



ENVIRONMENTAL SAFETY & HYGIENE ASSOCIATES, INC.

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

July 8<sup>th</sup>, 2016

Mr. Rory Hannon  
Viking Restoration  
109 Willey Road  
Saco, Maine 04072

Re: Asbestos Bulk Sampling Results for 33 Clifton Street, Portland, Maine.

Dear Mr. Hannon;

Environmental Safety & Hygiene Associates, Inc. (ESHA) was retained by Viking Restoration to conduct a ***MDEP and USEPA required and compliant asbestos renovation impact assessment*** of a multi-family dwelling located at 33 Clifton 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 restoration and renovations following a water and fire damage incident. 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 EMSL Analytical Services, South 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 seven (7) sample groups of suspect building materials from areas within the dwelling that will be impacted by selective demolition and renovations (See attached bulk sample summary).

Based on the findings of this assessment and the analytical data the areas and building materials that were impacted by the fire and water damage incident do not contain any regulated levels of asbestos and the work may proceed as a general construction project as it relates to asbestos compliance.

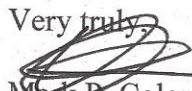
### **Closing**

The possibility for hidden or un-sampled PACM (Pipe chases, walls, ceiling plenums, and multi-layered floor systems) is a factor to consider when conducting 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 must 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

Viking Restoration, DK1  
 109 Willey Rd.  
 Saco, ME 04072  
 Project No. 16-160

Testing Date: 7/6/2016  
 Testing Location: 33/35 Clifton St. Portland

Sample ID	Sample Location	Sample Description/Color	Sample Results
1A	33 Clifton 1st Floor - Bathroom	Linoleum - Tan	None Detected
1B	"	"	None Detected
1C	"	"	None Detected
2A	33 Clifton 1st Floor - Throughout	Plaster Walls - Gray	None Detected
2B	"	"	None Detected
2C	"	"	None Detected
3A	33 Clifton 1st Floor - Throughout	Plaster Ceilings - Gray	None Detected
3B	"	"	None Detected
3C	"	"	None Detected
4A	35 Clifton 2nd Floor - Throughout	Ceiling Plaster - Gray	None Detected
4B	"	"	None Detected
4C	"	"	None Detected
5A	35 Clifton 2nd Floor - Throughout	Wall Plaster - Gray	None Detected
5B	"	"	None Detected
5C	"	"	None Detected
6A	Exterior	Roof Shingles - Black	None Detected
6B	"	"	None Detected
6C	"	"	None Detected
7A	Exterior	Roofing Felt - Black	None Detected
7B	"	"	None Detected
7C	"	"	None Detected



# EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106  
Phone/Fax: (207) 517-6921 / (207) 517-6922  
<http://www.EMSL.com> / [portlandlab@emsl.com](mailto:portlandlab@emsl.com)

EMSL Order ID: 621601009  
Customer ID: ESH50  
Customer PO:  
Project ID:

**Attn:** Mark Coleman  
Environmental Safety & Hygiene Assoc.  
17 Patrick Drive  
Westbrook, ME 04092

Phone: (207) 854-2711  
Fax: (ema) il -only  
Collected:  
Received: 7/06/2016  
Analyzed: 7/07/2016

**Proj:** 33/35 Clifton St

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

**Client Sample ID:** 1A

**Lab Sample ID:** 621601009-0001

**Sample Description:** 33 1ST FLR/LINOLEUM BATHROOM

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	7/07/2016	Tan	1.4%	98.6%	None Detected	

**Client Sample ID:** 1B

**Lab Sample ID:** 621601009-0002

**Sample Description:** 33 1ST FLR/LINOLEUM BATHROOM

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	7/07/2016	Tan	2.5%	97.5%	None Detected	

**Client Sample ID:** 1C

**Lab Sample ID:** 621601009-0003

**Sample Description:** 33 1ST FLR/LINOLEUM BATHROOM

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	7/07/2016	Tan	1.2%	98.8%	None Detected	

**Client Sample ID:** 2A

**Lab Sample ID:** 621601009-0004

**Sample Description:** 33 1ST FLR/PLASTER WALLS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	7/07/2016	Gray	0%	100%	None Detected	

**Client Sample ID:** 2B

**Lab Sample ID:** 621601009-0005

**Sample Description:** 33 1ST FLR/PLASTER WALLS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	7/07/2016	Gray	0%	100%	None Detected	

**Client Sample ID:** 2C

**Lab Sample ID:** 621601009-0006

**Sample Description:** 33 1ST FLR/PLASTER WALLS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	7/07/2016	Gray	0%	100%	None Detected	

**Client Sample ID:** 3A

**Lab Sample ID:** 621601009-0007

**Sample Description:** 33 1ST FLR/PLASTER CEILINGS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	7/07/2016	Gray	0%	100%	None Detected	





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EMSL Order ID: 621601009  
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:** 621601009-0008  
**Sample Description:** 33 1ST FLR/PLASTER CEILINGS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	7/07/2016	Gray	0%	100%	None Detected	

**Client Sample ID:** 3C **Lab Sample ID:** 621601009-0009  
**Sample Description:** 33 1ST FLR/PLASTER CEILINGS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	7/07/2016	Gray	0%	100%	None Detected	

**Client Sample ID:** 4A **Lab Sample ID:** 621601009-0010  
**Sample Description:** 35 2ND FLR/CEILING PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	7/07/2016	Gray	0%	100%	None Detected	

**Client Sample ID:** 4B **Lab Sample ID:** 621601009-0011  
**Sample Description:** 35 2ND FLR/CEILING PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	7/07/2016	Gray	0%	100%	None Detected	

**Client Sample ID:** 4C **Lab Sample ID:** 621601009-0012  
**Sample Description:** 35 2ND FLR/CEILING PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	7/07/2016	Gray	0%	100%	None Detected	

**Client Sample ID:** 5A **Lab Sample ID:** 621601009-0013  
**Sample Description:** 35 2ND FLR/WALL PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	7/07/2016	Gray	0%	100%	None Detected	

**Client Sample ID:** 5B **Lab Sample ID:** 621601009-0014  
**Sample Description:** 35 2ND FLR/WALL PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	7/07/2016	Gray	0%	100%	None Detected	

**Client Sample ID:** 5C **Lab Sample ID:** 621601009-0015  
**Sample Description:** 35 2ND FLR/WALL PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	7/07/2016	Gray	0%	100%	None Detected	



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EMSL Order ID: 621601009  
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:** 6A **Lab Sample ID:** 621601009-0016  
**Sample Description:** 35 2ND FLR/DRYWALL

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	7/07/2016	Gray	8%	92%	None Detected	

**Client Sample ID:** 6B **Lab Sample ID:** 621601009-0017  
**Sample Description:** 35 2ND FLR/DRYWALL

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	7/07/2016	Gray	9%	91%	None Detected	

**Client Sample ID:** 6C **Lab Sample ID:** 621601009-0018  
**Sample Description:** 35 2ND FLR/DRYWALL

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	7/07/2016	Gray	10%	90%	None Detected	

**Client Sample ID:** 7A **Lab Sample ID:** 621601009-0019  
**Sample Description:** ROOF SHINGLES

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	7/07/2016	Black	10.1%	89.9%	None Detected	

**Client Sample ID:** 7B **Lab Sample ID:** 621601009-0020  
**Sample Description:** ROOF SHINGLES

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	7/07/2016	Black	16.0%	84.0%	None Detected	

**Client Sample ID:** 7C **Lab Sample ID:** 621601009-0021  
**Sample Description:** ROOF SHINGLES

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	7/07/2016	Black	2.9%	97.1%	None Detected	

**Client Sample ID:** 8A **Lab Sample ID:** 621601009-0022  
**Sample Description:** ROOFING FELT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	7/07/2016	Black	0.0%	100%	None Detected	

**Client Sample ID:** 8B **Lab Sample ID:** 621601009-0023  
**Sample Description:** ROOFING FELT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	7/07/2016	Black	0.0%	100%	None Detected	



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EMSL Order ID: 621601009  
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: 621601009-0024

Sample Description: ROOFING FELT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	7/07/2016	Black	0.0%	100%	None Detected	

PLM: ME Cert.# BA-0174 (ZC) BA-0142 (CW)  
PLM EPA NOB: ME Cert.# BA-0174 (ZC) BA-0142 (CW)

### Analyst(s):

Christina Walker	PLM (5) PLM Grav. Reduction (6)
Zackary Carbee	PLM (10) PLM Grav. Reduction (3)

### Reviewed and approved by:

Christina Walker, Laboratory Manager  
or Other Approved Signatory

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

Initial report from: 07/07/2016 12:43:02





EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

621601009

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: 33/35 CLIFTON ST		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** <i>Third Party Billing requires written authorization from third party</i>			
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
<small>*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.</small>			
<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 (<1%) <input checked="" type="checkbox"/> PLM EPA NOB (<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:</b> EPA 100.2 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 <small>*Can not accept New York State Loose Fill Vermiculite Samples</small>	
		<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:	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1A-C	LINOLEUM BATHROOM	33 1ST FLR	7-6-16
2A-C	PLASTER WALLS	↓	↓
3A-C	PLASTER/CEILING		
4A-C	CEILING PLASTER		
5A-C	WALL PLASTER		
6A-C	DRYWALL		
7A-C	ROOF SHINGLES		
Client Sample # (s): -			
Relinquished (Client):		Date: 7-6-16	Time: 1630
Received (Lab):		Date: JUL 06 2016	Time: 5:00pm
Comments/Special Instructions:			



