



SIERRA ENVIRONMENTAL GROUP, INC.

September 23, 2015

Mr. Dennis Zimmer
City of Dayton
Department of Building Services/Division of Housing Inspection
P.O. Box 22
371 West 2nd Street, Room 324
Dayton, OH 45402

Re: Comprehensive Pre-Demolition Asbestos Inspection
Vacant Residence
132 Fernwood Avenue
Dayton, Ohio 45405
Sierra Project Number: MCLB.001

Dear Mr. Zimmer:

On September 11, 2015, Mr. Chuck Callahan and Mr. Todd Taylor (Ohio Department of Health Certified Asbestos Hazard Evaluation Specialists #ES31960, #ES32139 respectively) of Sierra Environmental Group, Inc. (Sierra) visited the vacant residence located at 132 Fernwood Avenue in Dayton, Ohio. The purpose of this visit was to conduct a comprehensive asbestos inspection of the specified residence scheduled for demolition. This inspection process includes a visual inspection, as well as, the collection and analyses of samples from suspect asbestos-containing materials.

During the survey, the samples were collected utilizing sampling methods outlined in current EPA Guidance Documents. Each sample was collected and placed in a clean, sealable container and labeled with a unique sample identification number. Pertinent information was recorded on a Bulk Sample Log Sheet, including sample identification number, date of inspection, name of inspector, building name, a brief description and location of the sample, and the type of material sampled (e.g., thermal insulation, fireproofing, acoustical plaster). The samples were submitted to an analytical laboratory and analyzed for asbestos content by polarized-light microscopy (PLM) and dispersion staining (Method Reference: EPA-600/R-93/116). This analytical method, which the EPA currently recommends for the determination of asbestos in bulk samples of suspect materials, can be used for qualitative identification of six morphologically different types of asbestos fibers: chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite asbestos.

The method specifies that the asbestos content in a bulk sample shall be estimated and reported as a finite percentage (rounded to the nearest percentage) within the range of 0 to 100. The result of the bulk sample analysis is reported in a standard written laboratory report. This report includes the client's name, the project number, the laboratory identification number, the sample number assigned to the bulk sample upon receipt at the laboratory, and the field number assigned to the bulk sample upon collection on site. If the bulk sample contains more than one distinct layer of material, each layer is analyzed separately. The composition of the bulk sample is reported in percentages of asbestos (i.e., chrysotile, amosite, or other) and non-asbestos (i.e., cellulose, fiberglass, or other) components. The results of the sample analyses can be found on the laboratory report enclosed and Table 1.

Sierra collected samples from wall and ceiling systems, flooring materials, roofing materials, ceiling tiles, window glaze and duct insulation. One (1) asbestos-containing material was identified within the residence scheduled for demolition (Table -2 Asbestos Inventory). The cost to remove the Regulated Asbestos-Containing Materials (RACM) from this site prior to demolition would be \$2,825.00. These costs have been estimated and are based on local wage rates and do not include prevailing wage rates. These costs do not include specifications, permits, contractor oversight or third party monitoring.

Sierra made every effort to locate suspect asbestos-containing materials that may be concealed; however, suspect asbestos-containing materials which may be located behind hard plaster walls or ceilings, hard walled chases, under flooring or sub-flooring, under building contents, etc., were not assessed or quantified. If through demolition suspect materials are discovered

that were not sampled during the initial site visit; Sierra should be notified to document any additional samples that may be required and handled accordingly.

This report is prepared to assist the Montgomery County Land Reutilization Corporation, City of Dayton, construction managers and asbestos abatement contractors in locating asbestos-containing materials. This report is not intended as a bidding document or project specifications.

Enclosed are the following Sierra documents: 1) Table 1-Bulk Sample Data Summary; 2) Table 2-Asbestos Inventory; 3) Table 3-Cost Estimate; 4) Laboratory Report; 5) Site Photographs; 6) Inspector's Certification. If we can be of further assistance on this or any other project, do not hesitate to call us at (513) 542-5323.

Sincerely,

SIERRA ENVIRONMENTAL GROUP, INC.



Todd Taylor
Operations Manager

Attachments



TABLE 1: BULK SAMPLE DATA SUMMARY

SAMPLE DESCRIPTION (Material Type)	SAMPLE LOCATION	HOMO AREA #	SAMPLE I.D. NO.	ASBESTOS CONTENT	FRIABLE/ NONFRIABLE
The following samples were collected from the vacant residence located at 132 Fernwood Avenue, Dayton, Ohio.					
Window glaze (Miscellaneous)	Exterior	1	1-1	None Detected	Friable
Window glaze (Miscellaneous)	Exterior	1	1-2	None Detected	Friable
Skim coat of hard wall plaster (Surfacing, >5,000 sf)	Living room	2	2-1	None Detected	Nonfriable
Skim coat of hard ceiling plaster (Surfacing, >5,000 sf)	Living room	2	2-2	None Detected	Nonfriable
Skim coat of hard wall plaster (Surfacing, >5,000 sf)	Dining room	2	2-3	None Detected	Nonfriable
Skim coat of hard ceiling plaster (Surfacing, >5,000 sf)	Kitchen	2	2-4	None Detected	Nonfriable
Skim coat of hard wall plaster (Surfacing, >5,000 sf)	Stairwell to 2nd floor	2	2-5	None Detected	Nonfriable
Skim coat of hard ceiling plaster (Surfacing, >5,000 sf)	Stairwell to 2nd floor	2	2-6	None Detected	Nonfriable
Skim coat of hard wall plaster (Surfacing, >5,000 sf)	Bedroom #1	2	2-7	None Detected	Nonfriable
Brown coat of hard wall plaster (Surfacing, >5,000 sf)	Living room	3	3-1	*0.3% Chrysotile	Nonfriable
Brown coat of hard ceiling plaster (Surfacing, >5,000 sf)	Living room	3	3-2	*0.5% Chrysotile	Nonfriable
Brown coat of hard wall plaster (Surfacing, >5,000 sf)	Dining room	3	3-3	*0.3% Chrysotile	Nonfriable
Brown coat of hard ceiling plaster (Surfacing, >5,000 sf)	Kitchen	3	3-4	*0.5% Chrysotile	Nonfriable
Brown coat of hard wall plaster (Surfacing, >5,000 sf)	Stairwell to 2nd floor	3	3-5	*0.3% Chrysotile	Nonfriable
Brown coat of hard ceiling plaster (Surfacing, >5,000 sf)	Stairwell to 2nd floor	3	3-6	*0.3% Chrysotile	Nonfriable
Brown coat of hard wall plaster (Surfacing, >5,000 sf)	Bedroom #1	3	3-7	*0.5% Chrysotile	Nonfriable
Textured ceiling (Surfacing, <5,000 sf)	Living room	4	4-1	None Detected	Nonfriable

Table 1-1

TABLE 1: BULK SAMPLE DATA SUMMARY

SAMPLE DESCRIPTION (Material Type)	SAMPLE LOCATION	HOMO AREA #	SAMPLE I.D. NO.	ASBESTOS CONTENT	FRIABLE/ NONFRIABLE
Textured ceiling (Surfacing, <5,000 sf)	Dining room	4	4-2	None Detected	Nonfriable
Textured ceiling (Surfacing, <5,000 sf)	Basement stairwell	4	4-3	None Detected	Nonfriable
Textured ceiling (Surfacing, <5,000 sf)	Bedroom #1	4	4-4	None Detected	Nonfriable
Textured ceiling (Surfacing, <5,000 sf)	Hallway 2nd floor	4	4-5	None Detected	Nonfriable
Drywall (Miscellaneous)	Kitchen	5	5-1	None Detected	Nonfriable
Drywall (Miscellaneous)	Bathroom 2nd floor	5	5-2	None Detected	Nonfriable
White sheet flooring (Miscellaneous)	Kitchen	6	6-1	None Detected	Nonfriable
White sheet flooring (Miscellaneous)	Kitchen	6	6-2	None Detected	Nonfriable
2'x4' Suspended ceiling tile, rough (Miscellaneous)	Kitchen	7	7-1	None Detected	Friable
2'x4' Suspended ceiling tile, rough (Miscellaneous)	Kitchen	7	7-2	None Detected	Friable
2'x4' Suspended ceiling tile, rough (Miscellaneous)	Kitchen	7	7-3	None Detected	Friable
2'x4' Suspended ceiling tile with holes and fissures (Miscellaneous)	Kitchen	8	8-1	None Detected	Friable
2'x4' Suspended ceiling tile with holes and fissures (Miscellaneous)	Kitchen	8	8-2	None Detected	Friable
2'x4' Suspended ceiling tile with holes and fissures (Miscellaneous)	Kitchen	8	8-3	None Detected	Friable
Joint compound (Miscellaneous)	Kitchen	9	9-1	None Detected	Nonfriable
Joint compound (Miscellaneous)	Bathroom 2nd floor	9	9-2	None Detected	Nonfriable

Table 1-2

TABLE 1: BULK SAMPLE DATA SUMMARY

SAMPLE DESCRIPTION (Material Type)	SAMPLE LOCATION	HOMO AREA #	SAMPLE I.D. NO.	ASBESTOS CONTENT	FRIABLE/ NONFRIABLE
Duct insulation (Thermal System Insulation)	Basement	10	10-1	90% Chrysotile	Friable
12"x12" White sticky back floor tile (Miscellaneous)	Bathroom 2nd floor	11	11-1	None Detected	Nonfriable
12"x12" White sticky back floor tile (Miscellaneous)	Bathroom 2nd floor	11	11-2	None Detected	Nonfriable
Linoleum under 12" sticky back floor tile (Miscellaneous)	Bathroom 2nd floor	12	12-1	None Detected	Nonfriable
Linoleum under 12" sticky back floor tile (Miscellaneous)	Bathroom 2nd floor	12	12-2	None Detected	Nonfriable
Black and white asphalt roof shingle (Miscellaneous)	Exterior	13	13-1	None Detected	Nonfriable
Black and white asphalt roof shingle (Miscellaneous)	Exterior	13	13-2	None Detected	Nonfriable

*Quantified By PLM Point Count Method

TABLE 2 - ASBESTOS INVENTORY

Location	Type ACM	Material Description	Amt. of Material (approx.)
The following asbestos-containing materials are located in the vacant residence located at 132 Fernwood Avenue, Dayton.			
Basement	RACM	Duct insulation	25 sf
Basement	RACM	Duct insulation debris	20 sf
Basement to 2nd floor	RACM	Duct insulation (concealed behind hard wall and ceiling plaster)	75 sf

Table 2-1

TABLE 3 - COST ESTIMATE

Location	Type ACM	Material Description	Cost for abatement (approx.)
The following asbestos-containing materials are located in the vacant residence located at 132 Fernwood Avenue, Dayton, Ohio.			
Basement	RACM	Duct insulation	\$500.00
Basement	RACM	Duct insulation debris	\$450.00
Basement to 2nd floor	RACM	Duct insulation (concealed behind hard wall and ceiling plaster)	\$1,875.00

Table 3-1

CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373967
Project: 132 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736717 **Description / Location:** Off-White Glazing
Client No.: 1-1

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736718 **Description / Location:** Off-White Glazing
Client No.: 1-2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736719 **Description / Location:** White Plaster
Client No.: 2-1

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736720 **Description / Location:** Off-White Plaster
Client No.: 2-2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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This report shall not be reproduced except in full, without written approval of the laboratory.*

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy, (ELAP 198.1 where applicable)

Comments: Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analysis Performed By: M. Mirza

Approved By:

Date: 9/16/2015

Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373967
Project: 132 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736721	Description / Location: Off-White Plaster			
Client No.: 2-3				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736722	Description / Location: White Plaster			
Client No.: 2-4				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736723	Description / Location: Off-White Plaster			
Client No.: 2-5				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736724	Description / Location: Off-White Plaster			
Client No.: 2-6				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analysis Performed By: M. Mirza

Date: 9/16/2015



CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373967
Project: 132 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736725 Description / Location: Off-White Plaster
Client No.: 2-7

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736726 Description / Location: Grey Plaster
Client No.: 3-1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.3	Chrysotile	Trace	Hair	PC 99.7

Lab No.: 5736727 Description / Location: Grey Plaster
Client No.: 3-2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.5	Chrysotile	Trace	Hair	PC 99.5

Lab No.: 5736728 Description / Location: Grey Plaster
Client No.: 3-3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.3	Chrysotile	Trace	Hair	PC 99.7

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

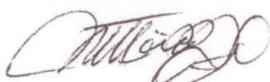
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Analysis Performed By: M. Mirza

Date: 9/16/2015



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1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373967
Project: 132 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736729 **Description / Location:** Grey Plaster
Client No.: 3-4

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 0.5	Chrysotile	Trace	Hair	PC 99.5

Lab No.: 5736730 **Description / Location:** Grey Plaster
Client No.: 3-5

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 0.3	Chrysotile	Trace	Hair	PC 99.7

Lab No.: 5736731 **Description / Location:** Grey Plaster
Client No.: 3-6

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 0.3	Chrysotile	Trace	Hair	PC 99.7

Lab No.: 5736732 **Description / Location:** Grey Plaster
Client No.: 3-7

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 0.5	Chrysotile	Trace	Hair	PC 99.5

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analysis Performed By: M. Mirza

Date: 9/16/2015



CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373967
Project: 132 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736733 **Description / Location:** White Texture Plaster
Client No.: 4-1

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736734 **Description / Location:** White Texture Plaster
Client No.: 4-2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736735 **Description / Location:** White Texture Plaster
Client No.: 4-3

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736736 **Description / Location:** White Texture Plaster
Client No.: 4-4

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

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Report No.: 373967
Project: 132 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736737 Description / Location: White Texture Plaster
Client No.: 4-5

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736738 Description / Location: Tan/White Sheetrock
Client No.: 5-1

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	95

Lab No.: 5736739 Description / Location: White Sheetrock
Client No.: 5-2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	98

Lab No.: 5736740 Description / Location: Tan Floor Tile
Client No.: 6-1

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373967
Project: 132 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736741	Description / Location: Tan Floor Tile			
Client No.: 6-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736742	Description / Location: White/Brown Ceiling Tile			
Client No.: 7-1				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Cellulose	2

Lab No.: 5736743	Description / Location: White/Brown Ceiling Tile			
Client No.: 7-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Cellulose	2

Lab No.: 5736744	Description / Location: White/Brown Ceiling Tile			
Client No.: 7-3				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Cellulose	2

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

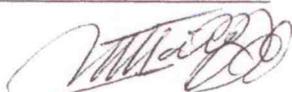
*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government
This report shall not be reproduced except in full, without written approval of the laboratory.*

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy, (ELAP 198.1 where applicable)

Comments: Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analysis Performed By: M. Mirza

Date: 9/16/2015



CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373967
Project: 132 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736745 **Description / Location:** White/Lt Tan Ceiling Tile
Client No.: 8-1

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	65	Cellulose	30
		5	Mineral Wool	

Lab No.: 5736746 **Description / Location:** White/Lt Tan Ceiling Tile
Client No.: 8-2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	65	Cellulose	30
		5	Mineral Wool	

Lab No.: 5736747 **Description / Location:** White/Lt Tan Ceiling Tile
Client No.: 8-3

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	65	Cellulose	30
		5	Mineral Wool	

Lab No.: 5736748 **Description / Location:** White Joint Compound
Client No.: 9-1

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy, (ELAP 198.1 where applicable)

Comments: Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analysis Performed By: M. Mirza

Date: 9/16/2015



CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373967
Project: 132 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736749 **Description / Location:** White Joint Compound
Client No.: 9-2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736750 **Description / Location:** Lt Grey Insulation
Client No.: 10-1

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
90	Chrysotile	5	Cellulose	5

Lab No.: 5736751 **Description / Location:** Lt Tan Floor Tile
Client No.: 11-1

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736752 **Description / Location:** Lt Tan Floor Tile
Client No.: 11-2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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This report shall not be reproduced except in full, without written approval of the laboratory.*

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy, (ELAP 198.1 where applicable)

Comments: Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analysis Performed By: M. Mirza

Date: 9/16/2015



CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373967
Project: 132 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736753 **Description / Location:** Off-White/Lt Tan Vinyl Sheet Flooring
Client No.: 12-1

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80
		Trace	Fibrous Glass	

Lab No.: 5736754 **Description / Location:** Off-White/Lt Tan Vinyl Sheet Flooring
Client No.: 12-2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80
		Trace	Fibrous Glass	

Lab No.: 5736755 **Description / Location:** White/Green/Black Shingle
Client No.: 13-1

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Fibrous Glass	95

Lab No.: 5736756 **Description / Location:** White/Green/Black Shingle
Client No.: 13-2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Fibrous Glass	95

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government
This report shall not be reproduced except in full, without written approval of the laboratory.*

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy, (ELAP 198.1 where applicable)

Comments: Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analysis Performed By: M. Mirza

Date: 9/16/2015



Chain of Custody

-Bulk Asbestos -

Contact Information		Project Number: <u>MCLB.001</u>
Client Company: <u>Sierin</u>	Office Address: <u>1041 Straight St.</u>	Project Name: <u>132 Fernwood</u>
City, State, Zip: <u>Cinc. OH 45214</u>	Fax Number: _____	Primary Contact: <u>T. Taylor</u>
Email Address: <u>tt.sierin@hux.net</u>	Office Phone: _____	Cell Phone: _____

PLM Instructions:

- PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009

EMAILED
9/16/15

- PLM: Point Counting
 - PC: via ELAP 198.1
 - PC: 400 Points
 - PC: 800 Points *
 - PC: 1600 Points *
- PLM: Instructions for Multi-Layered Samples
 - Analyze and Report All Separable Layers per EPA 600
 - Report Composite for Drywall Systems per NESHAP
 - Report All Layers and Composite Where Applicable
 - Only Analyze and Report Specifically Noted Layer
- PLM: Analyze Until Positive (Positive Stop)
 - AUP: by Homogenous Area as Noted
 - AUP: by Material Type as Noted
 - PLM: NOB via 198.6
 - PLM: Friable via EPA 600 2.3
 - If <1% by PLM, to TEM via 198.4 *
 - If <1% by PLM, Hold for Instructions
- PLM: Non-Building Material *** (Dust, Wipe, Tape)
 - Soil or Vermiculite Analysis
 - CARB 435

Special Instructions: _____

* Additional charge and turnaround may be required ** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory

Turnaround Time

Preliminary Results Requested Date: _____

Verbal Email Fax

10 Day 5 Day 3 Day 2 Day 1 Day* 12 Hour** 6 Hour** RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

40

Chain of Custody

Relinquished (Name/Organization): <u>Am SA</u>	Date: <u>9-11-15</u>	Time: _____
Received (Name / iATL): _____	Date: _____	Time: _____
Sample Login (Name / iATL): <u>mm</u>	Date: <u>9/14/15</u>	Time: _____
Analysis (Name(s) / iATL): <u>dlc</u>	Date: <u>9/17/15</u>	Time: _____
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: <u>14 2015</u>

IATL - BY

Asbestos Chain-of-Custody

~ For Lab Use Only ~

Company Name: Sierra Environmental Group, Inc. Address: 1041 Straight Street City/State/Zip: Cincinnati, OH 45214
 Phone: (513) 542-5323 Fax: () _____ E-mail: tsierra@fuse.net
 Project Name / Testing Address: MCLB. 001 - 132 Fernwood City/State (Required): _____
 Collected by: Todd Taylor Purchase Order Number _____

Turn Around Times: **If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.**
 1 - Day _____ 2 - Day 2 3 - Day _____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead) _____

No.	Client Sample ID	Date Collected	ASBESTOS						AIR			Comments			
			PM	PM Point (cont 100)	PM N/Proced	TEM (Infield) (Bulk)	TEM (Infield) (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)		Volume (Total Liters)		
1	1-1	9-11-15	-	-	-	-	-	-	-	-	-	5736717	5736717	Sp at 1 position	
2	1-2	↓	-	-	-	-	-	-	-	-	-	5736718	5736718	↓	
3	2-1		-	-	-	-	-	-	-	-	-	5736719	5736719		Sp at 1 position
4	2-2		-	-	-	-	-	-	-	-	-	5736720	5736720		
5	2-3		-	-	-	-	-	-	-	-	-	5736721	5736721		
6	2-4		-	-	-	-	-	-	-	-	-	5736722	5736722		
7	2-5		-	-	-	-	-	-	-	-	-	5736723	5736723		
8	2-6		-	-	-	-	-	-	-	-	-	5736724	5736724		
9	2-7		-	-	-	-	-	-	-	-	-	5736725	5736725		
10	3-1		-	-	-	-	-	-	-	-	-	5736726	5736726		Sp at 1 position

Released by: T. Taylor Signature: [Signature] Date/Time: _____
 Received by: _____ Signature: _____ Date/Time: _____

Asbestos Chain-of-Custody

~ For Lab Use Only ~

Company Name: Sierra Environmental Group, Inc. Address: 1041 Straight Street City/State/Zip: Cincinnati, OH 45214
 Phone: (513) 542-5323 Fax: () E-mail: tsierra@fuse.net
 Project Name / Testing Address: MCLB.001 - City/State (Required): _____
 Collected by: Todd Taylor Purchase Order Number: _____

Turn Around Times: *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

1 - Day _____ 2 - Day _____ 3 - Day _____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead) _____

No.	Client Sample ID	Date Collected	ASBESTOS						AIR			Volume (Total Liters)	COMMENTS
			PLM	PLM Post Count 400	PLM Post Count 1000	PLM N7 Protocol	PCM	TSM Certified (Bulk)	TSM AHERA (Air)	Time On	Time Off		
1	3-2	9-11-15	-	-	-	-	-	-	-	-	-	5736727	↓ Start position ↓
2	3-3		-	-	-	-	-	-	-	-	5736728		
3	3-4		-	-	-	-	-	-	-	-	5736729		
4	3-5		-	-	-	-	-	-	-	-	5736730		
5	3-6		-	-	-	-	-	-	-	-	5736731		
6	3-7		-	-	-	-	-	-	-	-	5736732		
7	4-1		-	-	-	-	-	-	-	-	5736733		
8	4-2		-	-	-	-	-	-	-	-	5736734		
9	4-3		-	-	-	-	-	-	-	-	5736735		
10	4-4		-	-	-	-	-	-	-	-	5736736		

Released by: T. Taylor Signature: [Signature]
 Received by: _____ Signature: _____

Date/Time: _____
 Date/Time: _____

Asbestos Chain-of-Custody

~ For Lab Use Only ~

Company Name: Sierra Environmental Group, Inc. Address: 1041 Straight Street City/State/Zip: Cincinnati, OH 45214
 Phone: (513) 542-5323 Fax: () _____ E-mail: tsierra@fuse.net
 Project Name / Testing Address: MCLB.001- City/State (Required): _____
 Collected by: Todd Taylor Purchase Order Number _____

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

1 - Day _____ 2 - Day _____ 3 - Day 2 Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead) _____

No.	Client Sample ID	Date Collected	ASBESTOS						AIR				COMMENTS	
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM N/ Protocol	PCM	TEM Certified (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)		Total Time (mins)
1	4-5	9-11-15	-	-	-	-	-	-	-	-	-	5736737	5736737	↓
2	5-1		-	-	-	-	-	-	-	-	-	5736738	5736738	Sys at 1 st position
3	5-2		-	-	-	-	-	-	-	-	-	5736739	5736739	Sys at 1 st position
4	6-1		-	-	-	-	-	-	-	-	-	5736740	5736740	Sys at 1 st position
5	6-2		-	-	-	-	-	-	-	-	-	5736741	5736741	↓
6	7-1		-	-	-	-	-	-	-	-	-	5736742	5736742	Sys at 1 st position
7	7-2		-	-	-	-	-	-	-	-	-	5736743	5736743	↓
8	7-3		-	-	-	-	-	-	-	-	-	5736744	5736744	↓
9	8-1		-	-	-	-	-	-	-	-	-	5736745	5736745	Sys at 1 st position
10	8-2	✓	-	-	-	-	-	-	-	-	-	5736746	5736746	↓

Released by: T. Taylor Signature: [Signature] Date/Time: _____
 Received by: _____ Signature: _____ Date/Time: _____

Asbestos Chain-of-Custody

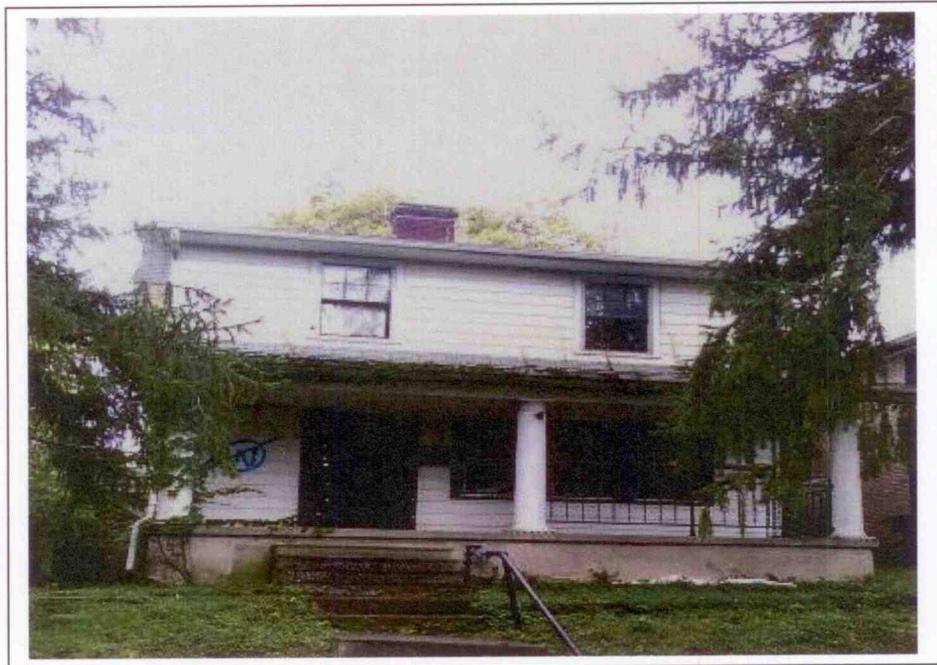
~ For Lab Use Only ~

Company Name: Sierra Environmental Group, Inc. Address: 1041 Straight Street City/State/Zip: Cincinnati, OH 45214
 Phone: (513) 542-5323 Fax: () _____ E-mail: tsierra@fuse.net
 Project Name / Testing Address: MCLB.001- City/State (Required): _____
 Collected by: Todd Taylor Purchase Order Number: _____

Turn Around Times: 2 - Day 3 - Day 1 - Day
 If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.
 Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead) _____

No.	Client Sample ID	Date Collected	ASBESTOS						AIR			COMMENTS		
			PM	PM Point (cont 40)	PM Point (cont 100)	PM N Protocol	PM	TM Certified (Bulk)	TM AHERA (Air)	Time On	Time Off		Flow Rate (L/min)	Total Time (Hours)
1	8-3	9-11-15	-	-	-	-	-	-	-	-	-	5736748	5736748	Shot at 1 st position
2	9-1	↓	-	-	-	-	-	-	-	-	-	5736749	5736749	Shot at 1 st position
3	9-2		-	-	-	-	-	-	-	-	-	5736750	5736750	Shot at 1 st position
4	10-1	↓	-	-	-	-	-	-	-	-	-	5736751	5736751	Shot at 1 st position
5	11-1		-	-	-	-	-	-	-	-	-	5736752	5736752	Shot at 1 st position
6	11-2	↓	-	-	-	-	-	-	-	-	-	5736753	5736753	Shot at 1 st position
7	12-1		-	-	-	-	-	-	-	-	-	5736754	5736754	Shot at 1 st position
8	12-2	↓	-	-	-	-	-	-	-	-	-	5736755	5736755	Shot at 1 st position
9	13-1		-	-	-	-	-	-	-	-	-	5736756	5736756	Shot at 1 st position
10	13-2	↓	-	-	-	-	-	-	-	-	-	-	-	-

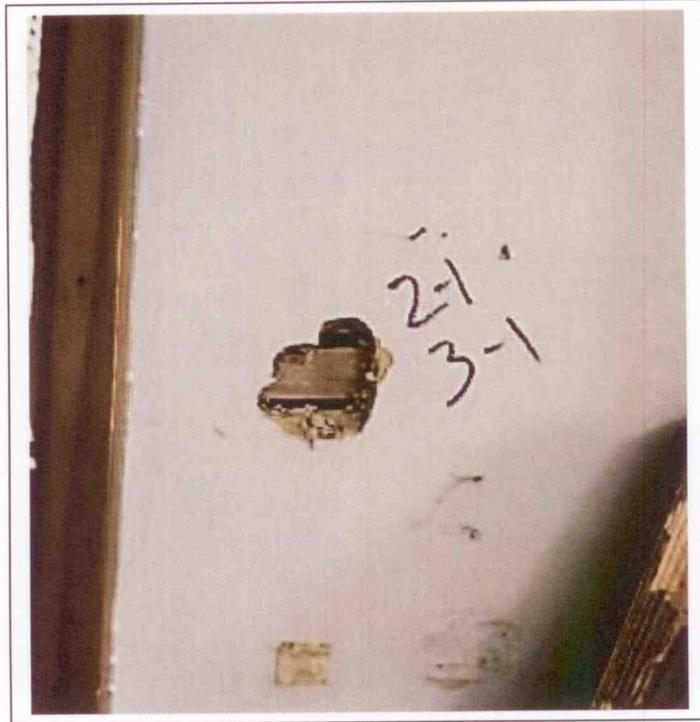
Released by: T. Taylor Signature: [Signature] Date/Time: _____
 Received by: _____ Signature: _____ Date/Time: _____



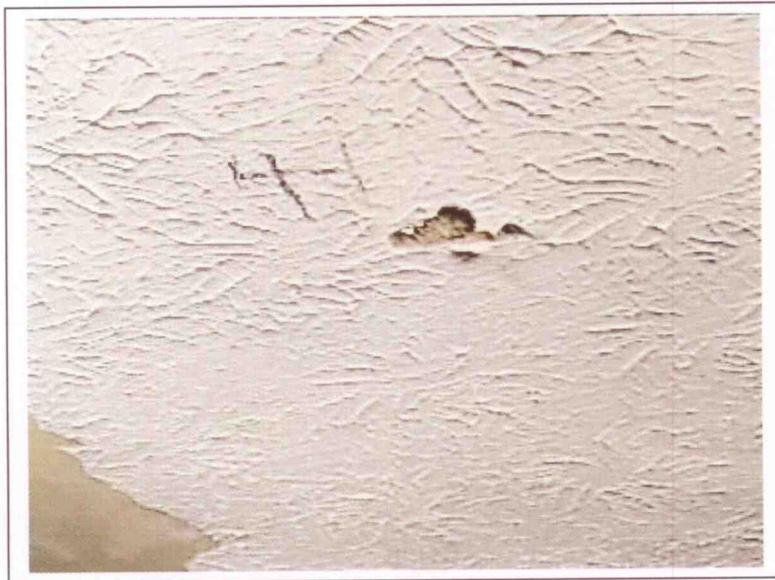
132 Fernwood Avenue, Dayton, Ohio 45405



HA #1 - Window glaze



HA #2 & #3 – Hard wall and ceiling plaster



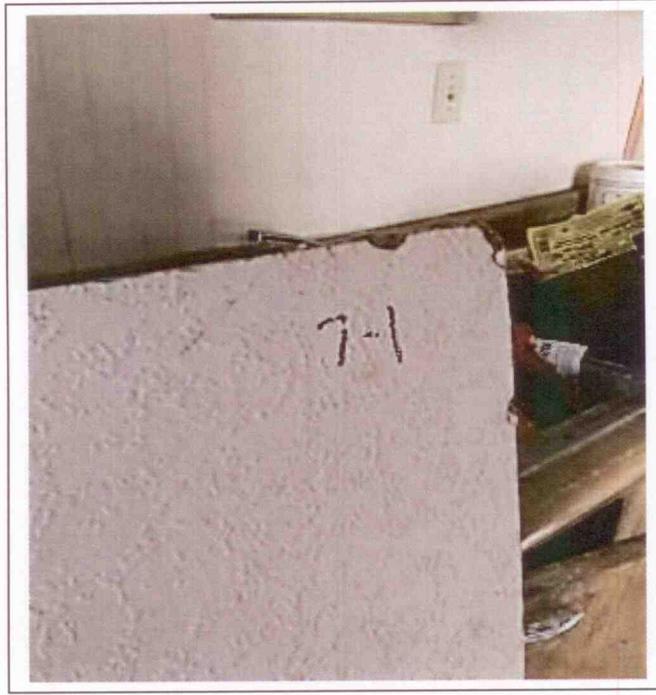
HA #4 – Textured ceiling



HA #5 & #9 – Drywall and associated joint compound



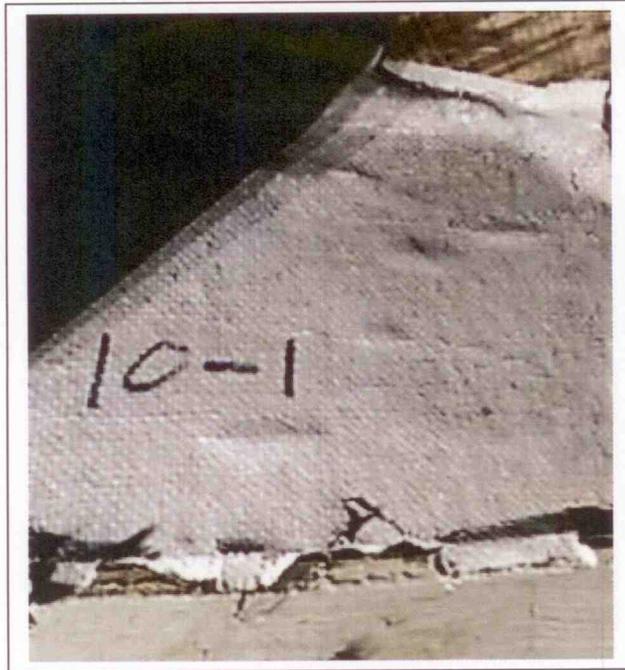
HA #6 – White sheet flooring



HA #7 – 2’x4’ Suspended ceiling tile, rough



HA #8 - 2’x4’ Suspended ceiling tile with holes and fissures



HA #10 – Duct insulation



HA #11 & #12 – 12” White sticky back floor tile and linoleum



HA #13 – Black and white asphalt roof shingle

OHIO DEPARTMENT OF HEALTH

246 North High Street

Columbus, Ohio 43215

John R. Kasich, Governor

614/466-3647

www.odh.ohio.gov

Richard Hodges/Director of Health

October 23, 2014

Charles F Callahan
Sierra Environmental Group, Inc.
1041 Straight Street
Cincinnati OH 45214

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES31960
Expiration Date: 10/20/2015

Dear Charles F Callahan:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of Health for violation of any of the requirements of 3701-34 of the Ohio Administrative Code.

If you have any questions, please call Charlene W. Valentine, Licensure Specialist, at 614-644-0226.

Sincerely,

David Holston, Chief
Environmental Abatement Section
Bureau of Information and Operational Support
Division of Quality Assurance



Asbestos Hazard Evaluation Specialist



Charles F Callahan
Sierra Environmental Group, Inc.
1041 Straight Street
Cincinnati OH 45214

Certification Number **ES31960** Expiration Date **10/20/2015**

This certification is issued pursuant to Chapter 3710 of the Ohio Administrative Code and 3701-34 of the Ohio Administrative Code. Department of Health / Division of Quality Assurance

Employer/Provider

OHIO DEPARTMENT OF HEALTH

614/466-5443
www.odh.ohio.gov

Richard Hodges/Director of Health

May 12, 2015

Todd E. Taylor
Sierra Environmental Group, Inc.
1041 Straight Street
Cincinnati OH 45214

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES32139
Expiration Date: 05/19/2016

Dear Todd E Taylor:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of Health for violation of any of the requirements of 3701-34 of the Ohio Administrative Code.

If you have any questions, please call Kathy Butcher, Licensure Specialist, at 614-644-0226.

Sincerely,

Bill Robbins
Bill Robbins, Section Chief
Bureau of Licensure Operations
Office of Health Assurance and Licensing

State of Ohio
Department of Health
Asbestos Program

Asbestos Hazard Evaluation Specialist



Todd E Taylor
Sierra Environmental Group, Inc.
1041 Straight Street
Cincinnati OH 45214

Certification Number: **ES32139** Expiration Date: **05/19/2016**

DOB: 07/23/1967

This certification is issued pursuant to Chapter 3701 of the Ohio Administrative Code. Certification is not valid if altered.