

**206 Main St., Gloucester, Massachusetts  
Weston & Sampson Project No. 2130191**

December 3, 2015

Mr. Stephen Winslow  
Senior Project Manager  
Community Development Department  
3 Pond Street  
Gloucester, Massachusetts 01930  
**RE: Hazardous Building Materials Investigation  
206 Main Street  
Gloucester, Massachusetts**

## **INTRODUCTION**

Weston & Sampson, Inc. is pleased to present this report with the results of our Hazardous Building Materials Investigation (HBMI) conducted at the former Cameron's Restaurant located on 206 Main Street in Gloucester, Massachusetts. Our services were completed in accordance with our October 2, 2015, Scope of Work, Cost Estimate and Project Schedule letter

## **PROJECT UNDERSTANDING**

The Site currently consists of a single building with original construction reportedly in 1888, with demolition, renovations and/or additions to the structure occurring in 1930, 1973, 1986 and 1990. There is a partial basement within one section of the building. The building appears to be mainly constructed of wood, brick and concrete.

Based on discussions with the City of Gloucester and the North Shore Community Development Corporation we understand that future plans include demolition of the building. In response to the proposed demolition of the building, Weston & Sampson performed a survey to identify asbestos-containing materials (ACMs), lead paint/coatings, poly-chlorinated biphenyls (PCBs) and other hazardous materials (OHMs).

## **HBMI SURVEY RESULTS**

### **Asbestos Survey**

The asbestos sampling was performed by Massachusetts-licensed asbestos inspector Mr. Craig Miner (license No.: AI000014) on November 10, 2015. A total of 58 samples of suspect asbestos-containing materials were collected. We performed the bulk sampling in the area according to methods outlined in the U.S. Environmental Protection Agency (EPA) guidance document titled, "Guidance for Controlling Asbestos-Containing Materials in Buildings" (Document No. 560/5-85/024).

Samples were analyzed by EMSL Analytical, Inc. in Woburn, Massachusetts. The results of the sampling are summarized below.

The following materials were identified as ACM by laboratory analysis:

Material	Location	Analytical Result (% Asbestos)
Reddish floor tile and mastic – multiple layers	Center of main floor by stairs	2-5% Chrysotile
Pebble sheet flooring – under wood flooring	Right of main floor by brick	30% Chrysotile
Pipe/fitting insulation	Basement	80% Chrysotile
Transite paneling	Basement	25% Chrysotile
Roof field and flashing – tars/felts, multiple layers	Roof	10-20% Chrysotile
Gray roof caulking	Roof	10% Chrysotile

No asbestos was detected within samples of the following materials:

- Ceramic tile grout by bar
- Paper under wood floor
- Ceramic tile grout – center and rear
- Wire insulation
- Wall panel mastic
- Stucco on roof and exterior side
- Roof HVAC covering
- Residual carpet mastic
- Textured paint
- Felt paper on cork in basement
- Cove base and associated mastic
- 2'x2' Ceiling tile – twp types
- Black roof caulk
- Window caulk

The EPA defines an ACM as a material that contains greater than 1 percent (%) asbestos. The Massachusetts Department of Environmental Protection defines ACM as a material that contains greater than or equal to 1% asbestos. **Asbestos was detected in several of the building materials sampled by Weston & Sampson in concentrations greater than or equal to 1%.**

The EPA - NESHAP regulations (National Emissions Standard for Hazardous Air Pollutants - 40 CFR Part 61, Subpart M), require that friable ACM, Category I and II non-friable ACM that has become friable, or Category I and II non-friable ACM that will be or has been subject to sanding, grinding, or abrading, be removed from a facility being demolished or renovated prior to any activity that would disturb the material.

The following materials are scheduled to be removed as part of the upcoming demolition project at the building:

Material	Location	Approximate Quantity
Reddish floor tile and mastic – multiple layers	Center of main floor by stairs	100 SF
Pebble sheet flooring – under wood	Right of main floor by brick	250 SF

Material	Location	Approximate Quantity
flooring		
Flooring and associated mastics – multiple layers and under wood <sup>1</sup>	Unknown	1,000 SF
Pipe/fitting insulation <sup>2</sup>	Basement	250 LF
Asbestos contaminated soil	Basement crawlspace	~3 CY
Transite paneling	Basement	80 SF
Roof field and flashing – tars/felts, multiple layers	Roof	8,000 SF
Gray roof caulking	Roof	300 LF
Safe insulation <sup>3</sup>	Basement	1 safe ~2'x2'x2'
Mastic on structural steel <sup>3</sup>	Main floor inside CMU wall	~8 beams ~15' each
Red duct sealant <sup>3</sup>	Main floor, west side by bar	10 SF

<sup>1</sup>Due to the presence of concealed ACM flooring in at least one location, additional concealed materials are likely present.

<sup>2</sup>Material appears to be have impacted soil in crawlspace.

<sup>3</sup>Material was inaccessible but observed and assumed positive.

### *Asbestos Limitations*

Several small pieces of asbestos pipe insulation were observed in the soil of the basement crawlspace. Based on the size of the space and the general appearance of the pipe insulation some removal and disposal of soil will be required. However, the extent of contamination is not known as the space is inaccessible; the quantity provided is a best estimate based on observed conditions.

Our survey did not include an evaluation of underground asbestos cement water/sewer piping, below-grade damp-proofing or underground steam lines that may be present at the Site. Limited exploratory demolition was performed to access potentially hidden materials in pipe/other building chases or fire door cores. In addition to the above listed materials, other suspect ACMs may be present at the site that may not have been accessible by Weston & Sampson during our survey. Weston & Sampson investigated for potential asbestos-containing pipe insulation, however additional materials may be concealed by existing ceilings and/or walls.

Weston & Sampson recommends that if any suspect materials are uncovered during demolition or renovation activities that were not identified during the survey, that the materials be sampled and analyzed for asbestos content prior to removal.

### **Polychlorinated Biphenyls (PCB) Survey**

Weston & Sampson conducted a limited survey of the Site building for suspect PCB-containing caulking and paint materials. PCB's are regulated under EPA's Toxic Substances Control Act (TSCA) regulations (40 CFR Part 761). Caulking and other bulk materials that contain PCBs in concentrations greater than 50 parts per million (ppm) are considered PCB bulk product waste and must be disposed at a facility permitted to accept TSCA waste. Caulking and other bulk materials

containing concentrations of PCB's less than 50 ppm are not regulated by TSCA and can be disposed of at a facility permitted to accept the specific concentration of PCBs present in that particular bulk material.

Various types and colors of suspect materials were identified within the property and a total of four samples were collected for PCB analysis. These samples were analyzed by Con-Test Analytical Laboratory of East Longmeadow, Massachusetts via EPA Method 8082 with soxhlet extraction. The sample results are summarized below.

*PCB Sample Results*

Sample Description	Analytical Result (ppm)
P1 – Window caulk	None detected
P2 – Window caulk (duplicate)	None detected
P3 – Textured paint	None detected
P4 – Textured paint	None detected

Based on the above referenced limits, none of the materials sampled by Weston & Sampson at the Site will be required to be disposed of at a TSCA permitted facility.

**Lead Paint Screening**

As part of the HMBI, Weston & Sampson performed a lead paint screening of the Site buildings. During the screening, we collected paint chip samples from representative painted/coated building components for analysis via Atomic Absorption Spectrometry using method SW846-7420. Samples were analyzed by EMSL Analytical, Inc. of Cinnaminson, New Jersey.

*Summary of Findings*

The paint screening revealed that none of the paint chip samples collected from the building contained levels of lead paint that are greater than the EPA residential standard of 0.50% lead by weight. The results of the samples ranged from <0.010% (below the laboratory limit of detection) lead by weight to 0.075% lead by weight. However, the Occupational Health and Safety Administration (OSHA) Lead in Construction Standard 29 CFR 1926.62 considers any detectable level of lead to be a potential for exposure if dust is generated from disturbances of surfaces coated with paint containing lead.

*Lead Paint Sample Results*

Sample ID	Sample Description	Analytical Results (% lead by weight)
L1	Concrete wall paint	0.075
L2	Sheetrock wall paint	<0.010

## *Regulatory Implications and Regulations*

### Worker Protection

OSHA defines any detectable concentration of lead in paint as a potential lead exposure hazard to workers doing construction/demolition-type work on these surfaces as even small concentrations of lead can result in unacceptable employee exposures depending upon the method of removal and other workplace conditions. Since these conditions can vary greatly, the lead-in-construction standard was written to require exposure monitoring or the use of historical or objective data to ensure that employee exposures do not exceed the Action Level of 30 micrograms per cubic meter of air ( $\mu\text{g}/\text{m}^3$ ). Historical data may be applied to some construction tasks involving lead.

OSHA requires that if coated surfaces with paint containing lead are impacted during demolition, then lead exposure monitoring must be performed by the contractor. Contractors and employers of staff who may disturb these materials are obligated to perform a 'negative exposure assessment' in accordance with OSHA regulations in order to document that, although minimal levels of lead are present in these materials, exposure to lead does not exceed the aforementioned OSHA Action Level.

OSHA states that until the employer performs an exposure assessment (or can supply prior data regarding the same type of work which may exempt them from the standard) and documents that employees are not exposed above the permissible exposure limit (PEL) of greater than 50  $\mu\text{g}/\text{m}^3$  of air, the employer must treat employees as if they were exposed above the PEL for the following operations:

- manual demolition of structures, manual scraping, manual sanding, and use of heat gun where lead-containing coatings or paints are present;
- abrasive blasting enclosure movement and removal;
- power tool cleaning;
- lead burning;
- using lead-containing mortar or spray painting with lead-containing paint;
- abrasive blasting, rivet busting, or welding, cutting, or burning on any structure where lead-containing coatings or paint are present;
- cleanup activities where dry expendable abrasive are used; and
- any other task the employer believes may cause exposure in excess of the PEL.

*The contractor must provide respiratory protection, protective work clothing and equipment, change areas, hand washing facilities, biological monitoring, and training until an exposure assessment has determined that the work activity will result in an exposure below the PEL. Additional requirements under this standard include a written compliance program as well as record keeping.*

### **Other Hazardous Materials**

As part of the survey, Weston & Sampson performed a survey/inventory of potentially hazardous chemicals and mechanical equipment located within the survey area that will require special handling and disposal prior to building renovation / demolition activities. The following hazardous materials were observed within the building:

<b>Material</b>	<b>Quantity</b>
Refrigerator, A/C unit, Ice machine	3
Fire exit sign	5
Fire extinguishers	18
Fluorescent light ballasts	20
Fluorescent light bulbs	40

### **COST ESTIMATES**

Weston & Sampson developed cost estimates using current abatement prices. Market conditions will affect abatement costs. Additionally, abatement costs may be affected if multiple phases of abatement are conducted compared to a single project. The cost to abate roofing materials ranges widely and is mainly dependent on the method of removal; for this cost estimate Weston & Sampson utilized the upper range of pricing. It is possible, utilizing alternate methods allowed by regulation, that the roofing costs will be markedly reduced. Lead paint removal and disposal typically does not impact overall demolition cost.

Weston & Sampson estimates the cost to perform asbestos abatement at the building to be \$64,500 to \$80,500. The OHM removal cost is estimated to be \$2,500.

We appreciate the opportunity to assist you with this project. If you have any questions or require any additional information, please do not hesitate to contact us at (978) 532-1900.

Very truly yours,

WESTON & SAMPSON, INC.



Paul V. Uzgiris, PE  
Team Leader



Craig Miner, LEED AP  
Project Manager

### **Attachments:**

- Laboratory analytical data
- Photographs

## **Laboratory Analytical Reports**

November 20, 2015

Craig Miner  
Weston & Sampson Engineers MA  
5 Centennial Drive  
Peabody, MA 01960

Project Location: 206 Main St., Gloucester, MA  
Client Job Number:  
Project Number: 112 Commercial  
Laboratory Work Order Number: 15K0630

Enclosed are results of analyses for samples received by the laboratory on November 13, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive style with a large, sweeping "y" at the end.

Meghan E. Kelley  
Project Manager

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Weston & Sampson Engineers MA  
5 Centennial Drive  
Peabody, MA 01960  
ATTN: Craig Miner

REPORT DATE: 11/20/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 112 Commercial

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**ANALYTICAL SUMMARY**

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WORK ORDER NUMBER: 15K0630

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 206 Main St., Gloucester, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
P1 window caulk	15K0630-01	Caulk		SW-846 8082A	
P2 window caulk	15K0630-02	Caulk		SW-846 8082A	
P3 Textured paint	15K0630-03	Paint		SW-846 8082A	
P4 Textured paint	15K0630-04	Paint		SW-846 8082A	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**SW-846 8082A**

**Qualifications:**

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**O-32**

A dilution was performed as part of the standard analytical procedure.

**Analyte & Samples(s) Qualified:**

15K0630-01[P1 window caulk], 15K0630-02[P2 window caulk]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopycinski  
Laboratory Director

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Project Location: 206 Main St., Gloucester, MA

Sample Description:

Work Order: 15K0630

Date Received: 11/13/2015

Field Sample #: P1 window caulk

Sampled: 11/10/2015 00:00

Sample ID: 15K0630-01

Sample Matrix: Caulk

Sample Flags: O-32

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 18:53	KAL
Aroclor-1221 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 18:53	KAL
Aroclor-1232 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 18:53	KAL
Aroclor-1242 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 18:53	KAL
Aroclor-1248 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 18:53	KAL
Aroclor-1254 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 18:53	KAL
Aroclor-1260 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 18:53	KAL
Aroclor-1262 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 18:53	KAL
Aroclor-1268 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 18:53	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		90.3	30-150					11/19/15 18:53	
Decachlorobiphenyl [2]		93.1	30-150					11/19/15 18:53	
Tetrachloro-m-xylene [1]		81.1	30-150					11/19/15 18:53	
Tetrachloro-m-xylene [2]		85.6	30-150					11/19/15 18:53	

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Project Location: 206 Main St., Gloucester, MA

Sample Description:

Work Order: 15K0630

Date Received: 11/13/2015

Field Sample #: P2 window caulk

Sampled: 11/10/2015 00:00

Sample ID: 15K0630-02

Sample Matrix: Caulk

Sample Flags: O-32

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 19:11	KAL
Aroclor-1221 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 19:11	KAL
Aroclor-1232 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 19:11	KAL
Aroclor-1242 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 19:11	KAL
Aroclor-1248 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 19:11	KAL
Aroclor-1254 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 19:11	KAL
Aroclor-1260 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 19:11	KAL
Aroclor-1262 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 19:11	KAL
Aroclor-1268 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	11/16/15	11/19/15 19:11	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.9	30-150					11/19/15 19:11	
Decachlorobiphenyl [2]		89.5	30-150					11/19/15 19:11	
Tetrachloro-m-xylene [1]		79.9	30-150					11/19/15 19:11	
Tetrachloro-m-xylene [2]		82.9	30-150					11/19/15 19:11	

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Project Location: 206 Main St., Gloucester, MA

Sample Description:

Work Order: 15K0630

Date Received: 11/13/2015

Field Sample #: P3 Textured paint

Sampled: 11/10/2015 00:00

Sample ID: 15K0630-03

Sample Matrix: Paint

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.44	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 11:56	KAL
Aroclor-1221 [1]	ND	0.44	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 11:56	KAL
Aroclor-1232 [1]	ND	0.44	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 11:56	KAL
Aroclor-1242 [1]	ND	0.44	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 11:56	KAL
Aroclor-1248 [1]	ND	0.44	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 11:56	KAL
Aroclor-1254 [1]	ND	0.44	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 11:56	KAL
Aroclor-1260 [1]	ND	0.44	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 11:56	KAL
Aroclor-1262 [1]	ND	0.44	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 11:56	KAL
Aroclor-1268 [1]	ND	0.44	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 11:56	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	99.9		30-150			11/18/15 11:56			
Decachlorobiphenyl [2]	83.7		30-150			11/18/15 11:56			
Tetrachloro-m-xylene [1]	93.5		30-150			11/18/15 11:56			
Tetrachloro-m-xylene [2]	78.7		30-150			11/18/15 11:56			

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Project Location: 206 Main St., Gloucester, MA

Sample Description:

Work Order: 15K0630

Date Received: 11/13/2015

Field Sample #: P4 Textured paint

Sampled: 11/10/2015 00:00

Sample ID: 15K0630-04

Sample Matrix: Paint

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.41	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 12:09	KAL
Aroclor-1221 [1]	ND	0.41	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 12:09	KAL
Aroclor-1232 [1]	ND	0.41	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 12:09	KAL
Aroclor-1242 [1]	ND	0.41	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 12:09	KAL
Aroclor-1248 [1]	ND	0.41	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 12:09	KAL
Aroclor-1254 [1]	ND	0.41	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 12:09	KAL
Aroclor-1260 [1]	ND	0.41	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 12:09	KAL
Aroclor-1262 [1]	ND	0.41	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 12:09	KAL
Aroclor-1268 [1]	ND	0.41	mg/Kg	1		SW-846 8082A	11/16/15	11/18/15 12:09	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		100	30-150					11/18/15 12:09	
Decachlorobiphenyl [2]		84.2	30-150					11/18/15 12:09	
Tetrachloro-m-xylene [1]		98.4	30-150					11/18/15 12:09	
Tetrachloro-m-xylene [2]		82.8	30-150					11/18/15 12:09	

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**Sample Extraction Data**

**Prep Method: SW-846 3540C-SW-846 8082A**

<b>Lab Number [Field ID]</b>	<b>Batch</b>	<b>Initial [g]</b>	<b>Final [mL]</b>	<b>Date</b>
15K0630-01 [P1 window caulk]	B135507	0.549	10.0	11/16/15
15K0630-02 [P2 window caulk]	B135507	0.527	10.0	11/16/15

**Prep Method: SW-846 3540C-SW-846 8082A**

<b>Lab Number [Field ID]</b>	<b>Batch</b>	<b>Initial [g]</b>	<b>Final [mL]</b>	<b>Date</b>
15K0630-03 [P3 Textured paint]	B135508	0.229	10.0	11/16/15
15K0630-04 [P4 Textured paint]	B135508	0.245	10.0	11/16/15

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**QUALITY CONTROL**

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B135507 - SW-846 3540C</b>										
<b>Blank (B135507-BLK1)</b>										
Prepared: 11/16/15 Analyzed: 11/19/15										
Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	3.90		mg/Kg	4.00		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.56		mg/Kg	4.00		88.9	30-150			
Surrogate: Tetrachloro-m-xylene	3.62		mg/Kg	4.00		90.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.47		mg/Kg	4.00		86.7	30-150			
<b>LCS (B135507-BS1)</b>										
Prepared: 11/16/15 Analyzed: 11/19/15										
Aroclor-1016	3.9	0.20	mg/Kg	4.00		97.4	40-140			
Aroclor-1016 [2C]	3.8	0.20	mg/Kg	4.00		94.7	40-140			
Aroclor-1260	4.0	0.20	mg/Kg	4.00		101	40-140			
Aroclor-1260 [2C]	3.7	0.20	mg/Kg	4.00		92.5	40-140			
Surrogate: Decachlorobiphenyl	4.04		mg/Kg	4.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.72		mg/Kg	4.00		93.0	30-150			
Surrogate: Tetrachloro-m-xylene	3.85		mg/Kg	4.00		96.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.65		mg/Kg	4.00		91.3	30-150			
<b>LCS Dup (B135507-BSD1)</b>										
Prepared: 11/16/15 Analyzed: 11/19/15										
Aroclor-1016	4.1	0.20	mg/Kg	4.00		104	40-140	6.26	30	
Aroclor-1016 [2C]	4.0	0.20	mg/Kg	4.00		99.9	40-140	5.34	30	
Aroclor-1260	4.4	0.20	mg/Kg	4.00		109	40-140	8.14	30	
Aroclor-1260 [2C]	3.9	0.20	mg/Kg	4.00		97.0	40-140	4.76	30	
Surrogate: Decachlorobiphenyl	4.23		mg/Kg	4.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.89		mg/Kg	4.00		97.1	30-150			
Surrogate: Tetrachloro-m-xylene	4.01		mg/Kg	4.00		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.79		mg/Kg	4.00		94.8	30-150			

**QUALITY CONTROL**

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B135508 - SW-846 3540C</b>										
<b>Blank (B135508-BLK1)</b>										
Prepared: 11/16/15 Analyzed: 11/18/15										
Aroclor-1016	ND	0.50	mg/Kg							
Aroclor-1016 [2C]	ND	0.50	mg/Kg							
Aroclor-1221	ND	0.50	mg/Kg							
Aroclor-1221 [2C]	ND	0.50	mg/Kg							
Aroclor-1232	ND	0.50	mg/Kg							
Aroclor-1232 [2C]	ND	0.50	mg/Kg							
Aroclor-1242	ND	0.50	mg/Kg							
Aroclor-1242 [2C]	ND	0.50	mg/Kg							
Aroclor-1248	ND	0.50	mg/Kg							
Aroclor-1248 [2C]	ND	0.50	mg/Kg							
Aroclor-1254	ND	0.50	mg/Kg							
Aroclor-1254 [2C]	ND	0.50	mg/Kg							
Aroclor-1260	ND	0.50	mg/Kg							
Aroclor-1260 [2C]	ND	0.50	mg/Kg							
Aroclor-1262	ND	0.50	mg/Kg							
Aroclor-1262 [2C]	ND	0.50	mg/Kg							
Aroclor-1268	ND	0.50	mg/Kg							
Aroclor-1268 [2C]	ND	0.50	mg/Kg							
Surrogate: Decachlorobiphenyl	9.60		mg/Kg	10.0		96.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	8.28		mg/Kg	10.0		82.8	30-150			
Surrogate: Tetrachloro-m-xylene	9.62		mg/Kg	10.0		96.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	8.26		mg/Kg	10.0		82.6	30-150			
<b>LCS (B135508-BS1)</b>										
Prepared: 11/16/15 Analyzed: 11/18/15										
Aroclor-1016	3.0	0.50	mg/Kg	2.50		121	40-140			
Aroclor-1016 [2C]	2.5	0.50	mg/Kg	2.50		98.2	40-140			
Aroclor-1260	2.8	0.50	mg/Kg	2.50		113	40-140			
Aroclor-1260 [2C]	2.5	0.50	mg/Kg	2.50		98.4	40-140			
Surrogate: Decachlorobiphenyl	10.7		mg/Kg	10.0		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	9.13		mg/Kg	10.0		91.3	30-150			
Surrogate: Tetrachloro-m-xylene	10.1		mg/Kg	10.0		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	8.53		mg/Kg	10.0		85.3	30-150			
<b>LCS Dup (B135508-BSD1)</b>										
Prepared: 11/16/15 Analyzed: 11/18/15										
Aroclor-1016	2.8	0.50	mg/Kg	2.50		113	40-140	6.81	30	
Aroclor-1016 [2C]	2.3	0.50	mg/Kg	2.50		90.9	40-140	7.77	30	
Aroclor-1260	2.6	0.50	mg/Kg	2.50		104	40-140	8.05	30	
Aroclor-1260 [2C]	2.2	0.50	mg/Kg	2.50		89.3	40-140	9.64	30	
Surrogate: Decachlorobiphenyl	9.75		mg/Kg	10.0		97.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	8.32		mg/Kg	10.0		83.2	30-150			
Surrogate: Tetrachloro-m-xylene	9.70		mg/Kg	10.0		97.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	8.17		mg/Kg	10.0		81.7	30-150			





**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

<b>LCS</b>
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Lab Sample ID:                     B135508-BS1                                          Date(s) Analyzed:           11/18/2015                     11/18/2015          

Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	3.0	
	2	0.00	0.00	0.00	2.5	19
Aroclor-1260	1	0.00	0.00	0.00	2.8	
	2	0.00	0.00	0.00	2.5	12



---

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

**FLAG/QUALIFIER SUMMARY**

- \* QC result is outside of established limits.
  - † Wide recovery limits established for difficult compound.
  - ‡ Wide RPD limits established for difficult compound.
  - # Data exceeded client recommended or regulatory level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
- No results have been blank subtracted unless specified in the case narrative section.
- O-32 A dilution was performed as part of the standard analytical procedure.

**CERTIFICATIONS****Certified Analyses included in this Report**

<b>Analyte</b>	<b>Certifications</b>
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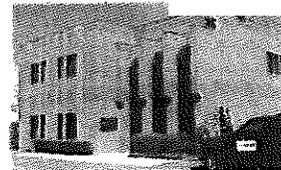
**No certified Analyses included in this Report**

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016



39 Spruce St.  
 East Longmeadow, MA. 01028  
 P: 413-525-2332  
 F: 413-525-6405  
 www.contestlabs.com



### Sample Receipt Checklist

CLIENT NAME: Weston Sampson RECEIVED BY: RLF DATE: 11/13/15

- 1) Was the chain(s) of custody relinquished and signed? Yes  No  No CoC Included
- 2) Does the chain agree with the samples? Yes  No   
 If not, explain: \_\_\_\_\_
- 3) Are all the samples in good condition? Yes  No   
 If not, explain: \_\_\_\_\_

4) How were the samples received:

On Ice  Direct from Sampling  Ambient  In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)? Yes  No  N/A

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 3.2°C

5) Are there Dissolved samples for the lab to filter? Yes  No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes  No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored: \_\_\_\_\_



Permission to subcontract samples? Yes No  
 (Walk-in clients only) if not already approved  
 Client Signature: \_\_\_\_\_

8) Do all samples have the proper Acid pH: Yes No N/A \_\_\_\_\_

9) Do all samples have the proper Base pH: Yes No N/A \_\_\_\_\_

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz <u>amber</u> /clear jar	4
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl \_\_\_\_\_ # Methanol \_\_\_\_\_  
 # Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_  
 # Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen:

**Login Sample Receipt Checklist**  
 (Rejection Criteria Listing - Using Sample Acceptance Policy)  
 Any False statement will be brought to the attention of Client

Question	Answer (True/False)		Comment
	T	F/NA	
1) The cooler's custody seal, if present, is intact.	T		
2) The cooler or samples do not appear to have been compromised or tampered with.	T		
3) Samples were received on ice.	T		
4) Cooler Temperature is acceptable.	T		
5) Cooler Temperature is recorded.	T		
6) COC is filled out in ink and legible.	T		
7) COC is filled out with all pertinent information.	T		
8) Field Sampler's name present on COC.	T		
9) There are no discrepancies between the sample IDs on the container and the COC.	T		
10) Samples are received within Holding Time.	T		
11) Sample containers have legible labels.	T		
12) Containers are not broken or leaking.	T		
13) Air Cassettes are not broken/open.	NA		
14) Sample collection date/times are provided.	T		
15) Appropriate sample containers are used.	T		
16) Proper collection media used.	T		
17) No headspace sample bottles are completely filled.	T		
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T		
19) Trip blanks provided if applicable.	NA		
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA		
21) Samples do not require splitting or compositing.	T		

**Doc #277 Rev. 4 August 2013**     
 Who notified of False statements?     
 Date/Time:   
 Log-In Technician Initials:     
 Date/Time:   
RLT 11/13/15 1830



# EMSL Analytical, Inc.

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Tel/Fax: (781) 933-8411 / (781) 933-8412  
<http://www.EMSL.com / bostonlab@emsl.com>

EMSL Order: 131506643  
Customer ID: WESA62  
Customer PO:  
Project ID:

**Attention:** Craig Miner  
Weston & Sampson Engineers, Inc.  
5 Centennial Drive  
Peabody, MA 01960

**Phone:** (978) 532-1900  
**Fax:** (978) 977-0100  
**Received Date:** 11/10/2015 3:45 PM  
**Analysis Date:** 11/11/2015  
**Collected Date:** 11/ 9/2015

**Project:** 206 Main Gloucester

## 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
01A <small>131506643-0001</small>	CERAMIC TILE GROUT AROUND BAR	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01B <small>131506643-0002</small>	CERAMIC TILE GROUT AROUND BAR	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02A <small>131506643-0003</small>	RESIDUAL CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02B <small>131506643-0004</small>	RESIDUAL CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02C <small>131506643-0005</small>	RESIDUAL CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02D <small>131506643-0006</small>	PAPER UNDER WOOD FLOOR	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03A <small>131506643-0007</small>	PAPER UNDER WOOD FLOOR	Tan Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
03B <small>131506643-0008</small>	PAPER UNDER WOOD FLOOR	Tan Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
04A <small>131506643-0009</small>	TEXTURED WALL PAINT CENTER WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04B <small>131506643-0010</small>	TEXTURED WALL PAINT CENTER WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04C <small>131506643-0011</small>	TEXTURED WALL PAINT CENTER WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05A <small>131506643-0012</small>	RED 12X12 FLOOR TILE CENTER	Red Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
05B <small>131506643-0013</small>	RED 12X12 FLOOR TILE CENTER				Stop Positive (Not Analyzed)
06A <small>131506643-0014</small>	RED 12X12 FLOOR TILE MASTIC CENTER	Black Non-Fibrous Homogeneous	5% Cellulose	90% Non-fibrous (Other)	5% Chrysotile
06B <small>131506643-0015</small>	RED 12X12 FLOOR TILE MASTIC CENTER				Stop Positive (Not Analyzed)
07A <small>131506643-0016</small>	CERAMIC TILE GROUT CENTER RIGHT REAR	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected



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EMSL Order: 131506643  
Customer ID: WESA62  
Customer PO:  
Project ID:

## 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
07B <small>131506643-0017</small>	CERAMIC TILE GROUT CENTER RIGHT REAR	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08A <small>131506643-0018</small>	PEBBLE LINOLEUM UNDER CERAMIC CENTER NEAR BR	Tan Fibrous Homogeneous		70% Non-fibrous (Other)	30% Chrysotile
08B <small>131506643-0019</small>	PEBBLE LINOLEUM UNDER CERAMIC CENTER NEAR BR				Stop Positive (Not Analyzed)
09A <small>131506643-0020</small>	PIPE INSULATION BASEMENT	Gray Fibrous Homogeneous		20% Non-fibrous (Other)	80% Chrysotile
09B <small>131506643-0021</small>	PIPE INSULATION BASEMENT				Stop Positive (Not Analyzed)
09C <small>131506643-0022</small>	PIPE INSULATION BASEMENT				Stop Positive (Not Analyzed)
10A <small>131506643-0023</small>	TRANSITE BASEMENT	Gray Fibrous Homogeneous		75% Non-fibrous (Other)	25% Chrysotile
10B <small>131506643-0024</small>	TRANSITE BASEMENT				Stop Positive (Not Analyzed)
11A <small>131506643-0025</small>	FELTONCORK BASEMENT OLD REEFER UNIT	Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
11B <small>131506643-0026</small>	FELTONCORK BASEMENT OLD REEFER UNIT	Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
12A <small>131506643-0027</small>	WIRING INSULATION	Tan/White Fibrous Homogeneous	70% Cellulose 10% Glass	20% Non-fibrous (Other)	None Detected
12B <small>131506643-0028</small>	WIRING INSULATION	Tan/White Fibrous Homogeneous	3% Cellulose 60% Glass	37% Non-fibrous (Other)	None Detected
13A <small>131506643-0029</small>	BROWN COVE BASE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13B <small>131506643-0030</small>	BROWN COVE BASE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14A <small>131506643-0031</small>	BROWN COVE BASE MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14B <small>131506643-0032</small>	BROWN COVE BASE MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15A <small>131506643-0033</small>	WALLPANEL MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15B <small>131506643-0034</small>	WALLPANEL MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
DUP1 <small>131506643-0035</small>	WALLPANEL MASTIC	Tan Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected



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EMSL Order: 131506643  
Customer ID: WESA62  
Customer PO:  
Project ID:

## 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
16A <small>131506643-0036</small>	SHEETROCK	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16B <small>131506643-0037</small>	SHEETROCK	Tan/White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
17A <small>131506643-0038</small>	JOINT COMPOUND	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17B <small>131506643-0039</small>	JOINT COMPOUND	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18A <small>131506643-0040</small>	2X2 CEILING TILE TYPE 1	Gray Fibrous Homogeneous	60% Cellulose 20% Min. Wool	20% Non-fibrous (Other)	None Detected
18B <small>131506643-0041</small>	2X2 CEILING TILE TYPE 1	Gray Fibrous Homogeneous	60% Cellulose 20% Min. Wool	20% Non-fibrous (Other)	None Detected
19A <small>131506643-0042</small>	2X2 CEILING TILE TYPE 2	Gray Fibrous Homogeneous	60% Cellulose 20% Min. Wool	20% Non-fibrous (Other)	None Detected
19B <small>131506643-0043</small>	2X2 CEILING TILE TYPE 2	Gray Fibrous Homogeneous	60% Cellulose 20% Min. Wool	20% Non-fibrous (Other)	None Detected
20A <small>131506643-0044</small>	ROOFFIELD TARS/FELTS	Black Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
20B <small>131506643-0045</small>	ROOFFIELD TARS/FELTS				Stop Positive (Not Analyzed)
21A <small>131506643-0046</small>	ROOF FLASHING TARS/FELTS	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
21B <small>131506643-0047</small>	ROOF FLASHING TARS/FELTS				Stop Positive (Not Analyzed)
22A <small>131506643-0048</small>	STUCCO ON ROOF WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22B <small>131506643-0049</small>	STUCCO ON ROOF WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22C <small>131506643-0050</small>	STUCCO ON ROOF WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
X22A <small>131506643-0051</small>	BLACK ROOF CAULK	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
X22B <small>131506643-0052</small>	BLACK ROOF CAULK	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23A <small>131506643-0053</small>	GRAY ROOF CAULKING	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
23B <small>131506643-0054</small>	GRAY ROOF CAULKING				Stop Positive (Not Analyzed)

Initial Report From: 11/11/2015 13:32:41



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EMSL Order: 131506643  
Customer ID: WESA62  
Customer PO:  
Project ID:

## 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
24A <small>131506643-0055</small>	ROOF HVAC COVERING	Black Fibrous Homogeneous	10% Cellulose 10% Glass	80% Non-fibrous (Other)	None Detected
24B <small>131506643-0056</small>	ROOF HVAC COVERING	Black Fibrous Homogeneous	10% Cellulose 10% Glass	80% Non-fibrous (Other)	None Detected
25A <small>131506643-0057</small>	WINDOW CAULK	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25B <small>131506643-0058</small>	WINDOW CAULK	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s) \_\_\_\_\_  
Kevin Pine (49)

  
\_\_\_\_\_  
Alexander Maxinoski, Asbestos Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Woburn, MA NVLAP Lab Code 101147-0, CT PH-0315, MA AA000188, RI AAL-107T3, VT AL998919, Maine Bulk Asbestos BA039

Initial Report From: 11/11/2015 13:32:41



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

131506643

PHONE:  
FAX:

Company Name : Weston & Sampson		EMSL Customer ID:	
Street: 5 Centennial Dr, Peabody, MA		City:	State/Province:
Zip/Postal Code: 01960	Country:	Telephone #:	Fax #:
Report To (Name): Craig Miner		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Email Address: miner@c@wseinc.com		Purchase Order:	
Project Name/Number: 206 Main Gloucester		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: MA		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>			
<b>Turnaround Time (TAT) Options* - Please Check</b>			
<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 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: 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 <small>*Can not accept New York State Loose Fill Vermiculite Samples</small>	
<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: <i>Craig Miner</i>		Samplers Signature: <i>[Signature]</i>	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
01A-B	Ceramic tile Grout ground bar		
02A-D	Residual Carpet mastic		
03A-B	Paper under Wood Floor		
04A-C	Textured Wall Paint - Center wall	300 SF	
05A-B	Red 12 x 12 Floor tile - Center	100 SF	
06A-B	Mastic		
07A-B	Ceramic tile Grout - Center + Right side bar		
Client Sample # (s): 01A - 25B		Total # of Samples:	
Relinquished (Client): <i>[Signature]</i>		Date: 11-9-15	Time: 1545
Received (Lab):		Date:	Time:
Comments/Special Instructions:			



WI



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

**Asbestos Chain of Custody**

EMSL Order Number (Lab Use Only):

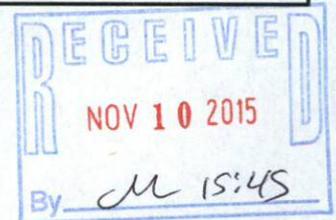
**131506643**

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
08A-B	Pebble linokum - <sup>under concrete center</sup> near brick wall	~250SF	
09A-C	Pipe Insulation - Basement	250LF	
10A-B	Transite Panel - Basement	80SF	
11A-B	Felton Cork - Basement old Reffer Unit	2 layer - 200SF	
12A-B	Wiring Insulation		
13A-B	Brown concrete base	40LF	
14A-B	1 Mastic	1	
15A-B	Wall Panel mastic	300SF	
DUP1	Replicate 1		
16A-B	Sheetrock		
17A-B	Joint compound		
18A-B	2x2 Ceiling tile - Type 1		
19A-B	1 - Type 2		
20A-B	Roof Field - Tars/Felts		
21A-A	Roof Flashing - Tars/Felts		
22A-C	Stucco on roof wall		
X22A-B	Black roof caulk		
23A-A	Gray roof caulk 1		
24A-B	Roof HVAC covering		
25A-B	Window caulk		

\*Comments/Special Instructions:



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

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

EMSL Order: 201513100

CustomerID: WESA62

CustomerPO:

ProjectID:

Attn: **Craig Miner**  
**Weston & Sampson Engineers, Inc.**  
**5 Centennial Drive**  
**Peabody, MA 01960**

Phone: (978) 532-1900  
 Fax: (978) 977-0100  
 Received: 11/11/15 10:30 AM  
 Collected:

Project: 206 Main St. Gloucester, MA

**Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)\***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
L1	201513100-0001 Site: Concrete Wall		11/12/2015	0.075 % wt
L2	201513100-0002 Site: Sheetrock Wall		11/12/2015	<0.010 % wt

Julie Smith - Laboratory Director  
 NJ-NELAP Accredited:03036  
 or other approved signatory

\*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 11/12/2015 11:39:52



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201513100

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Company: <u>Weston + Sampson</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street:		Third Party Billing requires written authorization from third party	
City: <u>Peabody</u>	State/Province: <u>MA</u>	Zip/Postal Code:	Country:
Report To (Name): <u>Craig Miner</u>		Telephone #:	
Email Address:		Fax #:	Purchase Order:
Project Name/Number: <u>206 Main St Gloucester</u>		Please Provide Results: <input type="checkbox"/> Fax <input type="checkbox"/> Email	
U.S. State Samples Taken: <u>MA</u>		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
<b>Turnaround Time (TAT) Options* - Please Check</b>			
<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>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>			
<b>Matrix</b>	<b>Method</b>	<b>Instrument</b>	<b>Reporting Limit</b>
<b>Chips</b> <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%
<b>Air</b>	NIOSH 7082	Flame Atomic Absorption	4 µg/filter
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter
<b>Wipe*</b> <input type="checkbox"/> ASTM non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe
	SW846-6010B or C	ICP-AES	1.0 µg/wipe
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe
<b>TCLP</b>	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)
<b>Soil</b>	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)
<b>Wastewater</b> <input type="checkbox"/> Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)
<b>Drinking Water</b> <input type="checkbox"/> Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)
<b>TSP/SPM Filter</b>	40 CFR Part 50	ICP-AES	12 µg/filter
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter
<b>Other:</b>			
Name of Sampler: <u>Craig Miner</u>		Signature of Sampler:	
<b>Sample #</b>	<b>Location</b>	<b>Volume/Area</b>	<b>Date/Time Sampled</b>
<u>L1</u>	<u>Concrete Wall</u>		
<u>L2</u>	<u>Sheetrock Wall</u>		
<b>Client Sample #'s</b>	<u>L1 - L2</u>	<b>Total # of Samples:</b>	<u>2</u>
<b>Relinquished (Client):</b>		<b>Date:</b>	<u>11-9-15</u>
<b>Received (Lab):</b>		<b>Date:</b>	<u>11/11/15</u>
<b>Comments:</b>		<b>Time:</b>	<u>1545</u>
		<b>Time:</b>	<u>1030am EMSL Redox</u>

**RECEIVED**  
 NOV 10 2015  
 By MS 15:45

## **Photo-Documentation Log**

206 Main St., Gloucester, Massachusetts

Weston & Sampson Project No. 2130191



Exterior front view



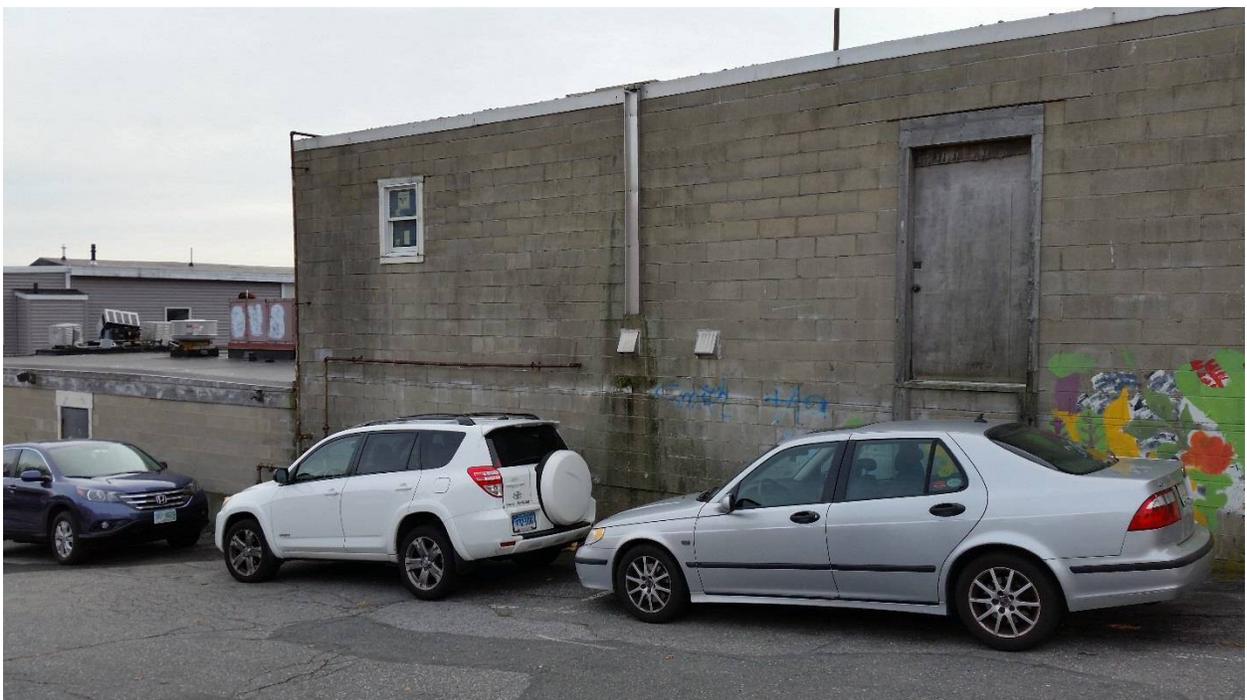
Exterior windows note lack of caulk

206 Main St., Gloucester, Massachusetts

Weston & Sampson Project No. 2130191



Exterior side



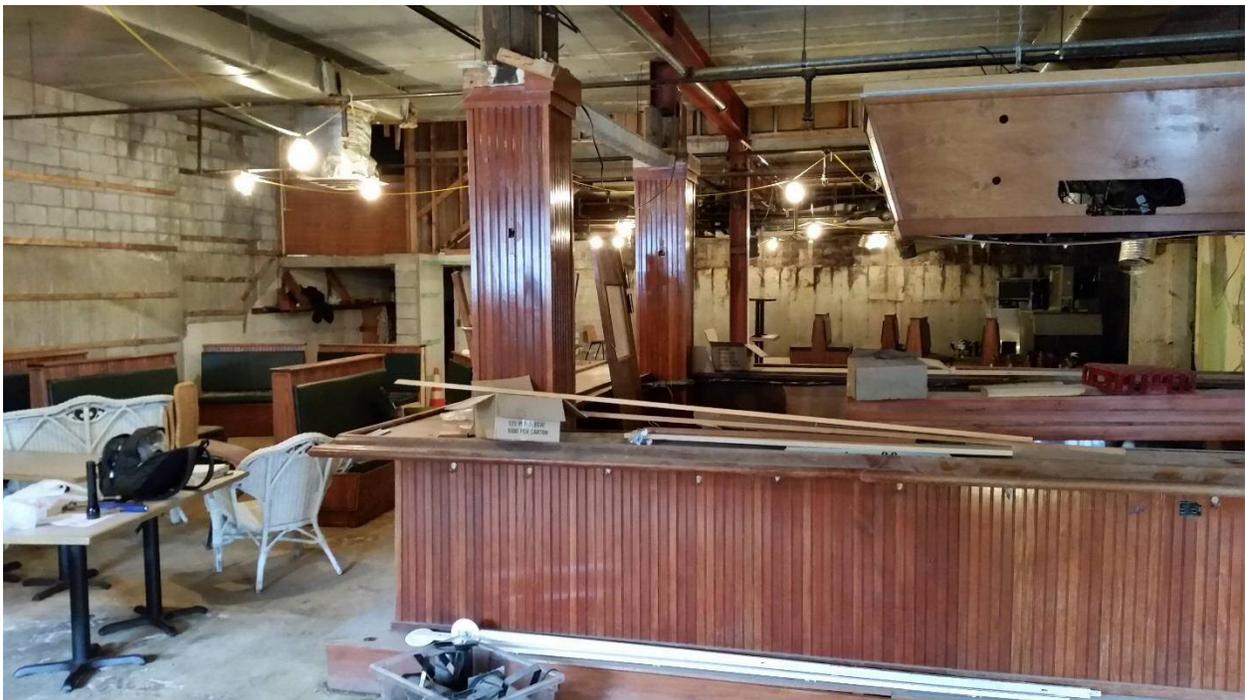
Exterior rear

206 Main St., Gloucester, Massachusetts

Weston & Sampson Project No. 2130191



Pipe insulation in basement crawlspace



General interior view

206 Main St., Gloucester, Massachusetts

Weston & Sampson Project No. 2130191



Interior view west to east



Interior east end

206 Main St., Gloucester, Massachusetts

Weston & Sampson Project No. 2130191



Linoleum concealed by wood flooring



Interior rear east end

206 Main St., Gloucester, Massachusetts

Weston & Sampson Project No. 2130191



Basement



Roof

**206 Main St., Gloucester, Massachusetts**

**Weston & Sampson Project No. 2130191**



Roof