

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	ММ	Kitchen and landing	HA-02	100 SF	C2	ND
Cloth Duct Isolation Joint	oth Duct Isolation Joint TSI		HA-03	2 SF	FR	ASSUMED ACM
12" Off White Marbled Floor Tile	ММ	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	ММ	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	ММ	Bathrooms and kitchen	HA-04	300 SF	C2	ND
		Unit 3687				
Drywall	ММ	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	ММ	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	ММ	Exterior	HA-01	9 SF	C2	ND
Window Frame Caulk	ММ	Exterior	HA-02	29 Windows	C2	ND
Roofing Material	ММ	Exterior	HA-03	NE	C2	ASSUMED ACM
Basement Window Caulk	ММ	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

ames C. Jok

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

APEX # 47090

Research,

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

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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

Asbestos Present: NO

No Asbestos Observed

Non-Asbestos

Other - 100%

Lab ID #: 47090 - 01

Cust. #: 1.1

Material: Door Frame Caulk

Location:

Appearance: white, nonfibrous, homogenous

Layer: 1 of 1

Lab ID #: 47090 - 02

Asbestos Present: NO

No Asbestos Observed

Asbestos Present: NO

No Asbestos Observed

Other - 100%

Other - 100%

Cust. #: 1.2

Material: Door Frame Caulk

Location:

Appearance: white, nonfibrous, homogenous

Layer: 1 of 1

Lab ID #: 47090 - 03

- 03

Cust. #: 2.1

Material: Window Frame Caulk

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

Location:

Appearance: white, nonfibrous, homogenous

Layer: 1 of 1

Robert T. Letarte Jr. Laboratory Directo

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.





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

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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

Asbestos Present: NO

No Asbestos Observed

Non-Asbestos

Other - 100%

Lab ID #: 47090 - 04

Cust. #: 2.2

Material: Window Frame Caulk

Location:

Appearance: white, nonfibrous, homogenous

Layer: 1 of 1

Lab ID #: 47090 - 05

Asbestos Present: NO

No Asbestos Observed

Other - 100%

Other - 100%

Cust. #: 3.1

Material: Basement Window Caulk

Location:

Appearance: grey,nonfibrous,homogenous

Layer: 1 of 1

Lab ID #: 47090 - 06

Cust. #: 3.2

: 3.2

Material: Basement Window Caulk

Location:

Appearance: grey,nonfibrous,homogenous

Layer: 1 of 1

Asbestos Present: **NO**No Asbestos Observed

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

Robert T. Letarte Jr. Laboratory Directo

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APEX # 47092

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



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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

Non-Asbestos

Lab ID #: 47092 - 01

Cust. #: 1.1

Material: Drywall

Location:

Appearance: beige, fibrous, nonhomogenous

Layer: 1 of 1

Lab ID #: 47092 - 02

Cust. #: 1.2

Material: Drywall

Location:

Appearance: beige, fibrous, nonhomogenous

Layer: 1 of 2

Lab ID #: 47092 - 02a

Cust. #: 1.2

Material: Joint Compound

Location:

Appearance: white, nonfibrous, homogenous

Layer: 2 of 2

Asbestos Type/Percent

Asbestos Present: NO

No Asbestos Observed

Cellulose - 20%

Other - 80%

Asbestos Present: **NO** No Asbestos Observed

No Asbestos Observed

Cellulose - 20%

Other - 80%

Asbestos Present: NO Other - 100%

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





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 # 1

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

Asbestos Present: NO

No Asbestos Observed

Non-Asbestos

Other - 100%

Lab ID #: 47092 - 03

Cust. #: 2.1

Material: 4" Black Cove Base

Location:

Appearance: black,nonfibrous,homogenous

Layer: 1 of 1

Lab ID #: 47092 - 04

Asbestos Present: **NO**No Asbestos Observed

Other - 100%

Other - 100%

Cust. #: 2.2

Material: 4" Black Cove Base

Location:

Appearance: black,nonfibrous,homogenous

Layer: 1 of 1

Lab ID #: 47092 - 05

Lao 1D π . 47032 - 03

Cust. #: 3.1

Material: 12" Off White Marbled FT

Location:

Appearance: beige, nonfibrous, homogenous

Layer: 1 of 2

Asbestos Present: **NO**No Asbestos Observed

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

Robert T. Letarte Jr. Laboratory Directo

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Report To:

Mr. Carl Rogers AKT Peerless

22725 Orchard Lake Rd. Farmington, MI 48336

ARI Report # 13-

t # 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

Asbestos Present: NO

No Asbestos Observed

Non-Asbestos

Other - 100%

Lab ID #: 47092 - 05a

Cust. #: 3.1 Material: Mastic

Location:

Appearance: yellow,nonfibrous,homogenous

Layer: 2 of 2

Lab ID #: 47092 - 06

Asbestos Present: **NO**

No Asbestos Observed

Other - 100%

Other - 100%

Cust. #: 3.2

Material: 12" Off White Marbled FT

Location:

Appearance: beige, nonfibrous, homogenous

Layer: 1 of 2

Lab ID #: 47092 - 06a

Cust. #: 3.2

Material: Mastic

Location:

Appearance: yellow,nonfibrous,homogenous

Layer: 2 of 2

Asbestos Present: **NO**No Asbestos Observed

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

Robert T. Letarte Jr. Laboratory Directo

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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 - 07

Cust. #: 5.1

Material: Pebble Pattern Linoleum

Location:

Appearance: beige, fibrous, nonhomogenous

Layer: 1 of 1

Lab ID #: 47092 - 08

Cust. #: 5.2

Material: Pebble Pattern Linoleum

Location:

Appearance: beige, fibrous, homogenous

Layer: 1 of 1

Lab ID #: 47092 - 09

Cust. #: 6.1

Material: 4" Tan Cove Base

Location:

Appearance: beige, nonfibrous, homogenous

Layer: 1 of 2

No Asbestos Observed

Asbestos Present: NO

Synthetic - 10%

Other - 90%

Asbestos Present: **NO** No Asbestos Observed

Synthetic - 10%

Other - 90%

Asbestos Present: NO Other - 100%

No Asbestos Observed

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





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

No Asbestos Observed

Non-Asbestos

Lab ID #: 47092 - 09a

Cust. #: 6.1 Material: Mastic

Location:

Appearance: beige,nonfibrous,homogenous

Layer: 2 of 2

Lab ID #: 47092 - 10

Cust. #: 6.2

Material: 4" Tan Cove Base

Location:

Appearance: beige,nonfibrous,homogenous

Layer: 1 of 2

Lab ID #: 47092 - 10a

Cust. #: 6.2

Material: Mastic

Location:

Appearance: beige, nonfibrous, homogenous

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

Layer: 2 of 2

Asbestos Type/Percent

Asbestos Present: NO

Other - 100%

Other - 100%

Asbestos Present: **NO**

Asbestos Present: NO

No Asbestos Observed

No Asbestos Observed

Other - 100%

APEX # 47088

Research,

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

APEX	

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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

Asbestos Present: NO

No Asbestos Observed

Non-Asbestos

Cellulose - 20%

Other - 80%

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%

Cust. #: 1.2 Material: Drywall

Lab ID #: 47088 - 02

Location:

Appearance: beige, fibrous, nonhomogenous

Layer: 1 of 1

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%

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





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 - 04

Cust. #: 2.2

Material: Tan Marble Squares Linoleum

Location:

Appearance: beige, fibrous, homogenous

Layer: 1 of 1

Lab ID #: 47088 - 05

Cust. #: 4.1

Material: 12" Off White Marbled FT

Location:

Appearance: beige, nonfibrous, homogenous

Layer: 1 of 2

Cust. #: 4.1

Material: Mastic

Location:

Layer: 2 of 2

Asbestos Present: NO

No Asbestos Observed

Asbestos Present: **NO**

Asbestos Present: NO

No Asbestos Observed

No Asbestos Observed

Cellulose - 35% Fiberglass - 5%

Other - 60%

Other - 100%

Lab ID #: 47088 - 05a

Appearance: yellow,nonfibrous,homogenous

Other - 100%

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





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

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

Asbestos Present: NO

No Asbestos Observed

Non-Asbestos

Other - 100%

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%

Other - 100%

Cust. #: 4.2

Material: Mastic

Lab ID #: 47088 - 06a

Location:

Appearance: yellow,nonfibrous,homogenous

Layer: 2 of 2

Lab ID #: 47088 - 07

r. 47000 - 07

Cust. #: 5.1

Material: Textured Paint

Location:

Appearance: white, nonfibrous, homogenous

Layer: 1 of 1

Asbestos Present: **NO**No Asbestos Observed

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

Robert T. Letarte Jr. Laboratory Directo





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

Asbestos Present: NO

No Asbestos Observed

Non-Asbestos

Other - 100%

Lab ID #: 47088 - 08

Cust. #: 5.2

Material: Textured Paint

Location:

Appearance: white, nonfibrous, homogenous

Layer: 1 of 1

Lab ID #: 47088 - 09

Asbestos Present: **NO** No Asbestos Observed

Asbestos Present: NO

No Asbestos Observed

Other - 100%

Other - 100%

Cust. #: 6.1

Material: 4" Tan Cove Base

Location:

Appearance: brown,nonfibrous,homogenous

Layer: 1 of 2

Lab ID #: 47088 - 09a

Cust. #: 6.1

Material: Mastic

Location:

Appearance: beige,nonfibrous,homogenous

Layer: 2 of 2

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





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

Asbestos Present: NO

No Asbestos Observed

Non-Asbestos

Other - 100%

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%

Cust. #: 6.2

Material: Mastic

Lab ID #: 47088 - 10a

Location:

Appearance: beige,nonfibrous,homogenous

Layer: 2 of 2

Lab ID #:

Asbestos Present:

Cust. #: Material: Location: Appearance:

Layer: of

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

APEX # 47089

APEX Research,

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

|--|

Relinquished By. Date: 8/6/20/3 Revision Date: December/2006		200			6	5	+	W	2		Laboratory ID#		Other:	48 hour	Rush 2	Turn Around Times: (Circle One)	Phone: 248-6/5-135 \$	City, St., Zip:	Address: Karming tow	Client Name: AKT Reer less
Received By: Date:				The state of the s	4.7		3,2	<u>w</u>	102		Customer ID#	rest this tostiles)	TTP	72 hour	24 hour	limes: (Circle			IW. L	50/655
Soil					Ció	Peoble Myern Too		A" Brown Cove SASE		Drywall	Material/Location	TEM: Bulk/NOP	Mold: Bulk	Lead: Bulk _	Asbestos: Bulk X		Fax: 248-6/5-135 Contact	Project#	Project: AA	Date of Survey:
Relinquished By:	AGG ®		S to constant framework framework to the second sec		oleum			6			n Volume	AHERA	Tape BioSIS	Air	Wipe Poi	***Terms and conditions on the other side.	erson: (# 835747-190	P	Survey: 8/6/20/3
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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

Asbestos Present: NO

No Asbestos Observed

Non-Asbestos

Cellulose - 30%

Other - 70%

Lab ID #: 47089 - 01

Cust. #: 1.1

Material: Drywall

Location:

Appearance: white, fibrous, homogenous

Layer: 1 of 2

Asbestos Present: **NO**Chrysotile - <1%

Asbestos Present: NO

No Asbestos Observed

O

Other - 100%

Cellulose - 50%

Other - 50%

Cust. #: 1.1

Material: Joint Compound

Lab ID #: 47089 - 01a

Location:

Appearance: beige, fibrous, homogenous

Layer: 2 of 2

Lab ID #: 47089 - 02

Cust. #: 1.2

Material: Drywall

Location:

Appearance: white, fibrous, homogenous

Layer: 1 of 2

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

Robert T. Letarte Jr. Laboratory Director





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

Asbestos Present: NO

Chrysotile - <1%

Non-Asbestos

Other - 100%

Lab ID #: 47089 - 02a

Cust. #: 1.2

Material: Joint Compound

Location:

Appearance: beige, fibrous, homogenous

Layer: 2 of 2

Lab ID #: 47089 - 03

Asbestos Present: NO

No Asbestos Observed

Other - 100%

Other - 100%

Cust. #: 3.1

Material: 4" Brown Cove Base

Location:

Appearance: brown,nonfibrous,homogenous

Layer: 1 of 1

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

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.

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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

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

Other - 100%

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





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

Cust. #: 4.2 Material: Mastic

Lab ID #: 47089 - 06a

Location:

Appearance: yellow,nonfibrous,homogenous

Layer: 2 of 2

Lab ID #:

Cust. #:

Material: Location:

Appearance: Layer:

Lab ID #:

Cust. #:

Material: Location:

Appearance:

Layer: of

Asbestos Present: NO

No Asbestos Observed

Asbestos Present:

Asbestos Present:

Other - 100%

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

Rush

Turn Around Times: (Circle One)

24 һош

Asbestos:

***Terms and conditions on the other side.

Other:

48 hour

47091

Research,

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

Phone: 2/8-615-1333 Fax: 2/8-6 5-1534	City, St., Zip: FACADAY ME			
Contact Person:	Project # 0.3	Project: ###\	Date of Survey:	3

	Contact Person: (Ar	Project # 8	Project: AAH	Date of Survey: 8
Coless Co	on: (Ar) Rogers	Project # 8357E-7-190	Project: AAHC Woolf PIATE	ey: 8-6-15
rogers Coakt perless, com	055		108-m.	
Email:	Fax:	Report:	Log-ln:	Lab Use Only

(Test Till Pasitive)	TIP	72 hour
TEM:	Mold:	Lead:
Bulk/NOP AHERA _	Bulk Tape	Bulk Wipe
EPA Level II Other	BioSIS Other Viable	All I duti

AHERA	ape	Vipe	Vipe
EPA Level II	BioSIS Other	Air Paint	Point Count FCM
Other	Viable	Soil	

Laboratory ID#	Customer ID#	Material/Location	Volume	Area
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Normalization (1)	Date:	7		Dafe:
n film Date: December/2006		Bic		

APEX	
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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

Non-Asbestos

Lab ID #: 47091 - 01

Cust. #: 1.1

Material: Drywall

Location:

Appearance: beige, fibrous, nonhomogenous

Layer: 1 of 1

Lab ID #: 47091 - 02

Cust. #: 1.2

Material: Drywall

Location:

Appearance: beige, fibrous, homogenous

Layer: 1 of 1

Lab ID #: 47091 - 03

Cust. #: 2.1

Material: Top Glue

Location:

Appearance: white,nonfibrous,nonhomogenous

Layer: 1 of 2

Asbestos Type/Percent

No Asbestos Observed

Asbestos Present: NO

Cellulose - 30%

Other - 70%

Asbestos Present: **NO** No Asbestos Observed

Cellulose - 5%

Other - 95%

Other - 100%

Asbestos Present: NO No Asbestos Observed

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.



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

Asbestos Present: **NO**

No Asbestos Observed

Non-Asbestos

Cellulose - 30%

Fiberglass - 5%

Other - 65%

Lab ID #: 47091 - 03a

Cust. #: 2.1

Material: Tan Marble Squares Linoleum

Location:

Appearance: beige, fibrous, homogenous

Layer: 2 of 2

Lab ID #: 47091 - 04

Asbestos Present: **NO**

No Asbestos Observed

Cellulose - 30%

Fiberglass - 5%

Other - 65%

Other - 100%

Cust. #: 2.2

Material: Tan Marble Squares Linoleum

Location:

Appearance: beige, fibrous, homogenous

Layer: 1 of 2

Lab ID #: 47091 - 04a

Cust. #: 2.2

Material: Mastic

Location:

Appearance: yellow,nonfibrous,homogenous

Layer: 2 of 2

Asbestos Present: NO No Asbestos Observed

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.



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**

Fiberglass - 5%

Lab ID #: 47091 - 05a

Cust. #: 4.1

Material: Mastic

Location:

Appearance: yellow,nonfibrous,homogenous

Layer: 2 of 2

Lab ID #: 47091 - 06

Cust. #: 4.2

Material: White w/Multi-Color Spots Linoleum

Location:

Appearance: beige, fibrous, homogenous

Layer: 1 of 2

No Asbestos Observed

Asbestos Present: **NO**

No Asbestos Observed

Synthetic - 10%

Other - 85%

Other - 100%

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

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.



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

Asbestos Present: NO

No Asbestos Observed

Non-Asbestos

Other - 100%

Lab ID #: 47091 - 06a

Cust. #: 4.2 Material: Mastic

Location:

Appearance: yellow,nonfibrous,homogenous

Layer: 2 of 2

1 . D . N

No Asbestos Observed

Asbestos Present: **NO** Other - 100%

Lab ID #: 47091 - 07 Cust. #: 5.1

Cust. #. 5.1

Material: 4" Grey Cove Base

Location:

Appearance: beige,nonfibrous,homogenous

Layer: 1 of 1

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

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

Robert T. Letarte Jr., Laboratory Director

Other - 100%

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.

APEX # 47093

APEX Research,

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

Jate: Occember/2006	Relinquished By:			6	C	+	M	N				Laboratory ID #		Other:	8 hour	tush	Turn Around	48-6	City, St., Zip:	(M)	Client Name: AKT Ve
Date:	Received B			7.		3:2	8.	202	2	nan	1877	Customer ID#		TTP X	72 hour	24 hour	Around Times: (Circle One)	15-1333 Fax: 248-1		I'm; wot	Meerless
Date:	Relinquished By:			11	411 OFF Whill cove base		12"x12" off white w/steaks FT		Pelble Pattern / indeum	2222	Bran 22	Material/Location	TEM: Bulk/NOP	Mold: Bulk Tape	Lead: Bulk Wipe	Asbestos: Bulk Wipe	\	615-1334	Project # 8357	Project: AAHC L	\sim Date of Survey: δ - 6 - $2o$
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Date:	Relinquished By:		, , , , , , , , , , , , , , , , , , ,									Area	EPA Level II	SISOther	Paint	Point Count	oges (Cakt perless, com	oges	1000000	(P3/25/102)	
												Results	Other	rViable	Soil	PCM	Verbal: Email:	Fax:	Report:		l ah Use Only

Revision Date: December/2006





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

Asbestos Present: NO

Asbestos Present: **NO**

No Asbestos Observed

No Asbestos Observed

No Asbestos Observed

Non-Asbestos

Fiberglass - 2%

Fiberglass - 2%

Other - 98%

Other - 100%

Other - 98%

Lab ID #: 47093 - 01

Cust. #: 2.1

Material: Pebble Pattern Linoleum

Location:

Appearance: beige, fibrous, homogenous

Layer: 1 of 1

Lab ID #: 47093 - 02

Cust. #: 2.2

Material: Pebble Pattern Linoleum

Location:

Appearance: beige, fibrous, homogenous

Layer: 1 of 1

Lab ID #: 47093 - 03

Asbestos Present: NO

Cust. #: 3.1

Material: 12"x12" Off White w/Streaks FT

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

Location:

Appearance: white, nonfibrous, homogenous

Layer: 1 of 1





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

Asbestos Present: NO

No Asbestos Observed

Non-Asbestos

Other - 100%

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%

Other - 100%

Cust. #: 4.1

Cust. #. 4.1

Lab ID #: 47093 - 05

Material: 4" Off White Cove Base

Location:

Appearance: beige,nonfibrous,homogenous

Layer: 1 of 1

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

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

Robert T. Letarte Jr. Laboratory Directo

ATTACHMENT 2 Asbestos Survey Methodology Page 3



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.