

**Limited Inspection for Asbestos Containing Materials
Greenville County Family Courthouse
301 University Ridge
Greenville, S.C. 29601**

Prepared for:

*Mr. Walt Atkins
Greenville County
301 University Ridge
Greenville, S.C. 29601-3660*

September 18, 2012

Prepared by:

Environmental Testing and Management, Inc.

P.O. Box 896
Mauldin, South Carolina 29662
Phone (864) 213-4408 Fax (864) 213-4409

**Limited Inspection for Asbestos Containing Materials
Greenville County Family Court
301 University Ridge
Greenville, S.C. 29601**

I. Introduction

Environmental Testing and Management Inc., (ETM) was retained by Greenville County to conduct a limited inspection for suspect asbestos containing materials in the Greenville County Family Courthouse, located at 301 University Ridge, Greenville, S.C. This inspection focused on identifying and, where possible, sampling suspect asbestos containing materials in the pre-1981 portion of this building. In addition, a carpet replacement project is planned for the addition portion of the Family Court building (the addition was added to the original building post 1981). Therefore, three samples of carpet mastic were to be collected in the addition. This inspection was conducted by Andrew Schauder, CIH, and Roxane Schauder, MS, of ETM on August 30, 2012. Forty-nine (49) bulk materials were collected and (71) layers were analyzed for the presence of asbestos.

II. Observations

The inspection began in the original portion of the building, in the hallway behind the courtrooms. Three samples (1-3) were collected of the predominant ceiling tile present in this area (see photo #3). These samples returned as negative for the presence of asbestos. Three samples (4-6) were also collected of sheetrock and joint compound (see photos # 1 and 2). These samples returned as negative as well.

Much of the floor area behind the courtrooms is covered with carpet squares. However, there are several areas of floor tile. In a small coffee room, three samples (7-9) were collected of the ivory and black mottled floor tile and its associated tan mastic (see photo #4). Three samples (10-12) were also collected of the light grey cove base and its associated mastic. All of these samples returned as negative upon bulk analysis. In accordance with SCDHEC regulations for non-friable organically bound (NOB) materials, a sample of each item was subsequently submitted for TEM analysis. All materials were confirmed to be negative for the presence of asbestos.

Also in the coffee room, three samples (13-15) were collected of the replacement style of ceiling tile (see photo #5). Two additional samples (16-17) were collected of sheetrock and joint compound. All samples returned as negative.

*Limited Inspection for Asbestos Containing Materials
Greenville County Family Courthouse
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Page Two*

Above the ceiling in the coffee room, three samples (18-20) were collected of white HVAC mastic. These samples returned as less than 1% asbestos (meaning the mastic can be treated as a non-asbestos containing material).

In Judge Jenkins' office, three samples (21-23) were collected of carpet mastic. These samples returned as negative as confirmed by TEM analysis.

In the hallway just in front of Courtroom 4, three samples (24-26) were collected of the ceiling tile found in this area (see photo #6). Two additional samples (27-28) were collected of the sheetrock and joint compound. All samples returned as negative.

In the DJJ area, at room 12, three samples (29-31) were collected of the light brown cove base and mastic present here.

In the Guardian Ad Litem room (room 525), three samples (32-34) were collected of the black cove base (the mastic is the same as that associated with samples 29-31). All of these materials returned as negative for the presence of asbestos as confirmed by TEM analysis. It should be noted that carpeting in this area is the original carpet. As there was no good place to pull the carpet to observe the mastic underneath to see if it was the same yellow carpet mastic as sampled elsewhere, this area will remain suspect insofar as the carpet mastic is concerned.

In the large break room (room 1000), three samples (35-37) were collected of the white flecked floor tile present here (see photos # 7 and 8) and its associated tan mastic. This is the top layer of floor tile in this room and it was found to be negative as confirmed by TEM analysis (the tan mastic is the same as that associated with samples 7-9). The bottom layer appears to be the same as the floor tile as is present in the break room as represented by samples 7-9 (also negative). This white flecked floor tile is present in several areas throughout the original portion of the Family Court.

In the mezzanine, three samples (38-40) were collected of the green floor tile and mastic (see photo #9). Three samples (41-43) were also collected of the light grey cove base and mastic. Lastly, three samples (44-46) were collected of the grey mastic on ductwork. All samples returned as negative for the presence of asbestos as confirmed by TEM analysis.

Due to a planned upcoming carpet replacement project, the carpet mastic present in the Addition was sampled. Three samples (1-3) were collected of this material and all samples returned as negative for the presence of asbestos as confirmed by TEM analysis.

*Limited Inspection for Asbestos Containing Materials
Greenville County Family Courthouse
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Page Three*

No other building materials in this post-1981 construction were disturbed at this time per owner request.

III. Conclusions and Recommendations

The results of this survey are summarized in Table I (original portion) and Table II (addition). These Tables list the following data:

1. Sample number
2. Sample location
3. Material sampled
4. The result of the analysis of the material sampled.

As noted above, there were no asbestos containing materials found in either the original or the addition portions of the Family Courthouse.

Inspector:  License: #1336 Expires: 09/21/12

Inspector:  License: #00189 Expires: 02/16/13

Photo #1



Photo #2



Photo #3



Photo #4

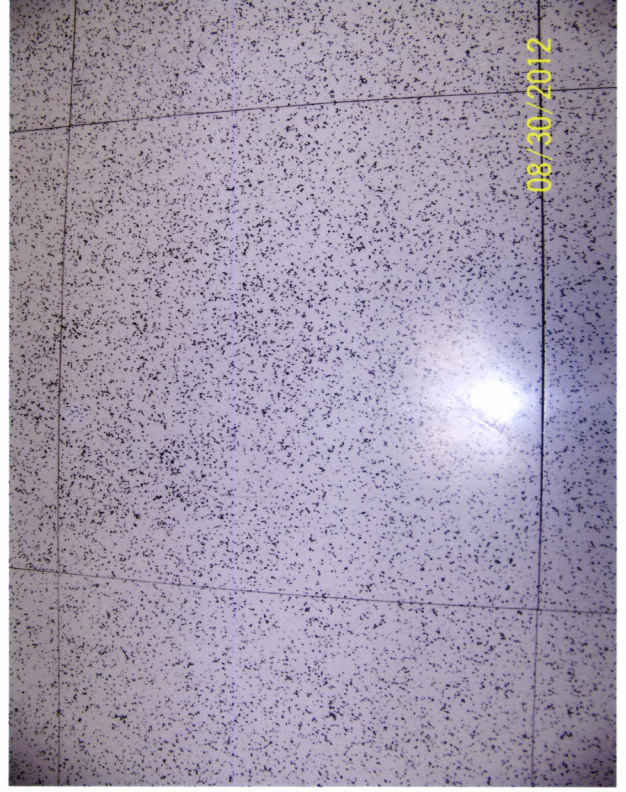


Photo #5



Photo #6



Photo #7

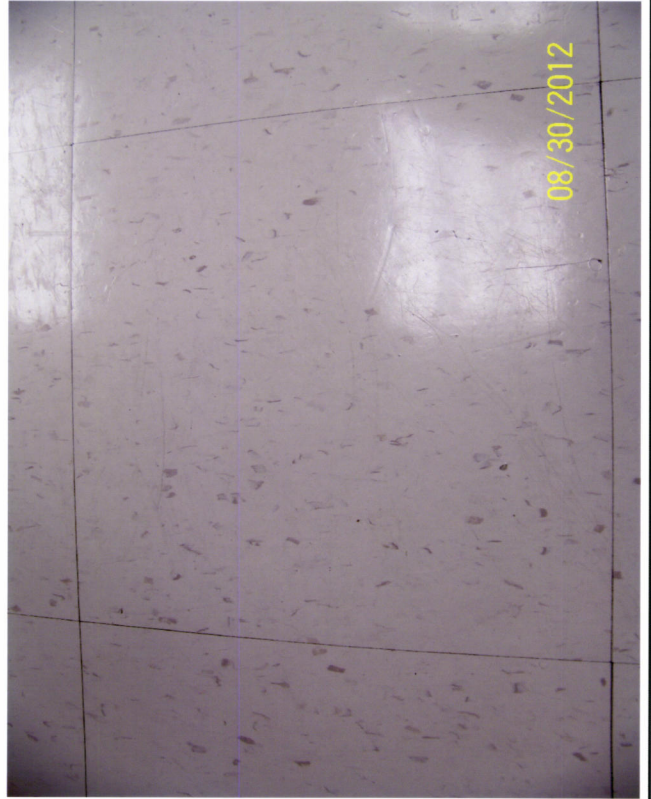


Photo #8



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Photo #9			
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Limited Inspection for Asbestos Containing Materials
 Greenville County Family Courthouse
 301 University Ridge
 Greenville, S.C. 29601
 Page Four

TABLE I: Original Portion

Sample No.	Location Sampled	Material	Result
01 - 03	Hallway behind courtrooms	Ceiling tile	ND*
04 - 06	Hallway behind courtrooms	Sheetrock & joint compound	ND*
07 - 09	Small break room	Floor tile & mastic: Ivory and black mottled	ND*
10 - 12	Small break room	Cove base & mastic: Light grey	ND *
13 - 15	Small break room	Ceiling tile	ND*
16 - 17	Small break room	Sheetrock & joint compound	ND*
18 - 20	Small break room	HVAC mastic: Above ceiling tiles	<1% Chrysotile
21 - 23	Judge Jenkins' office	Carpet mastic	ND*
24 - 26	Hallway Courtroom 4	Ceiling tile	ND*
27 - 28	Hallway Courtroom 4	Sheetrock & joint compound	ND*
29 - 31	DJJ area Room 12	Cove base & mastic: Light brown	ND*
32 - 34	Guardian Ad Litem (room 525)	Cove base: Black	ND*

*Limited Inspection for Asbestos Containing Materials
 Greenville County Family Courthouse
 301 University Ridge
 Greenville, S.C. 29201
 Page Five*

35 - 37	Break room (room 1000)	Floor tile & mastic: Top layer White/beige flecks	ND*
38 - 40	Mezzanine	Floor tile & mastic: Green	ND*
41 - 43	Mezzanine	Cove base & mastic: Light grey	ND*
44 - 46	Mezzanine	Duct mastic Grey	ND*

TABLE II: Addition

Sample No.	Location Sampled	Material	Result
01 - 03	Lobby	Carpet mastic	ND*

ND*: none detected

< : less than



ASBESTOS LABORATORY REPORT

Prepared for

Environmental Testing & Management, Inc.

PROJECT: Greenville County - Family Courthouse: pre-1981

CEI LAB CODE: A12-7907

DATE ANALYZED: 09/05/12

DATE REPORTED: 09/06/12

TOTAL SAMPLES ANALYZED: 46

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Greenville County - Family Courthouse: CEI LAB CODE: A12-7907
pre-1981

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
1		A1338998	Grey	Ceiling Tile	None Detected
2		A1338999	Grey	Ceiling Tile	None Detected
3		A1339000	Grey	Ceiling Tile	None Detected
4	Layer 1	A1339001	White	Sheetrock	None Detected
	Layer 2	A1339001	White	Joint Compound	None Detected
5	Layer 1	A1339002	White	Sheetrock	None Detected
	Layer 2	A1339002	White	Joint Compound	None Detected
6	Layer 1	A1339003	White	Sheetrock	None Detected
	Layer 2	A1339003	White	Joint Compound	None Detected
7		A1339004A	Off-white	Floor Tile	None Detected
		A1339004B	Tan	Mastic	None Detected
8		A1339005A	Off-white	Floor Tile	None Detected
		A1339005B	Tan	Mastic	None Detected
9		A1339006A	Off-white	Floor Tile	None Detected
		A1339006B	Tan	Mastic	None Detected
10		A1339007A	Grey	Covebase	None Detected
		A1339007B	Tan	Mastic	None Detected
11		A1339008A	Grey	Covebase	None Detected
		A1339008B	Tan	Mastic	None Detected
12		A1339009A	Grey	Covebase	None Detected
		A1339009B	Tan	Mastic	None Detected
13		A1339010	Grey	Ceiling Tile	None Detected
14		A1339011	Grey	Ceiling Tile	None Detected
15		A1339012	Grey	Ceiling Tile	None Detected
16	Layer 1	A1339013	White	Sheetrock	None Detected
	Layer 2	A1339013	White	Joint Compound	None Detected
17	Layer 1	A1339014	White	Sheetrock	None Detected
	Layer 2	A1339014	White	Joint Compound	None Detected
18		A1339015	White	Mastic	None Detected
19		A1339016	White	Mastic	None Detected
20		A1339017	White	Mastic	None Detected



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Greenville County - Family Courthouse: CEI LAB CODE: A12-7907
pre-1981

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
21		A1339018	Tan	Mastic	None Detected
22		A1339019	Tan	Mastic	None Detected
23		A1339020	Tan	Mastic	None Detected
24		A1339021	Grey	Ceiling Tile	None Detected
25		A1339022	Grey	Ceiling Tile	None Detected
26		A1339023	Grey	Ceiling Tile	None Detected
27	Layer 1	A1339024	White	Sheetrock	None Detected
	Layer 2	A1339024	White	Joint Compound	None Detected
28	Layer 1	A1339025	White	Sheetrock	None Detected
	Layer 2	A1339025	White	Joint Compound	None Detected
29		A1339026A	Grey	Covebase	None Detected
		A1339026B	Tan	Mastic	None Detected
30		A1339027A	Grey	Covebase	None Detected
		A1339027B	Tan	Mastic	None Detected
31		A1339028A	Grey	Covebase	None Detected
		A1339028B	Tan	Mastic	None Detected
32		A1339029	Grey	Covebase	None Detected
33		A1339030	Grey	Covebase	None Detected
34		A1339031	Grey	Covebase	None Detected
35		A1339032A	Off-white	Floor Tile	None Detected
		A1339032B	Tan	Mastic	None Detected
36		A1339033A	Off-white	Floor Tile	None Detected
		A1339033B	Tan	Mastic	None Detected
37		A1339034A	Off-white	Floor Tile	None Detected
		A1339034B	Tan	Mastic	None Detected
38		A1339035	Blue	Floor Tile	None Detected
39		A1339036	Blue	Floor Tile	None Detected
40		A1339037	Blue	Floor Tile	None Detected
41		A1339038A	Grey	Covebase	None Detected
		A1339038B	Tan	Mastic	None Detected
42		A1339039A	Grey	Covebase	None Detected



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By: POLARIZING LIGHT MICROSCOPY

PROJECT: Greenville County - Family Courthouse: CEI LAB CODE: A12-7907
pre-1981

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
		A1339039B	Tan	Mastic	None Detected
43		A1339040A	Grey	Covebase	None Detected
		A1339040B	Tan	Mastic	None Detected
44		A1339041	Grey	Mastic	None Detected
45		A1339042	Grey	Mastic	None Detected
46		A1339043	Grey	Mastic	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Environmental Testing & Management, Inc.
 P.O. Box 896
 Mauldin, SC 29662

CEI Lab Code: A12-7907
Date Received: 08-31-12
Date Analyzed: 09-05-12
Date Reported: 09-06-12

Project: Greenville County - Family Courthouse: pre-1981

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
1 A1338998	Ceiling Tile	Heterogeneous	40%	Cellulose	30%	Perlite	None Detected
		Grey Fibrous Bound	25%	Fiberglass	5%	Paint	
2 A1338999	Ceiling Tile	Heterogeneous	40%	Cellulose	30%	Perlite	None Detected
		Grey Fibrous Bound	25%	Fiberglass	5%	Paint	
3 A1339000	Ceiling Tile	Heterogeneous	40%	Cellulose	30%	Perlite	None Detected
		Grey Fibrous Bound	25%	Fiberglass	5%	Paint	
4 Layer 1 A1339001	Sheetrock	Heterogeneous	15%	Cellulose	65%	Gypsum	None Detected
		White Fibrous Tightly Bound			20%	Binder	
Layer 2 A1339001	Joint Compound	Heterogeneous			50%	Calc Carb	None Detected
		White Non-fibrous Bound			50%	Binder	
5 Layer 1 A1339002	Sheetrock	Heterogeneous	15%	Cellulose	65%	Gypsum	None Detected
		White Fibrous Tightly Bound			20%	Binder	
Layer 2 A1339002	Joint Compound	Heterogeneous			50%	Calc Carb	None Detected
		White Non-fibrous Bound			50%	Binder	
6 Layer 1 A1339003	Sheetrock	Heterogeneous	15%	Cellulose	65%	Gypsum	None Detected
		White Fibrous Tightly Bound			20%	Binder	



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Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
Layer 2 A1339003	Joint Compound	Heterogeneous White Non-fibrous Bound	50%	Calc Carb Binder	None Detected
7 A1339004A	Floor Tile	Heterogeneous Off-white Non-fibrous Bound	100%	Vinyl	None Detected
A1339004B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
8 A1339005A	Floor Tile	Heterogeneous Off-white Non-fibrous Bound	100%	Vinyl	None Detected
A1339005B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
9 A1339006A	Floor Tile	Heterogeneous Off-white Non-fibrous Bound	100%	Vinyl	None Detected
A1339006B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
10 A1339007A	Covebase	Heterogeneous Grey Non-fibrous Bound	100%	Vinyl	None Detected



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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
A1339007B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic		None Detected	
11 A1339008A	Covebase	Heterogeneous Grey Non-fibrous Bound	100%	Vinyl		None Detected	
A1339008B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic		None Detected	
12 A1339009A	Covebase	Heterogeneous Grey Non-fibrous Bound	100%	Vinyl		None Detected	
A1339009B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic		None Detected	
13 A1339010	Ceiling Tile	Heterogeneous Grey Fibrous Bound	40% 25%	Cellulose Fiberglass	30% 5%	Perlite Paint	None Detected
14 A1339011	Ceiling Tile	Heterogeneous Grey Fibrous Bound	40% 25%	Cellulose Fiberglass	30% 5%	Perlite Paint	None Detected
15 A1339012	Ceiling Tile	Heterogeneous Grey Fibrous Bound	40% 25%	Cellulose Fiberglass	30% 5%	Perlite Paint	None Detected



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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
16 Layer 1 A1339013	Sheetrock	Heterogeneous White Fibrous Tightly Bound	15%	Cellulose	65% Gypsum 20% Binder	None Detected
Layer 2 A1339013	Joint Compound	Heterogeneous White Non-fibrous Bound			50% Calc Carb 50% Binder	None Detected
17 Layer 1 A1339014	Sheetrock	Heterogeneous White Fibrous Tightly Bound	15%	Cellulose	65% Gypsum 20% Binder	None Detected
Layer 2 A1339014	Joint Compound	Heterogeneous White Non-fibrous Bound			50% Calc Carb 50% Binder	None Detected
18 A1339015	Mastic	Heterogeneous White Non-fibrous Bound			100% Mastic	None Detected
19 A1339016	Mastic	Heterogeneous White Non-fibrous Bound			100% Mastic	None Detected
20 A1339017	Mastic	Heterogeneous White Non-fibrous Bound			100% Mastic	None Detected
21 A1339018	Mastic	Heterogeneous Tan Non-fibrous Bound			100% Mastic	None Detected



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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
22 A1339019	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic		None Detected	
23 A1339020	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic		None Detected	
24 A1339021	Ceiling Tile	Heterogeneous Grey Fibrous Bound	40% 25%	Cellulose Fiberglass	30% 5%	Perlite Paint	None Detected
25 A1339022	Ceiling Tile	Heterogeneous Grey Fibrous Bound	40% 25%	Cellulose Fiberglass	30% 5%	Perlite Paint	None Detected
26 A1339023	Ceiling Tile	Heterogeneous Grey Fibrous Bound	40% 25%	Cellulose Fiberglass	30% 5%	Perlite Paint	None Detected
27 Layer 1 A1339024	Sheetrock	Heterogeneous White Fibrous Tightly Bound	15%	Cellulose	65% 20%	Gypsum Binder	None Detected
Layer 2 A1339024	Joint Compound	Heterogeneous White Non-fibrous Bound			50% 50%	Calc Carb Binder	None Detected
28 Layer 1 A1339025	Sheetrock	Heterogeneous White Fibrous Tightly Bound	15%	Cellulose	65% 20%	Gypsum Binder	None Detected



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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
Layer 2 A1339025	Joint Compound	Heterogeneous White Non-fibrous Bound	50%	Calc Carb 50% Binder	None Detected
29 A1339026A	Covebase	Heterogeneous Grey Non-fibrous Bound	100%	Vinyl	None Detected
A1339026B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
30 A1339027A	Covebase	Heterogeneous Grey Non-fibrous Bound	100%	Vinyl	None Detected
A1339027B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
31 A1339028A	Covebase	Heterogeneous Grey Non-fibrous Bound	100%	Vinyl	None Detected
A1339028B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
32 A1339029	Covebase	Heterogeneous Grey Non-fibrous Bound	100%	Vinyl	None Detected



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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
33 A1339030	Covebase	Heterogeneous Grey Non-fibrous Bound	100%	Vinyl	None Detected
34 A1339031	Covebase	Heterogeneous Grey Non-fibrous Bound	100%	Vinyl	None Detected
35 A1339032A	Floor Tile	Heterogeneous Off-white Non-fibrous Bound	100%	Vinyl	None Detected
A1339032B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
36 A1339033A	Floor Tile	Heterogeneous Off-white Non-fibrous Bound	100%	Vinyl	None Detected
A1339033B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
37 A1339034A	Floor Tile	Heterogeneous Off-white Non-fibrous Bound	100%	Vinyl	None Detected
A1339034B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected



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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
38 A1339035	Floor Tile	Heterogeneous Blue Non-fibrous Bound	100%	Vinyl	None Detected
39 A1339036	Floor Tile	Heterogeneous Blue Non-fibrous Bound	100%	Vinyl	None Detected
40 A1339037	Floor Tile	Heterogeneous Blue Non-fibrous Bound	100%	Vinyl	None Detected
41 A1339038A	Covebase	Heterogeneous Grey Non-fibrous Bound	100%	Vinyl	None Detected
A1339038B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
42 A1339039A	Covebase	Heterogeneous Grey Non-fibrous Bound	100%	Vinyl	None Detected
A1339039B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
43 A1339040A	Covebase	Heterogeneous Grey Non-fibrous Bound	100%	Vinyl	None Detected



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			Fibrous	Non-Fibrous	
A1339040B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
44 A1339041	Mastic	Heterogeneous Grey Non-fibrous Bound	100%	Mastic	None Detected
45 A1339042	Mastic	Heterogeneous Grey Non-fibrous Bound	100%	Mastic	None Detected
46 A1339043	Mastic	Heterogeneous Grey Non-fibrous Bound	100%	Mastic	None Detected



LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

The detection limit for the method is <1% by visual estimation and 0.25% by 400 point counts or 0.1% by 1,000 point counts.

Due to the limitations of the EPA 600 Method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarizing light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation.

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ANALYST: _____

Madison M. Roberts

APPROVED BY: _____

Tianbao Bai, Ph.D.
Laboratory Director



NVLAP Lab Code 101768-0



ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Environmental Testing & Management, Inc.
 P.O. Box 896
 Mauldin, SC 29662

CEI Lab Code: T12-0595
Date Received: 09-06-12
Date Analyzed: 09-10-12
Date Reported: 09-10-12

Project: Greenville County - Family Courthouse: pre-1981

TEM BULK CHATFIELD

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
8 T02891	Floor Tile	0.4576	18.1	54.6	27.3	None Detected
8 T02892	Mastic	0.2903	64	6.8	29.2	None Detected
10 T02893	Covebase	0.4134	34.9	2.2	62.9	None Detected
10 T02894	Mastic	0.3353	39.6	57.8	2.6	None Detected
18 T02895	HVAC Mastic	0.1892	35	63.1	1.9	<1% Chrysotile
21 T02896	Carpet Mastic	0.3461	56.9	.5	42.6	None Detected
29 T02897	Covebase	0.2274	38.6	.6	60.8	None Detected
29 T02898	Mastic	0.2317	50.3	4.2	45.5	None Detected
32 T02899	Covebase	0.2741	39	2.9	58.1	None Detected
35 T02900	Floor Tile	0.2851	17	80.4	2.6	None Detected
T02901	Insufficient sample for analysis					
38 T02902	Floor Tile	0.287	16.1	78.6	5.3	None Detected
41 T02903	Covebase	0.2017	62.1	37.2	.7	None Detected



ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Environmental Testing & Management, Inc.
P.O. Box 896
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Date Received: 09-06-12
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Project: Greenville County - Family Courthouse: pre-1981

TEM BULK CHATFIELD

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
41 T02904	Mastic	0.2295	38.4	27.7	33.9	None Detected
44 T02905	Duct Mastic	0.1957	59.1	27.1	13.8	None Detected

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ANALYST: Kamila Reichert
Kamila Reichert

APPROVED BY: Tianbao Bai
Tianbao Bai, Ph.D.
Laboratory Director



ASBESTOS LABORATORY REPORT

Prepared for

Environmental Testing & Management, Inc.

PROJECT: Greenville County - Family Courthouse: addition

CEI LAB CODE: A12-7908

DATE ANALYZED: 09/05/12

DATE REPORTED: 09/06/12

TOTAL SAMPLES ANALYZED: 3

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Greenville County - Family Courthouse: CEI LAB CODE: A12-7908
addition

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
1		A1339044	Yellow	Carpet Mastic	None Detected
2		A1339045	Yellow	Carpet Mastic	None Detected
3		A1339046	Yellow	Carpet Mastic	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Environmental Testing & Management, Inc.
P.O. Box 896
Mauldin, SC 29662

CEI Lab Code: A12-7908
Date Received: 08-31-12
Date Analyzed: 09-05-12
Date Reported: 09-06-12

Project: Greenville County - Family Courthouse: addition

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
1 A1339044	Carpet Mastic	Heterogeneous Yellow Non-fibrous Bound	<1%	Synthetic Fiber 80%	Mastic 10% Calc Carb 10% Silicates	None Detected
2 A1339045	Carpet Mastic	Heterogeneous Yellow Non-fibrous Bound	<1%	Synthetic Fiber 80%	Mastic 10% Calc Carb 10% Silicates	None Detected
3 A1339046	Carpet Mastic	Heterogeneous Yellow Non-fibrous Bound	<1%	Synthetic Fiber 80%	Mastic 10% Calc Carb 10% Silicates	None Detected



LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
 Non-Trem = Non-Asbestiform Tremolite
 Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

The detection limit for the method is <1% by visual estimation and 0.25% by 400 point counts or 0.1% by 1,000 point counts.

Due to the limitations of the EPA 600 Method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarizing light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation.

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ANALYST: _____

A handwritten signature in cursive script, appearing to read "Susannah Small".

Susannah Small

APPROVED BY: _____

A handwritten signature in cursive script, appearing to read "Tianbao Bai".

Tianbao Bai, Ph.D.
Laboratory Director





ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Environmental Testing & Management, Inc.
P.O. Box 896
Mauldin, SC 29662

CEI Lab Code: T12-0606
Date Received: 09-10-12
Date Analyzed: 09-12-12
Date Reported: 09-12-12

Project: Greenville County - Family Courthouse: addition

TEM BULK CHATFIELD

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
1 T02955	Carpet Mastic	0.3417	52.8	16.1	31.1	None Detected

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ANALYST: Kamila Reichert
Kamila Reichert

APPROVED BY: Tianbao Bai
Tianbao Bai, Ph.D.
Laboratory Director