



ENVIRONMENTAL SAFETY & HYGIENE ASSOCIATES, INC.

- Indoor Air Quality
- OSHA Compliance
- Asbestos Consulting
- Training
- Lead Consulting
- Industrial Hygiene

October 17, 2016

Mr. Alex Gorlob  
Cornerstone Building and Restoration  
44 Coyle Street  
Portland, Maine 04101

Re: Asbestos Bulk Sampling Results for 30 Merrill Street, Portland, Maine.

Dear Mr. Gorlob;

Environmental Safety & Hygiene Associates, Inc. (ESHA) was retained by Cornerstone Building and Restoration to conduct a MDEP and USEPA required and compliant asbestos demolition impact assessment of a multi-family dwelling located at 30 Merrill Street, Portland, Maine.

The objective of the assessment was to assess and document the presence of Presumed Asbestos Containing Materials (PACM) within the boundaries of structure that may be impacted by complete demolition. In addition, the assessment was conducted to assure compliance with the requirements of the MDEP, USEPA National Emission Standard for Hazardous Air Pollutants (NESHAP's), and the Occupational Safety and Health Administration (OSHA).

### ***Background***

During the survey, the inspection team identified suspect PACM's for subsequent sampling and analysis. The asbestos building material survey was conducted in accordance with Maine DEP Chapter 425 Asbestos Management Regulations. The inspection included collection of bulk building material samples of suspect materials that are representative of each homogenous building material type area. The MDEP has minimum sampling requirements for the varying types of suspect materials they are as follows;

**Surfacing materials;** sprayed or applied by trowel and include fireproofing materials and various plasters. At least three bulk samples of surfacing materials were collected from each homogeneous area that was less than 1,000-square feet. Five bulk samples were collected for areas 1,000 to 5,000-square feet, and seven bulk samples were collected for areas greater than 5,000-square feet

**Miscellaneous ACM;** includes a variety of ceiling tiles, floor tiles, and gypsum board. Sample quantities for miscellaneous ACM follow the same requirements as for the two previously mentioned ACM types.

**Thermal system insulation;** including boiler cover, pipe cover, and duct insulation were assessed. The materials were either assumed to be asbestos containing or were sampled as follows; At least three bulk samples of thermal system insulation from each homogenous area or at least one bulk sample from each homogeneous patched area if the section is less than six linear or square feet

All bulk samples collected were submitted to Northeast Laboratory Services, Portland, Maine an independent State-licensed and NVLAP Accredited Asbestos Analytical Laboratory. Bulk samples of surfacing materials, thermal system insulation, and cementitious materials were analyzed by PLM-EPA 600/R-93/116 visual estimation method. Materials with an asbestos content of less than 10% as determined by PLM were reanalyzed by Point Count Method.

Bulk samples of non-friable organically bound materials (NOB's) such as flooring, asphalt, adhesives, coatings, and glazing were analyzed by PLM/NOB EPA 600/R-93/116 with gravimetric reduction method. Materials with an asbestos content of less than 10% as determined by PLM were reanalyzed by Point Count Method.

***Summary of Findings***

ESHA collected twenty-three (23) sample groups of suspect building materials within and on the structure that will be impacted by the demolition (See attached bulk sample summary). Based on the findings of this assessment and the analytical data the only regulated asbestos containing building materials that will require proper removal prior to the demolition is asbestos mudded fitting and pipe cover debris in the basement.

The ACMs identified in this building are summarized below.

<b>BUILDING AREA</b>	<b>ASBESTOS MATERIAL</b>	<b>QUANTITY (Approximate)</b>	<b>ABATEMENT METHOD</b>
Basement	Asbestos Pipe and Fitting Debris	50 sq. ft.	AM-1
Notes: AM-1 Negative pressure regulated area methods using MDEP alternative work practices for demolition projects or full containment regulated area methods per MDEP for renovation projects AM-2 Regulated area using wet and chemical removal methods per MDEP alternative work practices non-friable adhesives AM-3 Regulated area and wet removal methods per OSHA and MDEP disposal requirements			


**Mr. Alex Gorlob**  
**Cornerstone Building and Restoration**  
**Page Three**

**Closing**

The possibility for hidden or un-sampled PACM (Pipe chases, crawl spaces, wet walls, ceiling plenums, sub-soils, etc.) is a factor to consider when conducting routine maintenance, renovations, or general demolition. Should suspect PACM be encountered during any of the above operations that are not identified in this report or conclusive results can't be obtained, additional sampling / analysis should be conducted by a State of Maine Licensed Asbestos Inspector.

We appreciate the opportunity to assist you with your asbestos testing needs, should you require further assistance please feel free to contact us at any time.

Very truly,

  
Mark P. Coleman CIE, CMR  
President

## Asbestos Analytical Results

# Asbestos Testing Summary

## Client:

Page 1 of 2

Cornerstone Building & Restoration  
44 Coyle St.  
Portland, ME 04101  
Project No. 16-257

Testing Date: 10/11/2016  
Testing Location 30 Merrill St. Portland

Sample ID	Sample Location	Sample Description/Color	Sample Results
1A	Basement	Suspect Mudded Fitting Debris - White	40% Chrysotile
1B	"	"	Stop Positive (Not Analyzed)
1C	"	"	Stop Positive (Not Analyzed)
2A	Basement	Suspect Pipe Cover Debris - Tan	25% Chrysotile
2B	"	"	Stop Positive (Not Analyzed)
2C	"	"	Stop Positive (Not Analyzed)
3A	Kitchen	Linoleum (top layer) - Cream	None Detected
3B	"	"	None Detected
3C	"	"	None Detected
4A	2nd Floor Bathroom	Linoleum (top layer) - Tan	None Detected
4B	"	"	None Detected
4C	"	"	None Detected
5A	2nd Floor Bathroom	2nd Layer Felt Paper - Black	None Detected
5B	"	"	None Detected
5C	"	"	None Detected
6A	2nd Floor Bathroom	Linoleum (3rd Layer) - Brown	None Detected
6B	"	"	None Detected
6C	"	"	None Detected
7A	2nd Floor	Joint Compound - White	None Detected
7B	"	"	None Detected
7C	"	"	None Detected
8A	2nd Floor	Drywall - Gray	None Detected
8B	"	"	None Detected
8C	"	"	None Detected
9A	2nd Floor	Plaster - Gray	None Detected
9B	"	"	None Detected
9C	"	"	None Detected
10A	Throughout	Felt under Hardwood Floors - Tan	None Detected
10B	"	"	None Detected
10C	"	"	None Detected
11A	Kitchen	12 x 12 Floor Tiles - Green	None Detected
11B	"	"	None Detected
11C	"	"	None Detected
12A	Kitchen	12 x 12 Floor Tiles - Marble	None Detected
12B	"	"	None Detected
12C	"	"	None Detected

# Asbestos Testing Summary

**Client:**

Cornerstone Building & Restoration  
 44 Coyle St.  
 Portland, ME 04101  
 Project No. 16-257

Testing Date: 10/11/2016  
 Testing Location 30 Merrill Rd. Portland

Sample ID	Sample Location	Sample Description/Color	Sample Results
13A	Kitchen	Linoleum under Floor Tiles - Red	None Detected
13B	"	"	None Detected
13C	"	"	None Detected
14A	Kitchen	Joint Compound - White	None Detected
14B	"	"	None Detected
14C	"	"	None Detected
15A	Kitchen	Drywall - Gray	None Detected
15B	"	"	None Detected
15C	"	"	None Detected
16A - Skim Coat	Kitchen	Plaster - Gray	None Detected
16A - Base Coat	"	"	None Detected
16B - Skim Coat	"	"	None Detected
16B - Base Coat	"	"	None Detected
16C - Skim Coat	"	"	None Detected
16C - Base Coat	"	"	None Detected
17A	Exterior	Old Window Sash Glazing - White/Blue	None Detected
17B	"	"	None Detected
17C	"	"	None Detected
18A	Exterior	Felt Paper behind Siding - Black	None Detected
18B	"	"	None Detected
18C	"	"	None Detected
19A	Exterior - Shed	Rolled Roofing on Shed - Black	None Detected
19B	"	"	None Detected
19C	"	"	None Detected
20A	Exterior - Shed	Felt under Rolled Roofing - Black	None Detected
20B	"	"	None Detected
20C	"	"	None Detected
21A	Exterior	Asphalt Roof Singles - Red/Black	None Detected
21B	"	"	None Detected
21C	"	"	None Detected
22A	Exterior	Felt under Roof Shingles - Black	None Detected
22B	"	"	None Detected
22C	"	"	None Detected
23A	Exterior	Felt under Hardwood - Black	None Detected
23B	"	"	None Detected
23C	"	"	None Detected



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<http://www.EMSL.com> / [portlandlab@emsl.com](mailto:portlandlab@emsl.com)

EMSL Order ID: 621601574  
Customer ID: ESH50  
Customer PO:  
Project ID:

**Attn:** Mark Coleman  
Environmental Safety & Hygiene Assoc.  
91 Larrabee Rd  
Westbrook, ME 04092  
**Phone:** (207) 854-2711  
**Fax:**  
**Collected:** 10/11/2016  
**Received:** 10/13/2016  
**Analyzed:** 10/14/2016  
**Proj:** 20 MERRILL STREET

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 1A **Lab Sample ID:** 621601574-0001  
**Sample Description:** BASEMENT - SUSPECT MUDDIED FITTING DEBRIS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	White	0%	60%	40% Chrysotile	

**Client Sample ID:** 1B **Lab Sample ID:** 621601574-0002  
**Sample Description:** BASEMENT - SUSPECT MUDDIED FITTING DEBRIS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016				Positive Stop (Not Analyzed)	

**Client Sample ID:** 1C **Lab Sample ID:** 621601574-0003  
**Sample Description:** BASEMENT - SUSPECT MUDDIED FITTING DEBRIS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016				Positive Stop (Not Analyzed)	

**Client Sample ID:** 2A **Lab Sample ID:** 621601574-0004  
**Sample Description:** BASEMENT - SUSPECT PIPE COVER DEBRIS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Tan	40%	35%	25% Chrysotile	

**Client Sample ID:** 2B **Lab Sample ID:** 621601574-0005  
**Sample Description:** BASEMENT - SUSPECT PIPE COVER DEBRIS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016				Positive Stop (Not Analyzed)	

**Client Sample ID:** 2C **Lab Sample ID:** 621601574-0006  
**Sample Description:** BASEMENT - SUSPECT PIPE COVER DEBRIS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016				Positive Stop (Not Analyzed)	

**Client Sample ID:** 3A **Lab Sample ID:** 621601574-0007  
**Sample Description:** KITCHEN - CREAM LINOLEUM TOP LAYER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Beige	0.0%	100%	None Detected	



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EMSL Order ID: 621601574  
Customer ID: ESH50  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 3B **Lab Sample ID:** 621601574-0008  
**Sample Description:** KITCHEN - CREAM LINOLEUM TOP LAYER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Beige	0.0%	100%	None Detected	

**Client Sample ID:** 3C **Lab Sample ID:** 621601574-0009  
**Sample Description:** KITCHEN - CREAM LINOLEUM TOP LAYER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Beige	0.0%	100%	None Detected	

**Client Sample ID:** 4A **Lab Sample ID:** 621601574-0010  
**Sample Description:** 2ND FLR BATH - TAN LINOLEUM TOP LAYER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Tan	<0.25%	100%	None Detected	

**Client Sample ID:** 4B **Lab Sample ID:** 621601574-0011  
**Sample Description:** 2ND FLR BATH - TAN LINOLEUM TOP LAYER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Tan	<0.25%	100%	None Detected	

**Client Sample ID:** 4C **Lab Sample ID:** 621601574-0012  
**Sample Description:** 2ND FLR BATH - TAN LINOLEUM TOP LAYER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Tan	0.49%	99.5%	None Detected	

**Client Sample ID:** 5A **Lab Sample ID:** 621601574-0013  
**Sample Description:** 2ND FLR BATH - BLACK FELT PAPER 2ND LAYER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected	

**Client Sample ID:** 5B **Lab Sample ID:** 621601574-0014  
**Sample Description:** 2ND FLR BATH - BLACK FELT PAPER 2ND LAYER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected	

**Client Sample ID:** 5C **Lab Sample ID:** 621601574-0015  
**Sample Description:** 2ND FLR BATH - BLACK FELT PAPER 2ND LAYER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected	





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EMSL Order ID: 621601574  
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Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 6A **Lab Sample ID:** 621601574-0016

**Sample Description:** 2ND FLR BATH - BROWN LINOLEUM 3RD LAYER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Brown	0.0%	100%	None Detected	

**Client Sample ID:** 6B **Lab Sample ID:** 621601574-0017

**Sample Description:** 2ND FLR BATH - BROWN LINOLEUM 3RD LAYER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Brown	0.0%	100%	None Detected	

**Client Sample ID:** 6C **Lab Sample ID:** 621601574-0018

**Sample Description:** 2ND FLR BATH - BROWN LINOLEUM 3RD LAYER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Brown	0.0%	100%	None Detected	

**Client Sample ID:** 7A **Lab Sample ID:** 621601574-0019

**Sample Description:** JOINT COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	White	0%	100%	None Detected	

**Client Sample ID:** 7B **Lab Sample ID:** 621601574-0020

**Sample Description:** JOINT COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	White	0%	100%	None Detected	

**Client Sample ID:** 7C **Lab Sample ID:** 621601574-0021

**Sample Description:** JOINT COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	White	0%	100%	None Detected	

**Client Sample ID:** 8A **Lab Sample ID:** 621601574-0022

**Sample Description:** DRYWALL

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Gray	6%	94%	None Detected	

**Client Sample ID:** 8B **Lab Sample ID:** 621601574-0023

**Sample Description:** DRYWALL

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Gray	6%	94%	None Detected	



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EMSL Order ID: 621601574  
Customer ID: ESH50  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 8C **Lab Sample ID:** 621601574-0024

**Sample Description:** DRYWALL

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Gray	6%	94%	None Detected	

**Client Sample ID:** 9A **Lab Sample ID:** 621601574-0025

**Sample Description:** PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Gray	6%	94%	None Detected	

**Client Sample ID:** 9B **Lab Sample ID:** 621601574-0026

**Sample Description:** PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Gray	3%	97%	None Detected	

**Client Sample ID:** 9C **Lab Sample ID:** 621601574-0027

**Sample Description:** PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Gray	4%	96%	None Detected	

**Client Sample ID:** 10A **Lab Sample ID:** 621601574-0028

**Sample Description:** FELT UNDER HARDWOOD FLOORS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Tan	97%	3%	None Detected	

**Client Sample ID:** 10B **Lab Sample ID:** 621601574-0029

**Sample Description:** FELT UNDER HARDWOOD FLOORS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Tan	95%	5%	None Detected	

**Client Sample ID:** 10C **Lab Sample ID:** 621601574-0030

**Sample Description:** FELT UNDER HARDWOOD FLOORS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Tan	98%	2%	None Detected	

**Client Sample ID:** 11A **Lab Sample ID:** 621601574-0031

**Sample Description:** KITCHEN - GREEN 12"X12" FLOOR TILES

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black/Green	0.0%	100%	None Detected	



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Customer ID: ESH50  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 11B **Lab Sample ID:** 621601574-0032

**Sample Description:** KITCHEN - GREEN 12"X12" FLOOR TILES

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black/Green	0.0%	100%	None Detected	

**Client Sample ID:** 11C **Lab Sample ID:** 621601574-0033

**Sample Description:** KITCHEN - GREEN 12"X12" FLOOR TILES

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black/Green	0.0%	100%	None Detected	

**Client Sample ID:** 12A **Lab Sample ID:** 621601574-0034

**Sample Description:** KITCHEN - MARBLE 12"X12" FLOOR TILES

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Gray/Black	0.0%	100%	None Detected	

**Client Sample ID:** 12B **Lab Sample ID:** 621601574-0035

**Sample Description:** KITCHEN - MARBLE 12"X12" FLOOR TILES

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Gray/Black	0.0%	100%	None Detected	

**Client Sample ID:** 12C **Lab Sample ID:** 621601574-0036

**Sample Description:** KITCHEN - MARBLE 12"X12" FLOOR TILES

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Gray/Black	0.0%	100%	None Detected	

**Client Sample ID:** 13A **Lab Sample ID:** 621601574-0037

**Sample Description:** KITCHEN - RED LINOLEUM UNDER 12 + 13

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Red/Green	0.0%	100%	None Detected	

**Client Sample ID:** 13B **Lab Sample ID:** 621601574-0038

**Sample Description:** KITCHEN - RED LINOLEUM UNDER 12 + 13

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Red/Green	0.0%	100%	None Detected	

**Client Sample ID:** 13C **Lab Sample ID:** 621601574-0039

**Sample Description:** KITCHEN - RED LINOLEUM UNDER 12 + 13

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Red/Green	0.0%	100%	None Detected	



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EMSL Order ID: 621601574  
Customer ID: ESH50  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 14A **Lab Sample ID:** 621601574-0040  
**Sample Description:** JOINT COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	White	0%	100%	None Detected	

**Client Sample ID:** 14B **Lab Sample ID:** 621601574-0041  
**Sample Description:** JOINT COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	White	0%	100%	None Detected	

**Client Sample ID:** 14C **Lab Sample ID:** 621601574-0042  
**Sample Description:** JOINT COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	White	0%	100%	None Detected	

**Client Sample ID:** 15A **Lab Sample ID:** 621601574-0043  
**Sample Description:** DRYWALL

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Gray	8%	92%	None Detected	

**Client Sample ID:** 15B **Lab Sample ID:** 621601574-0044  
**Sample Description:** DRYWALL

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Gray	8%	92%	None Detected	

**Client Sample ID:** 15C **Lab Sample ID:** 621601574-0045  
**Sample Description:** DRYWALL

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Gray	8%	92%	None Detected	

**Client Sample ID:** 16A-Skim Coat **Lab Sample ID:** 621601574-0046  
**Sample Description:** PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	White	0%	100%	None Detected	

**Client Sample ID:** 16A-Base Coat **Lab Sample ID:** 621601574-0046A  
**Sample Description:** PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Gray	2%	98%	None Detected	



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EMSL Order ID: 621601574  
Customer ID: ESH50  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 16B-Skim Coat **Lab Sample ID:** 621601574-0047  
**Sample Description:** PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	White	0%	100%	None Detected	

**Client Sample ID:** 16B-Base Coat **Lab Sample ID:** 621601574-0047A  
**Sample Description:** PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Gray	3%	97%	None Detected	

**Client Sample ID:** 16C-Skim Coat **Lab Sample ID:** 621601574-0048  
**Sample Description:** PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	White	0%	100%	None Detected	

**Client Sample ID:** 16C-Base Coat **Lab Sample ID:** 621601574-0048A  
**Sample Description:** PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	10/14/2016	Gray	3%	97%	None Detected	

**Client Sample ID:** 17A **Lab Sample ID:** 621601574-0049  
**Sample Description:** OLD WINDOW SASH GLAZING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	White/Blue	0.0%	100%	None Detected	

**Client Sample ID:** 17B **Lab Sample ID:** 621601574-0050  
**Sample Description:** OLD WINDOW SASH GLAZING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	White/Blue	0.0%	100%	None Detected	

**Client Sample ID:** 17C **Lab Sample ID:** 621601574-0051  
**Sample Description:** OLD WINDOW SASH GLAZING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	White/Blue	0.0%	100%	None Detected	

**Client Sample ID:** 18A **Lab Sample ID:** 621601574-0052  
**Sample Description:** BLACK FELT PAPER BEHIND SIDING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected	



# EMSL Analytical, Inc.

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<http://www.EMSL.com> / [portlandlab@emsl.com](mailto:portlandlab@emsl.com)

EMSL Order ID: 621601574  
Customer ID: ESH50  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 18B **Lab Sample ID:** 621601574-0053  
**Sample Description:** BLACK FELT PAPER BEHIND SIDING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected	

**Client Sample ID:** 18C **Lab Sample ID:** 621601574-0054  
**Sample Description:** BLACK FELT PAPER BEHIND SIDING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected	

**Client Sample ID:** 19A **Lab Sample ID:** 621601574-0055  
**Sample Description:** ROLLED ROOFING ON SHED

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected	

**Client Sample ID:** 19B **Lab Sample ID:** 621601574-0056  
**Sample Description:** ROLLED ROOFING ON SHED

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected	

**Client Sample ID:** 19C **Lab Sample ID:** 621601574-0057  
**Sample Description:** ROLLED ROOFING ON SHED

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected	

**Client Sample ID:** 20A **Lab Sample ID:** 621601574-0058  
**Sample Description:** FELT UNDER ROLLED ROOFING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected	

**Client Sample ID:** 20B **Lab Sample ID:** 621601574-0059  
**Sample Description:** FELT UNDER ROLLED ROOFING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected	

**Client Sample ID:** 20C **Lab Sample ID:** 621601574-0060  
**Sample Description:** FELT UNDER ROLLED ROOFING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected	



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EMSL Order ID: 621601574  
Customer ID: ESH50  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

<b>Client Sample ID:</b> 21A							<b>Lab Sample ID:</b> 621601574-0061
<b>Sample Description:</b> ASPHALT ROOF SHINGLES							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM Grav. Reduction	10/14/2016	Red/Black	0.0%	100%	None Detected		
<b>Client Sample ID:</b> 21B							<b>Lab Sample ID:</b> 621601574-0062
<b>Sample Description:</b> ASPHALT ROOF SHINGLES							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM Grav. Reduction	10/14/2016	Red/Black	0.0%	100%	None Detected		
<b>Client Sample ID:</b> 21C							<b>Lab Sample ID:</b> 621601574-0063
<b>Sample Description:</b> ASPHALT ROOF SHINGLES							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM Grav. Reduction	10/14/2016	Red/Black	0.0%	100%	None Detected		
<b>Client Sample ID:</b> 22A							<b>Lab Sample ID:</b> 621601574-0064
<b>Sample Description:</b> FELT UNDER ROOF SHINGLES							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected		
<b>Client Sample ID:</b> 22B							<b>Lab Sample ID:</b> 621601574-0065
<b>Sample Description:</b> FELT UNDER ROOF SHINGLES							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected		
<b>Client Sample ID:</b> 22C							<b>Lab Sample ID:</b> 621601574-0066
<b>Sample Description:</b> FELT UNDER ROOF SHINGLES							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected		
<b>Client Sample ID:</b> 23A							<b>Lab Sample ID:</b> 621601574-0067
<b>Sample Description:</b> BLACK FELT UNDER HARDWOOD							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected		
<b>Client Sample ID:</b> 23B							<b>Lab Sample ID:</b> 621601574-0068
<b>Sample Description:</b> BLACK FELT UNDER HARDWOOD							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected		



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EMSL Order ID: 621601574  
Customer ID: ESH50  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 23C **Lab Sample ID:** 621601574-0069  
**Sample Description:** BLACK FELT UNDER HARDWOOD

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	10/14/2016	Black	0.0%	100%	None Detected	

PLM: Maine Certification # BA-0142, BA-0174  
PLM EPA NOB: Maine Certification # BA-0142, BA-0174

**Analyst(s):**

Christina Walker	PLM (18) PLM Grav. Reduction (26)
Zackary Carbee	PLM (8) PLM Grav. Reduction (16)

**Reviewed and approved by:**

Christina Walker, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. EMSL bears no responsibility for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. PLM alone is not consistently reliable in detecting asbestos in floor coverings and similar NOBs

Samples analyzed by EMSL Analytical, Inc. South Portland, ME

Initial report from: 10/14/201609:32:12





**Asbestos Chain of Custody**  
EMSL Order Number (Lab Use Only):

621601574

PHONE:  
FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1A-C	SUSPECT MUDDIED FITTINGS PEBBLES	BASEMENT	10-11-16
2A-C	SUSPECT PIPE COVER PEBBLES	"	
3A-C	CREAM LINOLEUM TOP LAYER	KITCHEN	
4A-C	TAN LINOLEUM TOP LAYER	2ND FLOOR BATH	
5A-C	BLACK FELT PAPER 2ND LAYER	"	
6A-C	BROWN LINOLEUM 3RD LAYER	"	
7A-E	JOINT COMPOUND		
8A-C	DRYWALL		
9A-C	PLASTER		
10A-C	FELT UNDER HARDWOOD FLOORS		
11A-C	GREEN 12" X 12" FLOOR TILES	KITCHEN	
12A-C	MARBLE 12" X 12" FLOOR TILES	"	
13	RED LINOLEUM UNDER 12 & 13	"	
14	JOINT COMPOUND		
15	DRYWALL		
16	PLASTER		
17	OLD WINDOW SASH GLAZING		
18	BLACK FELT PAPER PENNING SIDING		
19	PULLED ROOFING ON SHED		
20	FELT UNDER PULLED ROOFING		
21	ASPHALT ROOF SHINGLES		
22	FELT UNDER ROOF SHINGLES		
23	BLACK FELT UNDER HARDWOOD		
*Comments/Special Instructions:			





EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

**Asbestos Chain of Custody**  
EMSL Order Number (Lab Use Only):

621601574

PHONE:  
FAX:

Company Name : ESH Associates, Inc.		EMSL Customer ID:	
Street: 17 Patrick Drive		City: Westbrook	State/Province: Maine
Zip/Postal Code: 04092	Country: USA	Telephone #: 207.756.9429	Fax #:
Report To (Name): Mark Coleman		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Email Address: mark@eshiaq.com		Purchase Order:	
Project Name/Number: 20 MERRILL STREET		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: Maine		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different - If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party			
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input checked="" type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
<b>PCM - Air</b> <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA		<b>TEM - Air</b> <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	
<b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<0.1%) <input type="checkbox"/> PLM EPA NOB (<0.1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NYS 198.8 SOF-V <input type="checkbox"/> NIOSH 9002 (<1%)		<b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 <b>TEM - Water: EPA 100.2</b> Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
<b>TEM - Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)		<b>Soil/Rock/Vermiculite*</b> <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique *Can not accept New York State Loose Fill Vermiculite Samples <b>Other:</b> <input type="checkbox"/>	
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		Filter Pore Size (Air Samples): <input type="checkbox"/> 0.8µm <input type="checkbox"/> 0.45µm	
Samplers Name: Mark Coleman		Samplers Signature: <i>[Signature]</i>	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1A-C	ASBESTOS MUDDED DEBRIS IN BASEMENT	#30	10.11.16
2A-C	PIPE WORK DEBRIS IN BASEMENT		
3A-C	CREAM LINOLEUM - KITCHEN		
4A-C	BLACK FIBR UNDER CREAM LINO KITCHEN		
5A-C	OLD RED LINOLEUM UNDER KITCHEN LAYERS		
6A-C			
7A-C			
Client Sample # (s):		Total # of Samples:	
Relinquished (Client): <i>[Signature]</i>		Date: 10.12.16	Time: 0600
Received (Lab): <i>[Signature]</i>		Date: 10.13.2016	Time: 8:30 AM
Comments/Special Instructions:			