ASBESTOS BUILDING INSPECTION

LOCATION:

LIBRARY EAST
1825 SW BROADWAY
PORTLAND, OREGON 97201

JUNE 23, 2008

FORENSIC ANALYTICAL PROJECT NO. PJ5592

PREPARED FOR:

PORTLAND STATE UNIVERSITY
PO BOX 13175
PORTLAND, OREGON 97403

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 Specialties, Inc. performed an inspection to identify asbestos-containing building materials at the property located at 1825 SW Broadway, Portland, Oregon. Dan Rouse, Noal Kraft, and Robin Sharpe conducted the field investigation on June 5, 2008 at the direction of Kate Vance of Portland State University.

The purpose of the inspection is to determine whether ACM is present in the structures onsite. The subject property was built in 1960 and 1963, and consists of a five-story building with a basement.

This report presents the results of the asbestos inspection conducted by Forensic Analytical Consulting Services, Inc. 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.

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 PSU. The sample ID includes; the PSU 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

Forensic Analytical 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. Forensic Analytical 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. 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.

At PSU's request, the roofs were not sampled as part of this inspection. In addition, the following areas were inaccessible at the time of the survey: 18M, 55 and 120.

Forensic Analytical 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

Reviewed by,

Noal Kraft

APPENDIX A

COMPLETE SAMPLE INVENTORY

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
LIBE-01-FT-1	Floor Tile, 12" x 12" Black w/ White Specks, and Tan Mastic	CM306	-	ND	-	-
LIBE-02-FT-1	Floor Tile, 12" x 12" Dark Mauve Specked, and Tan Mastic	CM306	-	ND	-	-
LIBE-03-FT-1	Floor Tile, 9" x 9" Brown Specked, and Tan Mastic	CM308	-	ND	-	-
LIBE-04-CT-1	Ceiling Tile, 2' x 4' Fissured w/ Pinholes	CM302	CM302, VM302 and CM310	2% Chrysotile	310 sq. ft.	Fair
LIBE-05-DWJC-1	Drywall & Joint Compound	VM302	Throughout	ND Drywall 2% Chrysotile Joint Compound	Not Quantified	Fair
LIBE-05-DWJC-2	Drywall & Joint Compound	CM108	Throughout	ND Drywall 2% Chrysotile Joint Compound*	Not Quantified	Fair
LIBE-05-DWJC-3	Drywall & Joint Compound	CM102	Throughout	ND Drywall 2% Chrysotile Joint Compound*	Not Quantified	Fair
LIBE-05-DWJC-4	Drywall & Joint Compound	CM108	Throughout	ND Drywall 2% Chrysotile Joint Compound*	Not Quantified	Fair

ND – Non-Detected

* This sample is part of a set in which one of the samples tested positive for asbestos.

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
LIBE-05-DWJC-5	Drywall & Joint Compound	CM303	Throughout	ND Drywall 2% Chrysotile Joint Compound*	Not Quantified	Fair
LIBE-05-DWJC-6	Drywall & Joint Compound	M107	Throughout	ND Drywall 2% Chrysotile Joint Compound*	Not Quantified	Fair
LIBE-05-DWJC-7	Drywall & Joint Compound	C209	Throughout	ND Drywall 2% Chrysotile Joint Compound*	Not Quantified	Fair
LIBE-06-PL-1	Plaster, Wall	CM301	-	ND	-	-
LIBE-06-PL-2	Plaster, Wall	219	-	ND	-	-
LIBE-06-PL-3	Plaster, Wall	C4	-	ND	-	-
LIBE-06-PL-4	Plaster, Ceiling	C4	-	ND	-	-
LIBE-06-PL-5	Plaster, Wall	S114	-	ND	-	-
LIBE-06-PL-6	Plaster, Wall	S105	-	ND	-	-

ND – Non-Detected

* This sample is part of a set in which one of the samples tested positive for asbestos.

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
LIBE-06-PL-7	Plaster, Wall	S205	-	-	-	-
LIBE-07-CB-1	Cove Base, 4" Brown, and Brown Adhesive	CM302	-	ND	-	-
LIBE-08-CT-1	Ceiling Tile, 2' x 4' (2' x 2' Pattern)	M334	-	ND	-	-
LIBE-09-SU-1	Sink Undercoating, Gray	M331	-	ND	-	-
LIBE-10-FT-1	Floor Tile, 9" x 9" Black w/ White Streaks, and Tan Mastic	SM105	-	ND	-	-
LIBE-11-ST-1	Stair Tread, Grey, and Tan Mastic	S105	-	ND	-	-
LIBE-12-FT-1	Floor Tile, 12" x 12" Tan w/ Brown Specks, and Tan Mastic	CM108	-	ND	-	-
LIBE-13-FT-1	Floor Tile, 12" x 12" Brown w/ Black Specks, and Tan Mastic	M108A	-	ND	-	-
LIBE-14-CB-1	Cove Base, 6" Black, and Tan Adhesive	M108A	-	ND	-	-
LIBE-15-FT-1	Floor Tile, 12" x 12" Purple w/ White and Black Specks, and Tan Mastic	C209	-	ND	-	-
LIBE-16-FT-1	Floor Tile, 12" x 12" Yellow Specked, and Tan Mastic	209	-	ND	-	-
LIBE-17-FT-1	Floor Tile, 12" x 12" Olive Green Specked, and Tan Mastic	209	-	ND	-	-

ND – Non-Detected

* This sample is part of a set in which one of the samples tested positive for asbestos.

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
LIBE-18-CT-1	Ceiling Tile, 2' x 4' Pinholes	209	-	ND	-	-
LIBE-19-ST-1	Stair Tread, Black, and Tan Mastic	S205	-	ND	-	-
LIBE-20-FT-1	Floor Tile, 12" x 12" Beige w/Green Specks, and Black Mastic	C102	C102	2% Chrysotile Tile ND Mastic	105 sq. ft.	Fair
LIBE-21-FT-1	Floor Tile, 9" x 9" Tan w/ White Streaks, and Black Mastic	118A	9, 53, 118A, 218	5% Chrysotile Tile 5% Chrysotile Mastic	170 sq. ft.	Fair
LIBE-22-TSI-1	Rigid Pipe Insulation	123	Throughout	15% Amosite	Not Quantified	Fair
LIBE-22-TSI-2	Rigid Pipe Insulation	410	Throughout	15% Amosite *	Not Quantified	Fair
LIBE-22-TSI-3	Rigid Pipe Insulation	410	Throughout	15% Amosite *	Not Quantified	Fair
LIBE-23-TSI-1	Pipe Fitting Insulation on Rigid Insulated Pipe	123	Throughout	15% Amosite	Not Quantified	Fair
LIBE-23-TSI-2	Pipe Fitting Insulation on Rigid Insulated Pipe	410	Throughout	15% Amosite *	Not Quantified	Fair
LIBE-23-TSI-3	Pipe Fitting Insulation on Rigid Insulated Pipe	410	Throughout	15% Amosite *	Not Quantified	Fair
LIBE-24-DST-1	Duct Seam Tape	123	Throughout	70% Chrysotile	Not Quantified	Fair

ND – Non-Detected
* This sample is part of a set in which one of the samples tested positive for asbestos.

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
LIBE-25-FT-1	Floor Tile, 9" x 9" Orange w/ White Streaks, and Black Mastic	S14	51, S14, S105	5% Chrysotile Tile 5% Chrysotile Mastic	180 sq. ft.	Fair
LIBE-26-ST-1	Stair Tread, Orange w/ White Streaks, and Tan Mastic	S14	-	ND	-	-
LIBE-27-FT-1	Floor Tile, 9" x 9" Grey w/ White Streaks, and Black Mastic	C4	6B, C4, MS104, S204, S304	5% Chrysotile Tile 5% Chrysotile Mastic	585 sq. ft.	Fair
LIBE-28-FT-1	Floor Tile, 9" x 9" Beige Marbled, and Tan Mastic	M304	-	ND	-	-
LIBE-29-FT-1	Floor Tile, 9" x 9" Black w/ Large White Streaks, and Black Mastic	M301	18K, M301	5% Chrysotile Tile 5% Chrysotile Mastic	285 sq. ft.	Fair
LIBE-30-FT-1	Floor Tile, 9" x 9" Green Streaked, and Black Mastic	207A	207A	5% Chrysotile Tile 5% Chrysotile Mastic	165 sq. ft.	Fair
LIBE-31-CT-1	Ceiling Tile, 2' x 2' Gouged w/ Pinholes	18J	-	ND	-	-
LIBE-32-CAB-1	Perforated Cement Asbestos Board Panels	18L	18L	20% Chrysotile	65 sq. ft.	Fair

ND – Non-Detected

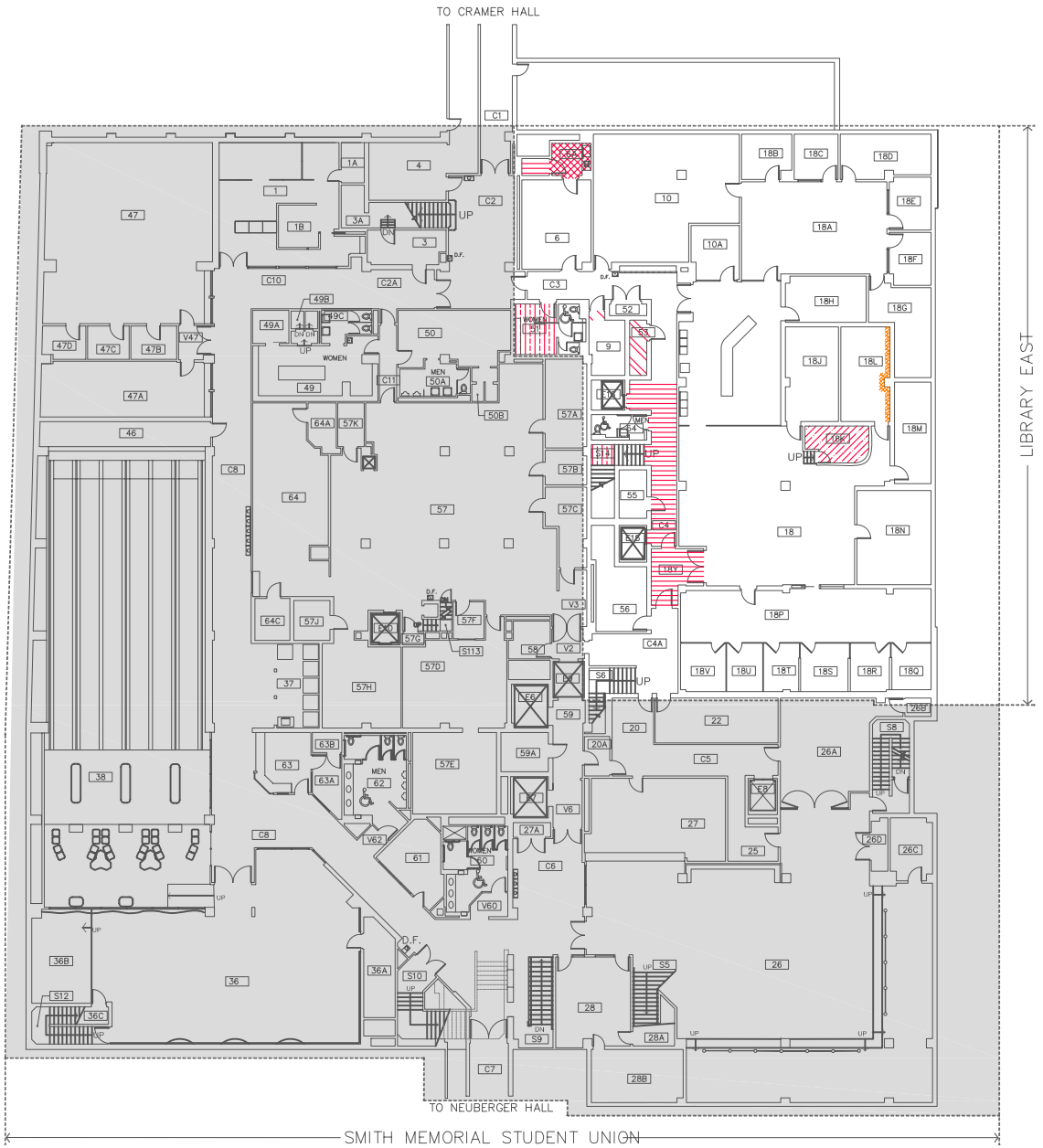
* This sample is part of a set in which one of the samples tested positive for asbestos.

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
LIBE-33-FT-1	Floor Tile, 9" x 9" Dusty Rose, and Black Mastic	6A	6A	5% Chrysotile Tile 5% Chrysotile Mastic	205 sq. ft.	Fair
LIBE-34-TSI-1	Foam Pipe Insulation	410	-	ND	-	-
LIBE-35-DSC-1	Duct Seam Compound, Grey	410	-	ND	-	-
LIBE-36-FS-1	Fire Stop, Red	410	-	Chrysotile	-	-

ND – Non-Detected
* This sample is part of a set in which one of the samples tested positive for asbestos.

APPENDIX B

SITE DRAWING(S)



- Floor Tile, 12" x 12" Beige w/ Green Specks
- Floor Tile, 9" x 9"' Tan w/ White Streaks and Black Mastic
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- Floor Tile, 9" x 9" Green Streaked and Black Mastic
- Floor Tile, 9" x 9" Dusty Rose and Black Mastic
- Ceiling Tile, 2' x 4' Fissured w/ Pinholes - Drop
- Cement Asbestos Board

ACM not shown:
Drywall and Joint Compound
Rigid Pipe Insulation
Pipe Fitting Insulation
Duct Seam Tape

DATE: 6-24-08
DRN. BY: DKR
PAGE #: ACM - 1/7

CLIENT: PSU
PROJECT: Library East
LOCATION: 1633 SW Broadway
Portland, Oregon 97201

PROJECT #: PJ5592

REVISIONS

Library East
Basement
ACM Locations

Report North

No Scale

Forensic Analytical
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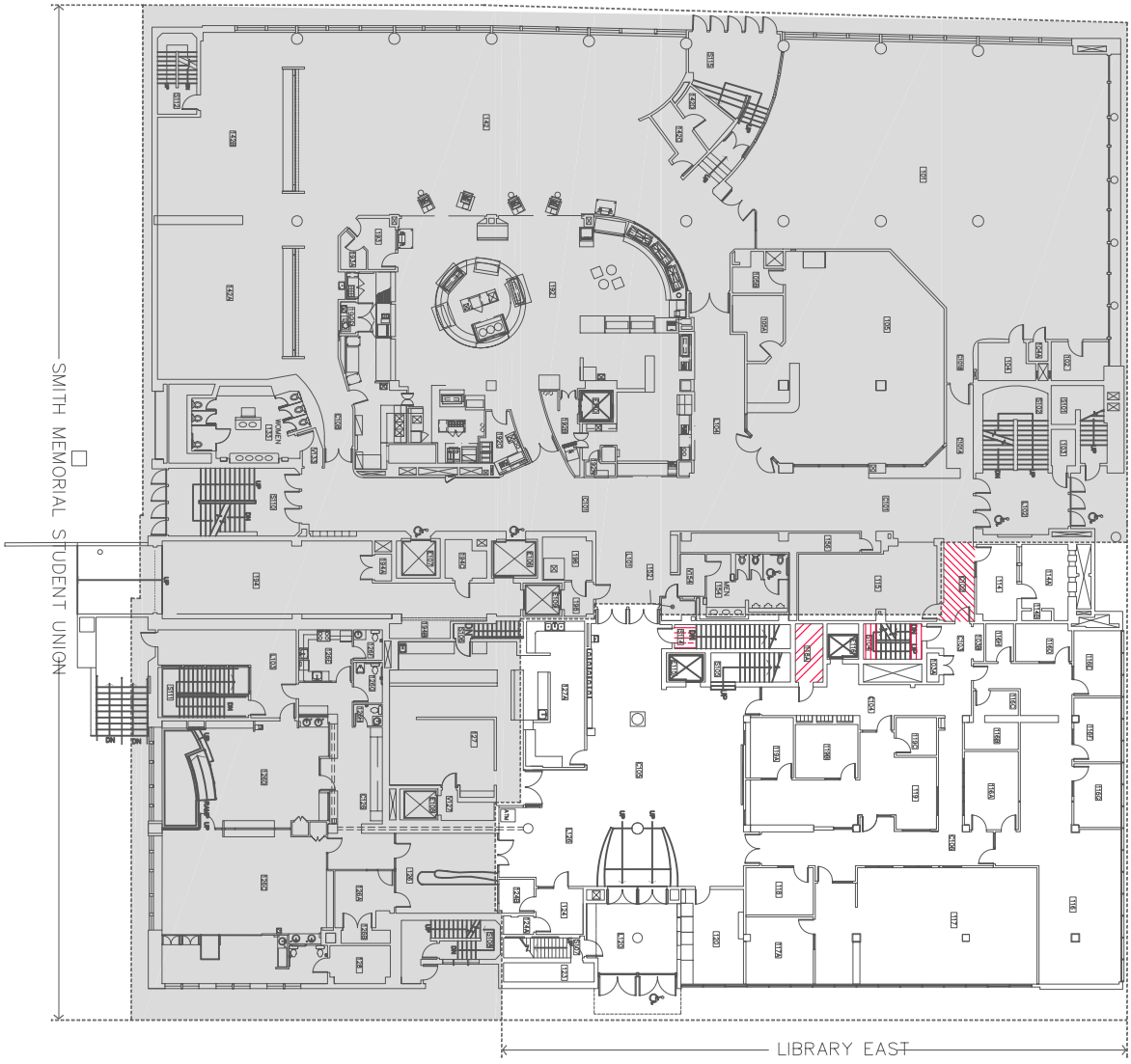

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Ceiling Tile, 2' x 4' Fissured w/ Pinholes - Drop
Cement Asbestos Board
ACM not shown:
Drywall and Joint Compound
Rigid Pipe Insulation
Pipe Fitting Insulation
Duct Seam Tape

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Sample ID # Key

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

ABC-00-FT-1

No Scale

Report North

Library East
1st Floor
ACM Locations

REVISIONS

CLIENT: PSU
PROJECT: Library East
LOCATION: 1825 SW Broadway
Portland, Oregon 97201

PROJECT #: PJ5592

DATE: 6-24-08
DRN. BY: DKR
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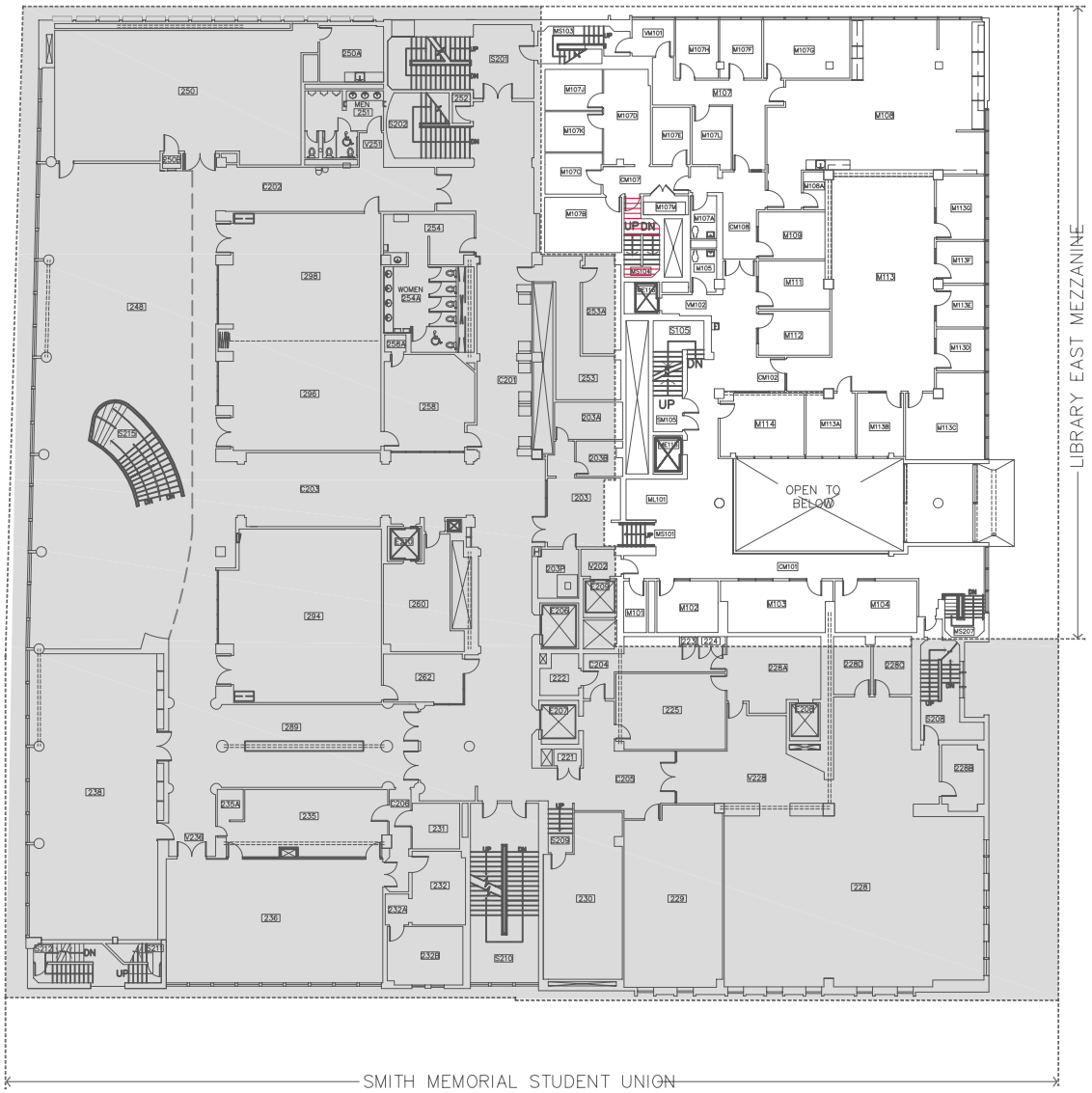

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- Floor Tile, 9" x 9" Dusty Rose and Black Mastic
- Ceiling Tile, 2' x 4' Fissured w/ Pinholes - Drop
- Cement Asbestos Board

ACM not shown:
Drywall and Joint Compound
Rigid Pipe Insulation
Pipe Fitting Insulation
Duct Seam Tape

DATE: 6-24-08
DRN. BY: DKR
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CLIENT: PSU
PROJECT: Library East
LOCATION: 1900 SW Broadway
Portland, Oregon 97201

PROJECT #: PJ5592

REVISIONS

Library East
1st Floor Mezzanine
ACM Locations

Report North

No Scale

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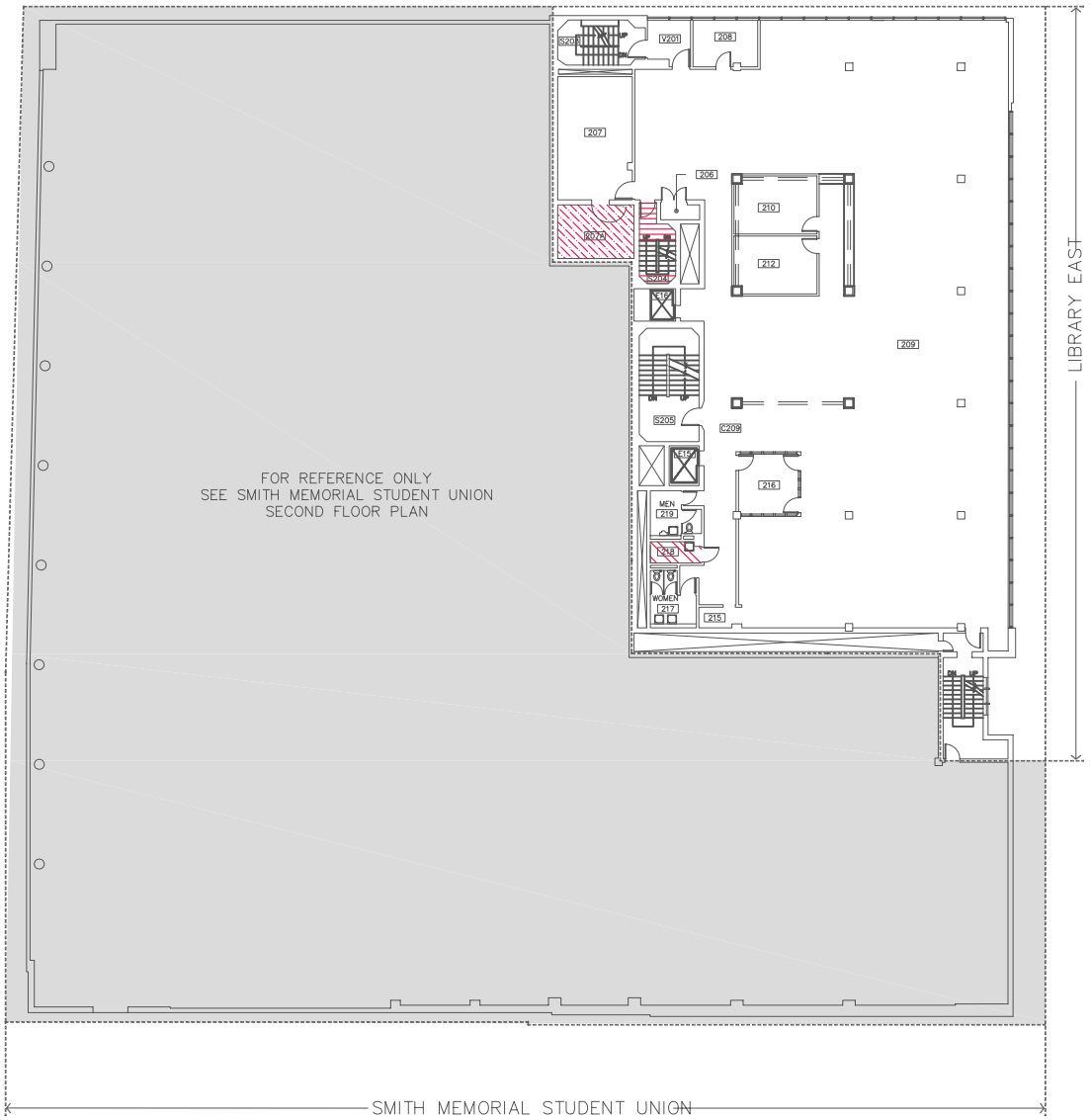

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- Ceiling Tile, 2' x 4' Fissured w/ Pinholes - Drop
- Cement Asbestos Board

ACM not shown:
Drywall and Joint Compound
Rigid Pipe Insulation
Pipe Fitting Insulation
Duct Seam Tape

DATE: 6-24-08
DRN. BY: DKR
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CLIENT: PSU
PROJECT: Library East
LOCATION: 1900 SW Broadway
Portland, Oregon 97201

PROJECT #: PJ5592

REVISIONS

Library East
2nd Floor
ACM Locations

Report North

No Scale

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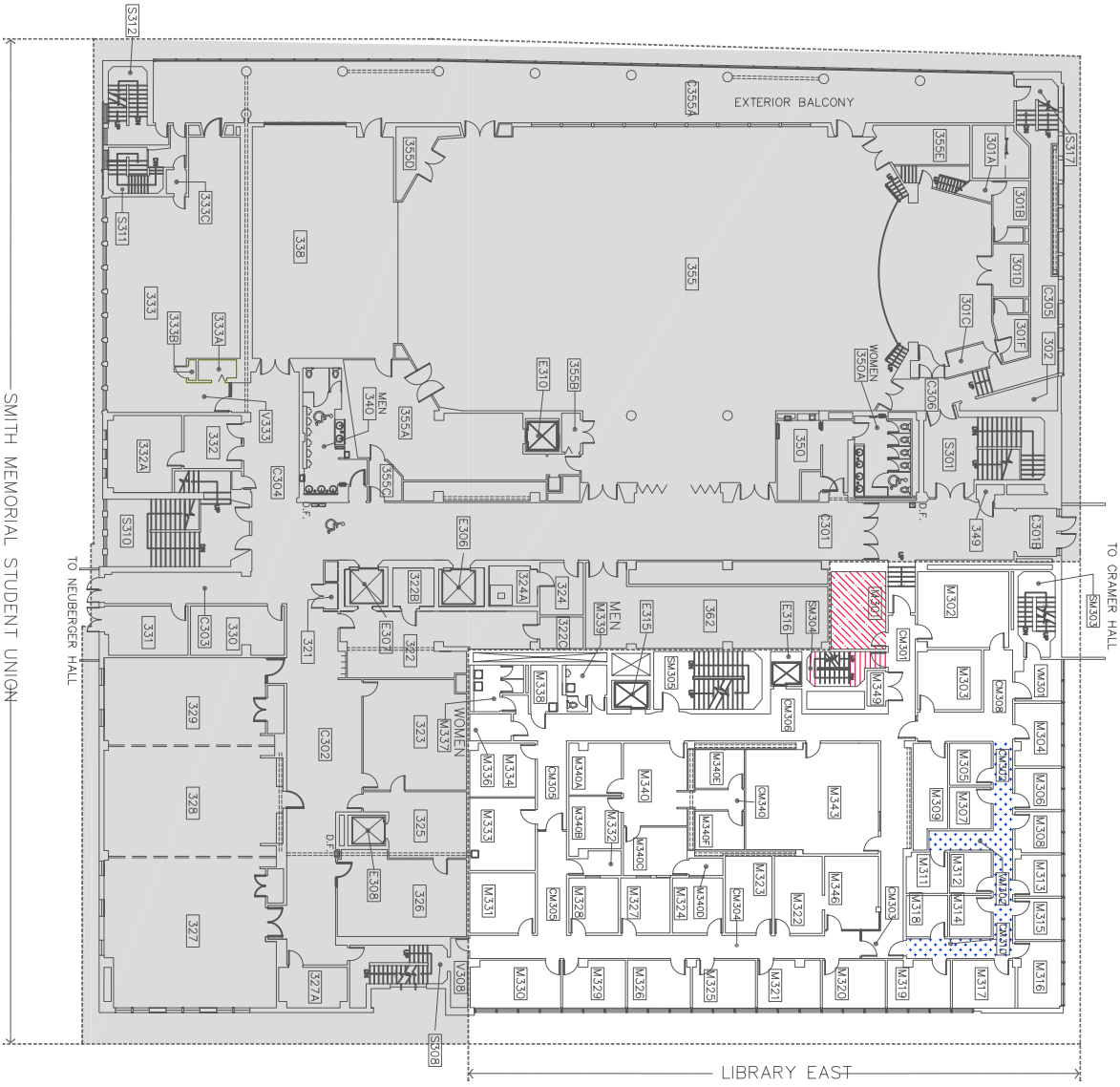

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Floor Tile, 9" x 9" Green Streaked and Black Mastic

Floor Tile, 9" x 9" Dusty Rose and Black Mastic

Ceiling Tile, 2' x 4' Fissured w/ Pinholes - Drop

Cement Asbestos Board

ACM not shown:
Drywall and Joint Compound
Rigid Pipe Insulation
Pipe Fitting Insulation
Duct Seam Tape

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No Scale

Report North

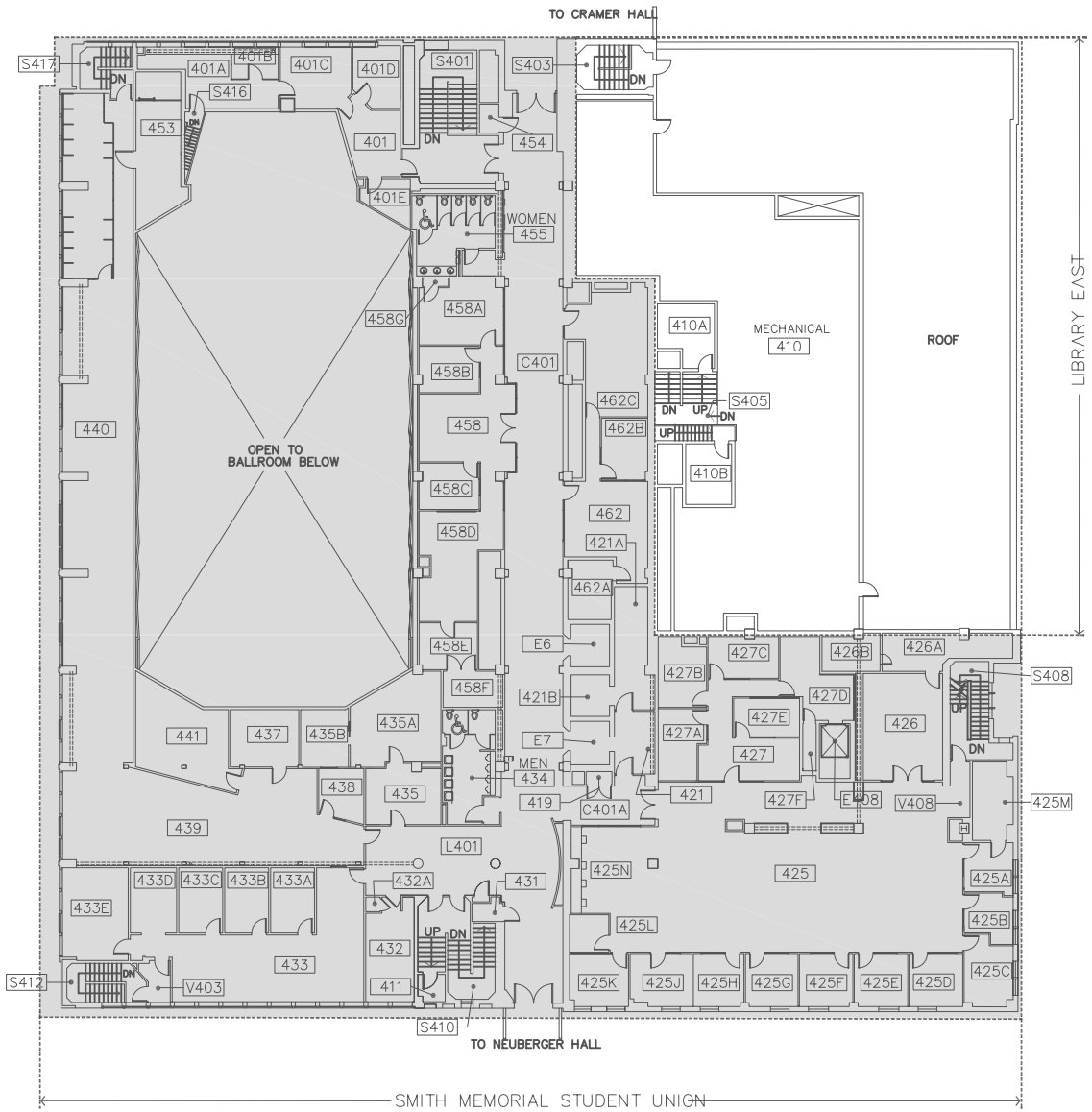
Library East
3rd Floor
ACM Locations

REVISIONS

CLIENT: PSU
PROJECT: Library East
LOCATION: 1825 SW Broadway
Portland, Oregon 97201

PROJECT #: PJ5592

DATE: 6-24-08
DRN. BY: DKR
PAGE #: ACM - 5/7



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- Ceiling Tile, 2' x 4' Fissured w/ Pinholes - Drop
- Cement Asbestos Board

ACM not shown:
Drywall and Joint Compound
Rigid Pipe Insulation
Pipe Fitting Insulation
Duct Seam Tape

DATE: 6-24-08
DRN. BY: DKR
PAGE #: ACM - 6/7

CLIENT: PSU
PROJECT: Library East
LOCATION: 1825 SW Broadway
Portland, Oregon 97201

PROJECT #: PJ5592

REVISIONS

Library East
4th Floor
ACM Locations

Report North

No Scale

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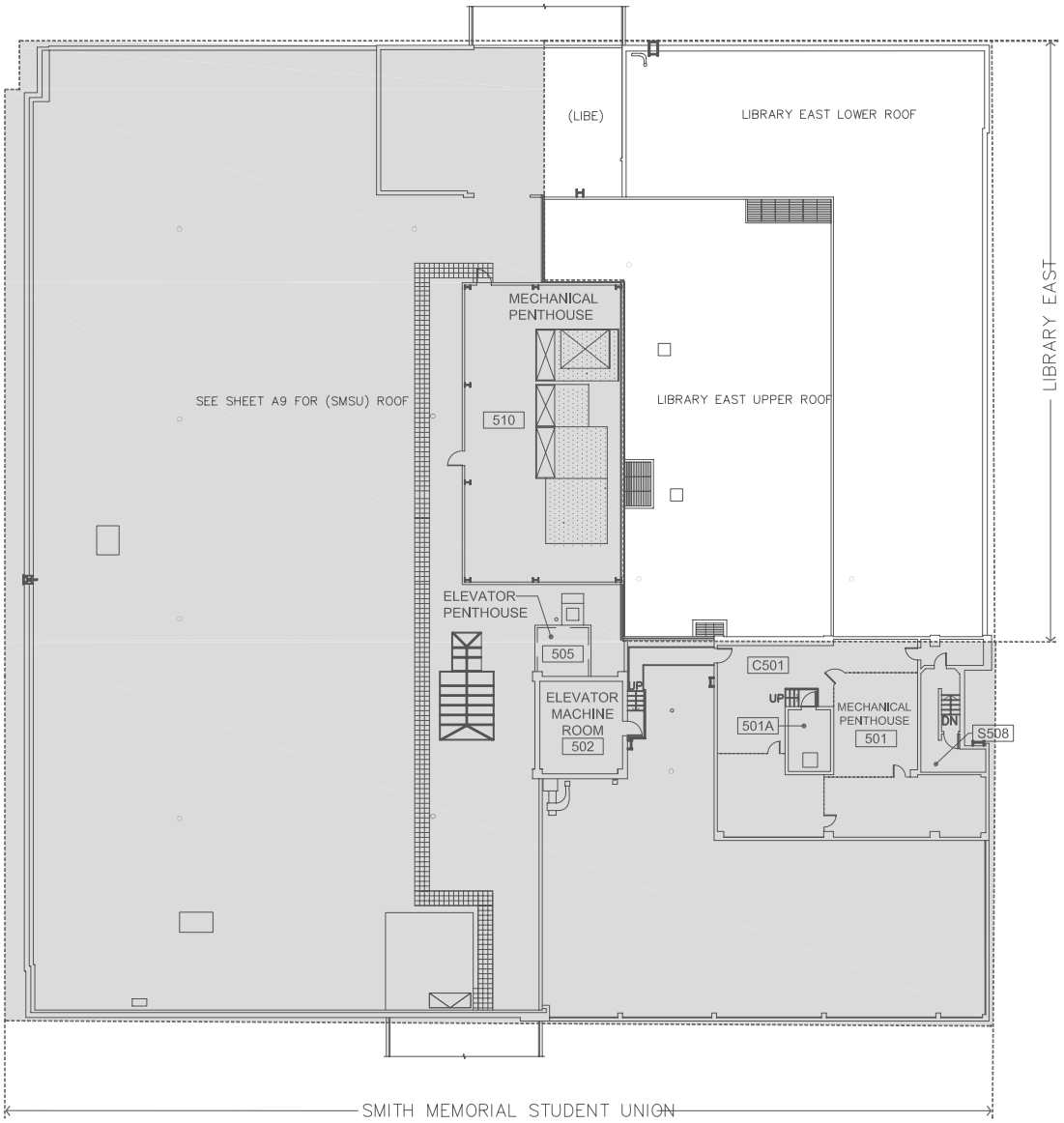

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- Cement Asbestos Board

ACM not shown:
Drywall and Joint Compound
Rigid Pipe Insulation
Pipe Fitting Insulation
Duct Seam Tape

DATE: 6-24-08
DRN. BY: DKR
PAGE #: ACM - 7/7

CLIENT: PSU
PROJECT: Library East
LOCATION: 1900 SW Broadway
Portland, Oregon 97201

PROJECT #: PJ5592

REVISIONS

Library East
Roof
ACM Locations

Report North

No Scale

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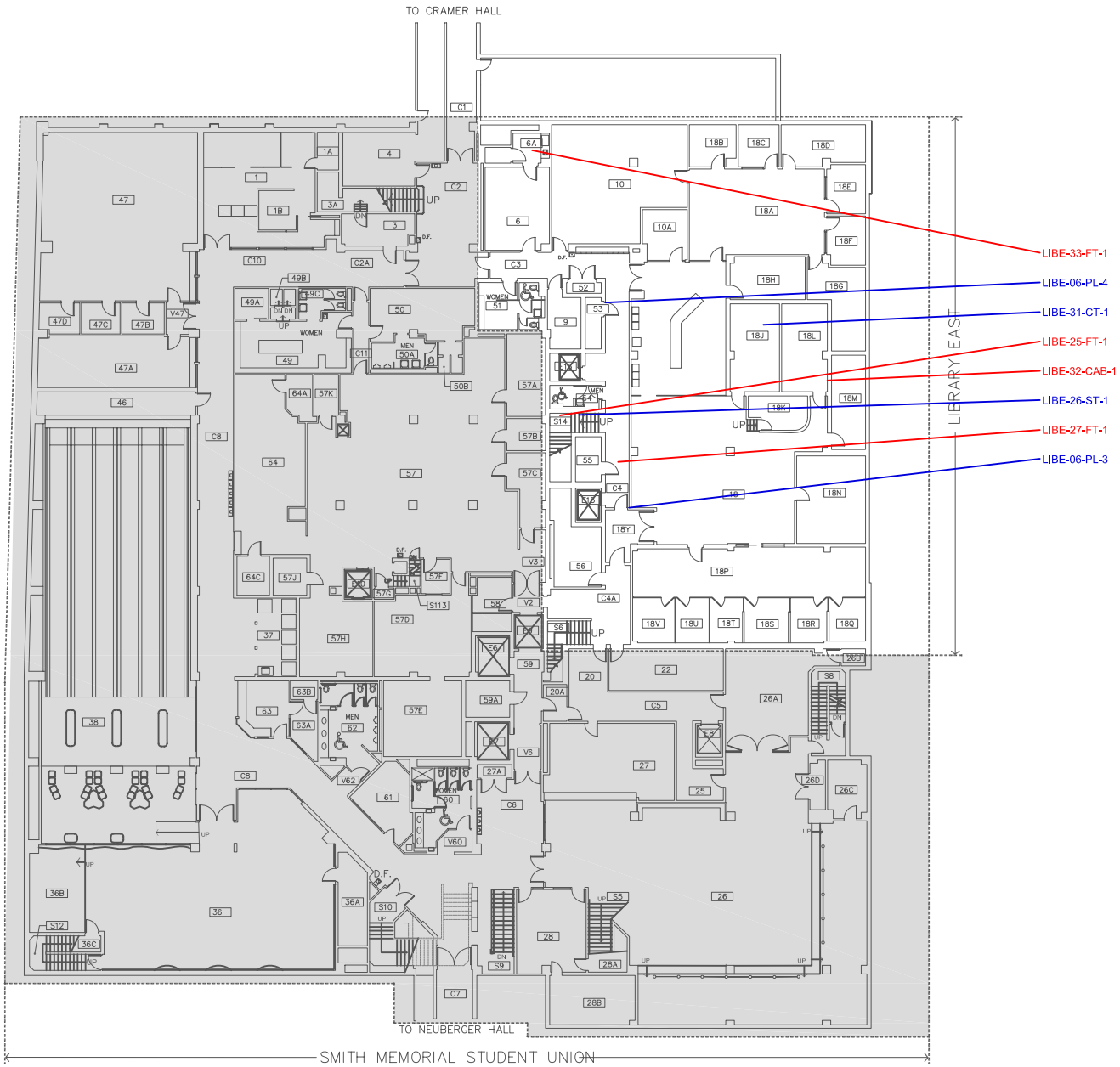

DATE: 6-24-08
DRN. BY: DKR
PAGE #: SAM - 1/7

CLIENT: PSU
PROJECT: Library East
LOCATION: 1825 SW Broadway
Portland, Oregon 97201

PROJECT #: PJ5592

REVISIONS

Library East
Basement
Sample Locations

Report North

No Scale

Sample ID # Key

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

ABC-00-FT-1

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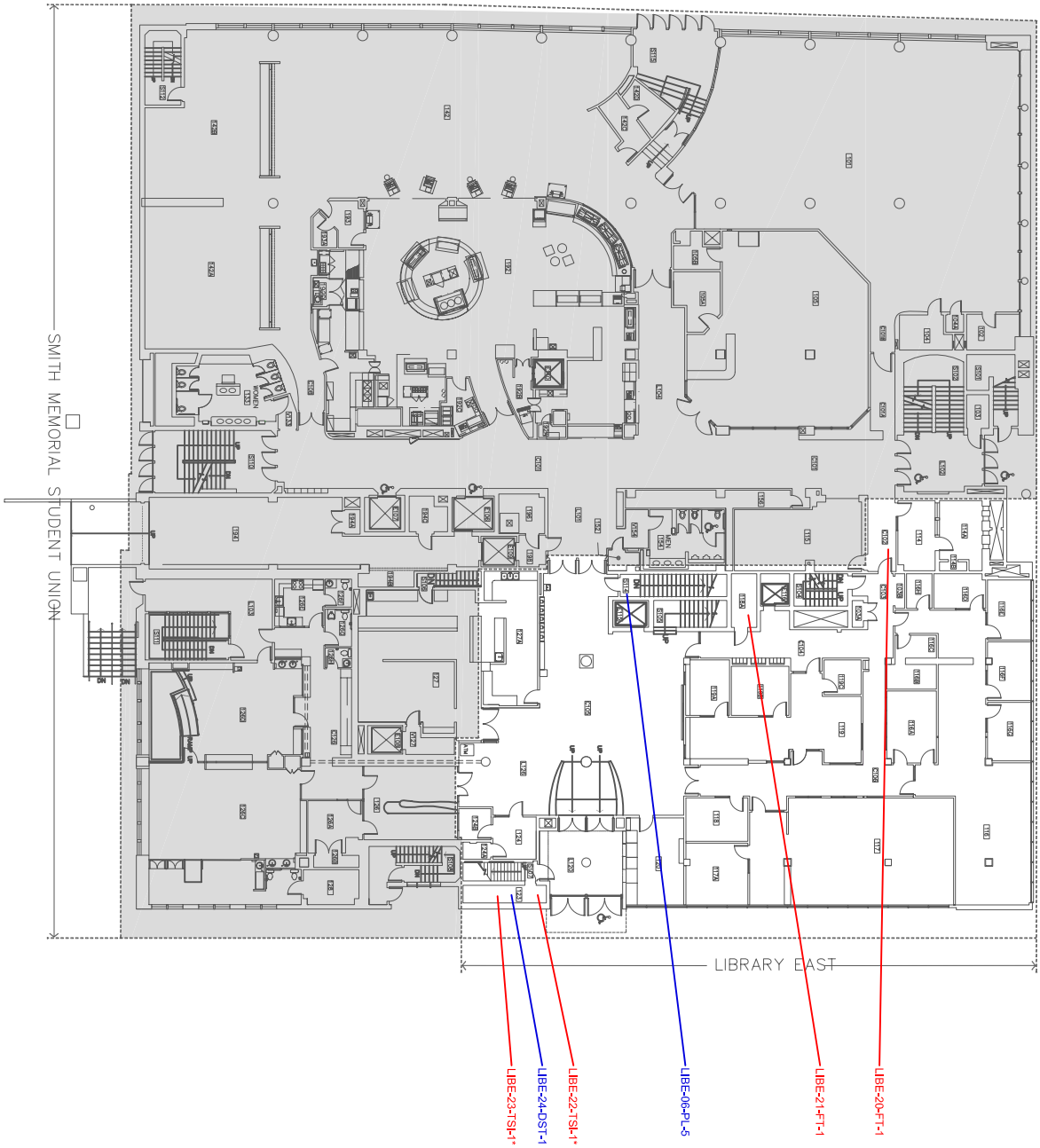
* - This sample is part of a set in which one of the samples tested positive for asbestos.
** - This sample contained a trace amount of asbestos.



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Sample ID # Key

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

ABC-00-FT-1

No Scale

Report North

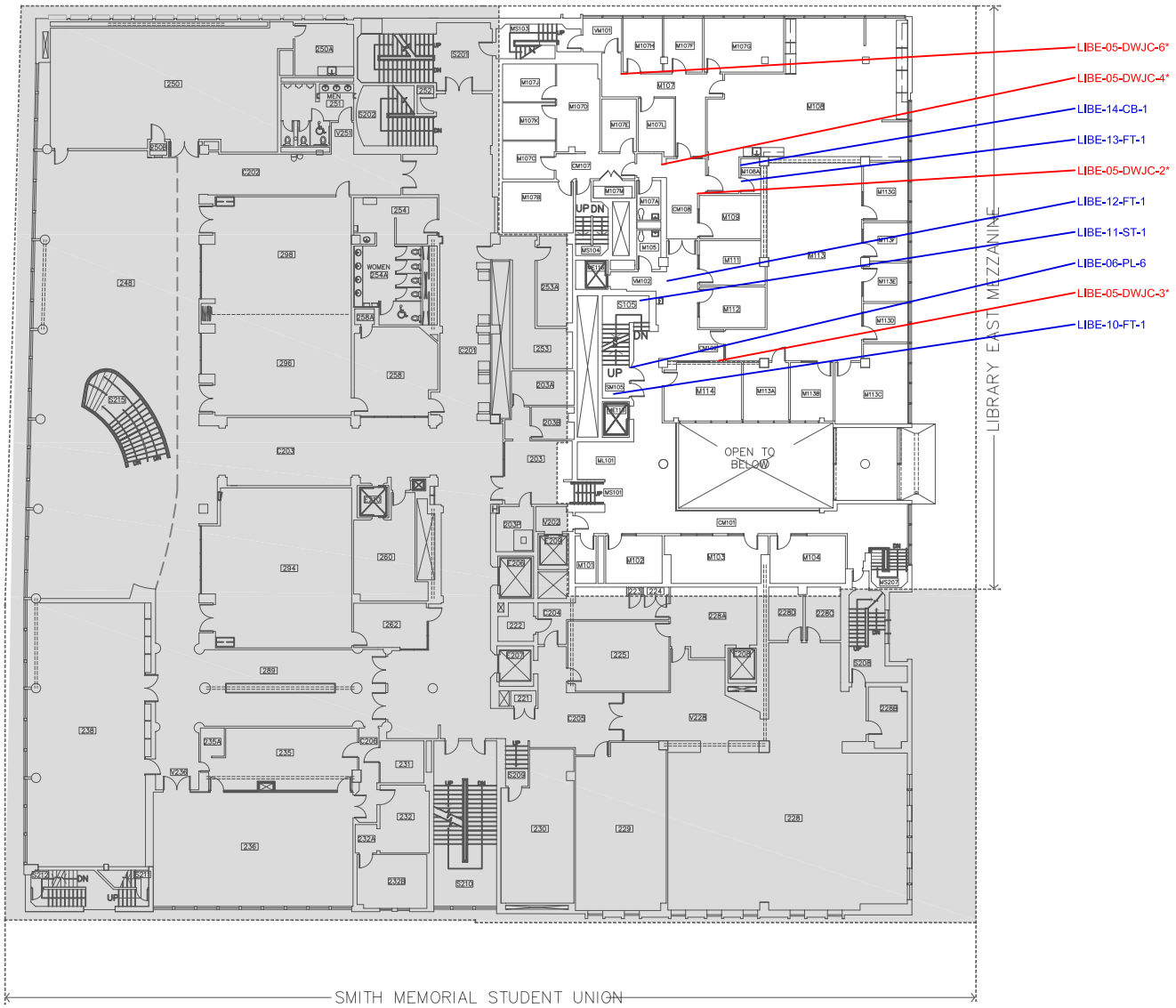
Library East
1st Floor
Sample Locations

REVISIONS

CLIENT: PSU
PROJECT: Library East
LOCATION: 1825 SW Broadway
Portland, Oregon 97201

PROJECT #: PJ5592

DATE: 6-24-08
DRN. BY: DKR
PAGE #: SAM - 2/7



* - 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.

DATE: 6-24-08
DRN. BY: DKR
PAGE #: SAM - 3/7

CLIENT: PSU
PROJECT: Library East
LOCATION: 1620 SW Broadway Portland, Oregon 97201

PROJECT #: PJ5592

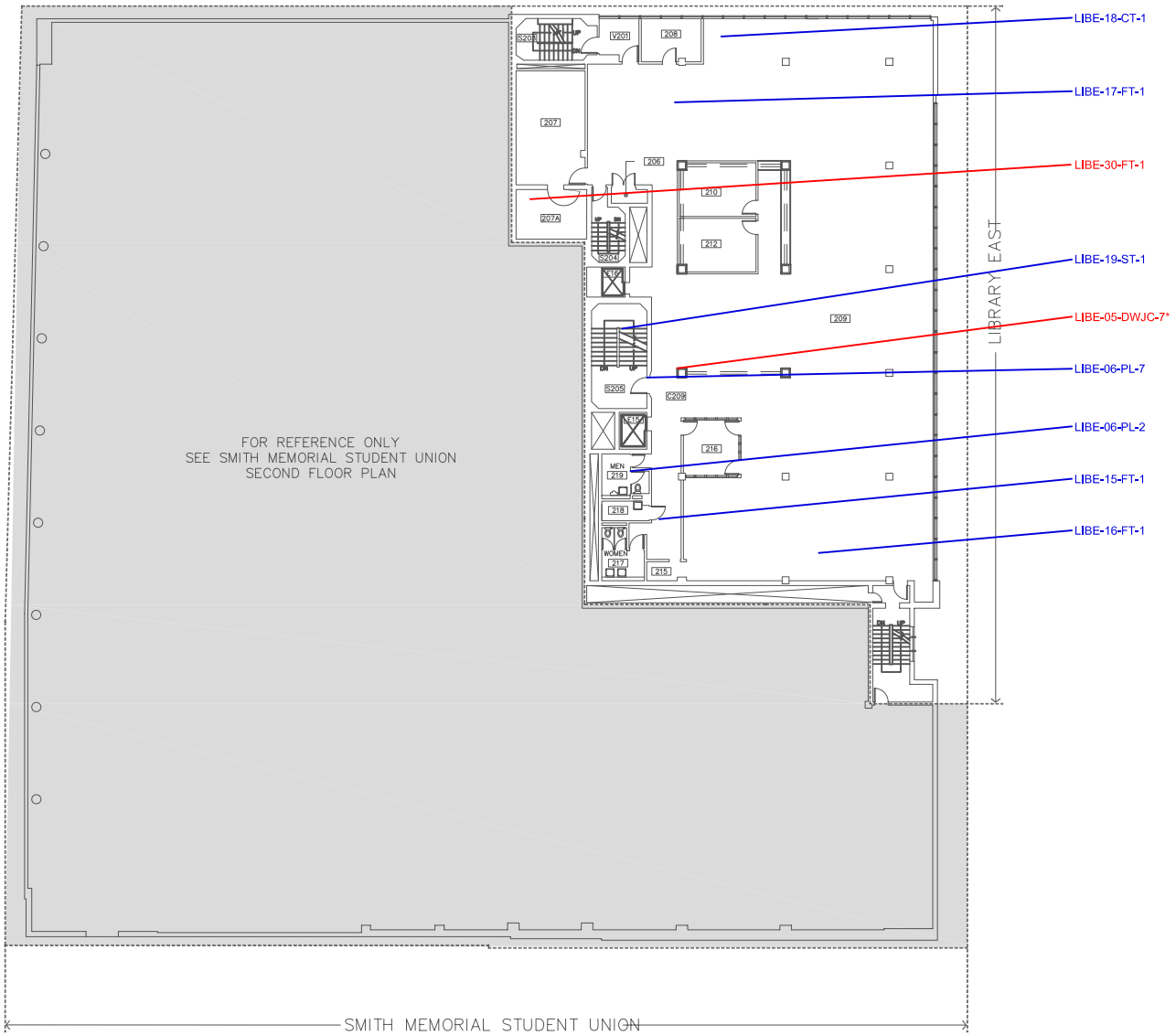
REVISIONS

Library East
1st Floor Mezzanine
Sample Locations

Report North
No Scale

Sample ID # Key
PSU Provided Building Code
Homogeneous Material #
Material Code - Click for Details
Sample #
ACM Shown in Red
Non-ACM Shown in Blue
ABC-00-FT-1

Forensic Analytical
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.

DATE: 6-24-08
DRN. BY: DKR
PAGE #: SAM - 4/7

CLIENT: PSU
PROJECT: Library East
LOCATION: 1825 SW Broadway
Portland, Oregon 97201

PROJECT #: PJ5592

REVISIONS

Library East
2nd Floor
Sample Locations

Report North
No Scale

Sample ID # Key

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

ABC-00-FT-1

Forensic Analytical
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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.

DATE: 6-24-08
DRN. BY: DKR
PAGE #: SAM - 5/7

CLIENT: PSU
PROJECT: Library East
LOCATION: 1900 SW Broadway Portland, Oregon 97201

PROJECT #: PJ5592

REVISIONS

Library East
3rd Floor
Sample Locations

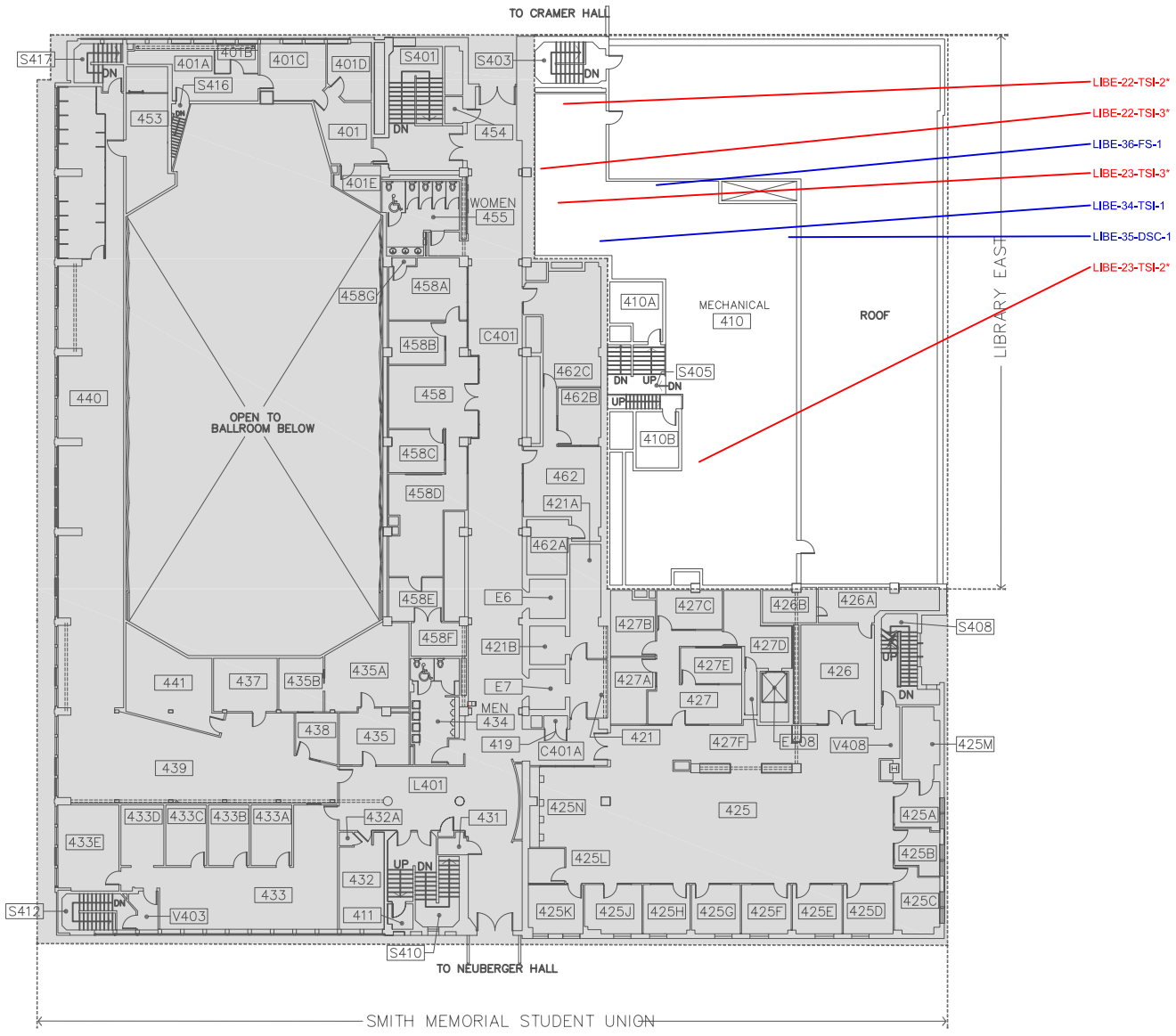
Report North
No Scale

Sample ID # Key

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

ABC-00-FT-1

Forensic Analytical
17400 SW Upper Boones Ferry Road, Suite 245
Portland, Oregon 97224
503/595-1001
503/595-1006 fax
www.forensica.com



CLIENT: PSU
PROJECT: Library East
LOCATION: 1825 SW Broadway
Portland, Oregon 97201

DATE: 6-24-08
DRN. BY: DKR
PAGE #: SAM - 6/7
PROJECT #: PJ5592

REVISIONS

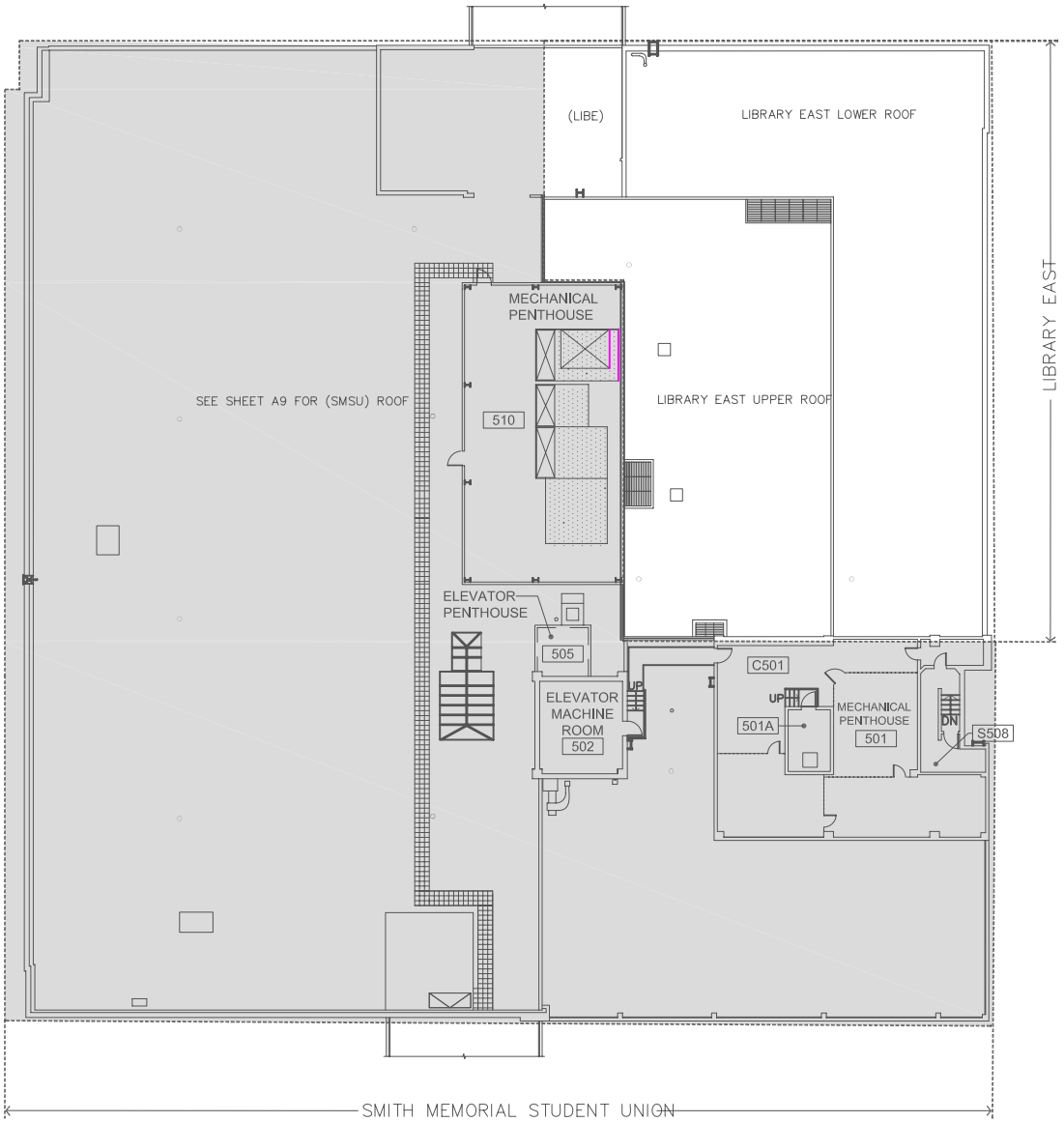
Library East
4th Floor
Sample Locations

Report North
No Scale

Sample ID # Key
PSU Provided Building Code
Homogeneous Material #
Material Code - Click for Details
Sample #
ACM Shown in Red
Non-ACM Shown in Blue
ABC-00-FT-1

* - 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.

Forensic Analytical
17400 SW Upper Boones Ferry Road, Suite 245
Portland, Oregon 97224
503/595-1001
503/595-1006 fax
www.forensica.com



No Samples were Taken in this Area

* - 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.

CLIENT: PSU
PROJECT: Library East
LOCATION: 1825 SW Broadway
Portland, Oregon 97201

PROJECT #: PJ5592

DATE: 6-24-08
DRN. BY: DKR
PAGE #: SAM - 7/7

REVISIONS

Library East
Roof
Sample Locations

Report North
No Scale

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

ABC-00-T-1

Forensic Analytical
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Portland, Oregon 97224
503/595-1001
503/595-1006 fax
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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
Noal Kraft
17400 SW Upper Boones Ferry Rd
Suite 245
Durham, OR 97224

Client ID: PE21
Report Number: B113988
Date Received: 06/17/08
Date Analyzed: 06/18/08
Date Printed: 06/18/08
First Reported: 06/18/08

Job ID/Site: PJ5592; Kate Vance Library East (LIBE) 6 floors 1825 SW Broadway Portland OR 97201
Date(s) Collected:

FASI Job ID: PE21
Total Samples Submitted: 52
Total Samples Analyzed: 42

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
LIBE-01-FT-1	10767178						
Layer: Black Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
LIBE-02-FT-1	10767179						
Layer: Brown Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
LIBE-03-FT-1	10767180						
Layer: Brown Tile			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
LIBE-04-CT-1	10767181						
Layer: Beige Fibrous Tile		Chrysotile	**2 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (2%)**					
Cellulose (2 %) Fibrous Glass (90 %)							
LIBE-05-DWJC-1	10767182						
Layer: White Drywall			**ND**				
Layer: White Joint Compound		Chrysotile	**2 %**				
Total Composite Values of Fibrous Components:		**Asbestos (Trace)**					
Cellulose (20 %) Fibrous Glass (10 %)							
LIBE-05-DWJC-2	10767183						
Comment: Sample not analyzed due to prior positive result in series.							
LIBE-05-DWJC-3	10767184						
Comment: Sample not analyzed due to prior positive result in series.							
LIBE-05-DWJC-4	10767185						
Comment: Sample not analyzed due to prior positive result in series.							
LIBE-05-DWJC-5	10767186						
Comment: Sample not analyzed due to prior positive result in series.							

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Report Number: B113988
Client Name: Forensic Analytical Consulting Svcs **Date Printed:** 06/18/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
LIBE-05-DWJC-6	10767187						
Comment: Sample not analyzed due to prior positive result in series.							
LIBE-05-DWJC-7	10767188						
Comment: Sample not analyzed due to prior positive result in series.							
LIBE-06-PL-1	10767189						
Layer: White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-06-PL-2	10767190						
Layer: White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-06-PL-3	10767191						
Layer: White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-06-PL-4	10767192						
Layer: White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-06-PL-5	10767193						
Layer: White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-06-PL-6	10767194						
Layer: White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-06-PL-7	10767195						
Layer: White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Report Number: B113988
Client Name: Forensic Analytical Consulting Svcs **Date Printed:** 06/18/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
LIBE-07-CB-1	10767196						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-08-CT-1	10767197						
Layer: Beige Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (35 %) Fibrous Glass (45 %)		**Asbestos (ND)**					
LIBE-09-SU-1	10767198						
Layer: Grey Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (5 %) Synthetic (25 %)		**Asbestos (ND)**					
LIBE-10-FT-1	10767199						
Layer: Black Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-11-ST-1	10767200						
Layer: Grey Non-Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-12-FT-1	10767201						
Layer: Tan Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-13-FT-1	10767202						
Layer: Brown Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-14-CB-1	10767203						
Layer: Black Non-Fibrous Material			**ND**				
Layer: White Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Report Number: B113988

Client Name: Forensic Analytical Consulting Svcs **Date Printed:** 06/18/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
LIBE-15-FT-1	10767204						
Layer: Purple Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-16-FT-1	10767205						
Layer: Yellow Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-17-FT-1	10767206						
Layer: Green Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-18-CT-1	10767207						
Layer: Beige Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (35 %) Fibrous Glass (45 %)		**Asbestos (ND)**					
LIBE-19-ST-1	10767208						
Layer: Black Non-Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-20-FT-1	10767209						
Layer: Beige Tile		Chrysotile	**2 %**				
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (2%)**					
LIBE-21-FT-1	10767210						
Layer: Tan Tile		Chrysotile	**5 %**				
Layer: Black Mastic		Chrysotile	**5 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (5%)**					
LIBE-22-TSI-1	10767211						
Layer: Off-White Semi-Fibrous Material		Amosite	**15 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (15%)**					
LIBE-22-TSI-2	10767212						
Comment: Sample not analyzed due to prior positive result in series.							
LIBE-22-TSI-3	10767213						
Comment: Sample not analyzed due to prior positive result in series.							

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Report Number: B113988
Client Name: Forensic Analytical Consulting Svcs **Date Printed:** 06/18/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
LIBE-23-TSI-1	10767214						
Layer: Off-White Semi-Fibrous Material		Amosite	**15 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (15%)**					
LIBE-23-TSI-2	10767215						
Comment: Sample not analyzed due to prior positive result in series.							
LIBE-23-TSI-3	10767216						
Comment: Sample not analyzed due to prior positive result in series.							
LIBE-24-DST-1	10767217						
Layer: Grey Fibrous Material		Chrysotile	**70 %**				
Total Composite Values of Fibrous Components: Cellulose (15 %) Synthetic (15 %)		**Asbestos (70%)**					
LIBE-25-FT-1	10767218						
Layer: Red Tile		Chrysotile	**5 %**				
Layer: Black Mastic		Chrysotile	**5 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (5%)**					
LIBE-26-ST-1	10767219						
Layer: Red Non-Fibrous Material			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-27-FT-1	10767220						
Layer: Grey Tile		Chrysotile	**5 %**				
Layer: Black Mastic		Chrysotile	**5 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (5%)**					
LIBE-28-FT-1	10767221						
Layer: Grey Tile			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
LIBE-29-FT-1	10767222						
Layer: Black Tile		Chrysotile	**5 %**				
Layer: Black Mastic		Chrysotile	**5 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (5%)**					
LIBE-30-FT-1	10767223						
Layer: Green Tile		Chrysotile	**5 %**				
Layer: Black Mastic		Chrysotile	**5 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (5%)**					

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Report Number: B113988

Client Name: Forensic Analytical Consulting Svcs **Date Printed:** 06/18/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
LIBE-31-CT-1	10767224						
Layer: Beige Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (35 %) Fibrous Glass (45 %)							
LIBE-32-CAB-1	10767225						
Layer: Grey Semi-Fibrous Material		Chrysotile	**20 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (20%)**					
Cellulose (Trace)							
LIBE-33-FT-1	10767226						
Layer: Brown Tile		Chrysotile	**5 %**				
Layer: Black Mastic		Chrysotile	**5 %**				
Total Composite Values of Fibrous Components:		**Asbestos (5%)**					
Cellulose (Trace)							
LIBE-34-TSI-1	10767227						
Layer: Black Non-Fibrous Material			**ND**				
Layer: Foil			**ND**				
Layer: Black Tar			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							
LIBE-35-DSC-1	10767228						
Layer: Grey Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
LIBE-36-FS-1	10767229						
Layer: Red Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (10 %)							

James Flores, Laboratory Supervisor, Hayward Laboratory

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

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Forensic Analytical **BULK SAMPLE REQUEST FORM** Page 1 of 6

Client: **PE21 FACS Portland** **Portland State University**			Sampled by: DKR		PM: **Noal Kraft**	Date: 6-5-08
Contact: **Noal Kraft** Phone: **(503) 595-1001**			Special Instructions: E-mail results to NKraft@forensica.com and pdxfacs ~~tracy~~@forensica.com			
Site: **PJ5592** **Kate Vance** **Library East (LIBE)**	Turnaround Time:	1-Day	2-Day	3-Day ✓	5-Day	Other / Due Date & Time:
Client No.: **C6007** FACS Job#: **PJ5592**	Analysis: (PLM Standard) / Point Count / Flame AA (Pb) / Other: Analyze bracketed sets to 1st positive					

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
LIBE-01-FT-1	FT, 12x12, black w/ white specks (tan)	CM306			
02-FT-1	FT, 12x12, dark mauve specked (tan)	CM306			
03-FT-1	FT, 9x9, brown specked (tan)	CM308			
04-CT-1	CT, 2x4, F/P	CM302			
05-DWJC-1	DWJC	CM306			
2		CM109			
3		M105			
4		M105			
5		CM303			
6		M107			

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

Friable Yes / No Good / Fair / Poor

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

Relinquished by: [signature] *Date & Time:* 6-16-08

Received by: CR *Date & Time:* 6/17/08 1030 Condition Acceptable Yes No

Forensic Analytical **BULK SAMPLE REQUEST FORM** Page 2 of 6

Client: **PE21 FACS Portland** **Portland State University**			Sampled by: DKR		PM: **Noal Kraft**	Date: 6/16/08
Contact: **Noal Kraft** Phone: **(503) 595-1001**			Special Instructions: E-mail results to NKraft@forensica.com and ~~tracy~~ pdfacs@forensica.com			
Site: **PJ5592** **Kate Vance** **Library East (LIBE)**	Turnaround Time:	1-Day	2-Day	3-Day ✓	5-Day	Other	Due Date & Time:
Client No.: **C6007** FACS Job#: **PJ5592**	Analysis: (PLM Standard) / Point Count / Flame AA (Pb) / Other: Analyze bracketed sets to 1st positive						

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
LIBE05-DWJC-1	DWJC	C209			
06-PL-1	Plaster	CM306			
2		219			
3		C4			
4		C4			
5		S114			
6		S105			
7		S205			
07-CB-1	CB, 4" brown (brown)	CM306			
08-CT-1	CT, 2×4, 2×2 pattern pinhole	M334			

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

Friable Yes / No — Good / Fair / Poor

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

Relinquished by: [signature] *Date & Time:* 6-16-08

Received by: CH *Date & Time:* 6/17/08 1030hr Condition Acceptable Yes / No

Forensic Analytical **BULK SAMPLE REQUEST FORM** Page 3 of 6

Client: **PE21 FACS Portland Portland State University**	Sampled by: DKR	PM: **Noal Kraft**	Date:			
Contact: **Noal Kraft** Phone: **(503) 595-1001**	Special Instructions: E-mail results to NKraft@forensica.com and ~~tracy~~ pdacs@forensica.com					
Site: **PJ5592** Kate Vance Library East (LIBE)	Turnaround Time:	1-Day	2-Day	3-Day ✓	5-Day	Other / Due Date & Time:
Client No.: **C6007** FACS Job#: **PJ5592**	Analysis: (PLM Standard) / Point Count / Flame AA (Pb) / Other: Analyze bracketed sets to 1st positive					

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
LIBE-09-SU-1	SU, grey	M331			
10-FT-1	FT, 9x9, black w/ white streaks (tan)	SM105			
11-ST-1	ST, grey	S105			
12-FT-1	FT, 12x12, tan w/ brown specks (tan)	CM108			
13-FT-1	FT, 12x12, brown w/ black specks (tan)	M108A			
14-CB-1	CB, 6" black (tan)	M108A			
15-FT-1	FT, 12x12, purple w/ white + black specks (tan)	C209			
16-FT-1	FT, 12x12, yellow specked (tan)	209			
17-FT-1	FT, 12x12, green olive specked (tan)	209			
18-CT-1	CT, 2x4 pinholes	209			

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

Friable Yes / No Good / Fair / Poor

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

Relinquished by: [signature]	*Received by:* [signature]
Date & Time: 6-16-08	*Date & Time:* 6/17/08 1030 PT Condition Acceptable Yes / No

Forensic Analytical

BULK SAMPLE REQUEST FORM

Client: **PE21 FACS Portland Portland State University**	Sampled by: DKR PM: **Noal Kraft** Date: 6-5-08
Contact: **Noal Kraft** Phone: **(503) 595-1001**	Special Instructions: E-mail results to NKraft@forensica.com and ~~tracy~~ pafacs@forensica.com
Site: **PJ5592** **Kate Vance Library East (LIBE)**	Turnaround Time: 1-Day / 2-Day / 3-Day ✓ / 5-Day / Other / Due Date & Time:
Client No.: **C6007** FACS Job#: **PJ5592**	Analysis: (PLM Standard) / Point Count / Flame AA (Pb) / Other: Analyze bracketed sets to 1st positive

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
LIBE-19-ST-1	Stair tread, black	S205			
20-~~ST~~-1	FT 12x12 Beige w/Green Specks + BC	C102			
21-FT-1	FT 9x9 Tan w/White Specks + BC	118A			
22-TSI-1	Rigid Pipe INS.	123			
2	↓	123			
3	↓	123			
23-TSI-1	Pipe Fitting INS. on Rigid INS Pipe	123			
2	↓	123			
3	↓	123			
24-DST-1	Duct Seam Tape	123			

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

Friable Yes / No — Good / Fair / Poor

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

Relinquished by: [signature] *Date & Time:* 6-16-08

Received by: [signature] *Date & Time:* 6/17/08 1030 F

Condition Acceptable Yes / No

Forensic Analytical

BULK SAMPLE REQUEST FORM

Client: **PE21 FACS Portland**
Portland State University

Sampled by: DKR PM: **Noal Kraft** Date: 6-5-08

Contact: **Noal Kraft** Phone: **(503) 595-1001**

Special Instructions: E-mail results to NKraft@forensica.com and ~~tracy~~protocs@forensica.com

Site: **PJ5592** **Kate Vance**
Library East (LIBE)

Turnaround Time: 1-Day | 2-Day | 3-Day ✓ | 5-Day | Other | Due Date & Time:

Client No.: **C6007** FACS Job#: **PJ5592**

Analysis: (PLM Standard) / Point Count / Flame AA (Pb) / Other: Analyze bracketed sets to 1st positive

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
LIBE-25-FT-1	FT, 9x9 ORANGE w/WH STARS + BK MAS	S14			
26-ST-1	ST. ORANGE W/WH STARS + BR MAS	S14			
27-FT-1	FT, 9x9 GREY W/WH STARS + BK MAS	C4			
28-FT-1	FT, 9x9, beige marbled (tan)	M304			
29-FT-1	FT, 9x9, black w/ large white streaks (tan)	M301			
30-FT-1	FT, 9x9, green streaked (black)	207A			
31-CT-1	CT, 2x2, G/P	18J			
32-CAB-1	CAB	18M			
33-FT-1	FT, 9x9 dusty rose (black)	6A			
34-PIPE-1	Foam pipe insul.	410			

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

Friable Yes / No | Cond / Fair / Poor

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

Relinquished by: [signature]

Date & Time: 6-16-08

Received by: CW

Date & Time: 6/17/08 1030

Condition Acceptable Yes / No

Forensic Analytical

BULK SAMPLE REQUEST FORM

Client: **PE21 FACS Portland Portland State University**	Sampled by: DKR PM: **Noal Kraft** Date: 6-5-08
Contact: **Noal Kraft** Phone: **(503) 595-1001**	Special Instructions: E-mail results to NKraft@forensica.com and ~~tracy~~ pvtocs@forensica.com
Site: **PJ5592** **Kate Vance Library East (LIBE)**	Turnaround Time: 1-Day / 2-Day / 3-Day ✓ / 5-Day / Other / Due Date & Time:
Client No.: **C6007** FACS Job#: **PJ5592**	Analysis: (PLM Standard) / Point Count / Flame AA (Pb) / Other: Analyze bracketed sets to 1st positive

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
LIBE-35-DSC-1	Duct seam compound, grey	410			
↓ 36-FS-1	Firestop, red	410			

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

Friable Yes / No — Cond. Good / Fair / Poor

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

Relinquished by:	*Received by:* AW
Date & Time: 6-6-08	*Date & Time:* 6/7/08 1030 F

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

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 II / 40 CFR 763 (AHERA)

Certificate Number: 1029792

Instructor

EPA Provider Cert. Number: 1085

ARGUS PACIFIC
TRAINING • CONSULTING

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

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 II / 40 CFR 763 (AHERA)

Certificate Number: 10267132

Instructor

EPA Provider Cert. Number: 1085

ARGUS PACIFIC
TRAINING • CONSULTING

Jul 18, 2007
Date(s) of Training

Exam Score: NA

Expiration Date: Jul 17, 2008

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

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 1828
BUREAU VERITAS

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