and ASHARA Model Accreditation Program requirements for  
**AHERA INSPECTOR REFRESHER**

as presented by  
**Bureau Veritas North America, Inc.**



Allen George  
INSTRUCTOR

Course Date: 04/29/08  
Certification # 08-1061  
Certificate Expiration Date: 04/29/09



**BUREAU  
VERITAS**

3800 NE Sandy Boulevard, Suite 101, Portland, Oregon 97232 • (971) 244-1200 • fax (971) 244-1209



# Certificate of Completion

This is to certify that

**Noal C. Kraft**

has satisfactorily completed  
4 hours of refresher training as an  
**Asbestos Building Inspector**

to comply with the training requirements of  
TSCA Title III / 40 CFR 763 (AHERA)

Certificate Number: 1029789



Instructor

EPA Provider Cert. Number: 1085



Jun 18, 2008

Date(s) of Training

Exam Score: NA

Expiration Date: Jun 18, 2009

Argus Pacific, Inc. • 1900 W. Nickerson, Suite 315 • Seattle, Washington • 98119 • (206) 285.3373 • fax (206) 285.3927

# Certificate of Completion

This is to certify that

**Dan K. Rouse**

has satisfactorily completed  
4 hours of refresher training as an  
**Asbestos Building Inspector**

to comply with the training requirements of  
TSCA Title III / 40 CFR 763 (AHERA)

Certificate Number: 1029792



Instructor

EPA Provider Cert. Number: 1085



Jun 18, 2008

Date(s) of Training

Exam Score: NA

Expiration Date: Jun 18, 2009

Argus Pacific, Inc. • 1900 W. Nickerson, Suite 315 • Seattle, Washington • 98119 • (206) 285.3373 • fax (206) 285.3927

# **APPENDIX F**

**PREVIOUS HALL-KIMBRELL SURVEY**

# **OREGON STATE UNIVERSITY**

**BLDG. 128**

**WIEGAND HALL**

Findings and Observations

Spreadsheets

Petrographic Analysis

Sample Location Drawings

Miscellaneous Materials

Photographs

**WIEGAND HALL - 128 57,957 SQ. FT.**

Wiegand Hall is a two-story brick and masonry structure with a crawl space. The heating system is radiant steam. The building is used as a research laboratory.

Debris located above the semipermanent ceiling of hallway 101 was confirmed asbestos-containing by laboratory analysis. This material was in poor condition and could easily be disturbed. It is recommended that this material be removed using proper procedures as soon as feasible.

Exterior duct insulation, preformed block and wrapped cardboard/paper pipe coverings with associated mudded joint packings as well as mudded joint packings associated with nonsuspect pipe covering and covering on nonsuspect pipe insulation were confirmed asbestos-containing by laboratory analysis. These materials were located throughout the building with minor localized damage. It is recommended that these materials be repaired as needed then monitored as part of an operations and maintenance program until removal is planned.

Nonfriable material that was not sampled but often contains asbestos included fire doors, fire blankets, cementitious hoods, cementitious counter tops, cementitious cart shelves, gasket material, linoleum, and 9"x9" and 12"x12" vinyl floor tiles.

Material that was sampled but determined nonasbestos included wrapped cardboard/paper pipe covering, covering on nonsuspect pipe covering, acoustical ceiling tiles and drop-in ceiling panels.

ASBESTOS ASSESSMENT SURVEY  
Oregon State University

Project Number: 5749032V.Q  
Building Number: 128  
Building Name: Wiegand Hall  
Address : Corvallis, OR

Page: 1  
Building Type: 05  
Year Constructed: UNKN  
Date Inspected: 04/03/91  
Inspector: Fansher/Voth

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Area 1. 1st Floor-Foundation												
			AHERA Damage Code: 1	Response Action: 67			Potential for Disturbance: 3					
Below grade	1	3	pipe covering	LPS/R	60%	90 ft. 10 in. O.D. OMA	OMA	47	II	\$1,698	\$1,257	\$2,955
Below grade	1	3	pipe covering	LPS/R	60%	2700 ft. 6 in. O.D. OMA	OMA	47	II	\$35,046	\$21,897	\$56,943
MS#	Sample #	%ASB										
1	- 787440	60%										
1	- 787441	60%										
1	- 787442	60%										
Below grade	2	3	mjp on pipe covering	LPS/R	55%	2 10 in. joint	OMA	47	II	\$125	\$78	\$203
Below grade	2	3	mjp on pipe covering	LPS/R	55%	260 6 in. joint	OMA	47	II	\$10,057	\$5,907	\$15,964
MS#	Sample #	%ASB										
2	- 787443	55%										
2	- 787444	50%										
2	- 787445	55%										
							AREA #	1. TOTALS		\$46,926	\$29,139	\$76,065

Due to the lack of access the material quantities were taken off of blueprints and drawings. The materials observed were in fair condition with minor water damage. The materials should be repaired and monitored as part of an operations and maintenance program until removed.

ASBESTOS ASSESSMENT SURVEY  
Oregon State University

Project Number: 5749032V.0  
Building Number: 128  
Building Name: Wiegand Hall  
Address : Corvallis, OR

Page: 2  
Building Type: 05  
Year Constructed: UNKN  
Date Inspected: 04/03/91  
Inspector: Fansher/Voth

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Area 2. 1st Floor												
			AHERA Damage Code: 1	Response Action: 67			Potential for Disturbance: 2					
Mechanical room 18	1	3	pipe covering	LPS/R	60%	52 ft. 10 in. O.D. OMA	56	II		\$981	\$726	\$1,707
Room 120A	1	3	pipe covering	LPS/R	60%	16 ft. 10 in. O.D. OMA	56	II		\$302	\$224	\$526
Room 13	1	3	pipe covering	LPS/R	60%	30 ft. 10 in. O.D. OMA	56	II		\$566	\$419	\$985
Hallway 107	1	3	pipe covering	LPS/R	60%	10 ft. 10 in. O.D. OMA	56	II		\$189	\$140	\$329
Room 16	1	3	pipe covering	LPS/R	60%	30 ft. 10 in. O.D. OMA	56	II		\$566	\$419	\$985
Hallway 107	1	3	pipe covering	LPS/R	60%	10 ft. 12 in. O.D. OMA	56	II		\$220	\$169	\$389
Room 16	1	3	pipe covering	LPS/R	60%	15 ft. 12 in. O.D. OMA	56	II		\$330	\$254	\$584
Room 120A	1	3	pipe covering	LPS/R	60%	16 ft. 12 in. O.D. OMA	56	II		\$352	\$271	\$623
Mechanical room 18	1	3	pipe covering	LPS/R	60%	20 ft. 12 in. O.D. OMA	56	II		\$440	\$339	\$779
Room 13	1	3	pipe covering	LPS/R	60%	25 ft. 12 in. O.D. OMA	56	II		\$550	\$423	\$973
Lab room	1	3	pipe covering	LPS/R	60%	4 ft. 4 in. O.D. OMA	56	II		\$36	\$22	\$58
Lab 2	1	3	pipe covering	LPS/R	60%	10 ft. 4 in. O.D. OMA	56	II		\$89	\$56	\$145
Hallway 106	1	3	pipe covering	LPS/R	60%	30 ft. 4 in. O.D. OMA	56	II		\$268	\$167	\$435
Room 13	1	3	pipe covering	LPS/R	60%	11 ft. 4 in. O.D. OMA	56	II		\$98	\$61	\$159
Room 13	1	3	pipe covering	LPS/R	60%	60 ft. 6 in. O.D. OMA	56	II		\$779	\$487	\$1,266
Room 16	1	3	pipe covering	LPS/R	60%	45 ft. 6 in. O.D. OMA	56	II		\$584	\$365	\$949
Hallway 106	1	3	pipe covering	LPS/R	60%	25 ft. 6 in. O.D. OMA	56	II		\$325	\$203	\$528
Hallway 107	1	3	pipe covering	LPS/R	60%	50 ft. 6 in. O.D. OMA	56	II		\$649	\$406	\$1,055
Lab 2	1	3	pipe covering	LPS/R	60%	10 ft. 6 in. O.D. OMA	56	II		\$130	\$81	\$211
Room 120A	1	3	pipe covering	LPS/R	60%	65 ft. 6 in. O.D. OMA	56	II		\$844	\$527	\$1,371
Lab room	1	3	pipe covering	LPS/R	60%	242 ft. 6 in. O.D. OMA	56	II		\$3,141	\$1,963	\$5,104
Mechanical room 18	1	3	pipe covering	LPS/R	60%	97 ft. 6 in. O.D. OMA	56	II		\$1,259	\$787	\$2,046
Room 8	1	3	pipe covering	LPS/R	60%	25 ft. 8 in. O.D. OMA	56	II		\$354	\$253	\$607
Room 16	1	3	pipe covering	LPS/R	60%	45 ft. 8 in. O.D. OMA	56	II		\$637	\$455	\$1,092

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Building Type: 05

Year Constructed: UNKN

Date Inspected: 04/03/91

Inspector: Fansher/Voth

Project Number: 5749032V.Q  
Building Number: 128  
Building Name: Wiegand Hall  
Address : Corvallis, OR

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
Room 120A	1	3	pipe covering	LPS/R	60%	30 ft. 8 in. O.D.	OMA	56	II	\$424	\$303	\$727
Hallway 109	1	3	pipe covering	LPS/R	60%	10 ft. 8 in. O.D.	OMA	56	II	\$142	\$101	\$243
Hallway 107	1	3	pipe covering	LPS/R	60%	26 ft. 8 in. O.D.	OMA	56	II	\$368	\$263	\$631
Room 13	1	3	pipe covering	LPS/R	60%	30 ft. 8 in. O.D.	OMA	56	II	\$424	\$303	\$727
MS# Sample # %ASB												
1 - 787440 60%												
1 - 787441 60%												
1 - 787442 60%												
Mechanical room 18	2	3	mjp on pipe covering	LPS/R	55%	9 10 in. joint	OMA	56	II	\$563	\$352	\$915
Room 13	2	3	mjp on pipe covering	LPS/R	55%	3 10 in. joint	OMA	56	II	\$188	\$117	\$305
Mechanical room 18	2	3	mjp on pipe covering	LPS/R	55%	8 12 in. joint	OMA	56	II	\$607	\$379	\$986
Room 13	2	3	mjp on pipe covering	LPS/R	55%	5 12 in. joint	OMA	56	II	\$379	\$237	\$616
Hallway 106	2	3	mjp on pipe covering	LPS/R	55%	10 4 in. joint	OMA	56	II	\$281	\$156	\$437
Room 13	2	3	mjp on pipe covering	LPS/R	55%	4 4 in. joint	OMA	56	II	\$112	\$62	\$174
Room 8	2	3	mjp on pipe covering	LPS/R	55%	5 4 in. joint	OMA	56	II	\$140	\$78	\$218
Lab room	2	3	mjp on pipe covering	LPS/R	55%	4 4 in. joint	OMA	56	II	\$112	\$62	\$174
Room 13	2	3	mjp on pipe covering	LPS/R	55%	3 6 in. joint	OMA	56	II	\$116	\$68	\$184
Mechanical room 18	2	3	mjp on pipe covering	LPS/R	55%	18 6 in. joint	OMA	56	II	\$696	\$409	\$1,105
Room 120A	2	3	mjp on pipe covering	LPS/R	55%	11 6 in. joint	OMA	56	II	\$425	\$250	\$675
Hallway 106	2	3	mjp on pipe covering	LPS/R	55%	4 6 in. joint	OMA	56	II	\$155	\$91	\$246
Lab room	2	3	mjp on pipe covering	LPS/R	55%	51 6 in. joint	OMA	56	II	\$1,973	\$1,159	\$3,132
Hallway 107	2	3	mjp on pipe covering	LPS/R	55%	1 8 in. joint	OMA	56	II	\$48	\$28	\$76
Room 8	2	3	mjp on pipe covering	LPS/R	55%	6 8 in. joint	OMA	56	II	\$289	\$170	\$459
Room 13	2	3	mjp on pipe covering	LPS/R	55%	20 8 in. joint	OMA	56	II	\$963	\$566	\$1,529



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Project Number: 5749032V.Q  
Building Number: 128  
Building Name: Wiegand Hall  
Address : Corvallis, OR

Building Type: 05  
Year Constructed: UNKN  
Date Inspected: 04/03/91  
Inspector: Fansher/Voth

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
Hallway 109	2	3	mjp on pipe covering	LPS/R	55%	3 8 in. joint	OMA	56	II	\$144	\$85	\$229
MS#	Sample #	%ASB										
2	- 787443	55%										
2	- 787444	50%										
2	- 787445	55%										
Mechanical room 18	3	3	mjp on nonsuspect pipe cover	LPS/R	10%	1 12 in. joint	OMA	38	III	\$76	\$47	\$123
Hallway 106	3	3	mjp on nonsuspect pipe cover	LPS/R	10%	1 4 in. joint	OMA	38	III	\$28	\$16	\$44
Mechanical room 18	3	3	mjp on nonsuspect pipe cover	LPS/R	10%	1 4 in. joint	OMA	38	III	\$28	\$16	\$44
Room 6	3	3	mjp on nonsuspect pipe cover	LPS/R	10%	5 4 in. joint	OMA	38	III	\$140	\$78	\$218
Hallway 106	3	3	mjp on nonsuspect pipe cover	LPS/R	10%	1 6 in. joint	OMA	38	III	\$39	\$23	\$62
MS#	Sample #	%ASB										
3	- 787446	10%										
3	- 787447	10%										
3	- 787448	10%										
Room 9	4	3	wrapped cardboard/paper pipe	DW	0%	5 ft. 4 in. O.D.	OMA	0		\$0	\$0	\$0
Room 120A	4	3	wrapped cardboard/paper pipe	DW	0%	16 ft. 4 in. O.D.	OMA	0		\$0	\$0	\$0
Room 13	4	3	wrapped cardboard/paper pipe	DW	0%	30 ft. 4 in. O.D.	OMA	0		\$0	\$0	\$0
Lab room	4	3	wrapped cardboard/paper pipe	DW	0%	222 ft. 4 in. O.D.	OMA	0		\$0	\$0	\$0
Lab 2	4	3	wrapped cardboard/paper pipe	DW	0%	40 ft. 4 in. O.D.	OMA	0		\$0	\$0	\$0
Hallway 106	4	3	wrapped cardboard/paper pipe	DW	0%	100 ft. 4 in. O.D.	OMA	0		\$0	\$0	\$0
Room 8	4	3	wrapped cardboard/paper pipe	DW	0%	35 ft. 4 in. O.D.	OMA	0		\$0	\$0	\$0

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Date Inspected: 04/03/91  
Inspector: Fansher/Voth

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
Hallway 108	4	3	wrapped cardboard/paper pipe	DW	0%	36 ft. 4 in. O.D.	OMA	0		\$0	\$0	\$0
Room 13	4	3	wrapped cardboard/paper pipe	DW	0%	40 ft. 6 in. O.D.	OMA	0		\$0	\$0	\$0
Room 120A	4	3	wrapped cardboard/paper pipe	DW	0%	27 ft. 6 in. O.D.	OMA	0		\$0	\$0	\$0
Lab room	4	3	wrapped cardboard/paper pipe	DW	0%	20 ft. 6 in. O.D.	OMA	0		\$0	\$0	\$0
Hallway 108	4	3	wrapped cardboard/paper pipe	DW	0%	30 ft. 6 in. O.D.	OMA	0		\$0	\$0	\$0
Room 13	4	3	wrapped cardboard/paper pipe	DW	0%	7 ft. 8 in. O.D.	OMA	0		\$0	\$0	\$0
Hallway 108	4	3	wrapped cardboard/paper pipe	DW	0%	30 ft. 8 in. O.D.	OMA	0		\$0	\$0	\$0
Room 120A	4	3	wrapped cardboard/paper pipe	DW	0%	16 ft. 8 in. O.D.	OMA	0		\$0	\$0	\$0

MS# Sample # %ASB  
4 - 787449 T%  
4 - 787450 T%  
4 - 787451 0%

Lab room	5	3	mjp on wrapped cardboard/paper	DW	55%	37 4 in. joint	OMA	56	II	\$1,039	\$578	\$1,617
Lab 2	5	3	mjp on wrapped cardboard/paper	DW	55%	7 4 in. joint	OMA	56	II	\$197	\$109	\$306
Room 8	5	3	mjp on wrapped cardboard/paper	DW	55%	3 4 in. joint	OMA	56	II	\$84	\$47	\$131
Hallway 108	5	3	mjp on wrapped cardboard/paper	DW	55%	3 4 in. joint	OMA	56	II	\$84	\$47	\$131
Hallway 106	5	3	mjp on wrapped cardboard/paper	DW	55%	15 4 in. joint	OMA	56	II	\$421	\$234	\$655
Room 13	5	3	mjp on wrapped cardboard/paper	DW	55%	4 4 in. joint	OMA	56	II	\$112	\$62	\$174
Room 120A	5	3	mjp on wrapped cardboard/paper	DW	55%	2 6 in. joint	OMA	56	II	\$77	\$45	\$122
Hallway 108	5	3	mjp on wrapped cardboard/paper	DW	55%	2 6 in. joint	OMA	56	II	\$77	\$45	\$122
Room 13	5	3	mjp on wrapped cardboard/paper	DW	55%	8 6 in. joint	OMA	56	II	\$309	\$182	\$491
Lab room	5	3	mjp on wrapped cardboard/paper	DW	55%	40 6 in. joint	OMA	56	II	\$1,547	\$909	\$2,456
Hallway 108	5	3	mjp on wrapped cardboard/paper	DW	55%	2 8 in. joint	OMA	56	II	\$96	\$57	\$153

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Address : Corvallis, OR

Building Type: 05  
Year Constructed: UNKN  
Date Inspected: 04/03/91  
Inspector: Fansher/Voth

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
MS# Sample # %ASB												
	5		- 787452		55%							
	5		- 787453		55%							
	5		- 787454		55%							
Lab 10	6	3	pipe covering	DW	0%	7 ft. 4 in. O.D. OMA		0		\$0	\$0	\$0
Hallway 106	6	3	pipe covering	DW	0%	22 ft. 4 in. O.D. OMA		0		\$0	\$0	\$0
Room 6	6	3	pipe covering	DW	0%	16 ft. 4 in. O.D. OMA		0		\$0	\$0	\$0
Lab 4	6	3	pipe covering	DW	0%	20 ft. 4 in. O.D. OMA		0		\$0	\$0	\$0
MS# Sample # %ASB												
	6		- 787455		0%							
	6		- 787456		0%							
	6		- 787457		0%							
Lab 4	7	3	mjp on pipe covering	DW	60%	3 4 in. joint	OMA	56	II	\$84	\$47	\$131
Hallway 106	7	3	mjp on pipe covering	DW	60%	4 4 in. joint	OMA	56	II	\$112	\$62	\$174
Room 6	7	3	mjp on pipe covering	DW	60%	6 4 in. joint	OMA	56	II	\$169	\$94	\$263
Lab 10	7	3	mjp on pipe covering	DW	60%	1 4 in. joint	OMA	56	II	\$28	\$16	\$44
MS# Sample # %ASB												
	7		- 787458		10%							
	7		- 787459		60%							
	7		- 787460		10%							

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Inspector: Fansher/Voth

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
Hallway 106	8	3	mjp on nonsuspect pipe cover	DW	45%	17 4 in. joint	OMA	38	III	\$478	\$265	\$743
Room 6	8	3	mjp on nonsuspect pipe cover	DW	45%	8 4 in. joint	OMA	38	III	\$225	\$125	\$350
Lab 10	8	3	mjp on nonsuspect pipe cover	DW	45%	3 4 in. joint	OMA	38	III	\$84	\$47	\$131
Lab 4	8	3	mjp on nonsuspect pipe cover	DW	45%	9 4 in. joint	OMA	38	III	\$253	\$140	\$393
MS# Sample # %ASB												
8 - 787461 10%												
8 - 787462 45%												
8 - 787463 10%												
Lab room 120	9	3	wrapped cardboard/paper pipe	DR	17%	20 ft. 10 in. O.D.	OMA	38	III	\$377	\$279	\$656
Room 10	9	3	wrapped cardboard/paper pipe	DR	17%	12 ft. 10 in. O.D.	OMA	38	III	\$226	\$168	\$394
MS# Sample # %ASB												
9 - 787464 17%												
9 - 787465 5%												
9 - 787466 5%												
Room 10	10	3	mjp on wrapped cardboard/paper	DR	45%	4 10 in. joint	OMA	38	III	\$250	\$156	\$406
Lab room 120	10	3	mjp on wrapped cardboard/paper	DR	45%	1 10 in. joint	OMA	38	III	\$63	\$39	\$102
MS# Sample # %ASB												
10 - 787467 45%												
10 - 787468 45%												
10 - 787469 45%												

ASBESTOS ASSESSMENT SURVEY  
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Inspector: Fansher/Voth

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
Room 18	12	3	exterior duct insulation		60%	390 sq.ft.	OMB	56	II	\$9,325	\$7,511	\$16,836
MS#	Sample #	%ASB										
12	- 787473	60%										
12	- 787474	60%										
12	- 787475	60%										
Room 17	20	3	mjp on nonsuspect pipe cover	RS/R	2%	7 4 in. joint	OMA	38	III	\$197	\$109	\$306
Room 17	20	3	mjp on nonsuspect pipe cover	RS/R	2%	8 6 in. joint	OMA	38	III	\$309	\$182	\$491
MS#	Sample #	%ASB										
20	- 793527	2%										
20	- 793528	2%										
20	- 793529	2%										
The materials were in fair condition with minor localized damage. The materials should be repaired and monitored as part of an operations and maintenance program until removed.							AREA #	2. TOTALS		\$38,772	\$26,191	\$64,963

\*\* Area 3. 1st Floor-Mezzanine

AHERA Damage Code: 1

Response Action: 67

Potential for Disturbance: 2

Catwalk	1	3	pipe covering	LPS/R	60%	27 ft. 10 in. O.D.	OMA	56	II	\$509	\$377	\$886
Catwalk	1	3	pipe covering	LPS/R	60%	67 ft. 8 in. O.D.	OMA	56	II	\$948	\$677	\$1,625

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Project Number: 5749032V.Q  
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Building Type: 05  
Year Constructed: UNKN  
Date Inspected: 04/03/91  
Inspector: Fansher/Voth

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	MS#	Sample #	%ASB									
	1	- 787440	60%									
	1	- 787441	60%									
	1	- 787442	60%									
Catwalk	2	3	mjp on pipe covering	LPS/R	55%	2 10 in. joint	OMA	56	II	\$125	\$78	\$203
Catwalk	2	3	mjp on pipe covering	LPS/R	55%	8 8 in. joint	OMA	56	II	\$385	\$226	\$611
	MS#	Sample #	%ASB									
	2	- 787443	55%									
	2	- 787444	50%									
	2	- 787445	55%									
Catwalk	4	3	wrapped cardboard/paper pipe	DR	0%	14 ft. 10 in. O.D.	OMA	0		\$0	\$0	\$0
	MS#	Sample #	%ASB									
	4	- 787449	T%									
	4	- 787450	T%									
	4	- 787451	0%									
Catwalk	5	3	mjp on wrapped cardboard/paper	DR	55%	3 10 in. joint	OMA	56	II	\$188	\$117	\$305

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Project Number: 5749032V.Q  
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Building Name: Wiegand Hall  
Address : Corvallis, OR

Building Type: 05  
Year Constructed: UNKN  
Date Inspected: 04/03/91  
Inspector: Fansher/Voth

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS		
MS# Sample # %ASB														
	5	-	787452	55%										
	5	-	787453	55%										
	5	-	787454	55%										
The materials were in fair condition with minor contact damage. The materials should be repaired and monitored as part of an operations and maintenance program until removed.										AREA #	3. TOTALS	\$2,155	\$1,475	\$3,630

** Area	4. 1st Floor-Above Semipermanent Ceiling			Response Action: 67		Potential for Disturbance: 2						
	AHERA Damage Code: 1											
Throughout	1	3	pipe covering	LPS/R	60%	415 ft. 4 in. O.D. OMA	36	III	\$3,702	\$2,316	\$6,018	
Throughout	1	3	pipe covering	LPS/R	60%	350 ft. 6 in. O.D. OMA	36	III	\$4,543	\$2,839	\$7,382	
Hallway 110	1	3	pipe covering	LPS/R	60%	16 ft. 6 in. O.D. OMA	36	III	\$208	\$130	\$338	
MS# Sample # %ASB												
	1	-	787440	60%								
	1	-	787441	60%								
	1	-	787442	60%								
Throughout	2	3	mjp on pipe covering	LPS/R	55%	70 4 in. joint	OMA	36	III	\$1,966	\$1,093	\$3,059
Throughout	2	3	mjp on pipe covering	LPS/R	55%	36 6 in. joint	OMA	36	III	\$1,392	\$818	\$2,210
Hallway 110	2	3	mjp on pipe covering	LPS/R	55%	8 6 in. joint	OMA	36	III	\$309	\$182	\$491

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Inspector: Fansher/Voth

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
<p>MS# Sample # %ASB</p> <p>2 - 787443 55%</p> <p>2 - 787444 50%</p> <p>2 - 787445 55%</p>												
Hallway 110	3	3	mjp on nonsuspect pipe cover	LPS/R	10%	1 10 in. joint	OMA	24	III	\$63	\$39	\$102
Hallway 110	3	3	mjp on nonsuspect pipe cover	LPS/R	10%	1 8 in. joint	OMA	24	III	\$48	\$28	\$76
<p>MS# Sample # %ASB</p> <p>3 - 787446 10%</p> <p>3 - 787447 10%</p> <p>3 - 787448 10%</p>												
Throughout	4	3	wrapped cardboard/paper pipe	DW	0%	625 ft. 4 in. O.D.	OMA	0		\$0	\$0	\$0
Throughout	4	3	wrapped cardboard/paper pipe	DW	0%	285 ft. 6 in. O.D.	OMA	0		\$0	\$0	\$0
<p>MS# Sample # %ASB</p> <p>4 - 787449 T%</p> <p>4 - 787450 T%</p> <p>4 - 787451 0%</p>												
Throughout	5	3	mjp on wrapped cardboard/paper	DW	55%	141 4 in. joint	OMA	36	III	\$3,961	\$2,201	\$6,162
Throughout	5	3	mjp on wrapped cardboard/paper	DW	55%	14 6 in. joint	OMA	36	III	\$542	\$318	\$860



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Building Type: 05  
Year Constructed: UNKN  
Date Inspected: 04/03/91  
Inspector: Fansher/Voth

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS		
<p>MS# Sample # %ASB</p> <p>5 - 787452 55%</p> <p>5 - 787453 55%</p> <p>5 - 787454 55%</p>														
throughout	12	3	exterior duct insulation		60%	1300 sq.ft.	OMB	36	III	\$31,083	\$25,038	\$56,121		
<p>MS# Sample # %ASB</p> <p>12 - 787473 60%</p> <p>12 - 787474 60%</p> <p>12 - 787475 60%</p>														
<p>Because of the lack of access, the quantities listed were taken from blueprints. The materials that were observable were in fair condition with minor contact damage. The materials should be repaired and monitored as part of an operations and maintenance program until removed.</p>										AREA #	4. TOTALS	\$47,817	\$35,002	\$82,819

\*\* Area 5. 1st Floor-Ceilings

AHERA Damage Code: 4      Response Action: 7      Potential for Disturbance: 3

Hallways 101, 102, 103 & 104	13	5	acoustical tile		0%	3326 sq.ft.	OMG	0		\$0	\$0	\$0
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ASBESTOS ASSESSMENT SURVEY  
Oregon State University

Page: 13

Project Number: 5749032V.Q  
Building Number: 128  
Building Name: Wiegand Hall  
Address : Corvallis, OR

Building Type: 05  
Year Constructed: UNKN  
Date Inspected: 04/03/91  
Inspector: Fansher/Voth

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
----------	---------------------	---------------	----------------------	---------	-------	----------	----------	---------	----------------	---------------	-------------------	-------------

MS# Sample # %ASB

13 - 787476 0%  
13 - 787477 0%  
13 - 787478 0%  
13 - 787479 0%  
13 - 787480 0%

Hallways 101, 102, 103 & 104	14	3	acoustical tile		0%	24 sq.ft.	OMG	0		\$0	\$0	\$0
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MS# Sample # %ASB

14 - 787481 0%  
14 - 787482 0%  
14 - 787483 0%

AREA #	5. TOTALS	\$0	\$0	\$0
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\*\* Area 6. 1st Floor-Above Semipermanent Ceiling

AHERA Damage Code: 1

Response Action: 2

Potential for Disturbance: 2

Hallway 101	11	3	debris		5%	2 sq.ft.	OMF	40	II	\$100	\$0	\$100
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ASBESTOS ASSESSMENT SURVEY  
Oregon State University

Page: 14

Project Number: 5749032V.Q  
Building Number: 128  
Building Name: Wiegand Hall  
Address : Corvallis, OR

Building Type: 05  
Year Constructed: UNKN  
Date Inspected: 04/03/91  
Inspector: Fansher/Voth

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
----------	---------------------	---------------	----------------------	---------	-------	----------	----------	---------	----------------	---------------	-------------------	-------------

MS# Sample # %ASB  
11 - 787470 5%  
11 - 787471 5%  
11 - 787472 5%

The debris was in poor condition with damage. The material should be removed.

AREA #	6. TOTALS	\$100	\$0	\$100
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\*\* Area 7. 2nd Floor

AHERA Damage Code: 1

Response Action: 67

Potential for Disturbance: 2

Room 225	15	3	wrapped cardboard/paper pipe	DW	10%	8 ft. 4 in. O.D. OMA	38	III	\$71	\$45	\$116
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MS# Sample # %ASB  
15 - 793500 10%  
15 - 793501 8%  
15 - 793502 10%

Room 225	16	3	mjp on wrapped cardboard/paper	DW	25%	2 4 in. joint	OMA	38	III	\$56	\$31	\$87
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MS# Sample # %ASB  
16 - 793503 20%  
16 - 793504 20%  
16 - 793505 25%

ASBESTOS ASSESSMENT SURVEY  
Oregon State University

Page: 15

Project Number: 5749032V.0  
Building Number: 128  
Building Name: Wiegand Hall  
Address : Corvallis, OR

Building Type: 05  
Year Constructed: UNKN  
Date Inspected: 04/03/91  
Inspector: Fansher/Voth

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
----------	---------------------	---------------	----------------------	---------	-------	----------	----------	---------	----------------	---------------	-------------------	-------------

The materials were in good condition with no visible damage. The materials should be monitored under an operations and maintenance program until removed.

AREA # 7. TOTALS \$127 \$76 \$203

\*\* Area 8. 2nd Floor-Above Drop Ceiling  
AHERA Damage Code: 1 Response Action: 67 Potential for Disturbance: 3

Throughout	17	3	exterior duct insulation		70%	3000 sq.ft.	OMB	38	III	\$71,730	\$57,780	\$129,510
MS#	Sample #	%ASB										
17	- 793506	70%										
17	- 793507	70%										
17	- 793508	70%										
Hallway near room 220	18	3	mjp on nonsuspect pipe cover	LPS/R	0%	7 4 in. joint	OMA	0		\$0	\$0	\$0
Hallway near room 220	18	3	mjp on nonsuspect pipe cover	LPS/R	0%	3 6 in. joint	OMA	0		\$0	\$0	\$0

MS# Sample # %ASB  
18 - 793509 0%  
18 - 793510 0%  
18 - 793511 0%

AREA # 8. TOTALS \$71,730 \$57,780 \$129,510

Due to limited access the quantities listed were taken from blueprints and drawings. The materials that were accessible were in fair condition with minor contact damage. The materials should be repaired and monitored as part of an operations and maintenance program until removed.

ASBESTOS ASSESSMENT SURVEY  
Oregon State University

Project Number: 5749032V.0  
Building Number: 128  
Building Name: Wiegand Hall  
Address : Corvallis, OR

Page: 16  
Building Type: 05  
Year Constructed: UNKN  
Date Inspected: 04/03/91  
Inspector: Fansher/Voth

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
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\*\* Area 9. 2nd Floor  
 AHERA Damage Code: 4      Response Action: 67      Potential for Disturbance: 3

halloways 201-205	19	5	drop or lay-in panel		0%	3532 sq.ft.	OMG	0		\$0	\$0	\$0
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MS#	Sample #	%ASB
19	- 793512	0%
19	- 793513	0%
19	- 793514	0%
19	- 793515	0%
19	- 793516	0%

AREA #	9. TOTALS	\$0	\$0	\$0
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BUILDING # 128	TOTALS	\$207,627	\$149,663	\$357,290
	REPORT TOTALS	\$207,627	\$149,663	\$357,290

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.  
ASBESTOS PETROGRAPHIC ANALYSIS

PAGE: 1

CLIENT: State of Oregon  
PROJECT # 5749032V.Q Oregon State University

BUILDING: 128  
Wiegand Hall

GROUP#	SAMPLE NUMBER	ANALYSIS ANALYSIS	ANALYSIS TYPE	CONS	HOMOG	COLOR	TOT ASB	ASBESTOS				ACT /TRE	OTHER MATERIALS							
								CHRY	AMO	CRO	ANT		WOOL	CEL	MICA	PER	BIND	OTHER 1	OTHER 2	OTHER 3
1	787440	0	PRIMARY	Y	Y		60	30	30	0	0	0	0	0	0	40	0	0	0	
1	787441	0	PRIMARY	Y	Y		60	30	30	0	0	0	0	0	0	40	0	0	0	
1	787442	0	PRIMARY	Y	Y		60	30	30	0	0	0	0	0	0	40	0	0	0	
2	787443	0	PRIMARY	Y	Y		55	40	15	0	0	0	0	0	0	45	0	0	0	
2	787444	0	PRIMARY	Y	Y		50	40	10	0	0	0	0	0	0	50	0	0	0	
2	787445	0	PRIMARY	Y	Y		55	40	15	0	0	0	0	0	0	45	0	0	0	
3	787446	0	PRIMARY	Y	Y		10	10	0	0	0	0	60	15	0	0	15	0	0	0
3	787447	0	PRIMARY	Y	Y		10	10	0	0	0	0	60	15	0	0	15	0	0	0
3	787448	0	PRIMARY	Y	Y		10	10	0	0	0	0	60	15	0	0	15	0	0	0
4	787449	0	PRIMARY	Y	N		T	T	0	0	0	0	0	85	0	0	15	0	0	0
4	787450	0	PRIMARY	Y	N		T	T	0	0	0	0	0	85	0	0	15	0	0	0
4	787451	0	PRIMARY	Y	N		0	0	0	0	0	0	0	85	0	0	15	0	0	0
5	787452	0	PRIMARY	Y	Y		55	45	10	0	0	0	0	0	0	0	45	0	0	0
5	787453	0	PRIMARY	Y	Y		55	45	10	0	0	0	0	0	0	0	45	0	0	0
5	787454	0	PRIMARY	Y	Y		55	45	10	0	0	0	0	0	0	0	45	0	0	0
6	787455	0	PRIMARY	Y	N		0	0	0	0	0	0	5	70	0	0	10	10 TA	5 MF	0
6	787456	0	PRIMARY	Y	N		0	0	0	0	0	0	5	70	0	0	10	10 TA	5 MF	0
6	787457	0	PRIMARY	Y	N		0	0	0	0	0	0	5	70	0	0	10	10 TA	5 MF	0
7	787458	0	PRIMARY	Y	Y		10	10	0	0	0	0	50	0	0	0	40	0	0	0
7	787459	0	PRIMARY	N	Y		60	30	30	0	0	0	0	0	0	0	40	0	0	0
7	787460	0	PRIMARY	Y	Y		10	10	0	0	0	0	50	0	0	0	40	0	0	0
8	787461	0	PRIMARY	Y	Y		10	10	0	0	0	0	40	10	0	0	40	0	0	0
8	787462	0	PRIMARY	N	Y		45	15	30	0	0	0	0	0	0	0	55	0	0	0
8	787463	0	PRIMARY	Y	Y		10	10	0	0	0	0	40	10	0	0	40	0	0	0
9	787464	0	PRIMARY	N	N		17	15	2	0	0	0	0	73	0	0	10	0	0	0
9	787465	0	PRIMARY	Y	N		5	5	0	0	0	0	0	85	0	0	10	0	0	0
9	787466	0	PRIMARY	Y	N		5	5	0	0	0	0	0	85	0	0	10	0	0	0
10	787467	0	PRIMARY	Y	Y		45	30	15	0	0	0	0	0	0	0	55	0	0	0
10	787468	0	PRIMARY	Y	Y		45	30	15	0	0	0	0	0	0	0	55	0	0	0
10	787469	0	PRIMARY	Y	Y		45	30	15	0	0	0	0	0	0	0	55	0	0	0
11	787470	0	PRIMARY	Y	N		5	5	0	0	0	0	0	85	0	0	10	0	0	0

Analysis: 0 = Primary Analysis (Entire Sample)  
1-4 = Subanalyses

T = Trace of Asbestos

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.  
ASBESTOS PETROGRAPHIC ANALYSIS

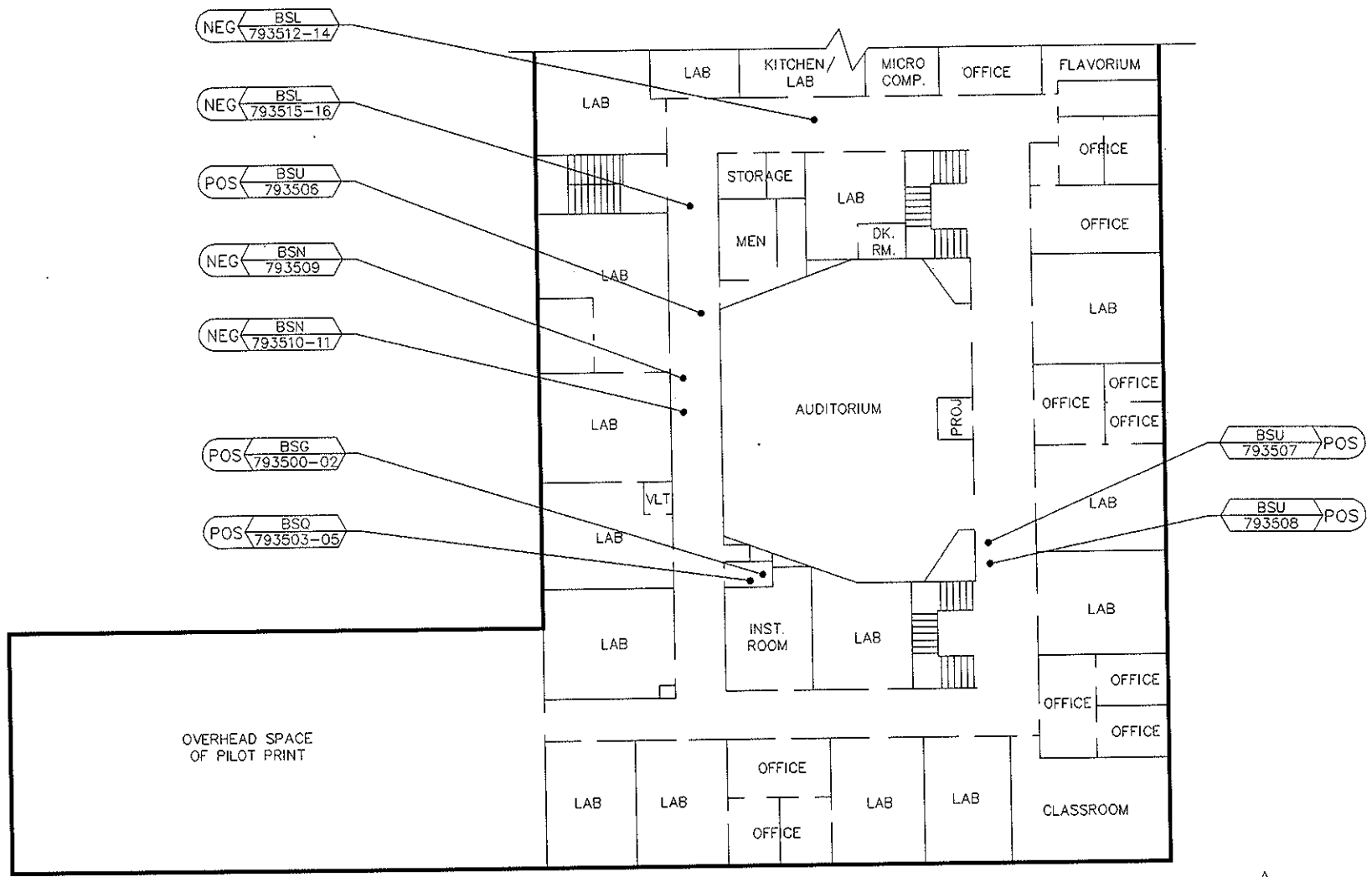
CLIENT: State of Oregon  
PROJECT # 5749032V.Q Oregon State University

BUILDING: 128  
Wiegand Hall

GROUP#	SAMPLE NUMBER	ANALYSIS ANALYSIS	TYPE	CONS	HOMOG	COLOR	TOT ASB	ASBESTOS				ACT /TRE	OTHER MATERIALS							
								CHRY	AMO	CRO	ANT		WOOL	CEL	MICA	PER	BIND	OTHER 1	OTHER 2	OTHER 3
11	787471	0	PRIMARY	Y	N		5	5	0	0	0	0	0	85	0	0	10	0	0	0
11	787472	0	PRIMARY	Y	N		5	5	0	0	0	0	0	85	0	0	10	0	0	0
12	787473	0	PRIMARY	Y	Y		60	60	0	0	0	0	0	30	0	0	10	0	0	0
12	787474	0	PRIMARY	Y	Y		60	60	0	0	0	0	0	30	0	0	10	0	0	0
12	787475	0	PRIMARY	Y	Y		60	60	0	0	0	0	0	30	0	0	10	0	0	0
13	787476	0	PRIMARY	Y	Y		0	0	0	0	0	0	90	0	0	0	10	0	0	0
13	787477	0	PRIMARY	Y	Y		0	0	0	0	0	0	90	0	0	0	10	0	0	0
13	787478	0	PRIMARY	Y	Y		0	0	0	0	0	0	90	0	0	0	10	0	0	0
13	787479	0	PRIMARY	Y	Y		0	0	0	0	0	0	90	0	0	0	10	0	0	0
13	787480	0	PRIMARY	Y	Y		0	0	0	0	0	0	90	0	0	0	10	0	0	0
14	787481	0	PRIMARY	Y	Y		0	0	0	0	0	0	50	40	0	0	10	0	0	0
14	787482	0	PRIMARY	Y	Y		0	0	0	0	0	0	50	40	0	0	10	0	0	0
14	787483	0	PRIMARY	Y	Y		0	0	0	0	0	0	50	40	0	0	10	0	0	0
15	793500	0	PRIMARY	Y	N		10	10	0	0	0	0	0	80	0	0	0	10 TA	0	0
15	793501	0	PRIMARY	Y	N		8	8	0	0	0	0	0	85	0	0	0	7 TA	0	0
15	793502	0	PRIMARY	Y	N		10	10	0	0	0	0	0	80	0	0	0	10 TA	0	0
16	793503	0	PRIMARY	Y	N		20	10	10	0	0	0	0	0	0	0	80	0	0	0
16	793504	0	PRIMARY	Y	N		20	10	10	0	0	0	0	0	0	0	80	0	0	0
16	793505	0	PRIMARY	Y	N		25	15	10	0	0	0	0	0	0	0	75	0	0	0
17	793506	0	PRIMARY	Y	Y		70	70	0	0	0	0	0	0	0	0	30	0	0	0
17	793507	0	PRIMARY	Y	Y		70	70	0	0	0	0	0	0	0	0	30	0	0	0
17	793508	0	PRIMARY	Y	Y		70	70	0	0	0	0	0	0	0	0	30	0	0	0
18	793509	0	PRIMARY	Y	Y		0	0	0	0	0	0	35	5	0	0	50	10 DI	0	0
18	793510	0	PRIMARY	Y	Y		0	0	0	0	0	0	35	5	0	0	50	10 DI	0	0
18	793511	0	PRIMARY	Y	Y		0	0	0	0	0	0	35	5	0	0	50	10 DI	0	0
19	793512	0	PRIMARY	Y	Y		0	0	0	0	0	0	40	40	0	10	10	0	0	0
19	793513	0	PRIMARY	Y	Y		0	0	0	0	0	0	40	40	0	10	10	0	0	0
19	793514	0	PRIMARY	Y	Y		0	0	0	0	0	0	40	40	0	10	10	0	0	0
19	793515	0	PRIMARY	Y	Y		0	0	0	0	0	0	40	40	0	10	10	0	0	0
19	793516	0	PRIMARY	Y	Y		0	0	0	0	0	0	40	40	0	10	10	0	0	0
20	793527	0	PRIMARY	Y	Y		2	2	0	0	0	0	38	10	0	0	40	10 DI	0	0
20	793528	0	PRIMARY	Y	Y		2	2	0	0	0	0	38	10	0	0	40	10 DI	0	0
20	793529	0	PRIMARY	Y	Y		2	2	0	0	0	0	38	10	0	0	40	10 DI	0	0

Analysis: 0 = Primary Analysis (Entire Sample)  
1-4 = Subanalyses

T = Trace of Asbestos

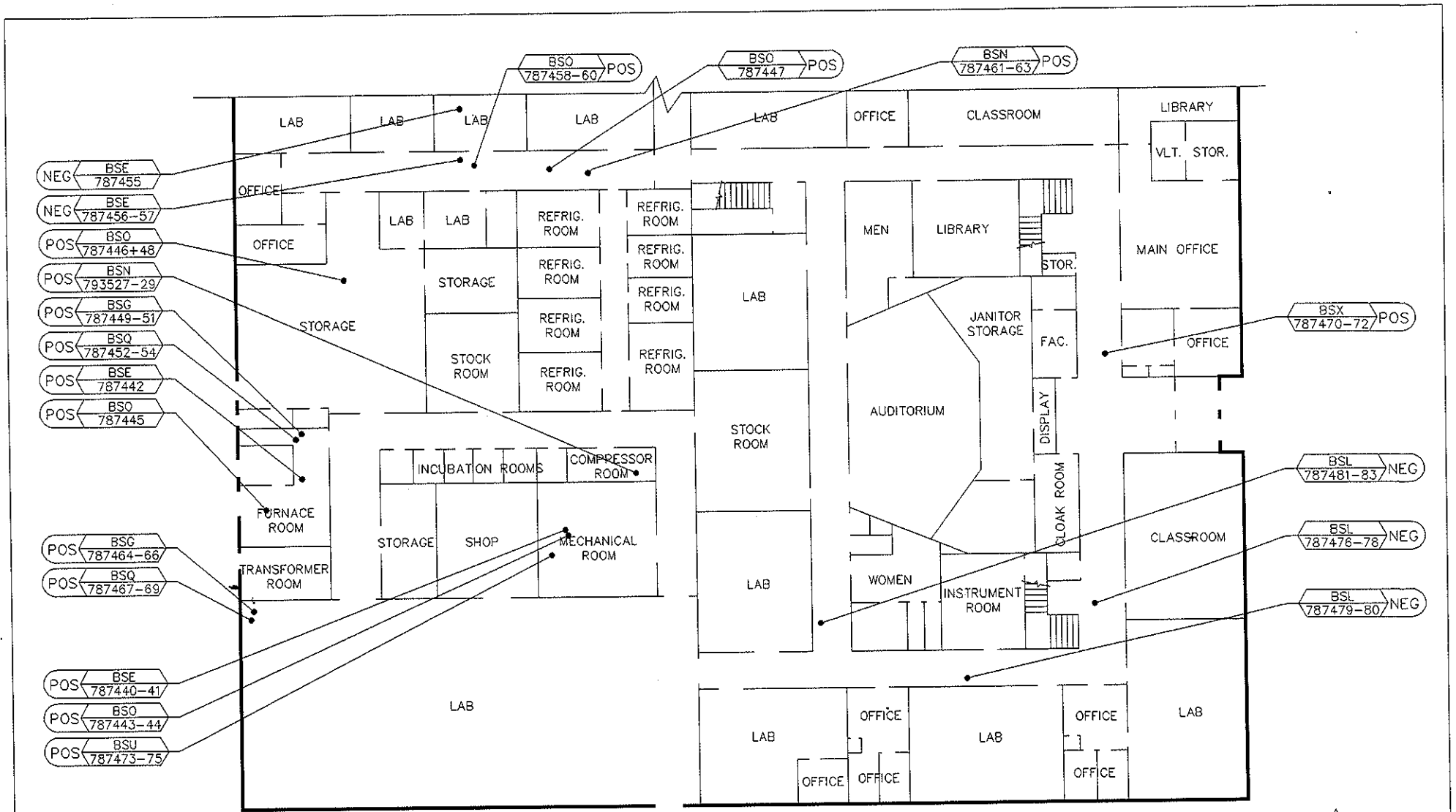


SECOND FLOOR  
NOT TO SCALE



LAB ANALYSIS POS BSC NEG 123456-78	BULK SAMPLE CODE	DESIGNED BY: FANSHER/VOTH	Professional Service Industries, Inc. 4821 S.W. Kelly Avenue Portland, Oregon 97201	PROJECT NO. 574-09-032
	SAMPLE IDENTIFICATION NUMBER	DRAWN BY: A. CRAIG		SHEET NO. 32V1288
DROP, LAY-IN, ACOUSTICAL	SPRAY/TROWEL APPLIED MATERIAL	CHECKED BY: P. QUINN	STATE OF OREGON OREGON STATE UNIVERSITY WIEGAND HALL BLDG 128 SECOND FLOOR	
		DATE: 07-12-91		





FIRST FLOOR  
NOT TO SCALE

LAB ANALYSIS	POS	BSC	BULK SAMPLE CODE	DESIGNED BY:	<b>PSI</b> Professional Service Industries, Inc.	PROJECT NO.
	NEG	123456-78		FANSHER/VOTH		574-09-032
			SAMPLE IDENTIFICATION NUMBER	DRAWN BY:	4621 S.W. Kelly Avenue Portland, Oregon 97201	SHEET NO.
				A. CRAIG		32V128A
				CHECKED BY:	STATE OF OREGON OREGON STATE UNIVERSITY WIEGAND HALL BLDG 128 FIRST FLOOR	
				P. QUINN		
				DATE:		
				07-12-91		

DROP, LAY-IN, ACOUSTICAL

SPRAY/TROWEL APPLIED MATERIAL

## Oregon State University Suspect Miscellaneous Materials

<u>Location</u>	<u>Description</u>	<u>Quantity</u>
<b>128 Wiegand Hall</b>		
1st Floor Throughout	Fire Doors	15
1st Floor Throughout	Fire Blankets	50 sf.
1st Floor Throughout	Cementitious Hoods	110 sf.
1st Floor Throughout	9"x9" Vinyl Floor Tile	8,510 sf.
1st Floor Throughout	1'x1' Vinyl Floor Tile	200 sf.
1st Floor Throughout	Cementitious Counter Tops	120 sf.
1st Floor Lab Rm. 2	Cementitious Cart Shelves	12 sf.
2nd Floor Gallery-Oven	Gasket	10 sf.
2nd Floor Throughout	9"x9" Vinyl Floor Tile	12,000 sf.
2nd Floor Rm. 236	1'x1' Vinyl Floor Tile	383 sf.
2nd Floor Rms. 204, 206, 208 & 208A	Linoleum	1,027 sf.
2nd Floor Throughout	Cementitious Counter Tops	70 sf.
2nd Floor Throughout	Cementitious Hoods	250 sf.
2nd Floor Throughout	Fire Blankets	80 sf.



**Professional Service Industries, Inc.**  
Hall-Kimbrell Division

OREGON STATE UNIVERSITY PHOTOGRAPH LOG

Project Name: State of Oregon

Project Number: 574-09-032V

Inspector: G. Fansher

Date: 5-06-91 Roll #: OR-252

Photo. Num.	Bldg. Name	Bldg. Number	Area Description	Photo Location/Description
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13	Wiegand Hall	128	Second Floor	H203 / Ceiling Tile
14	Wiegand Hall	128	First Floor	H101 / Ceiling Tile
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				



**Professional Service Industries, Inc.**  
Hall-Kimbrell Division

OREGON STATE UNIVERSITY PHOTOGRAPH LOG

Project Name: State of Oregon

Project Number: 574-09-032V

Inspector: G. Fansher

Date: 4-2-91 Roll #: OR-170

Photo. Num.	Bldg. Name	Bldg. Number	Area Description	Photo Location/Description
1				
2				
3				
4				
5	Wiegand Hall	128	1st Floor	Room 18/Pipe Insulation
6				
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