

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018

Phone/Fax: (212) 290-0051 / (212) 290-0058

<http://www.EMSL.com>manhattanlab@emsl.com

EMSL Order:	031338641
CustomerID:	ATC62
CustomerPO:	11-81-0030
ProjectID:	

Attn: **Brian Williams**
Cardno ATC
73 William Franks Drive
West Springfield, MA 01089

Phone: (413) 781-0070
 Fax: (413) 781-3734
 Received: 10/02/13 10:29 AM
 Analysis Date: 10/6/2013
 Collected: 9/30/2013

Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-01A <i>031338641-0001</i>	ROOM 3L - PLASTER SKIM	Tan Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (other)	None Detected
495C-01B <i>031338641-0002</i>	ROOM 3D WEST WALL - PLASTER SKIM	Gray Non-Fibrous Homogeneous	3% Cellulose	7% Ca Carbonate 90% Non-fibrous (other)	None Detected
495C-01C <i>031338641-0003</i>	ROOM 3H - PLASTER SKIM	Yellow Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (other)	None Detected
495C-01D <i>031338641-0004</i>	NORTH WEST STAIRWELL - PLASTER SKIM	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (other)	None Detected
495C-01E <i>031338641-0005</i>	SOUTH WEST CORNER OF CAFETERIA - PLASTER SKIM	Gray Non-Fibrous Homogeneous		66% Ca Carbonate 34% Non-fibrous (other)	None Detected
495C-01F <i>031338641-0006</i>	HALL NORTH OF GYM 2 - PLASTER SKIM	Gray Non-Fibrous Homogeneous		57% Ca Carbonate 43% Non-fibrous (other)	None Detected
495C-01G <i>031338641-0007</i>	GYM 2 - PLASTER SKIM	Gray Non-Fibrous Homogeneous		61% Ca Carbonate 39% Non-fibrous (other)	None Detected
495C-02A <i>031338641-0008</i>	ROOM 3L - PLASTER BASE	Gray Non-Fibrous Homogeneous		55% Quartz 45% Non-fibrous (other)	None Detected

Analyst(s)

Henry Akitunde (13)

Jon Williams (103)

Madisen Nnaoji (14)

Jessica Fearon-Brown (69)

Keri-Dean Scarlett (37)

James Hall, Laboratory Manager
or other approved signatory

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Report Amended: 10/10/2013 13:13:00 Replaces the Initial Report 10/06/2013 20:39:32. Reason Code: Data Entry-Change to Appearance

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			% Fibrous	% Non-Fibrous	% Type
495C-02B <i>031338641-0009</i>	ROOM 3D EAST WALL - PLASTER BASE	Gray Non-Fibrous Homogeneous		62% Quartz 38% Non-fibrous (other)	None Detected
495C-02C <i>031338641-0010</i>	ROOM 3H - PLASTER BASE	Gray Non-Fibrous Homogeneous		53% Quartz 20% Ca Carbonate 27% Non-fibrous (other)	None Detected
495C-02D <i>031338641-0011</i>	NORTH WEST STAIRWELL - PLASTER BASE	Gray Non-Fibrous Homogeneous		52% Quartz 20% Ca Carbonate 28% Non-fibrous (other)	None Detected
495C-02E <i>031338641-0012</i>	SOUTH WEST CORNER OF CAFETERIA - PLASTER BASE	Gray Non-Fibrous Homogeneous	2% Glass	70% Quartz 10% Ca Carbonate 18% Non-fibrous (other)	None Detected
495C-02F <i>031338641-0013</i>	HALL NORTH OF GYM 2 - PLASTER BASE	Brown Non-Fibrous Homogeneous		55% Quartz 33% Ca Carbonate 12% Non-fibrous (other)	None Detected
495C-02G <i>031338641-0014</i>	GYM 2 - PLASTER BASE	Brown Non-Fibrous Homogeneous		70% Quartz 16% Ca Carbonate 14% Non-fibrous (other)	None Detected
495C-03A <i>031338641-0015</i>	SOUTH STAIRS WEST - WALL COVERING				Insufficient Material

Sample bag was empty

Analyst(s)

*Henry Akintunde (13)**Jon Williams (103)**Madisen Nnaoji (14)**Jessica Fearon-Brown (69)**Keri-Dean Scarlett (37)*


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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-03B <i>031338641-0016</i>	3RD FLOOR WEST WALL - WALL COVERING	Tan Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
495C-03C <i>031338641-0017</i>	2ND NORTH HALL - WALL COVERING		Insufficient Material		
Sample bag was empty					
495C-03D <i>031338641-0018</i>	2ND FLOOR CORRIDOR B - WALL COVERING	Tan Non-Fibrous Homogeneous		45% Gypsum 14% Ca Carbonate 41% Non-fibrous (other)	None Detected
495C-04A <i>031338641-0019</i>	3RD FLOOR SOUTH WEST WALL HALL - TERRAZZO FLOOR	Gray Non-Fibrous Homogeneous		65% Ca Carbonate 35% Non-fibrous (other)	None Detected
495C-04B <i>031338641-0020</i>	3RD FLOOR WEST HALL - TERRAZZO FLOOR	Gray/White Non-Fibrous Homogeneous		44% Quartz 25% Ca Carbonate 31% Non-fibrous (other)	None Detected
495C-05A <i>031338641-0021</i>	2ND FLOOR SOUTH WEST HALL - WINDOW GLAZING ON HALL SECURITY DOORS	Tan Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-05B 031338641-0022	2ND FLOOR NORTH HALL - WINDOW GLAZING ON HALL SECURITY DOORS	Tan Non-Fibrous Homogeneous		76% Ca Carbonate 24% Non-fibrous (other)	None Detected
495C-06A 031338641-0023	3RD FLOOR NORTH HALL - WHITE BACKER MATERIAL BEHIND 6" CERAMIC COVEBASE	White Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
495C-06B 031338641-0024	3RD FLOOR WEST HALL - WHITE BACKER MATERIAL BEHIND 6" CERAMIC COVEBASE	White Non-Fibrous Homogeneous		63% Ca Carbonate 37% Non-fibrous (other)	None Detected
495C-07A 031338641-0025	3RD FLOOR EAST HALL - BLACK PAINT ON BRICK PERIMETER BRICK WALLS	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-07B 031338641-0026	3RD FLOOR ROOM 3H - BLACK PAINT ON BRICK PERIMETER BRICK WALLS	Black Non-Fibrous Homogeneous		3% Quartz 97% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-07C <i>031338641-0027</i>	3RD FLOOR ROOM 3K - BLACK PAINT ON BRICK PERIMETER BRICK WALLS	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-07D <i>031338641-0028</i>	2 GYM - BLACK PAINT ON BRICK PERIMETER BRICK WALLS	Black Non-Fibrous Homogeneous		11% Quartz 89% Non-fibrous (other)	None Detected
495C-08A <i>031338641-0029</i>	3RD FLOOR NORTH HALL SHOWCASE - FIBERBOARD	Brown/Blue Fibrous Homogeneous	6% Glass	94% Non-fibrous (other)	None Detected
495C-08B <i>031338641-0030</i>	3RD FLOOR NORTH HALL SHOWCASE - FIBERBOARD	Brown Fibrous Homogeneous	10% Cellulose 15% Glass	75% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-09A <i>031338641-0031</i>	3RD FLOOR NORTH HALL SHOWCASE - MASTIC BEHIND FIBERBOARD	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-09B <i>031338641-0032</i>	3RD FLOOR NORTH HALL SHOWCASE - MASTIC BEHIND FIBERBOARD	Gray/White Non-Fibrous Homogeneous		22% Quartz 10% Ca Carbonate 68% Non-fibrous (other)	None Detected

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			% Fibrous	% Non-Fibrous	% Type
495C-10A <i>031338641-0033</i>	3RD FLOOR NORTH WEST HALL - YELLOW CARPET MASTIC	Yellow Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected
495C-10B <i>031338641-0034</i>	3RD FLOOR NORTH WEST HALL - YELLOW CARPET MASTIC	Yellow Non-Fibrous Homogeneous	7% Cellulose 2% Synthetic	16% Ca Carbonate 75% Non-fibrous (other)	None Detected
495C-11A <i>031338641-0035</i>	3RD FLOOR NORTH WEST HALL - SAND MATERIAL BEHIND PLASTER WALL	Brown Non-Fibrous Homogeneous		43% Quartz 6% Ca Carbonate 51% Non-fibrous (other)	None Detected
495C-11B <i>031338641-0036</i>	3RD FLOOR NORTH WEST HALL - SAND MATERIAL BEHIND PLASTER WALL	Gray Non-Fibrous Homogeneous		45% Quartz 15% Gypsum 40% Non-fibrous (other)	None Detected
495C-12A <i>031338641-0037</i>	3RD FLOOR NORTH WEST HALL - GLAZING ON HALL SECURITY DOORS AND WINDOW	Gray Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile

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495C-12B 031338641-0038	3RD FLOOR NORTH WEST HALL - GLAZING ON HALL SECURITY DOORS AND WINDOW					Stop Positive (Not Analyzed)
495C-13A 031338641-0039	3RD FLOOR NORTH WEST HALL - BACKER BOARD BEHIND DOOR PANELS	Brown/Gray Fibrous Homogeneous	20%	Cellulose	61% Gypsum 19% Non-fibrous (other)	None Detected
495C-13B 031338641-0040	3RD FLOOR NORTH WEST HALL - BACKER BOARD BEHIND DOOR PANELS	Brown/Gray Fibrous Homogeneous	15% 4%	Cellulose Glass	65% Gypsum 16% Non-fibrous (other)	None Detected
495C-14A 031338641-0041	ROOM 3D - CHALKBOARDS	Brown Fibrous Homogeneous	80%	Cellulose	20% Non-fibrous (other)	None Detected
495C-14B 031338641-0042	ROOM 3P - CHALKBOARDS	Brown/Green Fibrous Homogeneous	90%	Cellulose	10% Non-fibrous (other)	None Detected
495C-15A 031338641-0043	3RD FLOOR ROOM 1 - SHEETROCK	Brown/Gray Fibrous Homogeneous	6%	Cellulose	60% Gypsum 34% Non-fibrous (other)	None Detected
495C-15B 031338641-0044	3RD FLOOR ROOM 3E - SHEETROCK	Brown/Gray Fibrous Homogeneous	6%	Cellulose	55% Gypsum 39% Non-fibrous (other)	None Detected

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495C-15D <i>031338641-0046</i>	KITCHEN - SHEETROCK	Brown/Gray Fibrous Homogeneous	5% Cellulose	65% Gypsum 30% Non-fibrous (other)	None Detected
495C-16A <i>031338641-0047</i>	3RD FLOOR ROOM 1 - JOINT COMPOUND	Tan Fibrous Homogeneous	12% Glass	4% Mica 62% Ca Carbonate 22% Non-fibrous (other)	None Detected
495C-16B <i>031338641-0048</i>	3RD FLOOR ROOM 3E - JOINT COMPOUND	Tan/White Fibrous Homogeneous	10% Glass	4% Mica 62% Ca Carbonate 24% Non-fibrous (other)	None Detected
495C-16C <i>031338641-0049</i>	2ND FLOOR ROOM 2C - JOINT COMPOUND	Tan/White Fibrous Homogeneous	7% Glass	4% Mica 55% Ca Carbonate 34% Non-fibrous (other)	None Detected
495C-16D <i>031338641-0050</i>	KITCHEN - JOINT COMPOUND	Tan/White Non-Fibrous Homogeneous		6% Mica 55% Ca Carbonate 39% Non-fibrous (other)	None Detected
495C-17A <i>031338641-0051</i>	3RD FLOOR ROOM 1 - BACK UNDER CERAMIC WINDOW SILL	Gray Non-Fibrous Homogeneous		63% Gypsum 37% Non-fibrous (other)	None Detected

Analyst(s) _____

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Jon Williams (103)

Madisen Nnaoji (14)

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Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos			Asbestos	
			%	Fibrous	%	Non-Fibrous	%
495C-17B <i>031338641-0052</i>	3RD FLOOR ROOM 3J - BACK UNDER CERAMIC WINDOW SILL	Gray Fibrous Homogeneous	3%	Glass	65%	Gypsum	None Detected
495C-18A <i>031338641-0053</i>	3RD FLOOR ROOM 1 - CERAMIC WINDOW SILL	Gray Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	None Detected
495C-18B <i>031338641-0054</i>	3RD FLOOR ROOM 3A - CERAMIC WINDOW SILL	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	None Detected
495C-19A <i>031338641-0055</i>	3RD FLOOR ROOM 3A - 2X4 FISSURE CEILING TILE	Tan Fibrous Homogeneous	30%	Cellulose	30%	Non-fibrous (other)	None Detected
495C-19B <i>031338641-0056</i>	KITCHEN - 2X4 FISSURE CEILING TILE	Gray/Tan/Pink Fibrous Homogeneous	20%	Cellulose	15%	Perlite	None Detected
495C-20A <i>031338641-0057</i>	3RD FLOOR ROOM 3A - MASTIC BEHIND COUNTERTOP COVEBASE	Gray Non-Fibrous Homogeneous			45%	Min. Wool	None Detected
			<1%	Fibrous (other)	20%	Non-fibrous (other)	None Detected
					100%	Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-20B <i>031338641-0058</i>	3RD FLOOR ROOM 3A - MASTIC BEHIND COUNTERTOP COVEBASE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-21A <i>031338641-0059</i>	3RD FLOOR ROOM 3A - GRAY GROUT COUNTERTOP COVEBASE	Gray Non-Fibrous Homogeneous	3% Cellulose	65% Ca Carbonate 32% Non-fibrous (other)	None Detected
495C-21B <i>031338641-0060</i>	3RD FLOOR ROOM 3A - GRAY GROUT BEHIND COUNTEROP BACKERBOARD	Gray Non-Fibrous Homogeneous		15% Quartz 25% Ca Carbonate 60% Non-fibrous (other)	None Detected
495C-22A <i>031338641-0061</i>	3RD FLOOR ROOM 3A - SINK UNDERCOAT	Tan Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
495C-22B <i>031338641-0062</i>	3RD FLOOR ROOM 3A - SINK UNDERCOAT				Stop Positive (Not Analyzed)
495C-23A <i>031338641-0063</i>	3RD FLOOR ROOM 3A - BOTTOM FLOOR PAPER	Gray Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected
495C-23B <i>031338641-0064</i>	3RD FLOOR ROOM 3A - BOTTOM FLOOR PAPER	Gray Fibrous Homogeneous	20% Synthetic 45% Cellulose	35% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-24A <i>031338641-0065</i>	3RD FLOOR ROOM 3A - BLACK FLOORING WITH WEB BACKER	Brown/Yellow Fibrous Homogeneous	15%	Synthetic	85% Non-fibrous (other) None Detected
495C-24B <i>031338641-0066</i>	3RD FLOOR ROOM 3B - BLACK FLOORING WITH WEB BACKER	Gray Fibrous Homogeneous	20%	Synthetic	80% Non-fibrous (other) None Detected
495C-25A <i>031338641-0067</i>	3RD FLOOR ROOM 3A - GRAY FELT PAPER UNDER FLOORING	Gray Fibrous Homogeneous	60% 9%	Cellulose Synthetic	31% Non-fibrous (other) None Detected
495C-25B <i>031338641-0068</i>	3RD FLOOR ROOM 3B - GRAY FELT PAPER UNDER FLOORING	Black Fibrous Homogeneous	70% 20%	Cellulose Synthetic	10% Non-fibrous (other) None Detected
495C-26A <i>031338641-0069</i>	3RD FLOOR ROOM 3B - 1X1 BROWN W/ DARK STREAK FLOOR TILE	Brown Non-Fibrous Homogeneous	TEM recommended		20% Ca Carbonate 80% Non-fibrous (other) None Detected
495C-26B <i>031338641-0070</i>	3RD FLOOR ROOM 3C - 1X1 BROWN W/ DARK STREAK FLOOR TILE	Tan Non-Fibrous Homogeneous			35% Ca Carbonate 65% Non-fibrous (other) None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-27A 031338641-0071	3RD FLOOR ROOM 3B - MASTIC 1X1 BROWN W/ DARK STREAKS FLOOR TILE	Black Non-Fibrous Homogeneous	6% Cellulose	94% Non-fibrous (other)	None Detected
495C-27B 031338641-0072	3RD FLOOR ROOM 3C - MASTIC 1X1 BROWN W/ DARK STREAKS FLOOR TILE	Black Non-Fibrous Heterogeneous		80% Matrix 20% Non-fibrous (other)	None Detected
495C-28A 031338641-0073	3RD FLOOR ROOM 3B - 1X1 TAN W/ WHITE AND BROWN STREAKS FLOOR TILE	Gray/Beige Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (other)	None Detected
TEM recommended					
495C-28B 031338641-0074	3RD FLOOR ROOM 3B - 1X1 TAN W/ WHITE AND BROWN STREAKS FLOOR TILE	Gray/Tan Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
TEM recommended					
495C-28C 031338641-0075	2ND FLOOR 2C - 1X1 TAN W/ WHITE AND BROWN STREAKS FLOOR TILE	Gray Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-29A <i>031338641-0076</i>	3RD FLOOR ROOM 3B - MASTIC 1X1 TAN W/ WHITE AND BROWN STREAKS FLOOR TILE	Brown/Black Non-Fibrous Heterogeneous	4% Cellulose	96% Non-fibrous (other)	None Detected
495C-29B <i>031338641-0077</i>	3RD FLOOR ROOM 3B - MASTIC 1X1 TAN W/ WHITE AND BROWN STREAKS FLOOR TILE	Brown/Black Non-Fibrous Heterogeneous	3% Cellulose	8% Ca Carbonate 89% Non-fibrous (other)	None Detected
495C-29C <i>031338641-0078</i>	2ND FLOOR 2C - MASTIC 1X1 TAN W/ WHITE AND BROWN STREAKS FLOOR TILE	Yellow Non-Fibrous Heterogeneous		5% Quartz 65% Matrix 30% Non-fibrous (other)	None Detected
495C-30A <i>031338641-0079</i>	3RD FLOOR ROOM 3B - 1X1 WHITE S.A. FLOOR TILE	Tan/White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
495C-30B <i>031338641-0080</i>	3RD FLOOR ROOM 3B - 1X1 WHITE S.A. FLOOR TILE	Tan Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-31A <i>031338641-0081</i>	3RD FLOOR ROOM 3B - MASTIC 1X1 WHITE S.A. FLOOR TILE	Black Non-Fibrous Homogeneous	12% Cellulose	88% Non-fibrous (other)	None Detected
495C-31B <i>031338641-0082</i>	3RD FLOOR ROOM 3B - MASTIC 1X1 WHITE S.A. FLOOR TILE	Black Non-Fibrous Homogeneous	6% Cellulose	10% Quartz 84% Non-fibrous (other)	None Detected
495C-32A <i>031338641-0083</i>	3RD FLOOR ROOM 3A - WHITE FLOOR PAPER UNDER FELT	Gray/White Fibrous Homogeneous	15% Cellulose	5% Non-fibrous (other)	80% Chrysotile
495C-32B <i>031338641-0084</i>	3RD FLOOR ROOM 3B - WHITE FLOOR PAPER UNDER FELT				Stop Positive (Not Analyzed)
495C-33A <i>031338641-0085</i>	3RD FLOOR ROOM 3B - WIRE COATING	Brown/Black Fibrous Heterogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
495C-33B <i>031338641-0086</i>	3RD FLOOR ROOM 3B - WIRE COATING	Gray/Black Non-Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-34A <i>031338641-0087</i>	3RD FLOOR ROOM 3D - 2X2 SECURITY WINDOW GLAZING	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-34B <i>031338641-0088</i>	3RD FLOOR ROOM 3E - 2X2 SECURITY WINDOW GLAZING	Black Non-Fibrous Heterogeneous		30% Ca Carbonate 70% Non-fibrous (other)	None Detected
495C-35A <i>031338641-0089</i>	3RD FLOOR ROOM 3E - 9X9 WHITE W/ GREEN STRIPES FLOOR TILE	White/Green Non-Fibrous Homogeneous		10% Ca Carbonate 88% Non-fibrous (other)	2% Chrysotile
495C-35B <i>031338641-0090</i>	3RD FLOOR ROOM 3F - 9X9 WHITE W/ GREEN STRIPES FLOOR TILE				Stop Positive (Not Analyzed)
495C-35C <i>031338641-0091</i>	2ND FLOOR ROOM 2D - 9X9 WHITE W/ GREEN STRIPES FLOOR TILE				Stop Positive (Not Analyzed)

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Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-36A <i>031338641-0092</i>	3RD FLOOR ROOM 3E - MASTIC 9X9 WHITE W/ GREEN STRIPES FLOOR TILE	Black Non-Fibrous Homogeneous		96% Non-fibrous (other)	4% Chrysotile
495C-36B <i>031338641-0093</i>	3RD FLOOR ROOM 3F - MASTIC 9X9 WHITE W/ GREEN STRIPES FLOOR TILE				Stop Positive (Not Analyzed)
495C-36C <i>031338641-0094</i>	2ND FLOOR ROOM 2D - MASTIC 9X9 WHITE W/ GREEN STRIPES FLOOR TILE				Stop Positive (Not Analyzed)
495C-37A <i>031338641-0095</i>	3RD FLOOR ROOM 3F - 4" BROWN COVEBASE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-37B <i>031338641-0096</i>	2ND FLOOR ROOM 2D-B - 4" BROWN COVEBASE	Brown Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (other)	None Detected

Analyst(s)

Henry Akitunde (13)

Jon Williams (103)

Madisen Nnaoji (14)

Jessica Fearon-Brown (69)

Keri-Dean Scarlett (37)

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Project: 081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-38A <i>031338641-0097</i>	3RD FLOOR ROOM 3F - MASTIC 4" BROWN COVEBASE	Tan/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-38B <i>031338641-0098</i>	2ND FLOOR ROOM 2D-B - MASTIC 4" BROWN COVEBASE	Tan Non-Fibrous Homogeneous		60% Matrix 40% Non-fibrous (other)	None Detected
495C-39A <i>031338641-0099</i>	3RD FLOOR ROOM 3F - AIR VENT GASKET	Brown/Black Fibrous Homogeneous	82% Synthetic	18% Non-fibrous (other)	None Detected
495C-39B <i>031338641-0100</i>	3RD FLOOR ROOM 3G - AIR VENT GASKET	Black Fibrous Homogeneous	90% Synthetic	10% Non-fibrous (other)	None Detected
495C-40A <i>031338641-0101</i>	3RD FLOOR ROOM 3C - GASKET ON INTERIOR WALL DAMPER	Brown/Black Fibrous Homogeneous	10% Cellulose 83% Synthetic	7% Non-fibrous (other)	None Detected
495C-40B <i>031338641-0102</i>	3RD FLOOR ROOM 3G - GASKET ON INTERIOR WALL DAMPER	Black Fibrous Homogeneous	90% Synthetic	10% Non-fibrous (other)	None Detected
495C-41A <i>031338641-0103</i>	3RD FLOOR ROOM 3F - FIBERBOARD CLOSET CEILING	Brown/Tan Fibrous Heterogeneous	92% Cellulose	8% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-41B <i>031338641-0104</i>	3RD FLOOR ROOM 3G - FIBERBOARD CLOSET CEILING	Brown/Tan Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
495C-41C <i>031338641-0105</i>	2ND FLOOR ROOM 2D - FIBERBOARD CLOSET CEILING	Brown/Red Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
495C-42A <i>031338641-0106</i>	3RD FLOOR ROOM 3K - WIRING ON HEAT REGISTER	Brown/Black Fibrous Heterogeneous	30% Cellulose	58% Non-fibrous (other)	12% Chrysotile
Inseparable wire bundles composited					
495C-42B <i>031338641-0107</i>	3RD FLOOR ROOM 3K - WIRING ON HEAT REGISTER				Stop Positive (Not Analyzed)
495C-43A <i>031338641-0108</i>	3RD FLOOR GIRLS ROOM - SMOOTH TEXTURE COAT	White/Cream Non-Fibrous Heterogeneous		55% Ca Carbonate 45% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-43B <i>031338641-0109</i>	3RD FLOOR GIRLS ROOM - SMOOTH TEXTURE COAT	White/Cream Non-Fibrous Heterogeneous		50% Ca Carbonate 50% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-43C <i>031338641-0110</i>	3RD FLOOR GIRLS ROOM - SMOOTH TEXTURE COAT	Gray/White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (other)	None Detected
495C-44A <i>031338641-0111</i>	3RD FLOOR GIRLS ROOM - FLEX CONNECTOR	Tan/Black Fibrous Heterogeneous	35% Synthetic	65% Non-fibrous (other)	None Detected
495C-44B <i>031338641-0112</i>	3RD FLOOR GIRLS ROOM - FLEX CONNECTOR	Black Non-Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (other)	None Detected
495C-45A-Skim Coat <i>031338641-0113</i>	3RD FLOOR GIRLS ROOM - 6X6 SKIM COAT ON WALL	Tan/White Non-Fibrous Heterogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-45A-Rough Coat <i>031338641-0113A</i>	3RD FLOOR GIRLS ROOM - 6X6 SKIM COAT ON WALL	Brown Non-Fibrous Homogeneous	3% Hair	56% Quartz 2% Mica 39% Non-fibrous (other)	None Detected
495C-45B-Skim Coat <i>031338641-0114</i>	3RD FLOOR GIRLS ROOM - 6X6 SKIM COAT ON WALL	Tan/White Non-Fibrous Heterogeneous		55% Ca Carbonate 45% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-45B-Rough Coat <i>031338641-0114A</i>	3RD FLOOR GIRLS ROOM - 6X6 SKIM COAT ON WALL	Brown Non-Fibrous Homogeneous	3% Hair	58% Quartz 2% Mica 37% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-45C-Skim Coat <i>031338641-0115</i>	3RD FLOOR GIRLS ROOM - 6X6 SKIM COAT ON WALL	White Non-Fibrous Heterogeneous		45% Ca Carbonate 55% Non-fibrous (other)	None Detected
495C-45C-Rough Coat <i>031338641-0115A</i>	3RD FLOOR GIRLS ROOM - 6X6 SKIM COAT ON WALL	Tan Non-Fibrous Homogeneous		58% Quartz 25% Gypsum 17% Non-fibrous (other)	None Detected
495C-46A <i>031338641-0116</i>	3RD FLOOR GIRLS ROOM - 4" WHITE WALL TILE GROUT	White Non-Fibrous Homogeneous		70% Ca Carbonate 30% Non-fibrous (other)	None Detected
495C-46B <i>031338641-0117</i>	3RD FLOOR GIRLS ROOM - 4" WHITE WALL TILE GROUT	White Non-Fibrous Heterogeneous		55% Ca Carbonate 45% Non-fibrous (other)	None Detected
495C-47A <i>031338641-0118</i>	3RD FLOOR GIRLS ROOM - 4" WHITE WALL TILE MASTIC	Gray/Tan/Green Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-47B <i>031338641-0119</i>	3RD FLOOR GIRLS ROOM - 4" WHITE WALL TILE MASTIC	White Non-Fibrous Heterogeneous		40% Gypsum 60% Non-fibrous (other)	None Detected
495C-48A <i>031338641-0120</i>	3RD FLOOR GIRLS ROOM - GROUT ON INLAID MARBLE FLOOR	Brown Non-Fibrous Homogeneous	4% Cellulose	55% Quartz 15% Ca Carbonate 26% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-48B <i>031338641-0121</i>	3RD FLOOR GIRLS ROOM - GROUT ON INLAID MARBLE FLOOR	Gray/Tan Non-Fibrous Homogeneous		45% Quartz 15% Ca Carbonate 40% Non-fibrous (other)	None Detected
495C-49A <i>031338641-0122</i>	3RD FLOOR GIRLS ROOM - CAULKING ON 4X4 WHITE WALL TILE	White/Green Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-49B <i>031338641-0123</i>	3RD FLOOR GIRLS ROOM - CAULKING ON 4X4 WHITE WALL TILE	White Non-Fibrous Heterogeneous		30% Ca Carbonate 70% Non-fibrous (other)	None Detected
495C-50A <i>031338641-0124</i>	ATTIC - ATTIC DEBRIS FLOOR PAPER	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
495C-50B <i>031338641-0125</i>	ATTIC - ATTIC DEBRIS FLOOR PAPER	Black Fibrous Homogeneous	70% Cellulose	15% Ca Carbonate 15% Non-fibrous (other)	None Detected
495C-51A <i>031338641-0126</i>	3RD FLOOR CORRIDOR D - RADIATOR COVER	Black Fibrous Homogeneous	95% Synthetic	5% Non-fibrous (other)	None Detected
495C-51B <i>031338641-0127</i>	3RD FLOOR CORRIDOR D - RADIATOR COVER	Black Non-Fibrous Homogeneous	90% Synthetic	10% Non-fibrous (other)	None Detected

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			% Fibrous	% Non-Fibrous	% Type
495C-52A 031338641-0128	3RD FLOOR CORRIDOR D - MASTIC UNDER RADIATOR COVER	Brown Non-Fibrous Homogeneous	15% Synthetic	85% Non-fibrous (other)	None Detected
495C-52B 031338641-0129	3RD FLOOR CORRIDOR D - MASTIC UNDER RADIATOR COVER	Brown Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (other)	None Detected
495C-53A 031338641-0130	3RD FLOOR 3P - 1X1 CORK BOARD FLOOR TILE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-53B 031338641-0131	3RD FLOOR 3P - 1X1 CORK BOARD FLOOR TILE	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
495C-55A 031338641-0132	2 GYM - BROWN PAPER UNDER FLOOR	Brown/Tan Fibrous Homogeneous	94% Cellulose	6% Non-fibrous (other)	None Detected
495C-55B 031338641-0133	2 GYM - BROWN PAPER UNDER FLOOR	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
495C-55C 031338641-0134	2 GYM - BROWN PAPER UNDER FLOOR	Brown/Tan Fibrous Homogeneous	80% Cellulose	17% Non-fibrous (other)	3% Chrysotile

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			% Fibrous	% Non-Fibrous	% Type
495C-56A <i>031338641-0135</i>	2 GYM - SILVER DOOR CAULK	Silver/Green Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
495C-56B <i>031338641-0136</i>	2 GYM - SILVER DOOR CAULK	Gray Non-Fibrous Heterogeneous		55% Matrix 45% Non-fibrous (other)	None Detected
495C-57A <i>031338641-0137</i>	2ND FLOOR STORAGE 1 - BROWN PAPER UNDER FLOOR 2	Brown/Tan Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
495C-57B <i>031338641-0138</i>	2ND FLOOR ROOM 2C - BROWN PAPER UNDER FLOOR 2	Brown/Tan Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (other)	None Detected
495C-57C <i>031338641-0139</i>	2ND FLOOR ROOM 2E - BROWN PAPER UNDER FLOOR 2	Tan/Black Fibrous Homogeneous	10% Glass 80% Cellulose	10% Non-fibrous (other)	None Detected
495C-58A <i>031338641-0140</i>	2ND FLOOR ROOM 2A - WHITE FLACKING CEILING PAINT	Tan/White Non-Fibrous Heterogeneous	<1% Fibrous (other)	40% Ca Carbonate 60% Non-fibrous (other)	None Detected
495C-58B <i>031338641-0141</i>	2ND FLOOR ROOM B - WHITE FLACKING CEILING PAINT	Cream Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected

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Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-59A 031338641-0142	2ND FLOOR ROOM B - FIREBRICK	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-59B 031338641-0143	BOILER ROOM - FIREBRICK	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-60A 031338641-0144	2ND FLOOR ROOM 2D - 1X1 BEIGE W/ BROWN STREAKS FLOOR TILE	Tan/White Non-Fibrous Homogeneous		15% Ca Carbonate 83% Non-fibrous (other)	2% Chrysotile
495C-60B 031338641-0145	2ND FLOOR ROOM 2D - 1X1 BEIGE W/ BROWN STREAKS FLOOR TILE				Stop Positive (Not Analyzed)
495C-61A 031338641-0146	2ND FLOOR ROOM 2D - MASTIC 1X1 BEIGE W/ BROWN STREAKS FLOOR TILE	Black Non-Fibrous Homogeneous	5% Cellulose	89% Non-fibrous (other)	6% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-61B 031338641-0147	2ND FLOOR ROOM 2D - MASTIC 1X1 BEIGE W/ BROWN STREAKS FLOOR TILE				Stop Positive (Not Analyzed)
495C-62A 031338641-0148	2ND FLOOR ROOM 2D-B - 1X1 BEIGE FLOOR TILE	Gray/Tan Non-Fibrous Homogeneous	3% Cellulose	15% Ca Carbonate 82% Non-fibrous (other)	None Detected
495C-62B 031338641-0149	2ND FLOOR ROOM 2D-B - 1X1 BEIGE FLOOR TILE	Gray Non-Fibrous Homogeneous		35% Ca Carbonate 65% Non-fibrous (other)	None Detected
495C-63A 031338641-0150	2ND FLOOR ROOM 2D-B - MASTIC UNDER 1X1 BEIGE FLOOR TILE	Black Non-Fibrous Homogeneous	6% Cellulose	94% Non-fibrous (other)	None Detected
495C-63B 031338641-0151	2ND FLOOR ROOM 2D-B - MASTIC UNDER 1X1 BEIGE FLOOR TILE	Black Non-Fibrous Homogeneous		65% Matrix 35% Non-fibrous (other)	None Detected
495C-64A 031338641-0152	2ND FLOOR ROOM 2D-B - 9X9 GRAY W/ BLACK STREAKS FLOOR TILE	Gray/Tan Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-64B <i>031338641-0153</i>	2ND FLOOR ROOM 2D-B - 9X9 GRAY W/ BLACK STREAKS FLOOR TILE	Gray Non-Fibrous Heterogeneous		40% Ca Carbonate 60% Non-fibrous (other)	None Detected
495C-65A <i>031338641-0154</i>	2ND FLOOR ROOM 2D-B - MASTIC 8X8 GRAY W/ BLACK STREAKS FLOOR TILE	Black Non-Fibrous Homogeneous	12% Cellulose	88% Non-fibrous (other)	None Detected
495C-65B <i>031338641-0155</i>	2ND FLOOR ROOM 2D-B - MASTIC 8X8 GRAY W/ BLACK STREAKS FLOOR TILE	Black Non-Fibrous Homogeneous	6% Cellulose	55% Matrix 39% Non-fibrous (other)	None Detected
495C-66A <i>031338641-0156</i>	2ND FLOOR ROOM 2E - 1X1 RUST MODEL FLOOR TILE	Rust Non-Fibrous Homogeneous		22% Ca Carbonate 78% Non-fibrous (other)	None Detected
495C-66B <i>031338641-0157</i>	2ND FLOOR ROOM 2E - 1X1 RUST MODEL FLOOR TILE	Red Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (other)	None Detected
495C-67A <i>031338641-0158</i>	2ND FLOOR ROOM 2E - MASTIC 1X1 RUST MODEL FLOOR TILE	Yellow Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-67B <i>031338641-0159</i>	2ND FLOOR ROOM 2E - MASTIC 1X1 RUST MODEL FLOOR TILE	Yellow Non-Fibrous Heterogeneous		70% Matrix 30% Non-fibrous (other)	None Detected
495C-68A <i>031338641-0160</i>	KITCHEN - GLUE DAUB ON PLASTER WALL	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-68B <i>031338641-0161</i>	KITCHEN - GLUE DAUB ON PLASTER WALL	Brown/Black Non-Fibrous Homogeneous		5% Mica 65% Matrix 30% Non-fibrous (other)	None Detected
495C-69A <i>031338641-0162</i>	KITCHEN - YELLOW MASTIC ON DUCT INSULATION	Brown/Yellow Fibrous Heterogeneous	15% Cellulose 30% Glass	55% Non-fibrous (other)	None Detected
495C-69B <i>031338641-0163</i>	KITCHEN - YELLOW MASTIC ON DUCT INSULATION	Silver/Yellow Fibrous Homogeneous	30% Glass 15% Cellulose	55% Non-fibrous (other)	None Detected
495C-70A <i>031338641-0164</i>	KITCHEN - 6X6 BROWN CERAMIC FLOOR TILE GROUT	Gray/Black Non-Fibrous Homogeneous		50% Quartz 50% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-70B <i>031338641-0165</i>	KITCHEN - 6X6 BROWN CERAMIC FLOOR TILE GROUT	Brown/Black Non-Fibrous Heterogeneous		45% Quartz 55% Non-fibrous (other)	None Detected
495C-71A <i>031338641-0166</i>	KITCHEN - 6X6 BROWN CERAMIC FLOOR TILE MASTIC	Red Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	None Detected
495C-71B <i>031338641-0167</i>	KITCHEN - 6X6 BROWN CERAMIC FLOOR TILE MASTIC	Red Non-Fibrous Heterogeneous		25% Quartz 75% Non-fibrous (other)	None Detected
495C-72A <i>031338641-0168</i>	KITCHEN - SKIM ON CONCRETE WALL	White/Yellow Non-Fibrous Heterogeneous		55% Ca Carbonate 45% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-72B <i>031338641-0169</i>	KITCHEN - SKIM ON CONCRETE WALL	White/Yellow Non-Fibrous Heterogeneous		50% Ca Carbonate 50% Non-fibrous (other)	None Detected
495C-72C-Skim Coat <i>031338641-0170</i>	KITCHEN - SKIM ON CONCRETE WALL	White Non-Fibrous Heterogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
495C-72C-Rough Coat <i>031338641-0170A</i>	KITCHEN - SKIM ON CONCRETE WALL	Gray Non-Fibrous Homogeneous		45% Quartz 25% Ca Carbonate 30% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos			Asbestos	
			%	Fibrous	%	Non-Fibrous	% Type
495C-73A <i>031338641-0171</i>	KITCHEN - PIPE FITTINGS	Gray Fibrous Homogeneous	3%	Cellulose	30%	Ca Carbonate	None Detected
495C-73B <i>031338641-0172</i>	BOILER ROOM - PIPE FITTINGS	Gray/Tan Fibrous Heterogeneous	20%	Cellulose	15%	Ca Carbonate	None Detected
495C-73C <i>031338641-0173</i>	CRAWLSPACE - PIPE FITTINGS	Gray Non-Fibrous Homogeneous	18%	Min. Wool	47%	Non-fibrous (other)	None Detected
495C-73C <i>031338641-0173</i>	CRAWLSPACE - PIPE FITTINGS	Gray Non-Fibrous Homogeneous	35%	Min. Wool	50%	Gypsum	None Detected
495C-74A <i>031338641-0174</i>	KITCHEN - SILVER COAT ON COLUMN	Gray/Tan/White Non-Fibrous Heterogeneous	15%	Non-fibrous (other)	15%	Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis							
495C-74B <i>031338641-0175</i>	KITCHEN - SILVER COAT ON COLUMN	Gray/Tan/White Non-Fibrous Heterogeneous	2%	Hair	50%	Quartz	None Detected
Inseparable paint / coating layer included in analysis							
495C-74B <i>031338641-0175</i>	KITCHEN - SILVER COAT ON COLUMN	Gray/Tan/White Non-Fibrous Heterogeneous	3%	Hair	45%	Quartz	None Detected
Inseparable paint / coating layer included in analysis							
495C-75A <i>031338641-0176</i>	KITCHEN LADIES LOCKER - 4" BLACK COVEBASE	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	None Detected
495C-75B <i>031338641-0177</i>	KITCHEN LADIES LOCKER - 4" BLACK COVEBASE	Black Non-Fibrous Homogeneous			25%	Ca Carbonate	None Detected
Inseparable paint / coating layer included in analysis							
495C-75B <i>031338641-0177</i>	KITCHEN LADIES LOCKER - 4" BLACK COVEBASE	Black Non-Fibrous Homogeneous			75%	Non-fibrous (other)	None Detected

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			% Fibrous	% Non-Fibrous	% Type
495C-76A <i>031338641-0178</i>	KITCHEN LADIES LOCKER - MASTIC 4" BLACK COVEBASE	Brown/Yellow Non-Fibrous Heterogeneous	4% Cellulose	96% Non-fibrous (other)	None Detected
495C-76B <i>031338641-0179</i>	KITCHEN LADIES LOCKER - MASTIC 4" BLACK COVEBASE	Tan Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (other)	None Detected
495C-77A <i>031338641-0180</i>	DOOR FREEZER - YELLOW MASTIC ON FREEZER	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-77B <i>031338641-0181</i>	DOOR FREEZER - YELLOW MASTIC ON FREEZER	Yellow Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (other)	None Detected
495C-78A <i>031338641-0182</i>	2ND FLOOR ROOM 2F - BROWN DUCT SEALANT	Gray/Tan Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-78B <i>031338641-0183</i>	2ND FLOOR ROOM 2F - BROWN DUCT SEALANT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s) _____

Henry Akitunde (13)

Jon Williams (103)

Madisen Nnaoji (14)

Jessica Fearon-Brown (69)

Keri-Dean Scarlett (37)

James Hall, Laboratory Manager
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Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-79A <i>031338641-0184</i>	2ND FLOOR ROOM STORAGE 2 - TRANSITE	Gray/Tan/Green Non-Fibrous Heterogeneous		45% Ca Carbonate 30% Non-fibrous (other)	25% Chrysotile
Inseparable paint / coating layer included in analysis					
495C-79B <i>031338641-0185</i>	2ND FLOOR ROOM STORAGE 2 - TRANSITE				Stop Positive (Not Analyzed)
495C-80A <i>031338641-0186</i>	1 GYM - RED PAPER UNDER 2 GYM	Tan/Pink Fibrous Homogeneous	97% Cellulose	3% Non-fibrous (other)	None Detected
495C-80B <i>031338641-0187</i>	1 GYM - RED PAPER UNDER 2 GYM	Tan/Red Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
495C-81A <i>031338641-0188</i>	1 GYM - TSI PIPE INSULATION	Brown/Gray/White Fibrous Heterogeneous	35% Cellulose	22% Ca Carbonate 23% Non-fibrous (other)	20% Chrysotile
495C-81B <i>031338641-0189</i>	1 GYM - TSI PIPE INSULATION				Stop Positive (Not Analyzed)
495C-81C <i>031338641-0190</i>	CRAWLSPACE - TSI PIPE INSULATION				Stop Positive (Not Analyzed)

Analyst(s)


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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-82A <i>031338641-0191</i>	1 GYM - SKIM ON BLOCK WINDOW OPENING	Gray/Tan Non-Fibrous Heterogeneous		30% Gypsum 23% Perlite 47% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-82B <i>031338641-0192</i>	1 GYM - SKIM ON BLOCK WINDOW OPENING	Gray/Tan Non-Fibrous Heterogeneous		30% Gypsum 20% Perlite 50% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-82C <i>031338641-0193</i>	1 GYM - SKIM ON BLOCK WINDOW OPENING	Gray Non-Fibrous Homogeneous		55% Gypsum 8% Perlite 37% Non-fibrous (other)	None Detected
495C-83A <i>031338641-0194</i>	BOILER ROOM - SKIM ON VALVE BREECHING	White/Yellow Fibrous Heterogeneous	70% Glass	30% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-83B <i>031338641-0195</i>	BOILER ROOM - SKIM ON VALVE BREECHING	White/Yellow Fibrous Heterogeneous	80% Glass	20% Non-fibrous (other)	None Detected
495C-83C <i>031338641-0196</i>	BOILER ROOM - SKIM ON VALVE BREECHING	Yellow Fibrous Homogeneous	85% Glass	15% Non-fibrous (other)	None Detected
495C-85A <i>031338641-0197</i>	BOILER ROOM - BOILER RIB GASKET MATERIAL	Tan/White Fibrous Homogeneous	98% Glass	2% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-85B <i>031338641-0198</i>	BOILER ROOM - BOILER RIB GASKET MATERIAL	White Fibrous Homogeneous	90%	Glass	10% Non-fibrous (other) None Detected
495C-86A <i>031338641-0199</i>	BOILER ROOM - TROWLED ON BOILER RIB INSULATION	Tan Fibrous Homogeneous	45%	Glass	55% Non-fibrous (other) None Detected
495C-86B <i>031338641-0200</i>	BOILER ROOM - TROWLED ON BOILER RIB INSULATION	Brown/Tan Fibrous Homogeneous	60%	Glass	40% Non-fibrous (other) None Detected
495C-86C <i>031338641-0201</i>	BOILER ROOM - TROWLED ON BOILER RIB INSULATION	Gray Non-Fibrous Heterogeneous			50% Gypsum 35% Ca Carbonate 15% Non-fibrous (other) None Detected
495C-87A <i>031338641-0202</i>	BOILER ROOM - BOILER DUCT BREECHING	Tan Fibrous Homogeneous	20%	Cellulose Hair	40% Ca Carbonate 20% Non-fibrous (other) None Detected
495C-87B <i>031338641-0203</i>	BOILER ROOM - BOILER DUCT BREECHING	Brown/Gray Fibrous Heterogeneous	24%	Cellulose Glass	30% Ca Carbonate 22% Non-fibrous (other) None Detected
495C-87C <i>031338641-0204</i>	BOILER ROOM - BOILER DUCT BREECHING	Gray/Yellow Non-Fibrous Homogeneous	30%	Min. Wool	40% Ca Carbonate 30% Non-fibrous (other) None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-88A <i>031338641-0205</i>	CRAWLSPACE - DEBRI ON CRAWLSPACE FLOOR	Gray Fibrous Homogeneous	25% Cellulose	10% Non-fibrous (other)	65% Chrysotile
495C-88B <i>031338641-0206</i>	CRAWLSPACE - DEBRI ON CRAWLSPACE FLOOR				Stop Positive (Not Analyzed)
495C-88C <i>031338641-0207</i>	CRAWLSPACE - DEBRI ON CRAWLSPACE FLOOR				Stop Positive (Not Analyzed)
495C-89A <i>031338641-0208</i>	CRAWLSPACE NORTH WALL - BROWN MASTIC ON BRICK WALL	Brown Non-Fibrous Homogeneous		55% Quartz 45% Non-fibrous (other)	None Detected
495C-89B <i>031338641-0209</i>	CRAWLSPACE NORTH WALL - BROWN MASTIC ON BRICK WALL	Brown Non-Fibrous Heterogeneous		60% Quartz 40% Non-fibrous (other)	None Detected
495C-90A <i>031338641-0210</i>	EXTERIOR A SECTION - BLACK MATERIAL ON MORTAR BEHIND YELLOW BRICK	Gray/Tan Non-Fibrous Homogeneous		55% Quartz 20% Ca Carbonate 25% Non-fibrous (other)	None Detected

No "black material" observed. Cement material only submitted.

Analyst(s)


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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-90B <i>031338641-0211</i>	EXTERIOR A SECTION - BLACK MATERIAL ON MORTAR BEHIND YELLOW BRICK	Gray/Tan Non-Fibrous Heterogeneous		55% Quartz 20% Ca Carbonate 25% Non-fibrous (other)	None Detected
495C-91A <i>031338641-0212</i>	EXTERIOR B SECTION SOUTH SIDE ANNEX - GRAY CAULK ON WINDOW SILLS	Brown/Gray Non-Fibrous Homogeneous	10% Cellulose	20% Ca Carbonate 64% Non-fibrous (other)	6% Chrysotile
495C-91B <i>031338641-0213</i>	EXTERIOR B SECTION SOUTH SIDE ANNEX - GRAY CAULK ON WINDOW SILLS				Stop Positive (Not Analyzed)
495C-92A <i>031338641-0214</i>	EXTERIOR B SECTION SOUTH SIDE ANNEX - WINDOW GLAZING ON 7X12 WINDOWS	Gray Non-Fibrous Homogeneous		45% Ca Carbonate 51% Non-fibrous (other)	4% Chrysotile

Analyst(s)

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-92B 031338641-0215	EXTERIOR B SECTION SOUTH SIDE ANNEX - WINDOW GLAZING ON 7X12 WINDOWS				Stop Positive (Not Analyzed)
495C-93A 031338641-0216	EXTERIOR B SECTION SOUTH SIDE ANNEX - 2X3 EXTERIOR VENT FRAME CAULK	Brown/Black Non-Fibrous Homogeneous		25% Ca Carbonate 72% Non-fibrous (other)	3% Anthophyllite
495C-93B 031338641-0217	EXTERIOR B SECTION SOUTH SIDE ANNEX - 2X3 EXTERIOR VENT FRAME CAULK				Stop Positive (Not Analyzed)
495C-94A 031338641-0218	EXTERIOR B SECTION SOUTH SIDE ANNEX - DOOR FRAME CAULK	Brown/Gray Non-Fibrous Homogeneous		15% Ca Carbonate 82% Non-fibrous (other)	3% Chrysotile
495C-94B 031338641-0219	EXTERIOR B SECTION SOUTH SIDE ANNEX - DOOR FRAME CAULK				Stop Positive (Not Analyzed)

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-95A <i>031338641-0220</i>	EXTERIOR B SECTION SOUTH SIDE ANNEX - WHITE EXPANSION CAULK BTWN DECORATIVE CONCRETE	White Non-Fibrous Homogeneous		20% Ca Carbonate 74% Non-fibrous (other)	6% Chrysotile
495C-95B <i>031338641-0221</i>	EXTERIOR B SECTION SOUTH SIDE ANNEX - WHITE EXPANSION CAULK BTWN DECORATIVE CONCRETE				Stop Positive (Not Analyzed)
495C-96A <i>031338641-0222</i>	EXTERIOR B SECTION SOUTH SIDE ANNEX - GLAZING ON 6 LIGHT WINDOW SASH	Gray Non-Fibrous Homogeneous	2% Fibrous (other)	20% Ca Carbonate 76% Non-fibrous (other)	2% Chrysotile
495C-96B <i>031338641-0223</i>	EXTERIOR B SECTION SOUTH SIDE ANNEX - GLAZING ON 6 LIGHT WINDOW SASH				Stop Positive (Not Analyzed)

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-97A 031338641-0224	EXTERIOR B SECTION SOUTH SIDE ANNEX - WINDOW FRAME CAULK ON 4X5 FIBERGLASS	Gray Non-Fibrous Homogeneous	4% Glass	96% Non-fibrous (other)	None Detected
495C-97B 031338641-0225	EXTERIOR B SECTION SOUTH SIDE ANNEX - WINDOW FRAME CAULK ON 4X5 FIBERGLASS	Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
495C-98A 031338641-0226	EXTERIOR B SECTION TOP ROOF - BLACK PEBBLE MEMBRANE	Black Non-Fibrous Homogeneous	10% Cellulose 10% Synthetic	80% Non-fibrous (other)	None Detected
495C-98B 031338641-0227	EXTERIOR B SECTION TOP ROOF - BLACK PEBBLE MEMBRANE	Black Non-Fibrous Heterogeneous	6% Cellulose	55% Matrix 39% Non-fibrous (other)	None Detected
495C-99A 031338641-0228	EXTERIOR B SECTION TOP ROOF - TAR MASTIC UNDER BLACK PEBBLE MEMBRANE	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s) _____

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Jon Williams (103)

Madisen Nnaoji (14)

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Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-99B 031338641-0229	EXTERIOR B SECTION TOP ROOF - TAR MASTIC UNDER BLACK PEBBLE MEMBRANE	Black Non-Fibrous Heterogeneous		60% Matrix 40% Non-fibrous (other)	None Detected
495C-100A 031338641-0230	EXTERIOR B SECTION TOP ROOF - BLACK PAPER UNDER MEMBRANE	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
495C-100B 031338641-0231	EXTERIOR B SECTION TOP ROOF - BLACK PAPER UNDER MEMBRANE	Black Fibrous Homogeneous	50% Cellulose	50% Non-fibrous (other)	None Detected
495C-101A 031338641-0232	EXTERIOR B SECTION TOP ROOF - BROWN PAPER	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
495C-101B 031338641-0233	EXTERIOR B SECTION TOP ROOF - BROWN PAPER	Black Non-Fibrous Heterogeneous	45% Cellulose	55% Non-fibrous (other)	None Detected
495C-102A 031338641-0234	EXTERIOR B SECTION TOP ROOF - BLACK MEMBRANE UNDER PAPER	Black Fibrous Heterogeneous	20% Cellulose 10% Synthetic	70% Non-fibrous (other)	None Detected

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Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-102B <i>031338641-0235</i>	EXTERIOR B SECTION TOP ROOF - BLACK MEMBRANE UNDER PAPER	Black Non-Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
495C-103A <i>031338641-0236</i>	EXTERIOR B SECTION TOP ROOF - BLACK PEBBLE MEMBRANE	Black Fibrous Heterogeneous	15% Cellulose 25% Glass	60% Non-fibrous (other)	None Detected
495C-103B <i>031338641-0237</i>	EXTERIOR B SECTION LOWER ROOF - BLACK PEBBLE MEMBRANE	Black Non-Fibrous Heterogeneous	10% Cellulose	55% Matrix 35% Non-fibrous (other)	None Detected
495C-104A <i>031338641-0238</i>	EXTERIOR B SECTION LOWER ROOF - BLACK PAPER UNDER BLACK PEBBLE MEMBRANE	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
495C-104B <i>031338641-0239</i>	EXTERIOR B SECTION LOWER ROOF - BLACK PAPER UNDER BLACK PEBBLE MEMBRANE	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected

Analyst(s)

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Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-105A <i>031338641-0240</i>	EXTERIOR B SECTION LOWER ROOF - BLACKWALL SHINGLE	Gray/Black Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (other)	None Detected
495C-105B <i>031338641-0241</i>	EXTERIOR B SECTION LOWER ROOF - BLACKWALL SHINGLE	Black Non-Fibrous Heterogeneous		10% Quartz 60% Matrix 30% Non-fibrous (other)	None Detected
495C-106A <i>031338641-0242</i>	EXTERIOR B SECTION LOWER ROOF - TAR MASTIC UNDER BLACKWALL SHINGLE	Brown/Black Non-Fibrous Homogeneous	5% Cellulose	35% Mica 60% Non-fibrous (other)	None Detected
495C-106B <i>031338641-0243</i>	EXTERIOR B SECTION LOWER ROOF - TAR MASTIC UNDER BLACKWALL SHINGLE	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
495C-107A <i>031338641-0244</i>	EXTERIOR B SECTION LOWER ROOF - ALUMINUM FACIA MEMBRANE	Black/Silver Non-Fibrous Heterogeneous	2% Fibrous (other)	98% Non-fibrous (other)	None Detected

Tar with aluminum cover

Analyst(s) _____

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Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-107B <i>031338641-0245</i>	EXTERIOR B SECTION LOWER ROOF - ALUMINUM FACIA MEMBRANE	Black Non-Fibrous Homogeneous		65% Matrix 35% Non-fibrous (other)	None Detected
495C-108A <i>031338641-0246</i>	EXTERIOR B SECTION LOWER ROOF - MASTIC UNDER ALUMINUM FACIA MEMBRANE	White/Black Non-Fibrous Heterogeneous	2% Fibrous (other)	98% Non-fibrous (other)	None Detected
Tar between two layers of plastic					
495C-108B <i>031338641-0247</i>	EXTERIOR B SECTION LOWER ROOF - MASTIC UNDER ALUMINUM FACIA MEMBRANE	Black Non-Fibrous Heterogeneous		60% Matrix 40% Non-fibrous (other)	None Detected
495C-109A <i>031338641-0248</i>	EXTERIOR B SECTION TOP ROOF - BLACK TAR ON ROUND VENTLATORS	Brown/Black Fibrous Homogeneous		86% Non-fibrous (other)	14% Chrysotile
495C-109B <i>031338641-0249</i>	EXTERIOR B SECTION LOWER ROOF - BLACK TAR ON ROUND VENTLATORS				Stop Positive (Not Analyzed)

Analyst(s)

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-110A <i>031338641-0250</i>	EXTERIOR B SECTION LOWER ROOF - BLACK TAR ON BRICK	Black Non-Fibrous Homogeneous	2% Fibrous (other)	98% Non-fibrous (other)	None Detected
495C-110B <i>031338641-0251</i>	EXTERIOR B SECTION LOWER ROOF - BLACK TAR ON BRICK	Black Non-Fibrous Heterogeneous		80% Matrix 20% Non-fibrous (other)	None Detected
495C-111A <i>031338641-0252</i>	EXTERIOR B SECTION LOWER ROOF - BLACK CAULK ABOVE COPPER FLASHING	Black Non-Fibrous Homogeneous	10% Cellulose	78% Non-fibrous (other)	12% Chrysotile
495C-111B <i>031338641-0253</i>	EXTERIOR B SECTION LOWER ROOF - BLACK CAULK ABOVE COPPER FLASHING				Stop Positive (Not Analyzed)
495C-114A <i>031338641-0254</i>	EXTERIOR B SECTION CAFETERIA ROOF - MEMBRANE OVER CAFETERIA SKYLIGHT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-114B 031338641-0255	EXTERIOR B SECTION CAFETERIA ROOF - MEMBRANE OVER CAFETERIA SKYLIGHT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-115A 031338641-0256	EXTERIOR B SECTION CAFETERIA ROOF - FELT PAPER UNDER MEMBRANE OVER CAFETERIA SKYLIGHT	Black Fibrous Heterogeneous	68% Cellulose	32% Non-fibrous (other)	None Detected
495C-115B 031338641-0257	EXTERIOR B SECTION CAFETERIA ROOF - FELT PAPER UNDER MEMBRANE OVER CAFETERIA SKYLIGHT	Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected

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