

CITY OF BATTLE CREEK

ADDENDUM # 2 IFB# 2018-054B

TITLE: Clearing & Demolition of BCU Properties

ADDENDUM ISSUED: February 21, 2018

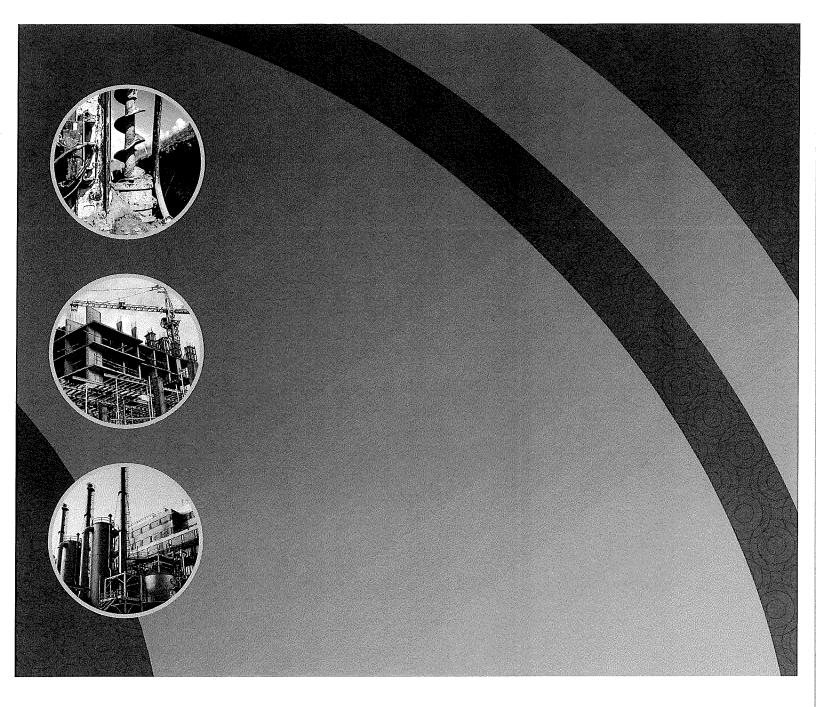
<u>NOTE!</u> City Hall now has Security on the 1st floor. Please allow extra time to get through Security when dropping off your bid.

The following changes, additions and deletions have been provided:

Add the attached asbestos reports for 207 Robertson and 4857 W. Columbia.

Due date and time remain the same.

This addendum must be acknowledged or your bid may be deemed non-responsive.



ASBESTOS AND LEAD-BEARING PAINT ASSESSMENT REPORT

207 ROBERTSON AVENUE BATTLE CREEK, MICHIGAN 49015

SME Project Number: 076030.00

March 13, 2017





3301 Tech Circle Drive Kalamazoo, MI 49008-5611

T (269) 323-3555

www.sme-usa.com

March 13, 2017

Mr. Joe Sobieralski Battle Creek TIFA 4950 W. Dickman Road Battle Creek, MI, 49016

RE:

Asbestos and Lead Bearing Paint Assessment

207 Robertson Avenue Battle Creek, MI, 49015 SME Project No. 075756.00

Dear Mr. Sobieralski:

We have completed an Asbestos and Lead Bearing Paint Assessment of the residential structure located at 207 Robertson Avenue, Battle Creek Michigan. Battle Creek Tax Increment Finance Authority (TIFA) requested the assessment prior to the planned demolition of the building. We appreciate this opportunity to provide these services for Battle Creek TIFA. Should you have questions concerning this report or require additional services, please contact us.

Sincerely,

SME

Anthony J. Hosbein COSISN Environmental Technician

Davin K. Ojala COSISN Senior Project Consultant

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PAINT CHIP SAMPLE CHAIN OF CUSTODY FORMS AND CERTIFICATES OF **ANALYSIS**

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EXECUTIVE SUMMARY

We completed an Asbestos and Lead Bearing Paint Assessment of the residential structure located at 207 Robertson Avenue in Battle Creek, Michigan, to assist with identification of asbestos-containing materials (ACMs), and lead-bearing paints prior to the planned demolition of the building. At the time of our assessment, the site was developed with a one-story, approximately 1,400 square-foot residential building, with a partial basement. The building was unoccupied at the time of the assessment.

The findings from the Asbestos and Lead Bearing Paint Assessment are summarized below. The summary presented below is general in nature and should not be considered apart from the entire text of the report, with all the qualifications and considerations mentioned herein. Details of our findings and conclusions are elaborated upon in this report.

FINDINGS AND CONCLUSIONS

ASBESTOS

We collected 46 samples from 18-suspected ACMs identified during the assessment. The results of laboratory analyses indicated that asbestos was not detected in the suspect ACMs analyzed.

Although not considered ACMs, "trace" levels of asbestos (less than 1% asbestos) was detected in the white joint compound of the wallboard wall system (HA1) located throughout the residence. Work involving materials with trace levels of asbestos is subject to additional engineering and work practices as required by the OSHA Asbestos Construction Standard.

We understand the building is planned to be demolished. A 10 working day (14 calendar days) notification to the Michigan Department of Environmental Quality-Air Quality Division (MDEQ-AQD) is required prior to demolition. Please note, the *Notification of Intent to Renovate/Demolish* form is required by the United States Environmental Protection Agency (USEPA) National Emission Standards for Hazardous Air Pollutants asbestos regulation (NESHAP, 40 CFR Part 61 M), and must be prepared and submitted to the MDEQ-AQD at least 10 working days prior to demolition of a building, regardless of whether or not ACMs are present in the building. The demolition contractor is responsible for submitting the notification prior to work activities that meet the definition of demolition.

LEAD-BEARING PAINTS

Lead was detected at concentrations above laboratory reporting limits in three, (P8, P9, and P10) of the 13 paint chip samples collected from the building. The OSHA Lead Exposure in Construction Standard (29 CFR Part 1926.62) is applicable to construction activities when lead is present regardless of their concentrations in the paints. If lead-bearing paints are subjected to demolition forces that may cause paint particles to become airborne, unacceptable levels of lead exposure to on-site personnel and environmental contamination could result. These paints could pose inhalation or ingestion exposure hazards if subjected to torch cutting, welding, and burning or if pulverized and converted to dust.

RECOMMENDATIONS

ASBESTOS

We recommend conducting work involving the "trace" asbestos materials in accordance with the requirements for unclassified asbestos work contained in the OSHA Asbestos Standard for Construction. Although not required by the standard, we also recommend the use of vacuums equipped with HEPA filtration to clean accumulations of dust and debris generated by unclassified asbestos work.

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We recommend proper notification to MDEQ-AQD prior to demolition of the building.

LEAD-BEARING PAINTS

We recommend conducting demolition activities in accordance with the OSHA Lead Exposure in Construction Standard.

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1. INTRODUCTION

We completed an Asbestos and Lead Bearing Paint Assessment of the residential structure located at 207 Robertson Avenue in Battle Creek, Michigan, to assist with identification of asbestos-containing materials (ACMs) and lead-bearing paints, prior to demolition of the building. At the time of our assessment, the site was developed with a one-story, approximately 1,400 square-foot residential building with a partial basement. The building was unoccupied at the time of the assessment.

We conducted the assessment to provide information to assist in complying with the United States Environmental Protection Agency (USEPA) requirements for inspection of buildings prior to renovation or demolition under the National Emission Standards for Hazardous Air Pollutants asbestos regulation (NESHAP, 40 CFR Part 61 M). The assessment services also provide information to assist in complying with the Occupational Safety and Health Administration (OSHA) Asbestos Construction Standard (29 CFR Part 1926.1101), and the OSHA Lead Exposure in Construction Standard (29 CFR Part 1926.62), regarding communication of hazards. The Michigan Occupational Safety and Health Administration (MIOSHA) adopted each of these OSHA standards by reference.

SME staff member Mr. Anthony Hosbein (Accreditation No. A37250) trained in accordance with the USEPA regulations and accredited under the requirements of Michigan Act 440 as an Inspector, conducted the field activities.

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2. VISUAL ASSESSMENT AND SAMPLING

On February 20, 2017, Mr. Hosbein toured the building and conducted a visual assessment to identify suspect ACMs and potential lead-bearing paints associated with the building.

2.1 SUSPECT ACMs

We observed 18 types of suspect ACMs, associated with the building. We assigned a unique homogeneous area number to each suspect ACM observed during the assessment. A homogenous area, as defined by the USEPA's Asbestos Hazard Emergency Response Act (AHERA, 40 CFR Part 763), is an area of thermal system insulation (TSI), surfacing material, or miscellaneous material that appears uniform in color and texture. According to USEPA and OSHA regulations, building materials that contain greater than one percent (1%) asbestos are considered ACMs.

Following the visual assessment, Mr. Hosbein collected 46 samples from the 18 suspect homogenous areas of ACMs in accordance with the USEPA's AHERA assessment protocol (40 CFR Part 763), which is also referenced by the OSHA regulations. A list of the suspect ACMs identified during the assessment, and a summary of the descriptions, ACM or non-ACM categorization, estimated quantity, friability, condition, and locations of the suspect ACMs are presented in Table 1.

We submitted the suspect ACM bulk samples to International Asbestos Testing Laboratories (IATL), a laboratory accredited by the National Institute of Standards and Technology (NIST) under the requirements of the National Voluntary Laboratory Accreditation Program (NVLAP), for asbestos analysis of the bulk samples via Polarized Light Microscopy (PLM). Samples found to contain less than ten percent (10%) asbestos via the visual estimation method of PLM were further verified via the "Point Count Method" as defined by the USEPA's AHERA regulation (40 CFR Part 763). The Chain-of-Custody forms and analytical data for the suspect asbestos samples are included in Appendix A of this report.

2.2 LEAD-BEARING PAINTS

We identified painted surfaces suspected to be lead-bearing coatings in the building and collected thirteen (13) chip samples of paint. We submitted the paint-chip samples to IATL, which is accredited by the American Industrial Hygiene Association (AIHA) Environmental Lead Laboratory Accreditation Program (ELLAP), for lead analysis of the paint chip samples via atomic absorption spectrophotometry (AAS). The Chain-of-Custody forms and analytical data for the paint chip samples are included in Appendix B of this report. A summary of the descriptions of lead-bearing paints, sample locations, and lead content of the paint chip samples are presented in Table 2.

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3. ANALYTICAL RESULTS AND RECOMMENDATIONS

Results from analyses of samples collected from suspect ACMs and potential lead-bearing paints are presented in the following subsections. The information presented below also includes information about assessment limitations, applicable regulations, and recommendations for managing ACMs and lead-bearing paints.

3.1 ASBESTOS

The PLM analytical data reported by IATL indicated asbestos was not detected in the suspect ACMs analyzed.

We understand the building is planned to be demolished. A 10 working day, (14 calendar days) notification to the Michigan Department of Environmental Quality-Air Quality Division (MDEQ-AQD) is required prior to demolition. Please note, the *Notification of Intent to Renovate/Demolish* form is required by the USEPA NESHAP asbestos regulation and must be prepared and submitted to the MDEQ-AQD at least 10 working days, prior to demolition of a building, regardless of whether or not ACMs are present in the building. The demolition contractor is responsible for submitting the notification prior to work activities that meet the definition of demolition.

3.1.1 MATERIALS CONTAINING TRACE ASBESTOS

Although not considered an ACM, detectable asbestos was present in the white joint compound of the wallboard wall system (HA1) observed throughout the residence. According to the OSHA Asbestos Construction Standard, work involving these materials is considered "unclassified" asbestos work. Unclassified asbestos work is subject to the engineering and work practice requirements contained within paragraphs (g)(1), g(2), and (g)(3) of the standard with the exception of (g)(1)(i). These requirements include: use of wetting agents and wet methods; prompt cleanup of waste and disposal of waste within leak-tight containers; use of local exhaust ventilation equipped with high-efficiency particulate air (HEPA) filtration; enclosure or isolation of the work area or process; and ventilation of the work area to move contaminated air from the breathing zone of employees towards the HEPA filtered ventilation source. Work involving this material may also be subject to other requirements contained within the standard including, but not limited to: exposure assessment/monitoring of personnel working with these materials, use of personal protective equipment, and hazard communication requirements.

We recommend conducting work involving the "trace" asbestos materials in accordance with the requirements for unclassified asbestos work contained in the OSHA Asbestos Standard for Construction. Although not required by the standard, we recommend the use of vacuums equipped with HEPA filtration to clean accumulations of dust and debris generated by unclassified asbestos work.

3.2 LEAD-BEARING PAINTS

Lead was detected at concentrations above the laboratory reporting limit in three, (P8, P9, and P10) of the thirteen (13) paint chip samples collected from the residence. The OSHA Lead Exposure in Construction Standard (29 CFR Part 1926.62) is applicable to construction activities when lead is present regardless of their concentrations in the paints. If lead-bearing paints are subjected to demolition forces that may cause paint particles to become airborne, unacceptable levels of lead exposure to on-site personnel and environmental contamination could result. These paints could pose inhalation or ingestion exposure hazards if subjected to torch cutting, welding, and burning or if pulverized and converted to dust.

If lead-bearing paints are to be removed by manual demolition of structural surfaces, manual scraping, manual sanding, heat gun applications, power tool cleaning, torch cutting, or welding, then the employees must be trained, and exposures must be assessed, in accordance with the OSHA Lead Exposure in

Construction Standard. When lead is present at any concentration, employers are required to assess their workers' exposures to airborne lead dust/fumes. The employer must perform an employee exposure assessment to determine if any employee is exposed at or above the action, level of 30 micrograms of lead per cubic meter (µg/m³), of air sampled calculated as a time-weighted average (TWA).

This exposure assessment is typically performed by conducting air monitoring in the workers' breathing zones during activities that would disturb surfaces containing lead. In lieu of air monitoring, OSHA allows employers to use other objective data to assess their workers' exposures. Until an exposure assessment is completed and results demonstrate that employee exposures are consistently below the action level, the employer must provide interim protection in accordance with the standard.

We recommend conducting demolition activities involving painted surfaces in accordance with the requirements of OSHA Lead Exposure in Construction Standard. We also recommend contractor personnel receive a minimum of two-hours lead awareness training prior to working at the site.

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4. LIMITATIONS

Our project team conducted limited destructive assessment of wall cavities, ceilings, floor surfaces, and other interstitial spaces within the building. We did not assess every wall cavity and ceiling space within the building or demolish floor surfaces. Additional ACMs may exist in concealed spaces that were not assessed. We recommend selective demolition to expose concealed spaces, such as these prior to initiation of demolition activities to assess for the presence of ACMs. If suspect ACMs are encountered during demolition activities for which no analytical data exists, we recommend the material(s) remain undisturbed until the asbestos content of the material(s) are determined, or be assumed to contain asbestos and handled in accordance with USEPA and OSHA regulations.

The quantities presented in our report are intended to be "Order of Magnitude" estimates and the estimated quantities and other information in this report should not be used as an exclusive source of information for bid formulation or for notification to regulatory agencies.

Laboratory descriptions of materials analyzed by PLM method for asbestos content were based upon the microscopists' perceptions of bulk samples that were pulverized and prepared with dispersion oils for PLM analysis. Due to the preparation of the sampled materials and the minute level of observation by the laboratory personnel, the descriptions on the Certificates of Analysis may not match the sample descriptions recorded by our project team in the field. Our sample descriptions and locations should be used to identify materials that were sampled and our sample numbers should be used to correlate analytical results for the sampled materials.

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5. GENERAL COMMENTS

We based the conclusions and recommendations submitted in this report upon the scope of services noted herein. In the process of obtaining the field information presented in this report, we followed procedures that represent reasonable and accepted industrial hygiene practices and principles, in a manner consistent with that level of care and skill ordinarily exercised by members of this profession currently practicing under similar conditions. We understand Battle Creek TIFA will rely upon the professional opinions and representations contained in this report. However, the information and opinions contained within this report are not to be construed a warranty of the conditions of this site in any way, implied or explicit. No other party may rely upon our opinions, conclusions or reports unless we have agreed to such reliance in writing.

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TABLES

TABLE 1: ASBESTOS BULK SAMPLING RESULTS

TABLE 2: PAINT CHIP SAMPLING RESULTS

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TABLE 1

ASBESTOS BULK SAMPLING RESULTS 207 ROBERTSON AVENUE, BATTLE CREEK, MICHIGAN SME Project Number: 076030.00

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY**	FRIABLE/ NONFRIABLE	CONDITION***	LOCATION
	Wallboard wall system					
1	Wallboard	NON-ACM*	3,000 sq. ft.	Nonfriable	Good	Throughout
	Joint compound	NON-ACM*				
	Wallboard ceiling system					
2	Wallboard	NON-ACM	1,400 sq. ft.	Nonfriable	Good	Throughout
	Joint compound	NON-ACM				
3	Vinyl sheet flooring, brown with squares and rectangles	NON-ACM	600 sq. ft.	Nonfriable	Good	Living room, kitchen, bathroom and south foyer
4	Vinyl sheet flooring, beige with 8" squares	NON-ACM	40 sq. ft.	Nonfriable	Good	East foyer
5	Bathroom fixture caulk, white	NON-ACM	1 sq. ft.	Nonfriable	Good	Bathroom
6	Textured surfacing on walls, white with bubbles	NON-ACM	900 sq. ft.	Nonfriable	Good	Living room and south foyer
7.	Textured surfacing on ceilings, white with bubbles	NON-ACM	425 sq. ft.	Nonfriable	Good	Living room, south foyer, southeast bedroom and east bedroom
8	Textured surfacing on ceilings, white troweled pattern	NON-ACM	450 sq. ft.	Nonfriable	Good	Dining room and northeast bedroom
9	Grout, associated with 4" white ceramic tile	NON-ACM	NQ	Nonfriable	Good	Kitchen, along west wall

TABLE 1

ASBESTOS BULK SAMPLING RESULTS 207 ROBERTSON AVENUE, BATTLE CREEK, MICHIGAN SME Project Number: 076030.00

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY**	FRIABLE/ NONFRIABLE	CONDITION***	LOCATION
10	Mortar, outer foundation wall	NON-ACM	NQ	Nonfriable	Good	Outer foundation wall
11	Mortar, inner foundation wall	NON-ACM	NQ	Nonfriable	Good	Inner foundation wall
12	Mortar, chimney block	NON-ACM	NQ	Nonfriable	Good	Chimney
13	Roofing system Shingles, black	NON-ACM	24 sq. ft.	Nonfriable	Good	Well house, east half
14	Roofing system Shingles, tan	NON-ACM	24 sq. ft.	Nonfriable	Good	Well house, west half
15	Roofing system Shingles, black	NON-ACM	150 sq. ft.	Nonfriable	Good	Shed
16	Roofing system Shingles, black	NON-ACM	1,550 sq. ft.	Nonfriable	Good	House
17	Roofing system Shingles, grey	NON-ACM	50 sq. ft.	Nonfriable	Good	Small section of roof in valley on west side of house
18	Vinyl sheet flooring, white Yellow mastic	NON-ACM	300 sq. ft.	Nonfriable	Good	Kitchen, bathroom, south foyer, (beneath HA3) and east foyer (beneath HA4)

NOTES:

HA = Homogenous Area.

ACM = Asbestos Containing Material.

 $\label{eq:Friable} \textit{Friable} = \textit{Material that can be crumbled or reduced to powder by hand pressure.} \\ \textit{NQ} = \textit{Not Quantified}$

- sq. ft. = square feet

 * = Trace asbestos (less than 1% asbestos) present.

 ** = Estimate of visible, accessible materials. Additional quantities and materials may be present in concealed spaces not assessed.

 *** = Material condition as defined in AHERA, 40 CFR Part 763.

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TABLE 2

PAINT CHIP SAMPLING RESULTS 207 ROBERTSON AVENUE, BATTLE CREEK, MICHIGAN SME Project Number: 076030.00

PAINT CHIP#	MATERIAL DESCRIPTION / LOCATION	LEAD % BY WEIGHT
P1	Grey/Exterior, East wooden porch	<0.0075
P2	White/Exterior, South wooden porch	<0.0073
P3	Black/Exterior, South wooden porch and house trim	<0.0071
P4	White/Interior, Throughout on wallboard walls and ceilings	<0.0088
P5	Purple/Interior, Northeast bedroom wallboard walls	<0.0077
P6	Pink/Interior, Northwest bedroom wallboard walls	<0.0055
P7	Red/Interior, Basement, HVAC duct in north portion	<0.0071
P8	Yellow/Interior, Basement, HVAC duct in north portion	0.020
P9	Blue/Interior, Basement, HVAC duct in north portion	0.0099
P10	Green/Interior, Basement, HVAC duct in north portion	0.036
P11	Beige/Interior, Bathroom wallboard walls	<0.0071
P12	Grey/Interior, Throughout north portion of basement on block walls	<0.0046
P13	Grey/Interior, North portion of basement, concrete floors	<0.0072

NOTES:

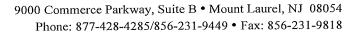
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^{* =} matrix/substrate interference possible

APPENDIX A

ASBESTOS SAMPLE CHAIN OF CUSTODY FORMS AND CERTIFICATES OF ANALYSIS

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Chain of Custody -Bulk Ashestos -

-Bulk Aspesios -					
Contact Informa	ation_				
Client Company:	SME	_ Project Number:	076030.00		
Office Address:	3301 TECH CIRCLE DRIVE	Project Name:	207 ROBERTSON		
City, State, Zip:	KALAMAZOO, MICHIGAN	Primary Contact:	ANTHONY HOSBEIN		
Fax Number:	269-323-3553	Office Phone:	269-323-3555		
Email Address:	hosbein@sme-usa.com	- Cell Phone:	616-835-2298		
PLM Instructions: PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993 PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982 PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002 PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002 PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009 PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009 PLM: Point Counting PC: via ELAP 198.1 PC: via ELAP 198.1 PC: 400 Points PC: 800 Points * PC: 1600 Points * PLM: Instructions for Multi-Layered Samples Analyze and Report All Separable Layers per EPA 600 Report Composite for Drywall Systems per NESHAP Report All Layers and Composite Where Applicable Only Analyze and Report Specifically Noted Layer Special Instructions: * Additional charge and turnaround may be required * Addentional charge and turnaround may be required * Addentional charge and turnaround may be required * Additional charge and turnaround may be required					
Turnaround Time Preliminary Results Requested Date: 2-28-17 3:00pm Specific date / time 10 Day 5 Day 3 Day 2 Day 1 Day* 1 12 Hour** 6 Hour** RUSH** * End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***					
Chain of Custo Relinquished (Name, Received (Name / iA Sample Login (Name, Analysis(Name(s) / i QA/QC Review (Name, Archived / Released:	/Organization): ANTHONY HOSBEIN TL): e / iATL): ATL): me / iATL):	Date: 2-20-17 Date: Date	Time: 5:00PM Time: Time: Time: Time: Time:		



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Soil and Materials Engineers-995 Client:

3301 Tech Circle Drive

Kalamazoo MI 49008

Client: SOI995

Report Date: 2/27/2017

Report No.:

530200 - PLM

Project:

207 Robertson Ave, Battle Creek, MI

Project No .:

076030.00

PLM BUILK SAMPLE ANALYSIS SUMMARY

6159976 Lab No.:

Client No.: HA1-A

Percent Asbestos: None Detected

Lab No.: 6159976(L2)

Client No.: HA1-A

Percent Asbestos:

None Detected

Lab No.: 6159977 Client No.: HA1-B

Percent Asbestos:

None Detected

Lab No.:

6159977(L2) Client No.: HA1-B

Percent Asbestos:

None Detected

Lab No.: 6159977(L3) Client No.: HA1-B

Percent Asbestos: None Detected

Lab No.: 6159978

Percent Asbestos:

Client No.: HA1-C

None Detected

Description: White/Brown Sheetrock

Facility:

Percent Non-Asbestos Fibrous Material:

12 Cellulose

Description: White Woven Joint Compound

Facility:

Percent Non-Asbestos Fibrous Material: 10 Fibrous Glass

Description: White/Brown Sheetrock

Facility:

Percent Non-Asbestos Fibrous Material:

12 Cellulose

Description: White Woven Joint Compound

Facility:

Percent Non-Asbestos Fibrous Material:

10 Fibrous Glass

Description: Off-White Tape

Facility:

Percent Non-Asbestos Fibrous Material:

95 Cellulose

Description: White/Brown Sheetrock

Facility:

Percent Non-Asbestos Fibrous Material:

10 Cellulose

Location: Closet, Southeast Bedroom

Percent Non-Fibrous Material:

Location: Closet, Southeast Bedroom

Percent Non-Fibrous Material:

90

Location: Closet, East Bedroom

Percent Non-Fibrous Material:

88

Location: Closet, East Bedroom

Percent Non-Fibrous Material:

90

Location: Closet, East Bedroom

Percent Non-Fibrous Material:

Location: Closet, Dining Room

Percent Non-Fibrous Material:

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

2/21/2017

Date Analyzed:

02/27/2017

Signature:

Analyst:

Linda Price

Approved By:



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive

Kalamazoo MI 49008

Client: SOI995

Report Date: 2/27/2017

Report No.:

530200 - PLM

Project:

207 Robertson Ave, Battle Creek, MI

Project No .:

076030.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6159978(L2)

Client No.: HA1-C

Description: White Woven Joint Compound

Facility:

Percent Non-Asbestos Fibrous Material:

10 Fibrous Glass

Location: Closet, Dining Room

Percent Non-Fibrous Material:

6159979 Lab No.:

Client No.: HA1-D

Percent Asbestos:

None Detected

Percent Asbestos: None Detected

6159979(L2) Lab No.:

Client No.: HA1-D

Percent Asbestos:

PC Trace Chrysotile

Lab No.: 6159980

Client No.: HA1-E Percent Asbestos:

None Detected

6159980(L2) Lab No.: Client No.: HA1-E

Percent Asbestos:

PC 0.25 Chrysotile

6159980(L3) Lab No.: Client No.: HA1-E

Percent Asbestos:

PC Trace Chrysotile

Description: White/Brown Sheetrock Facility:

Percent Non-Asbestos Fibrous Material:

10 Cellulose

Description: White Joint Compound

Facility:

Percent Non-Asbestos Fibrous Material:

None Detected

Description: White/Brown Sheetrock

Facility:

Percent Non-Asbestos Fibrous Material:

10 Cellulose

Description: White Joint Compound

Facility:

Percent Non-Asbestos Fibrous Material: None Detected

Description: Composite

Facility:

Percent Non-Asbestos Fibrous Material:

8 Cellulose

Location: Closet, Northeast Bedroom

Percent Non-Fibrous Material:

Location: Closet, Northeast Bedroom

Percent Non-Fibrous Material:

Location: Closet, Northwest Bedroom

Percent Non-Fibrous Material:

Location: Closet, Northwest Bedroom

Percent Non-Fibrous Material:

99.75

Location: Closet, Northwest Bedroom

Percent Non-Fibrous Material:

99.75

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

2/21/2017 02/27/2017

Date Analyzed:

Signature:

Analyst:

Linda Price

Approved By:



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive

Kalamazoo MI 49008

Client: SOI995

Report Date: 2/27/2017

Report No.:

530200 - PLM

Project:

207 Robertson Ave, Battle Creek, MI

076030.00 Project No.:

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6159981

Description: White/Brown Sheetrock

Location: Northwest Bedroom, Southeast Corner

Client No.: HA2-A

Percent Asbestos:

None Detected

Facility: Percent Non-Asbestos Fibrous Material:

Percent Non-Fibrous Material:

12 Cellulose

Lab No.: 6159981(L2)

Client No.: HA2-A

Description: White Woven Joint Compound

Location: Northwest Bedroom, Southeast Corner

Percent Asbestos: None Detected Facility:

Percent Non-Asbestos Fibrous Material:

10 Fibrous Glass

Percent Non-Fibrous Material:

Lab No.: 6159982

Client No.: HA2-B

Description: White/Brown Sheetrock

Facility:

Location: Northwest Bedroom, Northwest Corner

Percent Asbestos:

Percent Non-Asbestos Fibrous Material:

12 Cellulose

Percent Non-Fibrous Material:

None Detected

Lab No.:

6159982(L2)

Description: White Woven Joint Compound

Location: Northwest Bedroom, Northwest Corner

Client No.: HA2-B Percent Asbestos:

None Detected

Facility:

Percent Non-Asbestos Fibrous Material:

10 Fibrous Glass

Percent Non-Fibrous Material:

Lab No.: 6159983

Client No.: HA2-C

Description: White/Brown Sheetrock

Facility:

Location: Bathroom, Along East Wall

Percent Asbestos:

Percent Non-Asbestos Fibrous Material:

Percent Non-Fibrous Material:

10 Cellulose

None Detected

Description: White Joint Compound

6159983(L2) Lab No.: Client No.: HA2-C

Location: Bathroom, Along East Wall

Percent Asbestos:

None Detected

Facility:

Percent Non-Fibrous Material:

Percent Non-Asbestos Fibrous Material: None Detected

100

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

2/21/2017

Date Analyzed:

02/27/2017

Signature:

Analyst:

Linda Price

Approved By:



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive

Kalamazoo MI 49008

Client: SOI995

Report Date: 2/27/2017

Report No.:

530200 - PLM

Project:

207 Robertson Ave, Battle Creek, MI

Project No .: 076030.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Location: Kitchen, Along West Wall **Lab No.:** 6159984 **Description:** White/Brown Sheetrock

Client No.: HA2-D Facility:

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

12 Cellulose None Detected

Description: White Joint Compound Location: Kitchen, Along West Wall Lab No.: 6159984(L2)

Facility: Client No.: HA2-D

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

None Detected None Detected

Location: Kitchen, Along East Wall **Description:** White/Brown Sheetrock

Lab No.: 6159985 Facility: Client No.: HA2-E

Percent Non-Fibrous Material:

Percent Asbestos:

Percent Non-Asbestos Fibrous Material: 10 Cellulose None Detected

Trace Fibrous Glass

Description: Brown/Grey/White Vinyl Sheet Location: South Foyer, Northwest Corner Lab No.: 6159986

Flooring Client No.: HA3-A Facility:

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

10 Cellulose None Detected

2 Fibrous Glass

Location: Living Room, Along North Wall Description: Brown/Grey/White Vinyl Sheet Lab No.: 6159987

Flooring Client No.: HA3-B

Facility:

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

10 Cellulose None Detected

2 Fibrous Glass

Description: Brown/Grey Vinyl Sheet Flooring Location: Bathroom, Southwest Corner Lab No.: 6159988

Facility: Client No.: HA3-C

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

15 Cellulose None Detected

5 Fibrous Glass

Analytical Method - US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

2/21/2017 Approved By: Date Received:

02/27/2017 Date Analyzed:

Signature: Linda Price Analyst:



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive

Kalamazoo MI 49008

Client: SOI995

Percent Asbestos:

None Detected

Report Date: 2/27/2017

Report No.:

530200 - PLM

Project:

207 Robertson Ave, Battle Creek, MI

Location: East Foyer, North Wall

Project No.:

076030.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Location: Doorway At East Entrance **Lab No.:** 6159989 **Description:** Tan/White Vinyl Sheet Flooring Facility: Client No.: HA4-A

> Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material:

15 Cellulose

Description: Tan/White Vinyl Sheet Flooring **Lab No.:** 6159990

Client No.: HA4-B Facility:

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

15 Cellulose None Detected

Location: Bathroom Sink **Description:** White Caulk Lab No.: 6159991

Facility: Client No.: HA5-A

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

None Detected None Detected

Location: Bathroom Sink Lab No.: 6159992 **Description:** White Caulk

Client No.: HA5-B Facility:

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

None Detected None Detected

Location: Living Room, Northwest Corner **Description:** White Wall Texture Lab No.: 6159993

Facility: Client No.: HA6-A

Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material: Percent Asbestos:

None Detected None Detected

Description: White Wall Texture Lab No.: 6159994

Facility: Client No.: HA6-B

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos: 100

None Detected None Detected

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

2/21/2017

Date Analyzed:

02/27/2017

Signature:

Analyst:

Linda Price

Approved By:

Location: Southeast Bedroom, Northwest Corner



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive

Kalamazoo MI 49008

Client: SOI995

2/27/2017 Report Date:

Report No.:

530200 - PLM

Project:

207 Robertson Ave, Battle Creek, MI

Location: Living Room, Northwest Corner

Location: Southeast Bedroom, Northwest Corner

Location: East Bedroom, Northwest Corner

Project No.:

076030.00

Location: South Foyer, Closet

Percent Non-Fibrous Material:

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6159995 Client No.: HA6-C

Percent Asbestos:

None Detected

Percent Asbestos:

None Detected

Lab No.: 6159996 Client No.: HA7-A

Percent Non-Asbestos Fibrous Material:

Facility:

Percent Non-Asbestos Fibrous Material:

None Detected

Lab No.: 6159997 Client No.: HA7-B

Percent Asbestos: None Detected

Lab No.: 6159998

Client No.: HA7-C

Percent Asbestos:

None Detected

Lab No.: 6159999

Client No.: HA8-A

Percent Asbestos: None Detected

Lab No.: 6160000 Client No.: HA8-B

Percent Asbestos:

None Detected

Description: White Wall Texture

Facility:

None Detected

Description: White Ceiling Texture

Description: White Ceiling Texture

Facility:

Percent Non-Asbestos Fibrous Material:

None Detected

Description: White Ceiling Texture

Facility:

Percent Non-Asbestos Fibrous Material:

None Detected

Description: White Ceiling Texture

Facility:

Percent Non-Asbestos Fibrous Material:

None Detected

Description: White Ceiling Texture

Facility:

Percent Non-Asbestos Fibrous Material:

None Detected

Location: Dining Room, East Half

Location: Dining Room, West Half

Percent Non-Fibrous Material:

100

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

2/21/2017

Date Analyzed:

02/27/2017

Signature:

Analyst:

Linda Price

Approved By:



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive

Kalamazoo MI 49008

Client: SOI995

Report Date: 2/27/2017

Report No.:

530200 - PLM

207 Robertson Ave, Battle Creek, MI Project:

Project No.: 076030.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Location: Northeast Bedroom, Southwest Corner Lab No.: 6160001 **Description:** White Ceiling Texture

Client No.: HA8-C Facility:

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

None Detected None Detected

Description: White Grout Location: Kitchen, West Wall **Lab No.:** 6160002

Facility: Client No.: HA9-A

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

None Detected None Detected

Location: Kitchen, West Wall **Description:** White Grout **Lab No.:** 6160003

Facility: Client No.: HA9-B

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

None Detected None Detected

Location: Exterior, Northeast Corner Of East **Description:** Grey Mortar Lab No.: 6160004

Bedroom Client No.: HA10-A Facility:

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

None Detected

None Detected

Location: Exterior, Southeast Corner Of House **Description:** Grey Mortar Lab No.: 6160005

Facility: Client No.: HA10-B

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

None Detected

None Detected

Location: Basement, North Wall Of South Portion **Description:** Grey Mortar **Lab No.:** 6160006

Client No.: HA11-A Facility:

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

100 None Detected None Detected

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

2/21/2017

Date Analyzed:

02/27/2017

Signature:

Linda Price Analyst:

Approved By:

Frank E. Ehrenfeld, III

Laboratory Director



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive

Kalamazoo MI 49008

Client: SOI995

Report Date: 2/27/2017

Report No.:

530200 - PLM

Project:

207 Robertson Ave, Battle Creek, MI

Project No.:

076030.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6160007

Client No.: HA11-B

Description: Grey Mortar

Location: Basement, Southwest Corner Of

Facility:

Percent Non-Asbestos Fibrous Material:

Basement

Percent Non-Fibrous Material:

Percent Asbestos: None Detected

Lab No.: 6160008

Description: Grey Mortar

None Detected

Location: Exterior, Chimney

Facility:

Percent Asbestos:

Client No.: HA12-A

Percent Non-Asbestos Fibrous Material:

Percent Non-Fibrous Material:

None Detected

Lab No.: 6160009

Description: Grey Mortar

Location: Exterior, Chimney

Client No.: HA12-B

Facility: Percent Non-Asbestos Fibrous Material:

Percent Non-Fibrous Material:

None Detected

Percent Asbestos:

Percent Asbestos:

None Detected

None Detected

Lab No.: 6160010

Description: Black Shingle

Location: Well House, East Side

Client No.: HA13-A

Facility:

Percent Non-Asbestos Fibrous Material:

20 Cellulose

Percent Non-Fibrous Material:

Lab No.: 6160011

Description: Black Shingle

Location: Well House, East Side

Client No.: HA13-B Percent Asbestos:

None Detected

Percent Asbestos:

None Detected

Facility:

Percent Non-Asbestos Fibrous Material:

Percent Non-Fibrous Material:

30 Cellulose

Lab No.: 6160012

Description: Tan/Brown/Black Shingle

Location: Well House, West Side

Client No.: HA14-A

Facility:

Percent Non-Fibrous Material:

Percent Non-Asbestos Fibrous Material:

20 Fibrous Glass

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

2/21/2017

Date Analyzed:

02/27/2017

Signature:

Analyst:

Linda Price

Approved By:



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive

Kalamazoo MI 49008

Client: SOI995

Report Date: 2/27/2017

Report No.:

530200 - PLM

Project:

207 Robertson Ave, Battle Creek, MI

Project No.:

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6160013

Description: Tan/Brown/Black Shingle

Location: Well House, West Side

Client No.: HA14-B

Facility:

Percent Non-Fibrous Material:

Percent Non-Asbestos Fibrous Material: 15 Fibrous Glass

Percent Asbestos: None Detected

None Detected

Percent Asbestos:

Description: Black Shingle

Location: Shed, East Half

Lab No.: 6160014 Client No.: HA15-A

Facility:

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

Percent Non-Fibrous Material:

15 Fibrous Glass

Lab No.: 6160015

Description: Black Shingle Facility:

Location: Shed, West Half

Client No.: HA15-B

Percent Non-Asbestos Fibrous Material:

Percent Non-Fibrous Material:

None Detected

15 Fibrous Glass

Lab No.: 6160016

Description: Black Shingle

Location: House, Northwest Corner Of Kitchen

Client No.: HA16-A

Facility:

Percent Non-Fibrous Material:

Percent Non-Asbestos Fibrous Material: Percent Asbestos: None Detected

15 Fibrous Glass

Location: House, Southwest Corner Of House

Lab No.: 6160017

Description: Black Shingle Facility:

Client No.: HA16-B Percent Asbestos:

Percent Non-Asbestos Fibrous Material:

Percent Non-Fibrous Material:

None Detected

20 Fibrous Glass

Lab No.: 6160018

Description: Grey/Black Shingle

Location: House, Valley Of Roof Along West Side

Of House

Client No.: HA17-A Percent Asbestos:

None Detected

Facility:

Percent Non-Fibrous Material:

Percent Non-Asbestos Fibrous Material: 20 Fibrous Glass

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

2/21/2017

Date Analyzed:

02/27/2017

Signature: Analyst:

Linda Price

Approved By:



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive

Kalamazoo MI 49008

Client: SOI995

Report Date: 2/27/2017

Report No.:

530200 - PLM

Project:

207 Robertson Ave, Battle Creek, MI

Project No.:

076030.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6160019 Client No.: HA17-B

Facility:

Description: Grey/Black Shingle

Location: House, Valley Of Roof Along West Side

Of House

Percent Asbestos: None Detected

Percent Non-Asbestos Fibrous Material:

20 Fibrous Glass

Percent Non-Fibrous Material:

Lab No.: 6160020

Description: White/Off-White Vinyl Sheet

Flooring

Location: South Foyer, Northwest Corner (Beneath

HA3)

Client No.: 18A

Facility:

Percent Non-Asbestos Fibrous Material:

Percent Asbestos: None Detected

10 Cellulose

2 Fibrous Glass

Percent Non-Fibrous Material:

6160020(L2) Lab No.:

Client No.: 18A

Description: Yellow Mastic

Facility:

Location: South Foyer, Northwest Corner (Beneath

Percent Asbestos: None Detected Percent Non-Asbestos Fibrous Material:

None Detected

Percent Non-Fibrous Material:

6160021 Lab No.:

Client No.: 18B

Description: White/Off-White Vinyl Sheet

Flooring

Facility:

Percent Non-Asbestos Fibrous Material:

Percent Asbestos: None Detected

5 Cellulose

5 Fibrous Glass

Percent Non-Fibrous Material:

Lab No.: 6160021(L2)

Client No.: 18B

Description: Yellow Mastic

Facility:

Location: East Foyer, Doorway (Beneath HA4)

Location: East Foyer, Doorway (Beneath HA4)

Percent Asbestos: None Detected

Percent Non-Asbestos Fibrous Material:

None Detected

Percent Non-Fibrous Material:

100

Analytical Method - US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

2/21/2017

Date Analyzed:

02/27/2017

Signature:

Analyst:

Linda Price

Approved By:



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive

Kalamazoo MI 49008

Client: SOI995

Report Date: 2/27/2017

Report No.:

530200 - PLM

Project: 207

207 Robertson Ave, Battle Creek, MI

Project No.: 076030.00

Appendix to Analytical Report

Customer Contact: Davin Ojala Analysis: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: cdavis@iatl.com iATL Account Representative: Shirley Clark Sample Login Notes: See Batch Sheet Attached Sample Matrix: Bulk Building Materials Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NY-DOH No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process) Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)>

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive

Kalamazoo MI 49008

Client: SOI995

Report Date: 2/27/2017

Report No.: 530200 - PLM

Project: 207 Robertson Ave, Battle Creek, MI

Project No.: 076030.00

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique - by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1) Analytical Step/Method: Initial Screening by PLM, EPA 600R-93/116

Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

2)Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3) Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

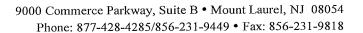
5)Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

- *With advance notice and confirmation by the laboratory.
- **Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

APPENDIX BPAINT CHIP SAMPLE CHAIN OF CUSTODY FORMS AND CERTIFICATES OF ANALYSIS

© 2017 SME 076030.00+031317





Chain of Custody - Environmental Lead –

Contact Informa	ntion				
	SME	Project Number:	076030.00		
Client Company:	3301 TECH CIRCLE DRIVE	Project Number: Project Name:	207 ROBERTSON		
Office Address:	KALAMAZOO, MI	Primary Contact:	ANTHONY HOSBEIN		
City, State, Zip:	269-323-3553	Office Phone:	269-323-3555		
Fax Number:		Cell Phone:	616-835-2298		
Email Address:	hosbein@sme-usa.com	Cen Phone:	010-033-2290		
iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs. Matrix/Method: ✓ Paint by AAS: ASTM D3335-85a, 2009 ☐ Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010 ☐ Air by AAS: NIOSH 7082, 1994 ☐ Soil by AAS: EPA SW 846 (Soil) ☐ Water by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141.11B, 2010 ☐ Other Metals (Cd, Zn, Cr) by AAS ☐ Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311 ☐ Other					
Special Instructions: SEE SME'S COC FOR ADDITONAL INFORMATION					
OLL CIVIL C CCC I	OKABBITOTA E IN OTHER COLOR				
Turnaround Time Preliminary Results Requested Date: O2/28/2017 3:00PM Specific date / time 10 Day 5 Day 3 Day 2 Day 1 Day* 12 Hour** 6 Hour** RUSH** * End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***					
Chain of Custody					
Received (Name / i Sample Login (Nan Analysis(Name(s) i OA/OC Review (N	ne/Organization): Anthony Hosbein/SM iATL): me / iATL): / iATL):	Date: Date: Date:	Time:Time:		



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive

Kalamazoo MI 49008

Client: SOI995

Report Date: 2/28/2017

Report No.:

530226 - Lead Paint

Project:

207 Robertson Avenue, Battle Creek MI

Project No.:

076030.00

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 6155210

Client No.: P1

Description: Grey

Location: Exterior, 2/20/17

Result (% by Weight): <0.0075

Result (ppm): <75

Comments:

Lab No.: 6155211

Client No.: P2

Description: White Location:

Exterior, 2/20/17

Result (% by Weight): <0.0073

Result (ppm):

Comments:

Lab No.: 6155212

Client No.: P3

Description: Black

Location: Exterior, 2/20/17

Result (% by Weight): <0.0071

Result (ppm):

Comments:

Lab No.: 6155213

Client No.: P4

Description: White

Location: Interior, 2/20/17

Result (% by Weight): <0.0088

Result (ppm):

Comments:

Lab No.: 6155214

Client No.: P5

Description: Purple

Location: Interior, 2/20/17

Result (% by Weight): <0.0077

Result (ppm): <77

Comments:

Lab No.: 6155215

Client No.: P6

Description: Pink

Location: Interior, 2/20/17

Result (% by Weight): <0.0055

Result (ppm):

Comments:

Lab No.: 6155216

Client No.: P7

Description: Red

Location: Interior, 2/20/17

Result (% by Weight): <0.0071

Result (ppm): <71

Comments:

Lab No.: 6155217 Client No.: P8

Description: Yellow

Location: Interior, 2/20/17

Result (% by Weight): 0.020 Result (ppm):

Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

19.01 Bhops

Date Received:

2/21/2017

Date Analyzed:

02/28/2017

Signature: Analyst:

Chad Shaffer

Approved By:

Frank E. Ehrenfeld, III

Laboratory Director



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive

Kalamazoo MI 49008

Client: SOI995

Report Date: 2/28/2017

Report No.:

530226 - Lead Paint

Project:

207 Robertson Avenue, Battle Creek MI

Project No .:

076030.00

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 6155218

Client No.: P9

Description: Blue

Location:

Interior, 2/20/17

Result (% by Weight): 0.0099

Result (ppm):

Comments:

Lab No.: 6155219

Client No.: P10

Description: Green Location:

Interior, 2/20/17

Result (% by Weight): 0.036

Result (ppm):

Comments:

6155220 Lab No.:

Client No.: P11

Description: Beige

Location:

Interior, 2/20/17

Result (% by Weight): <0.0071

Result (ppm):

Comments:

Lab No.: 6155221

Client No.: P12

Description: Grey

Location:

Interior, 2/20/17

Result (% by Weight): <0.0046

Result (ppm): Comments:

6155222 Lab No.:

Client No.: P13

Description: Grey

Location: Interior, 2/20/17 **Result (% by Weight):** <0.0072

Result (ppm): Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

2/21/2017

Date Analyzed:

02/28/2017

Signature: Analyst:

Chad Shaffer

Approved By:



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive

Kalamazoo MI 49008

Client: SOI995

Report Date: 2/28/2017

Report No.:

530226 - Lead Paint

Project:

207 Robertson Avenue, Battle Creek MI

Project No.:

076030.00

Appendix to Analytical Report:

Customer Contact: Davin Ojala Analysis: ASTM D3335-85a

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: cdavis@iatl.com iATL Account Representative: Shirley Clark Sample Login Notes: See Batch Sheet Attached

Sample Matrix: Paint

Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by ASTM D3335-85a by AAS

Certification:

- National Lead Laboratory Program (NLLAP): AIHA-LAP, LLC No. 100188
- NYSDOH-ELAP No. 11021

Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B.

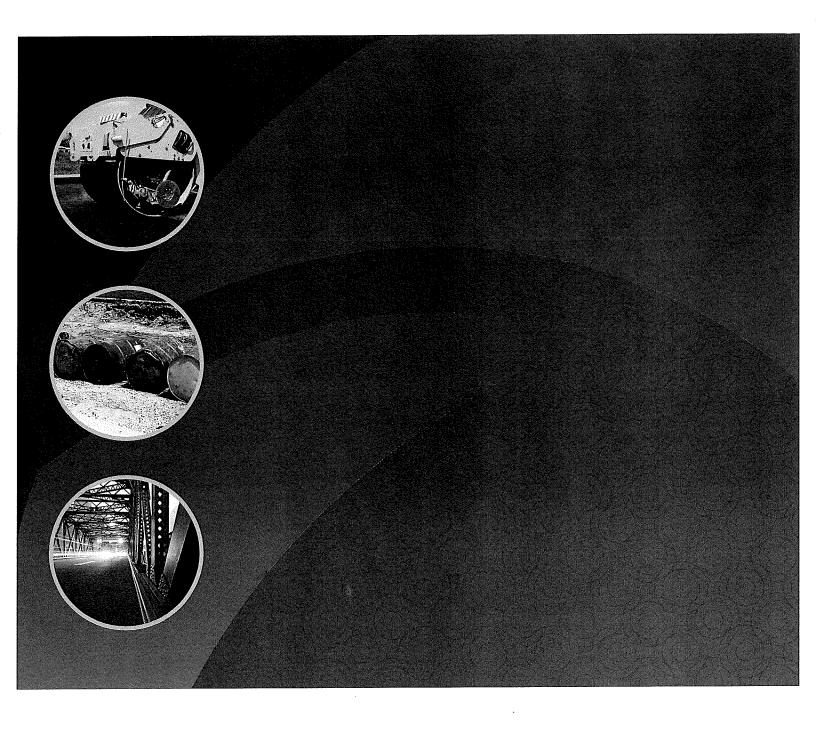
Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies.

LSD=0.2 ppm MDL=0.005% by weight. RL= 0.010% by weight (based upon 100 mg sampled).

Disclaimers / Qualifiers:

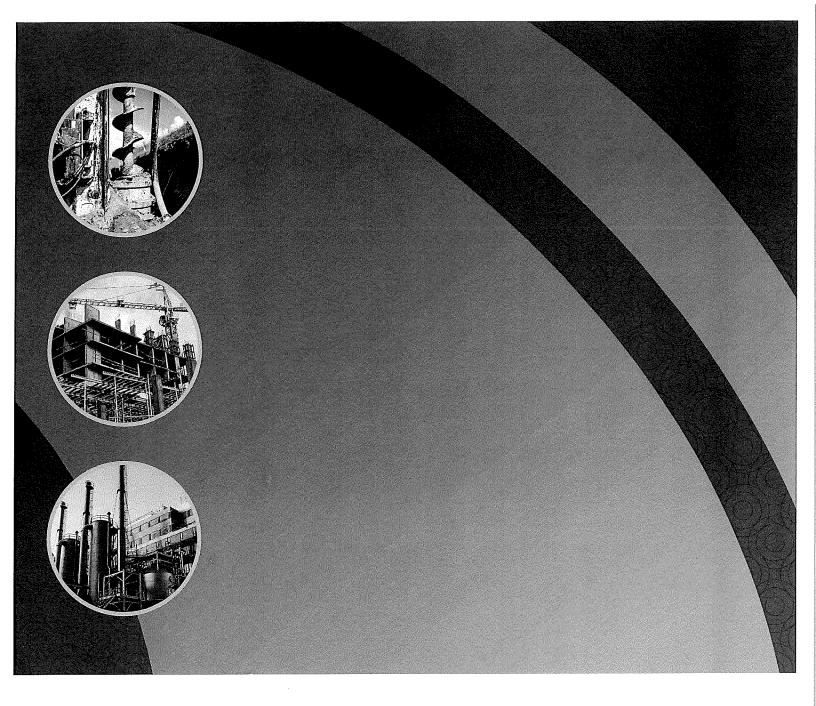
There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- * Insufficient sample provided to perform QC reanalysis (<200 mg)
- ** Not enough sample provided to analyze (<50 mg)
- *** Matrix / substrate interference possible.



Passionate People Building and Revitalizing our World





PRE-DEMOLITION ASBESTOS AND PAINT ASSESSMENT REPORT

4857 W. COLUMBIA AVENUE BATTLE CREEK, MICHIGAN

SME Project Number: 077931.00

December 14, 2017





3301 Tech Circle Drive Kalamazoo, MI 49008-5611

T (269) 323-3555

www.sme-usa.com

December 14, 2017

Mr. Joe Sobieralski President & CEO Battle Creek TIFA 4950 W. Dickman Road Battle Creek, Michigan 49016

RE:

Pre-Demolition Asbestos and Paint Assessment Report

4857 W. Columbia Avenue Battle Creek, Michigan

SME Project No.: 077931.00

Dear Mr. Sobieralski:

We have completed an asbestos and paint assessment of the vacant building located at 4857 W. Columbia Avenue in Battle Creek, Michigan. You requested the assessment prior to the planned demolition of the building. We completed our assessment services in accordance with our proposal (P03488.17), dated November 22, 2017.

We plan contact you within the next week to discuss the findings of the assessment and provide answers to any questions you may have.

Sincerely,

SME

Anthony J. Hosbଜ୍ୟୋଞ୍ଚ

Sara Bala for

Environmental Technician

Davin K. Ojala COSISN Senior Project Consultant

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TABLE 2: PAINT CHIP SAMPLING RESULTS

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ASBESTOS FIELD SAMPLING SKETCH

APPENDIX B

ASBESTOS SAMPLE CERTIFICATES OF ANALYSIS AND CHAIN OF CUSTODY FORMS

APPENDIX C

PAINT CHIP SAMPLE CERTIFICATES OF ANALYSIS AND CHAIN OF CUSTODY FORMS

1. INTRODUCTION

We completed an asbestos and paint assessment of the vacant building located at 4857 W. Columbia Avenue in Battle Creek, Michigan. The building was unoccupied at the time of our assessment. We conducted the assessment activities to assist with identification of asbestos-containing materials (ACMs), and potential lead-bearing paints, prior to demolition of the building.

This assessment will provide information to assist the building owner in complying with the United States Environmental Protection Agency (USEPA) requirements for inspection of commercial buildings prior to demolition under the National Emission Standards for Hazardous Air Pollutants asbestos regulation (NESHAP, 40 CFR Part 61). The assessment also provides information to assist in complying with the Occupational Safety and Health Administration (OSHA) Asbestos Construction Standard (29 CFR Part 1926.1101) and the OSHA Lead Exposure in Construction Standard (29 CFR Part 1926.62), regarding communication of hazards. The Michigan Occupational Safety and Health Administration (MIOSHA) adopted these OSHA standards by reference.

SME staff member, Mr. Anthony Hosbein (Accreditation No. A37250), trained in accordance with USEPA asbestos assessment regulations and accredited by the Michigan Department of Licensing and Regulatory Affairs (MDLRA), under the requirements of Michigan Act 440 as an Asbestos Inspector, conducted the field activities.

077931.00+121417+APAR 1

2. ASBESTOS

2.1 VISUAL ASSESSMENT AND SAMPLING PROCEDURES

On November 28, 2017, we conducted a visual assessment and identified and estimated quantities of suspect ACMs associated with the building and assigned a unique homogeneous area number to each suspect ACM observed. A homogenous area, as defined by the USEPA's Asbestos Hazard Emergency Response Act (AHERA, 40 CFR Part 763), is an area of thermal system insulation (TSI), surfacing material, or miscellaneous material that appears uniform in color and texture.

Following the visual assessment, we collected 29 samples from the 13 homogenous areas of suspected ACMs in accordance with the AHERA assessment protocol (40 CFR Part 763), which is also referenced by the OSHA regulations.

We submitted the suspect bulk samples to International Asbestos Testing Laboratories (IATL), a laboratory accredited by the National Institute of Standards and Technology (NIST) under the requirements of the National Voluntary Laboratory Accreditation Program (NVLAP), for asbestos analysis of the bulk samples via Polarized Light Microscopy (PLM). Samples found to contain less than 10% asbestos via the visual estimation method of PLM were further verified via the "Point Count Method" as defined by the AHERA regulation (40 CFR Part 763). Results from analyses of samples collected from suspect ACMs are presented in the following subsections.

2.2 FINDINGS AND CONCLUSIONS

No asbestos was detected in the samples of suspect ACMs collected from the building. A summary of the descriptions of suspect ACMs identified during our assessment, estimated quantity, friability, condition, and locations of the materials sampled is presented in Table 1.

Our project team conducted limited destructive assessment of wall cavities, ceilings, floor surfaces, and other interstitial spaces of the building. However, we did not assess every wall cavity and ceiling space within the building or demolish floor surfaces. Additional ACMs may exist in concealed spaces that were not assessed. A field sampling sketch is included in Appendix A. The Chain-of-Custody forms and analytical data for the bulk asbestos samples are included in Appendix B.

2.2.1 REGULATORY INFORMATION REGARDING ASBESTOS REMOVAL AND DEMOLITION OF STRUCTURES

According to the United States Environmental Protection Agency (USEPA) National Emission Standard for Hazardous Air Pollutants asbestos regulation (NESHAP, 40 CFR Part 61 M), friable ACMs and nonfriable ACMs which could be expected to be disturbed and become friable must be removed prior to demolition activities. A 10-calendar day notification to the Michigan Department of Licensing and Regulatory Affairs (MDLRA) Asbestos Program is required when greater than 10 linear feet or 15 square feet of regulated asbestos material will be removed.

If greater than 160 square feet, 260 linear feet, or 35 cubic feet of regulated asbestos material will be removed, a 10-working day (14 calendar-day) notification to the Michigan Department of Environmental Quality-Air Quality Division (MDEQ-AQD) is also required. The *Notification of Intent to Renovate/Demolish* form is used for both the MDLRA and the MDEQ-AQD notifications. This form can be submitted online or downloaded from the MDEQ's website. 1.

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¹ Notification of Intent to Renovate/Demolish Form: http://www.michigan.gov/deq/0,1607,7-135-3310_4106-11856--,00.html

The Notification of Intent to Renovate/Demolish form required by the USEPA NESHAP regulation must also be prepared and submitted to the MDEQ-AQD at least 10 working days (14 calendar days) prior to demolition of a building, regardless of whether or not ACMs are present in the building. The contractor is responsible for submitting the notification prior to demolition activities.

According to the OSHA Asbestos Construction Standard (29 CFR 1926.1101), removal or demolition involving thermal system insulation (TSI) or surfacing ACMs is considered Class I asbestos work. Removal or demolition involving ACM that is not TSI or surfacing material is considered Class II asbestos work. All Class I asbestos work activities must be conducted by a licensed and accredited asbestos contractor and in accordance with the standard. Work activities defined as Class II asbestos work must be conducted by appropriately trained or accredited staff under the supervision of an accredited Asbestos Contractor Supervisor in accordance with the standard.

According to the USEPA NESHAP asbestos regulation, nonfriable ACMs, if in good condition and not subjected to forces that would render them friable, need not be removed from a building prior to demolition. However, if a building contains one or more ACM during demolition, the demolition workers are required to have eight hours of asbestos training with specific "hands-on" instruction for each asbestos material present during demolition. An individual who has completed a 40-hour asbestos supervisor training course must also supervise the work. Specific OSHA asbestos work practices including, but not limited to, the use of respirators and personal protective equipment, and restrictions related to the material(s) would apply. Personal exposure monitoring of the personnel on site would be required during demolition. In addition, hazard communication requirements contained in the OSHA Asbestos Construction Standard related to multiple employer work sites would apply.

40 CFR Part 763 requires asbestos abatement project design by an Asbestos Project Designer that is trained in accordance with USEPA requirements and accredited under by the MDLRA. All ACM waste generated during asbestos abatement activities should be placed in doubled, appropriately labeled waste bags, affixed with a waste generator location label, and disposed in a landfill licensed to accept asbestos waste in the State of Michigan. All ACM waste generated during asbestos abatement activities that is removed from the site should be inventoried on a Waste Shipment Record that complies with NESHAP regulations, 40 CFR Part 61.

Paragraph (k) of the OSHA Asbestos Construction Standard (29 CFR Part 1926.1101) and paragraph (j) of the OSHA Asbestos Standard for General Industry (29 CFR Part 1910.1001) require that building owners communicate to their employees, tenants, and building contractors information regarding the presence, quantity, and location of ACMs in a building.

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3. LEAD-BEARING PAINTS

3.1 VISUAL ASSESSMENT AND SAMPLING PROCEDURES

On November 28, 2017, we conducted a visual assessment to identify painted surfaces in the building. We collected six chip samples of paints suspected to be lead-bearing coatings. We submitted the paint-chip samples to IATL, which is accredited by the American Industrial Hygiene Association (AIHA) Environmental Lead Laboratory Accreditation Program (ELLAP), for lead analysis of the paint chip samples via atomic absorption spectrophotometry (AAS).

3.2 FINDINGS AND CONCLUSIONS

Lead was measured at concentrations above laboratory reporting limits in five of the six samples of paints collected. The Chain-of-Custody forms and analytical data for the paint chip samples are included in Appendix C of this report. A summary of the descriptions of lead-bearing paints, paint locations, as well as lead content of the paint chip samples is presented in Table 2.

The OSHA Lead Exposure in Construction Standard (29 CFR Part 1926.62) is applicable to construction activities when lead is present regardless of their concentrations in the paints. If lead-bearing paints are subjected to demolition forces that may cause paint particles to become airborne, unacceptable levels of lead exposure to on-site personnel and environmental contamination could result. These paints could pose inhalation or ingestion exposure hazards if subjected to torch cutting, welding, and burning or if pulverized and converted to dust.

If lead-bearing coatings or paints are to be removed by manual demolition of structural surfaces, manual scraping, manual sanding, heat gun applications, power tool cleaning, torch cutting, or welding, then the employees must be trained, and exposures must be assessed, in accordance with the OSHA Lead Exposure in Construction Standard. When lead is present at any concentration, employers are required to assess their workers' exposures to airborne lead dust/fumes. The employer must perform an employee exposure assessment to determine if any employee is exposed at or above the action level of 30 micrograms of lead per cubic meter (μ g/m³) of air sampled calculated as a time-weighted average (TWA).

This exposure assessment is typically performed by conducting air monitoring in the workers' breathing zones during activities that would disturb surfaces containing lead or cadmium. In lieu of air monitoring, OSHA allows employers to use other objective data to assess their workers' exposures. Until an exposure assessment is completed and results demonstrate that employee exposures are consistently below the action level, the employer must provide interim protection in accordance with the standard.

4. RECOMMENDATIONS

4.1 ASBESTOS

- We recommend proper notification to MDEQ-AQD prior to demolition of the building.
- We recommend selective demolition to expose concealed spaces of the building prior to initiation
 of demolition activities to assess for the presence of concealed ACMs. If suspect ACMs are
 encountered for which no analytical data exists, we recommend the material(s) remain
 undisturbed until the asbestos content of the material(s) is determined in accordance with USEPA
 and OSHA regulations.

4.2 LEAD-BEARING PAINTS

 We recommend conducting demolition activities involving painted surfaces in accordance with the requirements of OSHA Lead Exposure in Construction Standard, as applicable. We also recommend contractor personnel receive a minimum of two-hour lead awareness training prior to working at the site.

5. LIMITATIONS AND GENERAL COMMENTS

Our project team conducted limited destructive assessment of wall cavities, ceilings, floor surfaces, and other interstitial spaces of the building. However, we did not assess every wall cavity and ceiling space within the building or demolish floor surfaces. Additional ACMs may exist in concealed spaces that were not assessed. We recommend selective demolition to expose concealed spaces, such as these, prior to initiation of demolition activities to assess for the presence of concealed ACMs. If suspect ACMs are encountered for which no analytical data exists, we recommend the material(s) remain undisturbed until the asbestos content of the material(s) is determined in accordance with USEPA and OSHA regulations.

The quantities presented in our report are intended to be "Order of Magnitude" estimates and the estimated quantities and other information in this report should not be used as an exclusive source of information for bid formulation or for notification to regulatory agencies.

Laboratory descriptions of materials analyzed by PLM method for asbestos content were based upon the microscopists' perceptions of bulk samples that were pulverized and prepared with dispersion oils for PLM analysis. Due to the preparation of the sampled materials and the minute level of observation by the laboratory personnel, the descriptions on the Certificates of Analysis may not match the sample descriptions recorded by SME's project team in the field. Our sample descriptions and locations should be used to identify materials that were sampled and our sample numbers should be used to correlate analytical results for the sampled materials.

We based the conclusions and recommendations submitted in this report upon the scope of services noted herein. In the process of obtaining the field information presented in this report, we followed procedures that represent reasonable and accepted industrial hygiene practices and principles, in a manner consistent with that level of care and skill ordinarily exercised by members of this profession currently practicing under similar conditions. We understand that Battle Creek TIFA will rely upon the professional opinions and representations contained in this report. However, the information and opinions contained within this report are not to be construed a warranty of the conditions of this site in any way, implied or explicit. No other party may rely upon our opinions, conclusions, or reports unless we have agreed to such reliance in writing.

TABLES

TABLE 1: ASBESTOS BULK SAMPLING RESULTS

TABLE 2: PAINT CHIP SAMPLING RESULTS

TABLE 1
ASBESTOS BULK SAMPLING RESULTS
4857 W. COLUMBIA, BATTLE CREEK, MICHIGAN
SME Project Number: 077931.00

The quantities presented in this table are intended to be "Order of Magnitude" estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
1	Block, gray Mortar, light gray	NON-ACM	NQ	Nonfriable	Good	East exterior wall and utility room walls
2	Brick, red Mortar, gray	NON-ACM	NQ	Nonfriable	Good	East wall, north and south window openings
3	Concrete, gray	NON-ACN	3 sq. ft.	Nonfriable	Good	East wall, middle window opening
4	Brick, red Mortar, white	NON-ACM	NQ	Nonfriable	Good	Exterior walls beneath vinyl siding
5	Rolled roofing system, white	NON-ACM	425 sq. ft.	Nonfriable	Good	Roof
6	Roof flashing, black	NON-ACM	4 sq. ft.	Nonfriable	Good	Roof penetrations
7	Wallboard wall system Joint compound, white Wallboard, white	NON-ACM	800 sq. ft.	Nonfriable	Good	Throughout structure
8	Wallboard ceiling, white (unfinished) Mastic, tan	NON-ACM	230 sq. ft.	Nonfriable	Good	Throughout structure Mastic adhered to wooden ceiling panels
9	Sheet flooring, brown Mastic, yellow	NON-ACM	15 sq. ft.	Nonfriable	Damaged	Damaged portion in southern portion of utility room
10	Mastic, yellow	NON-ACM	25 sq. ft.	Nonfriable	Good	Floor in utility room
11	Textured surfacing, white	NON-ACM	100 sq. ft.	Nonfriable	Good	Utility room

© 2017 SME 077931.00+121417+APAR+Table 1 1

TABLE 1
ASBESTOS BULK SAMPLING RESULTS
4857 W. COLUMBIA, BATTLE CREEK, MICHIGAN
SME Project Number: 077931.00

The quantities presented in this table are intended to be "Order of Magnitude" estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
12	Ceiling tile, 2'x4', white, pinhole, pockmarks	NON-ACM	280 sq. ft.	Friable	Good	Throughout structure
13	Cove base, 4", gray Mastic, yellow	NON-ACM	10 sq. ft.	Nonfriable	Good	Restroom

NOTES:

HA = Homogenous Area.

ACM = Asbestos-Containing Material as defined by USEPA and OSHA definition.

Friable = Material that can be crumbled or reduced to powder by hand pressure.

NQ = Not quantified

Material conditions are described as defined in AHERA, 40 CFR Part 763.

In. ft. = linear feet

sq. ft. = square feet

^{* =} Estimate of visible, accessible materials. Additional quantities and materials may be present in concealed spaces not assessed.

TABLE 2 PAINT CHIP SAMPLING RESULTS 5784 W. COLUMBIA, BATTLE CREEK, MICHIGAN SME Project Number: 077931.00

Paint #	MATERIAL DESCRIPTION	LEAD % by weight
P1	Maroon (Exterior); East block wall	1.0
P2	White (Exterior); Trim	0.074
P3	Red (Exterior); Roof drain down spout	0.43
P4	White (Interior); Throughout	1.4
P5	Green (Interior); HVAC duct in utility room	0.39
P6	Blue (Interior); Restroom walls	<0.0062

APPENDIX AFIELD SAMPLING SKETCH

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DATE:

PROJECT NUMBER

PROJECT NAME:

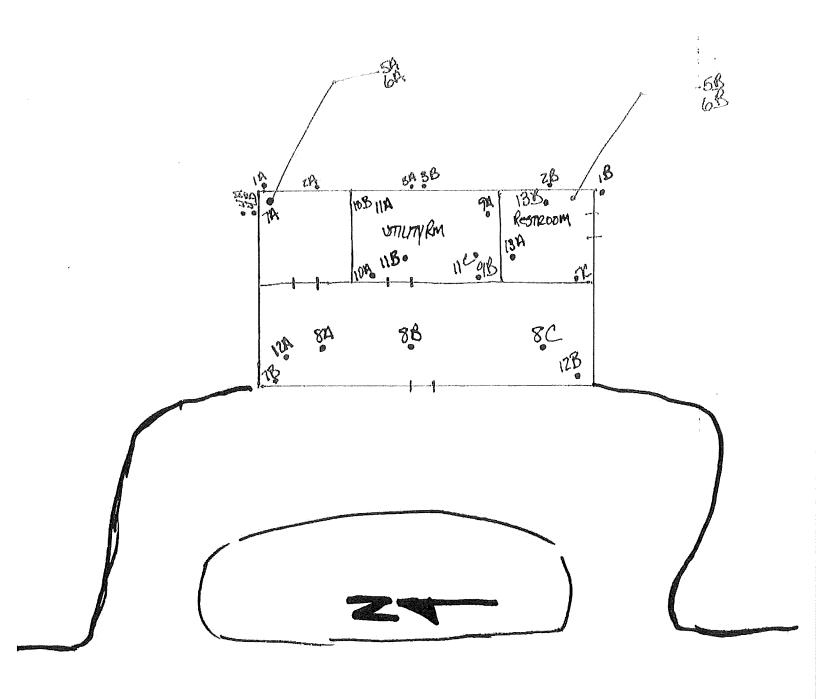
CLIENT NAME:

4857 W COLOMBIA 77931.00 11/28/17



COMPUTED BY

CHECKED BY:



COLUMBIA AVE

APPENDIX B

ASBESTOS SAMPLE CERTIFICATES OF ANALYSIS AND CHAIN OF CUSTODY FORMS

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9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054

Telephone: 856-231-9449 Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive MI 49008 Kalamazoo

Client: SOI995

Report Date: 12/5/2017

Report No.: 552830 - PLM

Project:

4857 W. Columbia

077931.00 Project No.:

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6397072

Client No.: 1A

Percent Asbestos:

None Detected

Lab No.: 6397072(L2)

Client No.: 1A

Percent Asbestos:

None Detected

Lab No.: 6397073

Client No.: 1B

Percent Asbestos:

None Detected

Lab No.: 6397073(L2) Client No.: 1B

Percent Asbestos:

None Detected

Lab No.: 6397074

Client No.: 2A

Percent Asbestos: None Detected

Lab No.: 6397075

Client No.: 2B Percent Asbestos:

None Detected

Analyst Observation: Grey/Red Plaster

Client Description: Block, Grey And Mortar, Light Grey

Percent Non-Asbestos Fibrous Material:

None Detected

Analyst Observation: Lt Grey Mortar

Client Description: Block, Grey And Mortar, Light Grey

Percent Non-Asbestos Fibrous Material:

None Detected

Analyst Observation: Grey Plaster

Client Description: Block, Grey And Mortar, Light Grey

Percent Non-Asbestos Fibrous Material:

None Detected

Analyst Observation: Lt Grey Mortar

Client Description: Block, Grey And Mortar, Light Grey

Percent Non-Asbestos Fibrous Material:

None Detected

Analyst Observation: Grey Plaster

Client Description: Brick, Red And Mortar, Light Grey

Percent Non-Asbestos Fibrous Material:

None Detected

Analyst Observation: Grev Plaster

Client Description: Brick, Red And Mortar, Light Grey

Percent Non-Asbestos Fibrous Material:

None Detected

Location: Northeast Bldg. Corner

Facility:

Percent Non-Fibrous Material:

Location: Northeast Bldg. Corner

Facility:

Percent Non-Fibrous Material:

Location: Southeast Bldg. Corner

Facility:

Percent Non-Fibrous Material:

Location: Southeast Bldg. Corner

Facility:

Percent Non-Fibrous Material:

Location: East Wall, North Window

Facility:

Percent Non-Fibrous Material:

100

Location: East Wall, South Window Facility:

Percent Non-Fibrous Material:

100

Analytical Method - US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

11/29/2017

Date Analyzed:

Dated: 12/6/2017 3:50:44

12/05/2017

Signature: Analyst:

Typlika saah Jvotika Shah

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 1 of 11



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive MI 49008 Kalamazoo

Client: SOI995

Report Date: 12/5/2017

Report No.:

552830 - PLM

Project:

4857 W. Columbia

Project No.: 077931.00

PLM BUILK SAMPLE ANALYSIS SUMMARY

Lab No.: 6397075(L2)

Client No.: 2B Percent Asbestos:

Analyst Observation: Red Brick

Client Description: Brick, Red And Mortar, Light Grey

Percent Non-Asbestos Fibrous Material:

None Detected

Location: East Wall, South Window

Facility:

Percent Non-Fibrous Material:

Lab No.: 6397076

None Detected

Client No.: 3A

Percent Asbestos:

Analyst Observation: Grey Plaster Client Description: Concrete, Grey

Percent Non-Asbestos Fibrous Material:

Percent Non-Asbestos Fibrous Material:

Percent Non-Asbestos Fibrous Material: None Detected .

Location: East Wall, Middle Window

Facility:

Facility:

Percent Non-Fibrous Material:

100

None Detected

Lab No.: 6397077

Analyst Observation: Grey Plaster Client Description: Concrete, Grey Client No.: 3B

Percent Asbestos: Percent Non-Asbestos Fibrous Material:

None Detected None Detected

Analyst Observation: Grey Mortar Lab No.: 6397078

Client Description: Brick, Red And Mortar, White Client No.: 4A

None Detected

None Detected

Percent Asbestos:

None Detected

Lab No.: 6397078(L2)

Client No.: 4A

Percent Asbestos: None Detected

Lab No.: 6397079 Client No.: 4B

Percent Asbestos:

Analyst Observation: Grey Mortar

Analyst Observation: Red Brick

Client Description: Brick, Red And Mortar, White

Client Description: Brick, Red And Mortar, White

Percent Non-Asbestos Fibrous Material: None Detected None Detected

Location: Northeast Bldg. Corner Facility:

Location: East Wall, Middle Window

Percent Non-Fibrous Material:

Percent Non-Fibrous Material:

Location: Northeast Bldg. Corner

Facility: Percent Non-Fibrous Material:

100

Location: Southeast Bldg. Corner

Facility:

Percent Non-Fibrous Material:

100

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

11/29/2017

Date Analyzed:

Dated: 12/6/2017 3:50:44

12/05/2017 Typlika saah

Signature:

Analyst:

Jyotika Shah

Approved By:

Frank E. Ehrenfeld, III



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054

Telephone: 856-231-9449 Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive Kalamazoo MI 49008

Client: SOI995

Report Date: 12/5/2017

Report No.:

552830 - PLM

Project:

4857 W. Columbia

Project No.:

077931.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6397079(L2)

Client No.: 4B Percent Asbestos:

None Detected

Client No.: 5A

Percent Asbestos:

None Detected

Lab No.: 6397081

Percent Asbestos:

Client No.: 5B

Analyst Observation: Red Brick

Client Description: Brick, Red And Mortar, White

Percent Non-Asbestos Fibrous Material:

None Detected

Location: Southeast Bldg. Corner

Facility:

Percent Non-Fibrous Material:

Lab No.: 6397080

Analyst Observation: Black Shingle

Client Description: Rolled Roofing System, White

Location: Northeast Corner Of Roof

Facility:

Percent Non-Asbestos Fibrous Material:

3 Cellulose

Analyst Observation: Black Shingle

Client Description: Rolled Roofing System, White

Percent Non-Asbestos Fibrous Material:

2 Cellulose None Detected

Location: Southeast Corner Of Roof

Percent Non-Fibrous Material:

Facility:

Facility:

Percent Non-Fibrous Material:

Lab No.: 6397082 Client No.: 6A

Analyst Observation: Black Roof Material Client Description: Roof Flashing, Black

Percent Asbestos: None Detected

Percent Non-Asbestos Fibrous Material: None Detected

Analyst Observation: Black Roof Material Lab No.: 6397083 Client No.: 6B Client Description: Roof Flashing, Black

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

None Detected None Detected

Analyst Observation: White Sheetrock Lab No.: 6397084

Client Description: Wallboard Wall System With Associated Facility: Client No.: 7A Joint Compound

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

2 Cellulose None Detected

Location: Southeast Corner Of Roof Facility:

Location: Northeast Corner Of Roof

Percent Non-Fibrous Material: 100

Percent Non-Fibrous Material:

Location: Northeast Corner Of Bldg

Percent Non-Fibrous Material:

Analytical Method - US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

11/29/2017

Date Analyzed:

Signature:

12/05/2017

Tyolika saah

Jvotika Shah Analyst:

Approved By:

Frank E. Ehrenfeld, III



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive Kalamazoo MI 49008

Client: SOI995

Lab No.: 6397085

Report Date: 12/5/2017

Report No.: 552830 - PLM

Project:

4857 W. Columbia

Project No.: 077931.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Analyst Observation: White Joint Compound Lab No.: 6397084(L2)

Client Description: Wallboard Wall System With Associated Client No.: 7A

Joint Compound

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

None Detected None Detected

Analyst Observation: White Sheetrock

Client Description: Wallboard Wall System With Associated Facility: Client No.: 7B

Joint Compound

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

2 Cellulose None Detected

Analyst Observation: White Joint Compound Lab No.: 6397085(L2)

Client Description: Wallboard Wall System With Associated Facility: Client No.: 7B

Joint Compound

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

None Detected None Detected

Lab No.: 6397086 Analyst Observation: White Sheetrock

Client Description: Wallboard Wall System With Associated Facility: Client No.: 7C

Joint Compound

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

1 Cellulose None Detected

Analyst Observation: White Joint Compound **Lab No.:** 6397086(L2)

Client Description: Wallboard Wall System With Associated Client No.: 7C

Joint Compound

Percent Asbestos: Percent Non-Asbestos Fibrous Material:

None Detected None Detected

Analyst Observation: White Sheetrock Lab No.: 6397087

Client Description: Wallboard Ceiling (Unfinished) With Client No.: 8A

Associated Mastic

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

2 Cellulose None Detected

Location: Northeast Corner Of Bldg

Facility:

Percent Non-Fibrous Material:

Location: Northwest Corner Of Bldg

Percent Non-Fibrous Material:

Location: Northwest Corner Of Bldg

Percent Non-Fibrous Material:

100

Location: Southeast Corner Of Bldg

Percent Non-Fibrous Material:

Location: Southeast Corner Of Bldg

Facility:

Percent Non-Fibrous Material:

Location: West Half Of Bldg., North

Portion Facility:

Percent Non-Fibrous Material:

98

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

11/29/2017

Date Analyzed:

12/05/2017

Signature:

Tyolika saah

Analyst:

Jyotika Shah

Dated: 12/6/2017 3:50:44

Approved By:

Page 4 of 11

Frank E. Ehrenfeld, III



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive MI 49008 Kalamazoo

Client: SOI995

Report Date: 12/5/2017

552830 - PLM Report No.: Project: 4857 W. Columbia

Project No.: 077931.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6397087(L2) Analyst Observation: Brown Mastic

Client Description: Wallboard Ceiling (Unfinished) With Client No.: 8A

Associated Mastic

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

None Detected 3 Cellulose Location: West Half Of Bldg., North

Portion Facility:

Portion

Facility:

Percent Non-Fibrous Material:

Analyst Observation: White Sheetrock Lab No.: 6397088

Client Description: Wallboard Ceiling (Unfinished) With Client No.: 8B

Associated Mastic

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

2 Cellulose None Detected

Lab No.: 6397088(L2) Analyst Observation: Brown Mastic

Client Description: Wallboard Ceiling (Unfinished) With Client No.: 8B

Associated Mastic

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

1 Cellulose None Detected

Location: West Half Of Bldg., Middle

Location: West Half Of Bldg., Middle

Portion Facility:

Percent Non-Fibrous Material:

Percent Non-Fibrous Material:

Analyst Observation: White Sheetrock Lab No.: 6397089

Client Description: Wallboard Ceiling (Unfinished) With Client No.: 8C

Associated Mastic

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

2 Cellulose None Detected

Location: West Portion Of Bldg., South

Portion Facility:

Percent Non-Fibrous Material:

Lab No.: 6397089(L2)

Percent Asbestos:

Analyst Observation: Brown Mastic

Client Description: Wallboard Ceiling (Unfinished) With Client No.: 8C

Associated Mastic

2 Cellulose None Detected

Location: West Portion Of Bldg., South

Portion Facility:

Percent Non-Fibrous Material:

Analyst Observation: Off-White Vinyl Sheet Flooring Lab No.: 6397090

Client Description: Sheet Flooring, Brown Client No.: 9A

Room

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

2 Cellulose None Detected

Location: Southeast Corner Of Utility

Facility:

Percent Non-Fibrous Material:

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Percent Non-Asbestos Fibrous Material:

Date Received:

11/29/2017

Date Analyzed:

Dated: 12/6/2017 3:50:44

12/05/2017

Signature:

Tyolika Saah

Analyst:

Jyotika Shah

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 5 of 11



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive MI 49008 Kalamazoo

Client: SOI995

Report Date: 12/5/2017

552830 - PLM Report No.: Project: 4857 W. Columbia

Project No.: 077931.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Location: Southeast Corner Of Utility Lab No.: 6397090(L2) Analyst Observation: Yellow Mastic

Room Client Description: Sheet Flooring, Brown Client No.: 9A Facility:

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

None Detected

None Detected

Analyst Observation: Off-White Vinyl Sheet Flooring Location: Southwest Corner Of Utility Lab No.: 6397091

Client Description: Sheet Flooring, Brown Room Client No.: 9B Facility:

Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material: Percent Asbestos:

2 Cellulose None Detected

Location: Southwest Corner Of Utility Analyst Observation: Brown Mastic Lab No.: 6397091(L2)

Client Description: Sheet Flooring, Brown Room Client No.: 9B Facility:

Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material: Percent Asbestos:

None Detected

None Detected

Location: Utility Room Floor, Northwest Analyst Observation: Yellow/Brown Mastic Lab No.: 6397092

Corner Client No.: 10A Client Description: Mastic, Yellow Facility:

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

2 Cellulose None Detected

Analyst Observation: Yellow/Brown Mastic Location: Utility Room Floor, Northeast Lab No.: 6397093

Client Description: Mastic, Yellow Corner Client No.: 10B Facility:

Percent Non-Fibrous Material: Percent Asbestos: Percent Non-Asbestos Fibrous Material:

1 Cellulose None Detected

Location: Utility Room, Northeast Corner **Analyst Observation:** White Texture Lab No.: 6397094

Client Description: Textured Surfacing On Ceiling, White Facility: Client No.: 11A

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos: 100

None Detected None Detected

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

11/29/2017

Date Analyzed:

12/05/2017

Jyotika Shah

Signature: Analyst:

Typlika Saah

Dated: 12/6/2017 3:50:44

Approved By:

Frank E. Ehrenfeld, III Laboratory Director



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive MI 49008 Kalamazoo

Client: SOI995

12/5/2017 Report Date:

Report No.: 552830 - PLM

Project: 4857 W. Columbia Project No.: 077931.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Location: Utility Room, Northwest Corner Lab No.: 6397095 **Analyst Observation:** White Texture Facility: Client No.: 11B Client Description: Textured Surfacing On Ceiling, White Percent Non-Fibrous Material: Percent Asbestos: Percent Non-Asbestos Fibrous Material: None Detected None Detected **Analyst Observation:** White Texture Location: Utility Room, Southwest Corner Lab No.: 6397096 Client Description: Textured Surfacing On Ceiling, White Facility: Client No.: 11C Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos: None Detected None Detected Location: Northwest Corner Of Bldg. Lab No.: 6397097 Analyst Observation: Off-White Ceiling Tile Facility: Client No.: 12A Client Description: Ceiling Tile, 2' x 4', White Pinhole/Pockmarks Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material: Percent Asbestos: 45 Fibrous Glass None Detected Location: Southwest Corner Of Bldg. Analyst Observation: Off-White Ceiling Tile Lab No.: 6397098 Client Description: Ceiling Tile, 2' x 4', White Facility: Client No.: 12B Pinhole/Pockmarks Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material: Percent Asbestos: 55 Fibrous Glass None Detected Analyst Observation: Grey Cove Base Location: Restroom, North Wall Lab No.: 6397099 Client Description: Cove Base, Grey, 4" With Associated Facility: Client No.: 13A Mastic Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos: 100 None Detected

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Analyst Observation: Yellow Mastic

Percent Non-Asbestos Fibrous Material:

Client Description: Cove Base, Grey, 4" With Associated

Date Received:

None Detected

Client No.: 13A

Percent Asbestos:

None Detected

Lab No.: 6397099(L2)

11/29/2017

Date Analyzed:

Dated: 12/6/2017 3:50:44

12/05/2017

Signature:

Tyolika Saah

2 Cellulose

Analyst:

Jyotika Shah

Approved By:

Frank E. Ehrenfeld, III

Laboratory Director

Location: Restroom, North Wall

Percent Non-Fibrous Material:

Facility:



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449 Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive ΜI Kalamazoo 49008

Client: SOI995

Client No.: 13B

Report Date: 12/5/2017

Report No.:

552830 - PLM

Project:

4857 W. Columbia

Project No.: 077931.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Analyst Observation: White/Brown Texture Lab No.: 6397099(L3)

Client Description: Cove Base, Grey, 4" With Associated Client No.: 13A

Percent Non-Asbestos Fibrous Material: Percent Asbestos: 4 Cellulose

None Detected

Analyst Observation: Grey Cove Base Lab No.: 6397100

Client Description: Cove Base, Grey, 4" With Associated

Mastic

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

None Detected None Detected

Lab No.: 6397100(L2) Analyst Observation: Yellow Mastic

Client Description: Cove Base, Grey, 4" With Associated Client No.: 13B

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

2 Cellulose None Detected

Analyst Observation: White/Brown Texture **Lab No.:** 6397100(L3)

Client Description: Cove Base, Grey, 4" With Associated Client No.: 13B

Percent Non-Asbestos Fibrous Material: Percent Asbestos:

5 Cellulose None Detected

Location: Restroom, North Wall

Facility:

Percent Non-Fibrous Material:

Location: Restroom, East Wall

Facility:

Percent Non-Fibrous Material:

100

Location: Restroom, East Wall

Facility:

Percent Non-Fibrous Material:

Location: Restroom, East Wall

Facility:

Percent Non-Fibrous Material:

95

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

11/29/2017

Date Analyzed:

12/05/2017

Signature:

Tyolika Saah

Analyst:

Dated: 12/6/2017 3:50:44

Jyotika Shah

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 8 of 11



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054

Telephone: 856-231-9449 Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive Kalamazoo MI 49008

Client: SOI995

Report Date: 12/5/2017

Report No.: 552830 - PLM

Project:

4857 W. Columbia

Project No.: 077931.00

Appendix to Analytical Report

Customer Contact: Davin Ojala Analysis: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: cdavis@iatl.com iATL Account Representative: Shirley Clark Sample Login Notes: See Batch Sheet Attached Sample Matrix: Bulk Building Materials Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NY-DOH No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process) Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Dated: 12/6/2017 3:50:44 Page 9 of 11



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive Kalamazoo MI 49008

raidilia200 1111

Report Date: 12/5/2017

Report No.: 552830 - PLM

Project: 4857 W. Columbia

Project No.: 077931.00

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique - by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

Client: SOI995

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1) Analytical Step/Method: Initial Screening by PLM, EPA 600R-93/116

Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

2) Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3) Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004

Dated: 12/6/2017 3:50:44 Page 10 of 11



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449 Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive Kalamazoo MI 49008

Client: SOI995

Report Date: 12/5/2017

Report No.: 552830 - PLM

Project:

4857 W. Columbia

Project No.:

077931.00

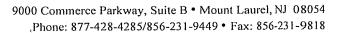
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

*With advance notice and confirmation by the laboratory.

**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

Dated: 12/6/2017 3:50:44 Page 11 of 11





Chain of Custody

-Bulk Asbestos -						
Contact Inform Client Company: Office Address: City, State, Zip: Fax Number:		Project Number: Project Name: Primary Contact: Office Phone:	077931.00 4857 W.COLUMBIA TONY HOSBEIN 269-323-3555			
Email Address:	hosbein@sme-usa.com	Cell Phone:	616-835-2298			
PLM: Bulk Asb PLM: Point Cou PC: via ELA PC: 400 Poin PC: 1600 Po PC: 1600 Po PLM: Instruction Analyze and Report Com Report All L						
* Additional o	charge and turnaround may be required ** Al	ternative Method (ex: EPA 600/R-0	4/004) may be recommended by Laboratory			
Turnaround Time Preliminary Results Requested Date: 2/6/17 4:00PM						
Chain of Custon Relinquished (Name / in Received (Name / in Sample Login (Name Analysis(Name(s) / QA/QC Review (Name Archived / Released	e/Organization): ANTHONY HOSBEIN/SME ATL): ne / iATL): iATL): ame / iATL):	Date: 1/28/47 Date: Date: Date: 1/2 / 05/17 Date: 1/2 / 5-17	Time: 5:00PM 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			

CHAIN OF CUSTODY LOG



3301 Tech Circle Drive Kalamazoo, MI, 49008

Phone

269-323-3555

FAX

269-323-3553

CLIENT NAME: Battle Creek TIFA

SITE ADDRESS: 4857 W. Columbia, Battle Creek, MI

BULK SAMPLE ANALYSIS REQUESTED: EPA 600R-93/116, 1993 with PLM Point Counting PC: 400 points

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster and wallboard system samples. Please analyze all plaster and wallboard system samples, and provide individual layer analysis for each sample. If asbestos is detected in an individual layer of a wallboard system sample, please provide composite analysis. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

AREA	SAMPLE	MATERIAL DESCRIPTION	SAMPLE LOCATION	#
#	# :			0000000
1	A	Block, grey and Mortar, light grey	Northeast bldg. corner	639.015
1	В	Block, grey and Mortar, light grey	Southeast bldg. corner	5 3 3 3 1 1 9 3
2	A	Brick, red and Mortar, grey	East wall, north window	## # # # # # # # # # # # # # # # # # #
2	В	Brick, red and Mortar, grey	East wall, south window	PAR WAR
3	Α	Concrete, grey	East wall, middle window	8387879
3	В	Concrete, grey	East wall, middle window	63000000
4	A	Brick, red and Mortar, white	Northeast bldg. corner	1 75 4 7 4 4 4 9 1
4	В	Brick, red and Mortar, white	Southeast bldg, corner	85.13.10.33
5	A	Rolled roofing system, white	Northeast corner of roof	90 13 1030
5	В	Rolled roofing system, white	Southeast corner of roof	16,397031
6	A	Roof flashing, black	Northeast corner of roof	11:197082
6	В	Roof flashing, black	Southeast corner of roof	<u> </u>
7	A	Wallboard wall system with associated joint compound	Northeast corner of bldg.	15 197032 187397033 18397034
7	В	Wallboard wall system with associated joint compound	Northwest corner of bldg.	1€39 708 5
7	С ~	Wallboard wall system with associated joint compound	Southeast corner of bldg.	18397086
8	A	Wallboard ceiling (unfinished) with associated mastic	West half of bldg., north portion	6397087
8	В	Wallboard ceiling (unfinished) with associated mastic	West half of bldg., middle portion	17:397:088
8	С	Wallboard ceiling (unfinished) with associated mastic	West portion of bldg., south portion	1803936391
9	А	Sheet flooring, brown	Southeast corner of utility room	190 67090
9	В	Sheet flooring, brown	Southwest corner of utility room	200 0 700
10	A	Mastic, yellow	Utility room floor, northwest corner	20. 3709 26337092
10	В	Mastic, yellow	Utility room floor, northeast corner	22: 397093
11	A	Textured surfacing on ceiling, white	Utility room, northeast corner	25; 397094

RELINQUISHED BY:	Tony Hosbein	170ATE: 11-28	17	TIME: 5:00pm
RECEIVED BY:		DATE:	TIME:_	

Please provide 5-day turnaround, emailed to Tony Hosbein at hosbein@sme-usa.com.

SME USE ONLY

Date Sampled: 11/28/17

SME Project #: 077931

CHAIN OF CUSTODY LOG



3301 Tech Circle Drive Kalamazoo, MI, 49008

Phone FAX

269-323-3555 269-323-3553

CLIENT NAME: Battle Creek TIFA

SITE ADDRESS: 4857 W. Columbia, Battle Creek, MI

BULK SAMPLE ANALYSIS REQUESTED: EPA 600R-93/116, 1993 with PLM Point Counting PC: 400 points

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster and wallboard system samples. Please analyze all plaster and wallboard system samples, and provide individual layer analysis for each sample. If asbestos is detected in an individual layer of a wallboard system sample, please provide composite analysis. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

AREA	SAMPLE	MATERIAL DESCRIPTION	SAMPLE LOCATION	#	
# :	#				
11	В	Textured surfacing on ceiling, white	Utility room, northwest corner	245.3	97095
11	С	Textured surfacing on ceiling, white	Utility room, southwest corner	283	97090
12	Α	Ceiling tile, 2'x4', white,	Northwest corner of bldg.	26.	97097
		pinhole/pockmarks	-	(C)	JIVUI
12	В	Ceiling tile, 2'x4', white,	Southwest corner of bldg.	27	97098
		pinhole/pockmarks		けけ	3 (030
13	Α	Cove base, grey, 4" with associated mastic	Restroom, north wall	28	97099
13	В	Cove base, grey, 4" with associated mastic	Restroom, east wall	2900	97093
			•	CLO	OMEDO

6397100

RELINQUISHED BY: Tony Hosbein	DATE: 11-28-17	Т	IME: 5:00pm
RECEIVED BY:	DATE:	TIME:	
Please provide 5-day turnaround, emailed	to Tony Hosbein at <u>hosbein@sme-usa</u>	.com.	
	_		

SME USE ONLY

Date Sampled: 11/28/17

SME Project #: 077931

APPENDIX C

PAINT CHIP SAMPLE CERTIFICATES OF ANALYSIS AND CHAIN OF CUSTODY FORMS

© 2017 SME 077931.00+121417+APAR



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive Kalamazoo MI 49008

Client: SOI995

Report Date: 12/6/2017

Report No.: 552809 - Lead Paint

Project: 4857 W. Columbia Project No.: 077931.00

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 6396854

Client No.: P1

Description: Maroon Paint

Location: Exterior, East Block Wall, 11/28/17

Result (% by Weight): 1.0

Result (ppm): 10000

Comments:

Lab No.: 6396855

Client No.: P2

Description: White Paint

Location:

Exterior, Trim, 11/28/17

Result (% by Weight): 0.074

Result (ppm):

Comments:

Lab No.: 6396856

Client No.: P3

Description: Red Paint

Location: Exterior, Roof Down Spout, 11/28/17

Result (% by Weight): 0.43

Result (ppm): 4300 Comments:

Lab No.: 6396857

Client No.: P4

Description: White Paint

Location:

Interior, Throughout, 11/28/17

Result (% by Weight): 1.4 Result (ppm): 14000

Comments:

Lab No.: 6396858

Client No.: P5

Description: Green Paint

Location: Interior, HVAC Duct, 11/28/17

Result (% by Weight): 0.39

Result (ppm): Comments:

6396859 Lab No.:

Client No.: P6

Description: Blue Paint

Location:

Interior, Restroom Walls, 11/28/17

Result (% by Weight): <0.0062

Result (ppm):

Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:

11/29/2017

Date Analyzed:

12/06/2017

Signature: Analyst:

Chad Shaffer

Approved By:

Frank E. Ehrenfeld, III



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054

Telephone: 856-231-9449 Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995

3301 Tech Circle Drive Kalamazoo MI 49008

Kalamazoo MI 4900

Client: SOI995

Report Date: 12/6/2017

Report No.: 552809 - Lead Paint

Project:

4857 W. Columbia

Project No.: 077931.00

Appendix to Analytical Report:

Customer Contact: Davin Ojala Analysis: ASTM D3335-85a

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: cdavis@iatl.com iATL Account Representative: Shirley Clark Sample Login Notes: See Batch Sheet Attached

Sample Matrix: Paint

Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and it our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by ASTM D3335-85a by AAS

Certification:

- National Lead Laboratory Program (NLLAP): AIHA-LAP, LLC No. 100188
- NYSDOH-ELAP No. 11021

Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B.

Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies.

LSD=0.2 ppm MDL=0.005% by weight. RL= 0.010% by weight (based upon 100 mg sampled).

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- * Insufficient sample provided to perform QC reanalysis (<200 mg)
- ** Not enough sample provided to analyze (<50 mg)
- *** Matrix / substrate interference possible.

Dated: 12/6/2017 4:19:17 Page 2 of 2



Chain of Custody

	Eminon	mentai Lead –	1
Contact Informa	ation		
Client Company:	SME	Project Number:	077931.00
Office Address:	3301 TECH CIRCLE DRIVE	Project Name:	4857 W.COLUMBIA
City, State, Zip:	KALAMAZOO, MI	Primary Contact:	TONY HOSBEIN
Fax Number:	269-323-3553	Office Phone:	269-323-3555
Email Address:	hosbein@sme-usa.com	Cell Phone:	616-835-2298
		·	
environmental sam recognized state promoted in the matrix/Method: Matrix/Method: Paint by AAS Wipe/Dust by Air by AAS: Soil by AAS: Water by AAS: Other Metals Toxicity Char Other Special Instruction	ples for lead (Pb). The accreditation ograms. : ASTM D3335-85a, 2009 : AAS: SW 846: 3050B: 700B, 2000 NIOSH 7082, 1994 EPA SW 846 (Soil) S-GF: ASTM D3559-03D, USEF (Cd, Zn, Cr) by AAS : acteristic Leaching Procedure (Table 1)	is through AIHA-LAP, L 010 PA 40CFR 141.11B, 201	0
	quested Date: 12-6-17/4:00PM Specific date / time 0 Day 5 Day 3 Day 2 Day 5 Day 5 Day 5 Day 5 Day 6 Specified. ** 1		5 Hour** RUSH**
Chain of Custod Relinquished (Name / in Sample Login (Name / in Analysis (Name (s)) QA/QC Review (Name / in Archived / Release	ne/Organization): Anthony Hosbein/SI (ATL): me / iATL): / iATL): (AVAGIT) lame / iATL): (IV IV I	Date: Date: Date: Date: Date: Date:	Time: 5:00PM Time: Time: 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7

CHAIN OF CUSTODY LOG



3301 Tech Circle Dr.

Kalamazoo Michigan, 49008

Phone FAX

269-323-3555 269-323-3553

CLIENT NAME: Battle Creek TIFA

SITE ADDRESS: 4857 W. Columbia Ave., Battle Creek, MI

ANALYSIS REQUESTED: LEAD by AAS: ASTM D3335-85a, 2009

Sample #	Description/Location	
P1	Maroon (exterior), east block wall	639685
P2	White (exterior), trim	639583
P3 .	Red (exterior), roof down spout	639581
P4	White (interior), throughout	639665
P5	Green (interior), HVAC duct	829888
P6	Blue (interior), restroom walls	83488

RELINQUISHED BY: RECEIVED BY:

Anthony Hosbein

TIME: 5:00pm

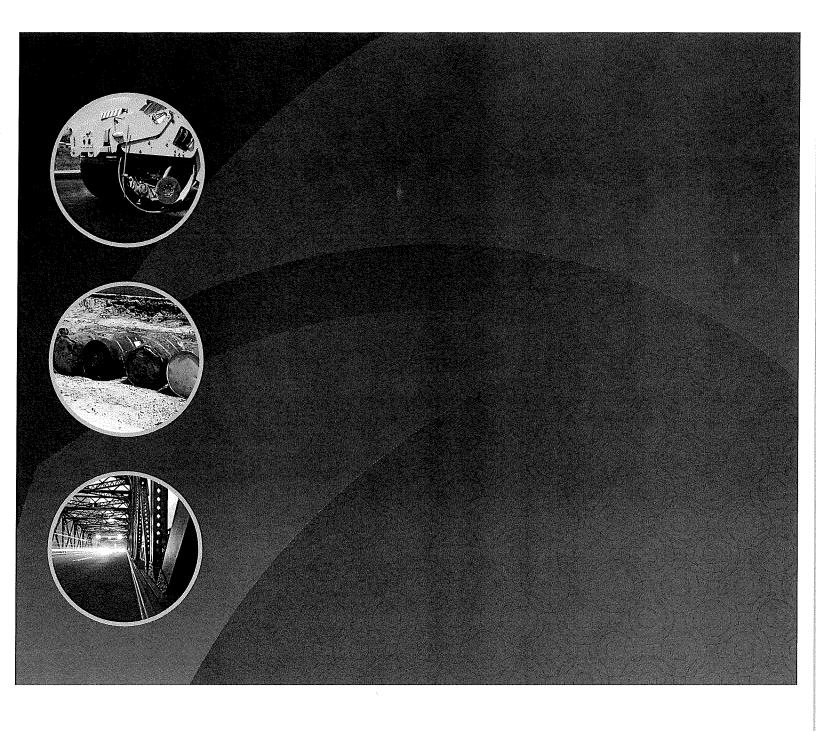
TIME:

Please provide 5day turnaround, emailed to Tony Hosbein at hosbein@sme-usa.com.

SME USE ONLY

Date Sampled: 11/28/17

SME Project #: 077931.00



Passionate People Building and Revitalizing our World

