

# PRE-DEMOLITION ASBESTOS NESHAP INSPECTION



**PERFORMED AT:**

**FORMER JAIL  
208 W. PEARL STREET  
HARRISONVILLE, MISSOURI**

**PREPARED FOR:**

**MR. BOB HUSTON  
COUNTY COMMISSIONER  
CASS COUNTY  
102 E. WALL STREET  
HARRISONVILLE, MO 64701**

**PREPARED BY:**

***APEX ENVIRONMENTAL CONSULTANTS, INC.*  
14955 W. 101<sup>ST</sup> TERRACE  
LENEXA, KANSAS 66215  
TEL: (913) 338-APEX FAX: (913) 338-2741  
WWW.4APEX.COM**

**APEX PROJECT No. 190049A  
FEBRUARY 25, 2019**

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**CLIENT:**

Mr. Bob Huston  
County Commissioner  
Cass County  
102 E. Wall Street  
Harrisonville, MO 64701


**PROJECT:**

Pre-Demolition Asbestos NESHAP Inspection  
Former Jail  
208 W. Pearl Street  
Harrisonville, Missouri

**APEX PROJECT No.:** 190049A

**ENVIRONMENTAL CONSULTANT:**

***APEX ENVIRONMENTAL CONSULTANTS, INC.***

Inspector:   
Lance Tomlin  
Project Manager

Address: 14955 West 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
Tel: (913) 338-APEX Fax: (913) 338-2741  
e-mail: LTomlin@4apex.com

## **1.0 EXECUTIVE SUMMARY**

On January 24, 2019, APEX Environmental Consultants (APEX), Inc. performed an inspection for asbestos-containing materials (ACM) in support of the planned demolition of the Former Jail located at 208 W. Pearl Street in Harrisonville, Missouri. The entire structure was inspected for ACM, including the roof. The inspection was performed in accordance with the inspection requirements of the National Emissions Standards for Hazardous Air Pollutants (NESHAP) prior to the demolition of the building. Lance Tomlin of APEX performed the inspection. Mr. Tomlin's Missouri Department of Natural Resources (MDNR) Asbestos Inspector certification number is 7011020118MOIR740. A copy of this certification is included in Appendix B.

The intent of the ACM inspection was to positively identify and quantify ACM (if present) in the structure on the subject site, including the building's exterior. No other contaminants or environmental conditions were inspected under this scope of work. This report has been prepared based on the authorization of Bob Huston, County Commissioner, Cass County, Missouri.

## **2.0 INSPECTION METHODOLOGY**

The subject structure was built as and used as a county jail. It is a single-story structure with a block and brick walls, some metal frame and deck roof, some precast concrete roof, and a composite shingle roof system.

The asbestos inspection of the building was performed in accordance with the Environmental Protection Agency's NESHAP (ref: 40 CFR, Part 61) regulations, utilizing the AHERA assessment, sampling, and analytical protocols (ref: 40 CFR 763). Suspect materials were grouped together into homogeneous sampling areas. A homogeneous sampling area contains material that is uniform in texture and color and appears to be identical in every other respect. Building materials that were installed at

different times or that do not appear to be similar in any other way are considered separate homogeneous materials/areas.

The EPA and MDNR categorize suspect ACM in the following manner:

Surfacing Material: A material in a building that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes.

TSI: Material applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior mechanical components to prevent heat loss or gain, or water condensation, or for other purposes.

Miscellaneous Materials: Interior building material on structural components, structural members or fixtures, such as floor and ceiling tiles, and does not include surfacing or TSI materials. Many suspect materials commonly found on the exterior of buildings are also included in this category, such as roofing materials, asbestos cement board (Transite), etc.

Bulk samples were collected of suspect ACM to determine the presence of asbestos. The bulk samples were sent to Schneider Laboratories, an independent NVLAP-accredited laboratory, for analysis. The samples were analyzed using polarized light microscopy (PLM) coupled with dispersion staining techniques in accordance with Appendix A to Subpart F of 40 CFR Part 763 (1982). For your information, the EPA and MDNR consider a material to be asbestos-containing if it contains greater than one percent (1%) asbestos fibers. OSHA regulations cover materials containing asbestos in any concentration. Please refer to the bulk sample analytical data found in Appendix A of this report.

The EPA considers the following materials to be non-suspect ACM, and consequently, they were not sampled:

- Glass
- Metal
- Concrete
- Brick
- Fiberglass
- Rubber
- Foam

The data contained in this report has been compiled based upon visible and accessible materials. Without complete access to all walls/pipe chases and ceiling cavities, 100% accuracy in the following data is not possible. Reasonable efforts were made to access all portions of the building.

### 3.0 ANALYTICAL RESULTS

A total of 26 bulk samples were collected from suspect ACM identified during the inspection. The results obtained during the inspection and subsequent sample analyses are summarized below:

<b>LOCATION SAMPLED</b>	<b>MATERIAL (TOTAL)</b>	<b>ANALYTICAL RESULTS</b>
<b>Lobby</b>	<b>Floor Tile, 12" White (2,400 SF)</b>	<b>Mastic-4% Chrysotile</b>
<b>SW Office</b>	<b>Floor Tile, 9" White (750 SF)</b>	<b>Mastic-4% Chrysotile</b>
<b>SE Office</b>	<b>Mastic-Under Carpet (600 SF)</b>	<b>4% Chrysotile</b>
<b>Mechanical Room</b>	<b>Mudded Fittings on Fiberglass Pipe Insulation-4" (15 EA)</b>	<b>2% Amosite</b>
<b>Cell Block D</b>	<b>Fireproof File Cabinet (1 EA)</b>	<b>Assumed Asbestos</b>
Lobby	Cove Base and Glue, 4" Gray	No Asbestos Detected
SW Office	Cove Base and Glue, 4" Brown	No Asbestos Detected
NW Room	Carpet Glue	No Asbestos Detected
Visitor Area, Visitor Side	Suspended Ceiling Tile, 2' w/ dents and pinholes	No Asbestos Detected
West Center Office	Suspended Ceiling Tile, 2' x 4' w/ wormholes	No Asbestos Detected

<b>LOCATION SAMPLED</b>	<b>MATERIAL (TOTAL)</b>	<b>ANALYTICAL RESULTS</b>
Master Control	Suspended Ceiling Tile, 2' gray and white	No Asbestos Detected
Jail Hall	Suspended Ceiling Tile, 2' w/ textured surface	No Asbestos Detected
SW Office	Gypsum Board w/ Joint Compound	No Asbestos Detected
West Center Office	Wall and Ceiling Texture (3 samples)	No Asbestos Detected
Jail Hall, Above Suspended Ceiling	Duct Sealant, Gray	No Asbestos Detected
Exterior, South Side	Stone Finish (3 samples)	No Asbestos Detected
Roof	Sheet Roofing, Upper Layer	No Asbestos Detected
Roof	Built-up Roofing, Middle Layer	No Asbestos Detected
Roof	Built-up Roofing, Lower Layer	No Asbestos Detected
Roof	Roof Penetration Flashing	No Asbestos Detected
<b>Red indicates analytical results where asbestos was identified in the material.</b>		

See the attached chain of custody forms and laboratory results for specific sampling locations and analyses.

#### **4.0 RECOMMENDATIONS**

As indicated above, several of the building materials evaluated were found to contain asbestos. Due to multiple MDNR, OSHA, and EPA regulations governing the disturbance, proper removal, employee exposure, and disposal of ACM, APEX recommends that all ACM be properly addressed prior to the start of any renovation/demolition activities that will disturb the material. APEX recommends that a MDNR-licensed asbestos abatement contractor remove all the ACM in the building before renovation/demolition activities begin.

The floor mastic and the fireproof file cabinet are categorized as non-friable materials and must be removed by individuals who have received at least eight (8) hours of

asbestos training specific to the removal of this type of material (per 29 CRF 1926.1101) or by a licensed asbestos abatement contractor. If the materials are removed using hand removal methods, it does not constitute a regulated project per MDNR regulations.

The asbestos-containing mudded fittings on fiberglass pipe insulation must be removed as friable ACM (OSHA Class I Project – 29 CFR 1926.1101) in accordance with Local, State, and Federal Asbestos regulations. Proper notification by the abatement contractor must be provided to MDNR in advance of commencement of any friable removal.

As always, if a suspect ACM is identified during the project that has not been addressed in this report, renovation/demolition should be halted immediately, and APEX contacted to perform a follow up inspection of the site to specifically address the previously unidentified material(s).

## **5.0 CONDITIONS AND LIMITATIONS**

The purpose of this inspection was for identification of asbestos-containing materials prior to the renovation/demolition of the subject building. Other contaminants were not assessed by APEX under this scope of work. The demolition contractor is advised of his responsibility to comply with applicable Federal, State, and Local regulations as they pertain to the identification and disturbance of lead-based paint, mercury, PCBs, oils, subsurface contaminants, paints, and household hazardous wastes, among other materials.

APEX has performed the tasks set forth above in a thorough and professional manner consistent with industry standards and under supervision of a certified professional. APEX cannot guarantee and does not warrant that this inspection has revealed all adverse environmental conditions affecting the site nor can APEX warrant that the assessment requested will satisfy the dictates of, or provide a legal defense in connection with, environmental laws or regulations.



The results reported and any opinions reached by APEX are for the benefit of the Client. The results and opinions set forth by APEX in its report will be valid as of the date of the report. APEX assumes no obligation to advise you of any changes that may be later brought to our attention.

**APPENDIX A**  
**ASBESTOS BULK SAMPLE RESULTS**

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**Customer:** Apex Environmental Consultants, Inc. (1899)  
**Address:** 14955 W 101st Terrace  
Lenexa, KS 66215-1161

<b>Order #:</b>	298153
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**Received** 01/29/19  
**Analyzed** 01/30/19  
**Reported** 02/25/19

**Attn:**

**Project:** Former Jail, 208 W. Pearl  
**Location:** Harrisonville, MO 64701  
**Number:** 190049A

**Method:** EPA 600/R-93/116 & 600/M4-82-020

### PLM Analysis

Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
<b>298153-001</b>	01/24/19	8	Lobby		
Layer 1:	Floor Tile			None Detected	100% NON FIBROUS MATERIAL
	White/Gray, Organically Bound				
Layer 2:	Mastic			4% CHRYSOTILE	96% NON FIBROUS MATERIAL
	Black, Bituminous				
<b>298153-002</b>	01/24/19	9	SW Office		
Layer 1:	Floor Tile			None Detected	100% NON FIBROUS MATERIAL
	White/Gray, Organically Bound				
Layer 2:	Mastic			4% CHRYSOTILE	96% NON FIBROUS MATERIAL
	Black, Bituminous				
<b>298153-003</b>	01/24/19	10	Lobby		
Layer 1:	Cove Base			None Detected	100% NON FIBROUS MATERIAL
	Gray, Rubbery				
Layer 2:	Glue			None Detected	100% NON FIBROUS MATERIAL
	Tan, Soft				
<b>298153-004</b>	01/24/19	11	SW Office		
Layer 1:	Cove Base			None Detected	100% NON FIBROUS MATERIAL
	Brown, Rubbery				
Layer 2:	Glue			None Detected	100% NON FIBROUS MATERIAL
	Tan, Soft				
<b>298153-005</b>	01/24/19	12	SE Office		
Layer 1:	Mastic			4% CHRYSOTILE	96% NON FIBROUS MATERIAL
	Black, Bituminous				

**Report Amended. Customer requested project name be changed from Barber Shop to Former Jail.**

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any asbestos content less than 10 percent be verified by PLM Point Count or TEM Analysis. The EPA recommends that any vermiculite should be treated as Asbestos Containing Material (ACM). This report must not be reproduced except in full with the approval of the laboratory. The test results reported relate only to the samples submitted.

**Project:** Former Jail, 208 W. Pearl  
**Location:** Harrisonville, MO 64701  
**Number:** 190049A

**Method:** EPA 600/R-93/116 & 600/M4-82-020

**PLM Analysis**

Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
<b>298153-006</b>	01/24/19	13	NW Room		
Layer 1:	Glue Tan, Brittle			None Detected	100% NON FIBROUS MATERIAL
<b>298153-007</b>	01/24/19	14	Visitor Area Visitor Side		
Layer 1:	Ceiling Tile Beige, Fibrous			None Detected	40% CELLULOSE FIBER 40% MINERAL/GLASS WOOL 20% NON FIBROUS MATERIAL
<b>298153-008</b>	01/24/19	15	West Center Office		
Layer 1:	Ceiling Tile Beige, Fibrous			None Detected	40% CELLULOSE FIBER 40% MINERAL/GLASS WOOL 20% NON FIBROUS MATERIAL
<b>298153-009</b>	01/24/19	16	Master Control		
Layer 1:	Ceiling Tile Beige, Fibrous			None Detected	40% CELLULOSE FIBER 40% MINERAL/GLASS WOOL 20% NON FIBROUS MATERIAL
<b>298153-010</b>	01/24/19	17	Jail Hall		
Layer 1:	Ceiling Tile Beige, Fibrous			None Detected	40% CELLULOSE FIBER 40% MINERAL/GLASS WOOL 20% NON FIBROUS MATERIAL
<b>298153-011</b>	01/24/19	18	SW Office		
Layer 1:	Gypsum Board White, Powdery			None Detected	10% CELLULOSE FIBER 90% NON FIBROUS MATERIAL
Layer 2:	Joint Compound White, Granular			None Detected	100% NON FIBROUS MATERIAL
Layer 3:	Gypsum Brd/Jnt Cmpd White, Powdery/Granular			None Detected	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>298153-012</b>	01/24/19	19	West Center Office		
Layer 1:	Ceiling Texture White, Granular			None Detected	100% NON FIBROUS MATERIAL
<b>298153-013</b>	01/24/19	20	West Center Office		
Layer 1:	Ceiling Texture White, Granular			None Detected	100% NON FIBROUS MATERIAL
<b>298153-014</b>	01/24/19	21	West Center Office		
Layer 1:	Ceiling Texture White, Granular			None Detected	100% NON FIBROUS MATERIAL

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**Project:** Former Jail, 208 W. Pearl  
**Location:** Harrisonville, MO 64701  
**Number:** 190049A

**Method:** EPA 600/R-93/116 & 600/M4-82-020

**PLM Analysis**

Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
<b>298153-015</b>	01/24/19	22	Mechanical Room		
Layer 1:	Mudded Fitting			2% AMOSITE	98% NON FIBROUS MATERIAL
	Beige, Powdery				
<b>298153-016</b>	01/24/19	23	Mechanical Room		
Layer 1:	Mudded Fitting			2% AMOSITE	98% NON FIBROUS MATERIAL
	Beige, Powdery				
<b>298153-017</b>	01/24/19	24	Mechanical Room		
Layer 1:	Mudded Fitting			2% AMOSITE	98% NON FIBROUS MATERIAL
	Beige, Powdery				
<b>298153-018</b>	01/24/19	25	Jail Hall, Above		
Layer 1:	Sealant			None Detected	100% NON FIBROUS MATERIAL
	Gray, Soft				
<b>298153-019</b>	01/24/19	26	Exterior, South Side		
Layer 1:	Hard Material			None Detected	100% NON FIBROUS MATERIAL
	Beige, Hard				
<b>298153-020</b>	01/24/19	27	Exterior, South Side		
Layer 1:	Hard Material			None Detected	100% NON FIBROUS MATERIAL
	Beige, Hard				
<b>298153-021</b>	01/24/19	28	Exterior, South Side		
Layer 1:	Hard Material			None Detected	100% NON FIBROUS MATERIAL
	Beige, Hard				
<b>298153-022</b>	01/24/19	29	Exterior, North Side		
Layer 1:	Window Caulk			None Detected	100% NON FIBROUS MATERIAL
	Brown, Soft				
<b>298153-023</b>	01/24/19	30	Roof		
Layer 1:	Roofing			None Detected	10% CELLULOSE FIBER
	Black, Bituminous				90% NON FIBROUS MATERIAL
<b>298153-024</b>	01/24/19	31	Roof		
Layer 1:	Built-up Roofing			None Detected	5% CELLULOSE FIBER
	Black, Bituminous				95% NON FIBROUS MATERIAL

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**Project:** Former Jail, 208 W. Pearl  
**Location:** Harrisonville, MO 64701  
**Number:** 190049A

**Method:** EPA 600/R-93/116 & 600/M4-82-020

**PLM Analysis**

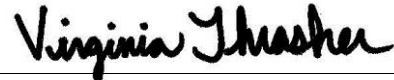
Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
<b>298153-025</b>	01/24/19	32	Roof		
Layer 1:	Built-up Roofing Black, Bituminous			None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
<b>298153-026</b>	01/24/19	33	Roof		
Layer 1:	Roof Flashing Black/Silver, Bituminous			None Detected	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL

EPA Regulatory Limit: 1%  
 Total layers analyzed on order: 32

298153-02/25/19 11:33 AM



Analyst **Mohammed Hashim**



Reviewed By: **Virginia Thrasher**  
 Project Manager

**Report Amended. Customer requested project name be changed from Barber Shop to Former Jail.**

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# APEX ENVIRONMENTAL CONSULTANTS, INC.

14955 W. 101<sup>st</sup> Terrace • Lenexa, Kansas 66215 • Tel: (913) 338-2739 • Fax: (913) 338-2741

## Asbestos Bulk Sample Chain of Custody


Sample Date: January 24, 2019

Page: 1 of 1

Project Name: Barber Shop, 208 W. Pearl, Harrisonville, MO 64701

Contact: Lance Tomlin

Project #: 190049A

Sample No.	Location Description	Material	Notes
8	Lobby	Floor Tile and Mastic, 12" White w/ Gray Specks	
9	SW Office	Floor Tile and Mastic, 9" White w/ Black Specks	
10	Lobby	Cove Base and Glue, 4" Gray	
11	SW Office	Cove Base and Glue, 4" Brown	
12	SE Office	Black Floor Mastic-no tile	
13	NW Room	Carpet Glue	
14	Visitor Area, Visitor Side	Suspended Ceiling Tile, 2' w/ dents and pinholes	<div data-bbox="1543 877 1978 1117" data-label="Complex-Block"> <p>298153 S 26</p>  <p>V:12981298153</p> <p>fghraizi 1/29/2019 10:03:22 AM</p> <p>Federal Express 77431 1468667</p> </div>
15	West Center Office	Suspended Ceiling Tile, 2'x 4' w/ wormholes	
16	Master Control	Suspended Ceiling Tile, 2' gray and white	
17	Jail Hall	Suspended Ceiling Tile, 2' w/ textured surface	

### Additional Instructions:

- Turnaround Time: 3 Day
- Email Results to: LTomlin@4apex.com, chochter@4apex.com

- Analyze via PLM - DS
- Send invoice to: Accts Payable, APEX Environmental Consultants

Relinquished By: L Tomlin Date 1-25-19 Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received by: \_\_\_\_\_ Date: \_\_\_\_\_



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## Asbestos Bulk Sample Chain of Custody

Sample Date: January 24, 2019

Page: 1 of 1

Project Name: Barber Shop, 208 W. Pearl, Harrisonville, MO 64701

Contact: Lance Tomlin

Project #: 190049A

Sample No.	Location Description	Material	Notes
18	SW Office	Gypsum Board w/ Joint Compound	Report as layers and composite.
19	West Center Office	Wall and Ceiling Texture	
20	West Center Office	Wall and Ceiling Texture	
21	West Center Office	Wall and Ceiling Texture	
22	Mechanical Room	Mudded Fittings on Fiberglass Pipe Insulation	
23	Mechanical Room	Mudded Fittings on Fiberglass Pipe Insulation	
24	Mechanical Room	Mudded Fittings on Fiberglass Pipe Insulation	
25	Jail Hall, Above Suspended Ceiling	Duct Sealant, Gray	
26	Exterior, South Side	Stone Finish	
27	Exterior, South Side	Stone Finish	

### Additional Instructions:

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- Email Results to: LTomlin@4apex.com, chochter@4apex.com

- Analyze via PLM - DS
- Send invoice to: Accts Payable, APEX Environmental Consultants

Relinquished By: *L. Parks* Date: 1-25-19 Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received by: \_\_\_\_\_ Date: \_\_\_\_\_





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## Asbestos Bulk Sample Chain of Custody

Sample Date: January 24, 2019

Page: 1 of 1

Project Name: Barber Shop, 208 W. Pearl, Harrisonville, MO 64701

Contact: Lance Tomlin

Project #: 190049A

Sample No.	Location Description	Material	Notes
28	Exterior, South Side	Stone Finish	
29	Exterior, North Side	Window Caulk	
30	Roof	Sheet Roofing, Upper Layer	
31	Roof	Built-up Roofing, Middle Layer	
32	Roof	Built-up Roofing, Lower Layer	
33	Roof	Roof Penetration Flashing	

### Additional Instructions:

- Turnaround Time: 3 Day
- Email Results to: LTomlin@4apex.com, chochter@4apex.com

- Analyze via PLM - DS
- Send invoice to: Accts Payable, APEX Environmental Consultants

Relinquished By: L Tomlin Date: 1-25-19 Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received by: \_\_\_\_\_ Date: \_\_\_\_\_

**APPENDIX B**  
**INSPECTOR'S CERTIFICATION**

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Missouri Department of

dnr.mo.gov

**NATURAL RESOURCES**

Eric R. Greitens, Governor

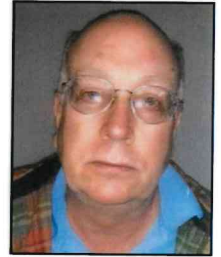
Carol S. Comer, Director

February 13, 2018

Lance D Tomlin  
Box 442336  
Lawrence, KS 66044

CERTIFICATION NUMBER:  
**7011020118MOIR740**

THIS CERTIFIES  
**Lance D Tomlin**  
HAS COMPLETED THE CERTIFICATION  
REQUIREMENTS FOR  
**Inspector**



APPROVED: **02/13/2018**

TRAINING DATE: **02/01/2018**

EXPIRES: **02/13/2019**

*Kyra L Moore*

Director of Air Pollution Control Program

RE: **Missouri Asbestos Occupation Certification Card**

Enclosed is your certification card for Asbestos Inspector, as issued by the Asbestos Unit of the Missouri Department of Natural Resources' Air Pollution Control Program.

Missouri Certification Number: 7011020118MOIR740  
Course Training Date: February 01, 2018  
Missouri Certification Approval Date: February 13, 2018  
Missouri Certification Expiration Date: February 13, 2019

**Note:**

- All Missouri-certified asbestos personnel must comply with the following statutes and regulations:
  - Sections 643.225 to 643.225, RSMo;
  - 10 CSR 10-6.241 *Asbestos Projects-Registration, Abatement, Notification, Inspection, Demolition, and Performance Requirements; and*
  - 10 CSR 10-6.250 *Asbestos Projects-Certification, Accreditation and Business Exemption Requirements.*
- To keep your occupation certification up-to-date, you must complete an annual refresher course and submit a renewal application each year.
- In order to be eligible to renew your certification, you must successfully complete a refresher course with a Missouri-accredited training provider within 12 months of the expiration date of your current training certificate. If you exceed this grace period, you will be required to retake a Missouri-accredited initial course in order to be eligible for Missouri certification.

To obtain a copy of the certification renewal application, or review regulations and requirements, please visit our website at <http://dnr.mo.gov/env/apcp/asbestos/index.htm>.

If you have any questions please call the Air Pollution Control Program at 573-751-4817.

**AIR POLLUTION CONTROL PROGRAM**

*Kyra L Moore*

Director of Air Pollution Control Program

