

ASBESTOS MATERIALS SURVEY

Report Date: August 16, 2013

Client: Ann Arbor Housing Commission

Site Address: 3681-3689 Platt Road
Ann Arbor, Michigan

AKT Peerless Project #: 8357e-7-190

SECTION I - ASBESTOS INSPECTION

AKT Peerless conducted field sampling for suspect asbestos containing materials on August 6, 2013. The following suspect materials were identified at the site:

SUSPECT MATERIALS SUMMARY (ASBESTOS MATERIALS IN BOLD CAPS)

Material Description	Material Classification	Function Space (FS) Location	HA No.	Approximate Quantity	EPA Category	Asbestos Content
Unit 3681						
Drywall	MM	Throughout	HA-01	NE	C2	ND
4" Black Cove Base	MM	Kitchen and hallway north of kitchen	HA-02	10 SF	C2	ND
12" Off White Marbled Floor Tile	MM	Kitchen and hallway north of kitchen	HA-03	150 SF	C2	ND
Cloth Duct Isolation Joint	TSI	Basement	HA-04	2 SF	FR	ASSUMED ACM
Pebble Pattern Linoleum	MM	Bathroom 2 nd floor	HA-05	50 SF	C2	ND
4" Tan Cove Base	MM	Bathroom 2 nd floor	HA-06	5 SF	C2	ND
Unit 3683						
Drywall	MM	Throughout	HA-01	NE	C2	ND
Tan Marble and Squares Linoleum	MM	Kitchen and landing	HA-02	100 SF	C2	ND
Cloth Duct Isolation Joint	TSI	Basement	HA-03	2 SF	FR	ASSUMED ACM
12" Off White Marbled Floor Tile	MM	1 st and 2 nd floor baths	HA-04	100 SF	C1	ND
Textured Paint	MM	Bedrooms	HA-05	300 SF	C2	ND
4" Tan Cove Base	MM	Kitchen and hall	HA-06	10 SF	C2	ND
Unit 3685						
Drywall	MM	Throughout	HA-01	NE	C2	ND
Cloth Duct Isolation Joint	TSI	Basement	HA-02	2 SF	FR	ASSUMED ACM

Material Description	Material Classification	Function Space (FS) Location	HA No.	Approximate Quantity	EPA Category	Asbestos Content
4" Brown Cove Base	MM	Bathroom	HA-03	5 SF	C2	ND
Pebble Pattern Linoleum	MM	Bathrooms and kitchen	HA-04	300 SF	C2	ND
Unit 3687						
Drywall	MM	Throughout	HA-01	NE	C2	ND
Tan w/ Marble Squares Linoleum	MM	Kitchen and dining room	HA-02	250 SF	C2	ND
Cloth Duct Isolation Joint	TSI	Basement	HA-03	2 SF	FR	ASSUMED ACM
White w/ Multi Color Spots Linoleum	MM	2 nd floor bath	HA-04	50 SF	C2	ND
4" Gray Cove Base	MM	2 nd floor bath	HA-05	5 SF	C2	ND
Unit 3689						
Drywall	MM	Throughout	HA-01	NE	C2	ND
Pebble Pattern Linoleum	MM	Bathroom	HA-02	65 SF	C2	ND
12" x 12" Off White w/ Streaks Floor Tile	MM	Kitchen and utility	HA-03	175 SF	C1	ND
4" Off White Cove Base	MM	Kitchen, bathroom and utility	HA-04	50 SF	C2	ND
Exterior						
Door Frame Caulk	MM	Exterior	HA-01	9 SF	C2	ND
Window Frame Caulk	MM	Exterior	HA-02	29 Windows	C2	ND
Roofing Material	MM	Exterior	HA-03	NE	C2	ASSUMED ACM
Basement Window Caulk	MM	Exterior	HA-04	8 Windows	C2	ND

Key: F = Friable; NF = Non-friable; FS = Functional Space; ND = No Asbestos Detected; CHR = Chrysotile; AMO = Amosite; SF = Square Feet; LF = Linear Feet; CF = Cubic Feet; MF = Mud Fittings; Classification: SM = Surfacing Material; TSI = Thermal System Insulation; MM = Miscellaneous Material; EPA Material Categories: FR = Friable Regulated; C2 = Category II Non-friable; C1 = Category I Non-friable; NE = Not Estimated; **BOLD CAPS = Asbestos Materials**

Recommendations:

1. Non-friable roofing materials are assumed to contain asbestos and do not require removal ahead of renovation or demolition activities, unless building materials will be recycled or the roofing will be made friable.
2. Friable duct isolation joints should be removed by a licensed contractor in accordance with all applicable local, state and federal regulations prior to being disturbed by renovation, demolition or other activity. The material has been assumed positive to prevent damage to

the HVAC system. The presence or absence of ACM may be confirmed or refuted through additional sampling and laboratory analysis.

Samples were collected by a State of Michigan Department of Licensing and Regulatory Affairs (LARA) Michigan Occupational Safety & Health Administration (MIOSHA) -Asbestos Program accredited Asbestos Inspector.

Laboratory results are included in Attachment 1.

LIMITATIONS

The information and opinions obtained in this report are for the exclusive use of the Ann Arbor Housing Commission. AKT Peerless will not distribute this report without Client's written consent or as required by law or by a Court order. Report contents must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein.

Quantities of identified asbestos containing and other hazardous materials reported are provided for reference only.

Prepared by:

AKT PEERLESS ENVIRONMENTAL AND ENERGY SERVICES



Carl D. Rogers
Environmental Consultant
MIOSHA CSHD Asbestos Inspector
Accreditation Number: A36205

Reviewed by:



James C. Fox, RPIH
Sr. Project Manager
MIOSHA CSHD Asbestos Inspector, Management Planner, Project Designer
Accreditation Number: A3152

ATTACHMENT 1

Asbestos Laboratory Results and Chain of Custody

47090

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991.
Web Site: <http://apexresearch-inc.com> Email: Bob.Letarte@apexresearchlab.com



Client Name: ALT Peerless

Address: Farmington, MI

City, St., Zip:

Phone: 248-615-1333 Fax: 248-615-1334

Date of Survey: 8/6/2013

Project: AHHC Upper 8144 Exterior

Project # 8357E-7-110

Contact Person: Carl Rogers

Turn Around Times: (Circle One)

Rush

24 hour

48 hour

72 hour

Other:

ATP
(Test Fill Positive)

Asbestos: Bulk

Wipe

Point Count

PCM

Lead: Bulk

Wipe

Air

Paint

Soil

Mold: Bulk

Tape

Biosis

Other

Viable

TEM: Bulk/NOP

AHERA

EPA Level II

Other

*****Terms and conditions on the other side.**

Lab Use Only
Log-In: _____
Report: _____
Fax: _____
Verbal: _____
Email: _____

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
1	1.1	Door Frame Caulk			
2	1.2	"			
3	2.1	Window Frame CAULK			
4	2.2	"			
5	3.1	Basement window CAULK			
6	3.2	"			

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AUG 16 2013

Relinquished By: [Signature]
Date: 8/6/2013

Received By: [Signature]
Date: 8/5/13

Relinquished By: _____
Date: _____

APEX RESEARCH



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Upper Platt (Exterior)
Project # 8357E-7-190

Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47090
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47090 - 01 Cust. #: 1.1 Material: Door Frame Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47090 - 02 Cust. #: 1.2 Material: Door Frame Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47090 - 03 Cust. #: 2.1 Material: Window Frame Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0



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Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47090 - 04 Cust. #: 2.2 Material: Window Frame Caulk Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47090 - 05 Cust. #: 3.1 Material: Basement Window Caulk Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47090 - 06 Cust. #: 3.2 Material: Basement Window Caulk Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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47092

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 Web Site: <http://apexresearch-inc.com> Email: Bob.Letarte@apexresearchlab.com



Client Name: ALT Peerless
 Address: Farmington, MI
 City, St., Zip: _____
 Phone: 248-615-1333 Fax: 248-615-1334

Date of Survey: 8/6/2013
 Project: AAHC Upper Platt Con. (8083)
 Project # 8357E-7-190
 Contact Person: Carl Rogers 3681 per
rogers@altpeers.com

Lab Use Only
 Log-In: _____
 Report: _____
 Fax: _____
 Verbal: _____
 Email: _____

****Terms and conditions on the other side.

Rush 24 hour 72 hour 48 hour Other: TTP (Great Till Positive)

Asbestos: Bulk Wipe _____ Point Count _____ PCM _____
 Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
 Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
 TEM: Bulk/NOF _____ AHERA _____ BPA Level II _____ Other _____

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
1	1.1	Drywall			
2	1.2	"			
3	2.1	4" Black Cove Base			
4	2.2	"			
5	3.1	12" off white marbled F.T.			
6	3.2	"			
7	5.1	Pebble Pattern Linoleum			
8	5.2	"			
9	6.1	4" TAN Cove Base			
10	6.2	"			

Relinquished By: [Signature] Date: 8/6/2013
 Received By: [Signature] Date: 2:50
 Relinquished By: _____ Date: _____
 Relinquished By: _____ Date: _____

AUG 6 2013

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Upper Platt (Unit 3681)
Project # 8357E-7-190

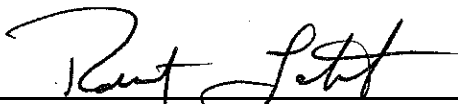
Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47092
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47092 - 01 Cust. #: 1.1 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47092 - 02 Cust. #: 1.2 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47092 - 02a Cust. #: 1.2 Material: Joint Compound Location: Appearance: white, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.


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Farmington, MI 48336

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Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47092 - 03 Cust. #: 2.1 Material: 4" Black Cove Base Location: Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47092 - 04 Cust. #: 2.2 Material: 4" Black Cove Base Location: Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47092 - 05 Cust. #: 3.1 Material: 12" Off White Marbled FT Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Farmington, MI 48336

ARI Report # 13-47092
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47092 - 05a Cust. #: 3.1 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47092 - 06 Cust. #: 3.2 Material: 12" Off White Marbled FT Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47092 - 06a Cust. #: 3.2 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47092
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47092 - 07 Cust. #: 5.1 Material: Pebble Pattern Linoleum Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Synthetic - 10% Other - 90%
Lab ID #: 47092 - 08 Cust. #: 5.2 Material: Pebble Pattern Linoleum Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Synthetic - 10% Other - 90%
Lab ID #: 47092 - 09 Cust. #: 6.1 Material: 4" Tan Cove Base Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Project # 8357E-7-190


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Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47092
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47092 - 09a Cust. #: 6.1 Material: Mastic Location: Appearance: beige, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47092 - 10 Cust. #: 6.2 Material: 4" Tan Cove Base Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47092 - 10a Cust. #: 6.2 Material: Mastic Location: Appearance: beige, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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 Robert T. Letarte Jr., Laboratory Director

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47088

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Web Site: <http://apexresearch-inc.com>. Email: Bob.Letarte@apexresearchlab.com



Client Name: AKT Peerless

Address: Fairington, MI

City, St., Zip: Fairington, MI

Phone: 248-615-1333 Fax: 248-615-1334

Date of Survey: 8/6/2013

Project: AAHC Upper Plaft (unit 3681)

Project # 8357E-7-190 3683

Contact Person: Carl Rogers rogers@apexresearch.com

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: TTP X
(Test Till Positive)

***Terms and conditions on the other side.

Asbestos: Bulk X Wipe Point Count PCM

Lead: Bulk Wipe Air Paint Soil

Mold: Bulk Tape BioSIS Other Viable

TEM: Bulk/NOP AHERA EPA Level II Other

Lab Use Only
Log-In: _____
Report: _____
Fax: _____
Verbal: _____
Email: _____

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
1	101	Drywall			
2	112	"			
3	211	TAN mablesquares linoleum			
4	212	"			
5	401	12" off white marbled F.O.T.			
6	412	"			
7	511	Textured Paint			
8	512	"			
9	611	4" TAN Core BARE			
10	612	"			

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8/16/2013

Relinquished By: [Signature]

Date: 8/6/2013

Revision Date: December 2006

Received By: [Signature]

Date: 2.15.13

Relinquished By: APEX RESEARCH

Date: _____



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Upper Platt (Unit 3683)
Project # 8357E-7-190


Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47088
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47088 - 01 Cust. #: 1.1 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47088 - 02 Cust. #: 1.2 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47088 - 03 Cust. #: 2.1 Material: Tan Marble Squares Linoleum Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 35% Fiberglass - 5% Other - 60%

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Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47088 - 04 Cust. #: 2.2 Material: Tan Marble Squares Linoleum Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 35% Fiberglass - 5% Other - 60%
Lab ID #: 47088 - 05 Cust. #: 4.1 Material: 12" Off White Marbled FT Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47088 - 05a Cust. #: 4.1 Material: Mastic Location: Appearance: yellow, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47088 - 06 Cust. #: 4.2 Material: 12" Off White Marbled FT Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47088 - 06a Cust. #: 4.2 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47088 - 07 Cust. #: 5.1 Material: Textured Paint Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.


 Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Upper Platt (Unit 3683)
Project # 8357E-7-190


Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47088
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47088 - 08 Cust. #: 5.2 Material: Textured Paint Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47088 - 09 Cust. #: 6.1 Material: 4" Tan Cove Base Location: Appearance: brown, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47088 - 09a Cust. #: 6.1 Material: Mastic Location: Appearance: beige, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.


 Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Upper Platt (Unit 3683)
Project # 8357E-7-190

Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47088
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47088 - 10 Cust. #: 6.2 Material: 4" Tan Cove Base Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47088 - 10a Cust. #: 6.2 Material: Mastic Location: Appearance: beige,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

APEX # 47089

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991.
 Web Site: <http://apexresearch-inc.com> Email: Bob.Letarte@apexresearchlab.com



Client Name: ART Peerless
 Address: Farmington, MI
 City, St, Zip:
 Phone: 248-615-1353 Fax: 248-615-1334

Date of Survey: 8/6/2013
 Project: AHC Upper Mill Units 3685
 Project # 8357E7-190
 Contact Person: Carl Rogers

Turn Around Times: (Circle One)

Rush _____ 24 hour _____
 48 hour _____ 72 hour _____
 Other: _____ TTP X _____
 (Test fill Positive)

Asbestos: Bulk X Wipe _____ Point Count _____ PCM _____
 Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
 Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
 TEM: Bulk/NOP _____ AHERA _____ EPA Level II _____ Other _____

****Terms and conditions on the other side.*

Lab Use Only
 Log-In: _____
 Report: _____
 Fax: _____
 Verbal: _____
 Email: _____

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
1	1,1	Drum			
2	1,2				
3	3,1	4" Brown Core Base			
4	3,2				
5	4,1	Pebble Pattern XXXX			
	4,2	Linoleum			
RECEIVED					
			AUG 06 2013		

Relinquished By: [Signature] Date: 8/6/2013
 Received By: [Signature] Date: 8/6/2013
 Relinquished By: [Signature] Date: 8/6/2013
 Relinquished By: [Signature] Date: 8/6/2013
 Revision Date: December/2006



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Upper Platt Unit 3685
Project # 8357E-7-190


Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47089
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47089 - 01 Cust. #: 1.1 Material: Drywall Location: Appearance: white, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Other - 70%
Lab ID #: 47089 - 01a Cust. #: 1.1 Material: Joint Compound Location: Appearance: beige, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO Chrysotile - <1%	Other - 100%
Lab ID #: 47089 - 02 Cust. #: 1.2 Material: Drywall Location: Appearance: white, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 50% Other - 50%

For Layered Samples, each component will be analyzed and reported separately.


 Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Upper Platt Unit 3685
Project # 8357E-7-190


Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47089
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47089 - 02a Cust. #: 1.2 Material: Joint Compound Location: Appearance: beige, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO Chrysotile - <1%	Other - 100%
Lab ID #: 47089 - 03 Cust. #: 3.1 Material: 4" Brown Cove Base Location: Appearance: brown, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47089 - 04 Cust. #: 3.2 Material: 4" Brown Cove Base Location: Appearance: brown, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.


 Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Upper Platt Unit 3685
Project # 8357E-7-190


Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47089
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47089 - 05 Cust. #: 4.1 Material: Pebble Pattern Linoleum Location: Appearance: beige, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 2% Other - 98%
Lab ID #: 47089 - 05a Cust. #: 4.1 Material: Mastic Location: Appearance: yellow, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47089 - 06 Cust. #: 4.2 Material: Pebble Pattern Linoleum Location: Appearance: beige, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 2% Other - 98%

For Layered Samples, each component will be analyzed and reported separately.


 Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Upper Platt Unit 3685
Project # 8357E-7-190

Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47089
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 47089 - 06a Cust. #: 4.2 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

APEX #

47091

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: (734) 449-9990, Fax (734) 449-9991
 Web Site: <http://apexresearch-inc.com> Email: Bob.Lentz@apexresearchlab.com



Client Name: AKT Peerless
 Address: 22725 Orchard Lake Rd
 City, St, Zip: Farmington MI
 Phone: 248-615-1333 Fax: 248-615-1334

Date of Survey: 8-6-13
 Project: AHHC Upper Part (cont) unit 3687
 Project # 8357E-7-190
 Contact Person: Carl Rogers
rogersc@aktpeerless.com

Turn Around Times: (Circle One)

Rush _____ 24 hour _____
 48 hour _____ 12 hour _____
 Other: _____ **TIP** (Test Till Positive) _____
 Asbestos: Bulk X Wipe _____ Point Count _____ PCM _____
 Lead: _____ Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
 Mold: _____ Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
 TEM: _____ Bulk/NOB _____ AHERA _____ EPA Level II _____ Other _____

***Terms and conditions on the other side.

Lab Use Only
Log-In: _____
Report: _____
Fax: _____
Verbal: _____
Email: _____

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
47091-					
1	1.1	Drywall			NAD
2	1.2	"			NAD
3	2.1	Tan marble squares Linoleum			NAD/NAD
4	2.2	"			
5	4.1	White w/ multi-color spots			↓
6	4.2	"			↓
7	5.1	4" Gray Cove Base			NAD
8	5.2	"			NAD

Relinquished By: [Signature] Date: 8/6/13
 Received By: [Signature] Date: 8/5/13
 Relinquished By: _____ Date: _____
 Relinquished By: _____ Date: _____



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Upper Platt (Unit 3687)
Project # 8357E-7-190

Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47091
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47091 - 01 Cust. #: 1.1 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Other - 70%
Lab ID #: 47091 - 02 Cust. #: 1.2 Material: Drywall Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 5% Other - 95%
Lab ID #: 47091 - 03 Cust. #: 2.1 Material: Top Glue Location: Appearance: white, nonfibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Upper Platt (Unit 3687)
Project # 8357E-7-190

Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47091
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47091 - 03a Cust. #: 2.1 Material: Tan Marble Squares Linoleum Location: Appearance: beige, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Fiberglass - 5% Other - 65%
Lab ID #: 47091 - 04 Cust. #: 2.2 Material: Tan Marble Squares Linoleum Location: Appearance: beige, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Fiberglass - 5% Other - 65%
Lab ID #: 47091 - 04a Cust. #: 2.2 Material: Mastic Location: Appearance: yellow, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Upper Platt (Unit 3687)
Project # 8357E-7-190

Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47091
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47091 - 05 Cust. #: 4.1 Material: White w/Multi-Color Spots Linoleum Location: Appearance: beige, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 5% Synthetic - 10% Other - 85%
Lab ID #: 47091 - 05a Cust. #: 4.1 Material: Mastic Location: Appearance: yellow, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47091 - 06 Cust. #: 4.2 Material: White w/Multi-Color Spots Linoleum Location: Appearance: beige, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 5% Synthetic - 10% Other - 85%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Upper Platt (Unit 3687)
Project # 8357E-7-190

Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47091
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47091 - 06a Cust. #: 4.2 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47091 - 07 Cust. #: 5.1 Material: 4" Grey Cove Base Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47091 - 08 Cust. #: 5.2 Material: 4" Grey Cove Base Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX # 47093

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991.
 Web Site: <http://apexresearch-inc.com> Email: Bob.Letarte@apexresearchlab.com



Client Name: AKT Peerless
 Address: Farmington, MI
 City, St., Zip: _____
 Phone: 248-615-1333 Fax: 248-615-1334

Date of Survey: 8-6-2013
 Project: AAC Upper MIH (unit 3689)
 Project # 8357E-7-190
 Contact Person: Carl Rogers
rogersc@aktpeerless.com

Turn Around Times: (Circle One)

***Terms and conditions on the other side.

Rush _____ 24 hour _____
 48 hour _____ 72 hour _____
 Other: TTP (Test Till Positive)
 Asbestos: Bulk Wipe _____ Point Count _____ PCM _____
 Lead: Bulk Wipe _____ Air _____ Paint _____
 Mold: Bulk Tape _____ BioSIS _____ Other _____
 TEM: Bulk/NOP AHERA _____ EPA Level II _____ Other _____

Lab Use Only
 Log-In: _____
 Report: _____
 Fax: _____
 Verbal: _____
 Email: _____

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
		XXXXXXXXXX			
		XXXXXXXXXX			
		XXXXXXXXXX			
1	2.1	Pebble Particle Insulation			
2	2.2	"			
3	3.1	12" x 12" off white w/ streaks FT			
4	3.2	"			
5	4.1	4" off white core base			
6	4.2	"			

RECEIVED

AUG 9 8 2013

Relinquished By: [Signature] Date: 8-6-13
 Received By: [Signature] Date: 8-6-13
 Relinquished By: _____ Date: _____
 Relinquished By: _____ Date: _____



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Upper Platt (Unit 3689)
Project # 8357E-7-190


Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47093
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47093 - 01 Cust. #: 2.1 Material: Pebble Pattern Linoleum Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 2% Other - 98%
Lab ID #: 47093 - 02 Cust. #: 2.2 Material: Pebble Pattern Linoleum Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 2% Other - 98%
Lab ID #: 47093 - 03 Cust. #: 3.1 Material: 12"x12" Off White w/Streaks FT Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.


 Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Upper Platt (Unit 3689)
Project # 8357E-7-190

Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47093
Date Collected: 08/06/13
Date Received: 08/06/13
Date Analyzed: 08/09/13
Date Reported: 08/09/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47093 - 04 Cust. #: 3.2 Material: 12"x12" Off White w/Streaks FT Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47093 - 05 Cust. #: 4.1 Material: 4" Off White Cove Base Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47093 - 06 Cust. #: 4.2 Material: 4" Off White Cove Base Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

ATTACHMENT 2

Asbestos Survey Methodology

ASBESTOS SURVEY METHODOLOGY

The asbestos survey was performed according to the following methodology:

1. Numerical functional space (FS) designations were assigned to each space in the structure. In general, an FS is defined as a spatially distinct room or area within the building. Functional Spaces also include attics, closets and basements. For clarification, functional space designations were field marked in each space.

2. Suspect Homogeneous Areas (HA) i.e., materials, were inventoried by type based on appearance and other characteristics. Building materials suspect for asbestos content were described based on one of three material classifications:

Surfacing Materials (SM): Sprayed-on, troweled-on, or otherwise applied to surfaces, such as friable acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes.

Thermal System Insulation (TSI): Material that is applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat lost or gain, or water condensation, or for other purposes.

Miscellaneous Materials (MM): A building material on structural components, structural members, or fixtures, such as non-friable hard-wall and ceiling plaster, floor and ceiling tiles, and does not include surfacing material or thermal system insulation.

3. When a material is determined to be asbestos-containing either through sampling and laboratory analysis or by assumption, the material is grouped into one of three categories: 1) friable regulated asbestos 2) Category II non-friable asbestos or 3) Category I nonfriable asbestos. All friable regulated materials and Category II non-friable materials that will become friable during demolition were sampled. Category I non-friable materials were not sampled but were assumed asbestos-containing. Category I non-friable materials do not become friable during demolition and do not require removal unless the substrate will be recycled.

4. All samples collected were submitted with chain-of-custody documentation to an analytical laboratory that participates in the National Voluntary Laboratory Accreditation Program (NVLAP). All samples were analyzed using polarized light microscopy (PLM) with dispersion staining following United States Environmental Protection Agency (USEPA) Test Method (EPA-600/M4-82-020) and the National Institute of Standards and Technology (NIST) Bulk Asbestos Handbook.

5. A Test-Till-Positive (TTP) approach to laboratory analysis was utilized for the samples. TTP involves analyzing samples by homogeneous area groupings. Laboratory analyses were performed sample by sample within each homogeneous area grouping until a sample was determined to be asbestos containing, then no additional samples in that grouping were analyzed.