HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING
FORMERLY: CES INC

LETTER OF TRANSMITTAL

Date: January 19, 2021 **JN:** 10193.060

To: Mr. Nick Mayhew, Proj. Manager
MDEP
17 State House Station
Augusta, ME 04333-0017

Re: 881 Meddybemps, Maine

WE ARE SENDING YOU

☒ ATTACHED ☐ BY EMAIL ☐ UNDER SEPARATE COVER _____

COPIES	DATE	DESCRIPTION
1	January 19, 2021	Limited Hazardous Building Materials Inventory
1	January 19, 2021	Remedial Cost Analysis
1	January 19, 2021	Thumb drive – Limited Hazardous Building Materials Inventory and Remedial Cost Analysis

THESE ARE TRANSMITTED AS CHECKED BELOW:

☐ For Approval
☒ For Your Use
☐ As Requested
☐ For Review and Comment
☐ Other
☐ Approved as Submitted
☐ Approved as Noted
☐ Returned for Corrections
☐ For Bids Due_____20___
☐ Resubmit___Copies for Approval
☐ Submit___Copies for Distribution
☐ Return___Corrected Prints
☐ Prints Returned After Loan

Remarks: Please do not hesitate to contact me if you have any questions.

Copy To: _____ Signed: _____

One Merchants Plaza, Suite 701, Bangor, ME 04401
T: 207.989.4824 | HALEYWARD.COM

CES INC
Engineers • Environmental Scientists • Surveyors

LIMITED HAZARDOUS BUILDING MATERIALS INVENTORY

CHARLOTTE SMITH PROPERTY
881 MAIN STREET
MEDDYBEMPS, MAINE

Prepared for: **State of Maine**
Department of Environmental Protection
Division of Remediation & Waste Management
Bangor, Maine

January 19, 2021
JN: 10193.060

Report Prepared By:
CES, Inc.
One Merchants Plaza
Suite 701
Bangor, Maine 04401
207.989.4824

Corporate Office
One Merchants Plaza
Suite 701
Bangor, ME 04401
207.989.4824

www.cesincusa.com

EXECUTIVE SUMMARY

CES, Inc. (CES) completed a limited Hazardous Materials Inventory (HMI) of the residential structure associated with the Charlotte Smith property located at 881 Main Street in Meddybemps, Maine (Site). The property consists of a ranch-style, residential structure and a gambrel-roofed garage. The project scope of work included only the assessment of the residential structure. The residential structure consists of a single-story, wood-framed building with a sloped asphalt shingle roof and includes both an attic and a basement. The building was vacant at the time of the assessment. This assessment was completed to identify Asbestos-Containing Materials (ACM) and Potentially Hazardous Materials/Wastes that would require special handling and disposal or would be regulated prior to/during renovations or demolition of the structure. The assessment was completed on November 18, 2020.

The following is a summary of the results of the limited HMI:

1. ACM identified by CES as present on the interior of the Site structure includes the following:

   Interior:
   - Brown pattern sheet flooring (Sample MS-001A)
   - Blue flower with orange sheet flooring (Sample MS-004A)
   - Cream pattern sheet flooring (Sample MS-007A)
   - Green sheet flooring (Sample MS-009A)

   ACM was not identified on the exterior of the structure.

2. Potentially Hazardous Materials/Wastes and Universal Wastes identified by CES include mercury-containing thermostat, warfarin-containing rat and mouse killer, and sodium vapor lights were present in the building. An above-ground storage tank (AST) was identified at the rear of the building.

Should the identified materials above be impacted by planned renovation, demolition, site work, or any other disturbance, removal or remediation of the identified materials is required prior to disturbance, in accordance with applicable state and federal regulations.

TABLE OF CONTENTS

TABLES

APPENDICES

1.0 INTRODUCTION

CES, Inc. (CES) completed a limited Hazardous Materials Inventory (HMI) of the residential structure associated with the Charlotte Smith property located at 881 Main Street in Meddybemps, Maine (Site). The property consists of both a ranch-style, residential structure and a gambrel-roofed garage. The project scope of work included only the assessment of the residential structure. The residential structure consists of a single-story, wood-framed building with a sloped asphalt shingle roof and includes both an attic and a basement. The building was vacant at the time of the assessment. This assessment was completed to identify Asbestos-Containing Materials (ACM) and Potentially Hazardous Materials/Wastes that would require special handling and disposal or would be regulated prior to/during renovations or demolition of the structure. The assessment was completed on November 18, 2020.

2.0 ASBESTOS CONTAINING MATERIALS

2.1 Asbestos Identification Survey

The Asbestos Identification Survey was conducted in accordance with the Maine Department of Environmental Protection (MDEP) Asbestos Management Regulations (06-096 C.M.R. Ch. 425 (2011)) to provide information regarding the presence of interior and exterior ACM associated with the Site structure. Ms. Deborah Kasik (CES), a licensed State of Maine asbestos inspector, performed the field survey on November 18, 2020. A copy of Ms. Kasik's Asbestos Inspector certification is included in **Appendix A**.

Completion of the Asbestos Identification Survey included:

- Visual identification of suspect ACM on the interior and exterior of the Site structure.
- Collection of 29 bulk samples of identified suspect ACM in accordance with MDEP regulations.
- Quantification of ACM identified by laboratory analysis.

As with any scientific study, an asbestos identification survey is subject to a variety of limitations. Limitations to be considered when interpreting the results of the survey performed on this structure include the following:

- An asbestos identification survey may not be able to identify all ACM present throughout a facility.
- Variations in building materials used during construction and subsequent renovations.
- Inaccessible rooms and areas within wall cavities, under floors, and above solid ceilings.
- Assessment of the attic for the presence of suspect ACM was limited due to the presence of large amounts of stored materials and limited access due to safety concerns raised by the owner of the building.

Bulk samples of suspect ACM collected during the survey were submitted to EMSL Analytical, Inc. (EMSL) of South Portland, Maine for analysis. Bulk samples were analyzed using the MDEP required analytical methods: "PLM-EPA 600/R-93/116" (for surfacing, thermal system insulation, and cementitious materials), and "PLM NOB-EPA 600/R-93/116" (for non-friable organically bound materials (NOBs)) (e.g., floor tile, adhesives, and roofing) with "gravimetric reduction".

EMSL's laboratory is certified to perform asbestos analysis by both the National Voluntary Laboratory Accreditation Program (NVLAP) and the American Industrial Hygiene Association (AIHA). EMSL is a MDEP licensed Asbestos Analytical Laboratory. Copies of EMSL's laboratory certifications are included in **Appendix B**. Laboratory analytical results and chain of custodies are **Appendix C**.

The following is a summary of field findings and laboratory analytical results of the survey:

A total of 29 samples of identified suspect ACM were collected from the interior and exterior of the Site structure, includes the following:

Interior:

- Seven types of sheet flooring
- Asphalt paper underlayment beneath tile flooring
- One type of ceiling tile
- Sheetrock wall and ceiling material

Exterior:

- Asphalt paper present beneath wood siding
- Asphalt roofing shingles

A summary of the building materials present on the interior and exterior of the building is included as **Table 1**.

The number of samples collected at each structure was determined by the number of homogeneous sampling areas identified by the inspector. A homogeneous area is an area that based on the inspector's judgment, contains materials that are uniform in color and texture and are present on similar building or utility components.

2.2 Asbestos Sampling Results

According to MDEP regulations, locations and occurrences of materials that tested positive and are homogenous (similar in color and texture) in nature are considered as ACM, provided the material contains greater than or equal to (≥) one percent (1%) asbestos based on laboratory analysis. A material can only be considered negative for asbestos if analytical results from all bulk samples in a group of samples representing that material indicate an asbestos content of less than (<) 1%.

ACM identified by laboratory analysis consisted of:

Interior:

- Brown pattern sheet flooring (Sample MS-001A)
- Blue flower with orange sheet flooring (Sample MS-004A)
- Cream pattern sheet flooring (Sample MS-007A)
- Green sheet flooring (Sample MS-009A)

ACM was not identified on the exterior of the structure.

A summary of identified asbestos-containing materials is included in **Table 2**. A photographic log of sample locations is included as **Appendix D**. Sample locations and identified ACM are shown on the Field Sketch included as **Appendix E**.

3.0 POTENTIAL HAZARDOUS MATERIALS ASSESSMENT

CES conducted a visual assessment of the interior and exterior of the structure to identify potential hazardous material and potentially hazardous wastes, including both Universal Waste and potential Universal Wastes, used or stored at the structure. A summary of identified materials is included as **Table 3**.

4.0 CONCLUSIONS AND RECOMMENDATIONS

This investigation revealed the following relevant information:

Asbestos-Containing Materials
Asbestos-containing materials were identified as follows:

Interior:

- Brown pattern sheet flooring (Sample MS-001A)
- Blue flower with orange sheet flooring (Sample MS-004A)
- Cream pattern sheet flooring (Sample MS-007A)
- Green sheet flooring (Sample MS-009A)

ACM was not identified on the exterior of the structure.

Potentially Hazardous Materials/Wastes and Universal Wastes
Potentially Hazardous Materials/Wastes and Universal Wastes identified within the Site structure includes:

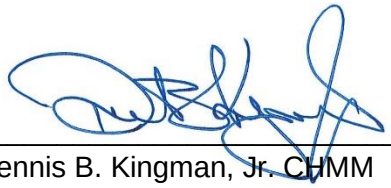
- Mercury-containing thermostat
- Eight one-gallon containers of warfarin-containing[1] rat and mouse killer (observed to be in poor condition)
- Sodium vapor lamps
- Above-ground Storage Tank

[1]Due to the deteriorated condition of the label on the containers of rat and mouse killer, the percentage of warfarin contained within the material is assumed to be equal to or greater than 0.3% for the purposes of this report, therefore meeting the criteria and characteristics of a hazardous waste as described in State of Maine Identification of Hazardous Wastes 06-096 C.M.R. Ch. 850).

5.0 REPORT CERTIFICATION

This report was prepared and reviewed by CES, Inc. for the use of MDEP and its constituents and should not be reproduced without MDEP's full, written authorization.

Deborah A. Kasik
Project Scientist
MDEP Certified Asbestos Inspector License No. AI-0177



Dennis B. Kingman, Jr. CHMM
Vice President / Senior Project Manager II

DAK/DBK/jok

TABLES

TABLE 1
SUMMARY OF SUSPECT BUILDING MATERIALS
881 MAIN STREET
MEDDYBEMPS, MAINE

Room Number	Drywall (Wall and Ceiling)	Sheet Flooring	Sheet Flooring Underlayment	1x1 Ceiling Tiles	Asphalt Paper	Asphalt Roof Shingles
Kitchen (Rm. #1) including closet	√	√	√	√		
Bathroom (Rm. #2)	√	√	√			
Bedroom #1 (Rm. #3)	√	√	√	√		
Bedroom #2 (Rm. #4)	√	√	√	√		
Bedroom #3 (Rm. #5)	√	√	√	√		
Hallway (Rm. #6)	√	√	√	√		
Living Room (Rm. #7)	√	√	√	√		
Exterior					√	√

Note:
SF = Square Feet
LF = Linear Feet
EA = Each

TABLE 2
SUMMARY OF IDENTIFED ACM
881 MAIN STREET
MEDDYBEMPS, MAINE

Room Number	Sample #	ACM Sheet Flooring - Brown Pattern Square Foot (SF)	ACM Sheet Flooring - Green (SF)	ACM Sheet Flooring - Blue Flowers with Orange (SF)	ACM Sheet Flooring - Cream Pattern (SF)	Comment
Kitchen (Room #1), including closet	MS-001A	130				Double layer of sheet flooring
Bathroom (Room #2)	MS-009A		40			Double layer of sheet flooring
Bedroom #1 (Room #3)	MS-004A			120		Single layer of sheet flooring
Bedroom #2 (Room #4)	MS-007A				120	Top layer of a two-layered sheet flooring system
Bedroom #3 (Room #5)	MS-007A				145	Top layer of a two-layered sheet flooring system
Hallway (Room #6; partial)	MS-007A				30	Top layer of a two-layered sheet flooring system
Hallway (Room #6; partial)	MS-001A				30	Double layer of sheet flooring
TOTAL		**130**	**40**	**120**	**325**	

Note:
SF = Square Feet
LF = Linear Feet
EA = Each

TABLE 3
HAZARDOUS MATERIALS INVENTORY
881 MAIN STREET
MEDDYBEMPS, MAINE

Identified Hazardous Materials	Quantity (Each)	Quantity Per Unit	Total Estimated Quantity
Sodium Vapor Lights	2	1 / EA	2
Mercury-containing Thermostats	1	5 lbs/EA	5
Above-Ground Storage Tank (AST)	1	1 / EA	1
Warfarin-containing Rat and Mouse Killer	8	5 lbs/EA	40
Sub-Total			
Transportation (per pickup)	1	-	-
Labor (Mandays)	1	-	-
Sub-Total			
TOTAL			

LF = Linear Feet
EA = Each
lb = Pound

APPENDIX A

ASBESTOS INSPECTOR CERTIFICATION

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JANET T. MILLS
GOVERNOR

MELANIE LOYZIM
ACTING COMMISSIONER

December 3, 2020

CES, Inc.
One Merchants Plaza, Suite 701
Bangor, ME 04401

Dear Licensee:

Asbestos application(s) for individual certification of the **two** employee(s) listed below have been received and **approved**. Individual certification numbers are listed below and wallet card(s) are enclosed. Card(s) are property of the individual to whom each is issued. Your responsibility as a licensee is to ensure delivery of the cards to persons in your employment. This letter should be retained for your company files as record of certification. Please attach 1 updated passport size photo with every application.

Remember, in Maine all **certified employees** working on an asbestos abatement project, whether conducting removal/repair, air monitoring, design, inspection, or analysis functions, **must work for a State of Maine licensed asbestos firm** and carry his/her wallet card(s) on the job site.

As a reminder, prior to renewing your asbestos certification, the State of Maine **requires** an annual refresher course to be taken before submitting a renewal application. A certificate shall expire one year from the last day of the month from the date of issuance, **or on the last day of the month that the training certificate expires**, whichever is sooner.

All our asbestos forms can be found at https://www.maine.gov/dep/waste/asbestos/forms.html
Thank you for your cooperation and your completed application(s).

Name	Category	Certification #	Exp. Date
Deborah A. Kasik	Inspector	AI-0177	11/30/2021
Deborah A. Kasik	Management Planner	MP-0178	11/30/2021

Sincerely,

Sandra J. Moody, Environmental Specialist
Division of Remediation
Bureau of Remediation and Waste Management

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
(207) 287-7688 FAX: (207) 287-7826

BANGOR
106 HOGAN ROAD, SUITE 6
BANGOR, MAINE 04401
(207) 941-4570 FAX: (207) 941-4584

PORTLAND
312 CANCO
PORTLAND
(207) 822-6300 FAX: (207) 822-6303

website: www.maine.gov/dep

APPENDIX B

ASBESTOS ANALYTICAL LABORATORY CERTIFICATIONS

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: 100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

✓	**INDUSTRIAL HYGIENE**	Accreditation Expires: November 01, 2020
✓	**ENVIRONMENTAL LEAD**	Accreditation Expires: November 01, 2020
✓	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires: November 01, 2020
☐	**FOOD**	Accreditation Expires:
☐	**UNIQUE SCOPES**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Beth Bair

Elizabeth Bair
Chairperson, Analytical Accreditation Board

Cheryl O. Morton

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 17 – 09/11/2018

Date Issued: 11/30/2018

AIHA Laboratory Accreditation Programs, LLC
SCOPE OF ACCREDITATION

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: **100194**
Issue Date: 02/19/2019

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 02/01/1989

IHLAP Scope Category	Field of Testing (FoT) (FoTs cover all relevant IH matrices)	Technology sub-type/ Detector	Published Reference Method/Title of In-house Method	Method Description or Analyte *(for internal methods only)*
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1003 Modified	
			NIOSH 1005 Modified	
			NIOSH 1400 Modified	
			NIOSH 1500 Modified	
			NIOSH 1501 Modified	
			NIOSH 1550 Modified	
			NIOSH 1603 Modified	
			NIOSH 2000 Modified	
		GC/ECD	NIOSH 5502 Modified	
			NIOSH 5503 Modified	
			NIOSH 5510 Modified	
			OSHA 1010 Modified	
	GC/MS		EPA TO-15	
	Gas Chromatography (Diffusive Samplers)		NIOSH 1501 Modified	
	Ion Chromatography (IC)		NIOSH 6004 Modified	
			NIOSH 6011	
			NIOSH 7903	
			OSHA ID-214	
			OSHA ID-215 Modified Version 2	
	Liquid Chromatography	HPLC/FL	NIOSH 2016 Modified	
		HPLC/UV	NIOSH 5506 Modified	
		LC/MS	NIOSH 9111 Modified	

IHLAP Scope Category	Field of Testing (FoT) (FoTs cover all relevant IH matrices)	Technology sub-type/ Detector	Published Reference Method/Title of In-house Method	Method Description or Analyte *(for internal methods only)*
Spectrometry Core	Atomic Absorption	CVAA	NIOSH 6009 Modified	
			OSHA ID-140 Modified	
			OSHA ID-145	
		FAA	NIOSH 7082	
		GFAA	NIOSH 7105	
	Inductively-Coupled Plasma	ICP/MS	NIOSH 7300 Modified	
		ICP/AES	NIOSH 7300 Modified	
	X-ray Diffraction (XRD)		NIOSH 7500 Modified	
			OSHA ID-142 Modified	
	UV/VIS (Colorimetric)		NIOSH 6010 Modified	
Asbestos/Fiber Microscopy Core	Polarized Light Microscopy (PLM)		EPA 600/R-93/116	
	Phase Contrast Microscopy (PCM)		NIOSH 7400	
	Transmission Electron Microscopy (TEM)		EPA AHERA - 40 CFR Part 763	EPA AHERA Method (40 CFR 763, Subpart E, Appendix A, Mandatory Method
			NIOSH 7402	
Miscellaneous Core	Gravimetric		NIOSH 0500	
			NIOSH 0600	
			NIOSH 5524	
	Thermo-optical Analysis (TOA)		NIOSH 5040	
Beryllium Testing	Inductively-Coupled Plasma	ICP/MS	NIOSH 7300	
			NIOSH 7303	

A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 500094-0

EMSL Analytical, Inc.

South Portland, ME

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2019-10-01 through 2020-09-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EMSL Analytical, Inc.
161 John Roberts Road
South Portland, ME 04106
Mr. Zackary Carbee
Phone: 207-517-6921
Email: zcarbee@emsl.com
http://www.emsl.com

ASBESTOS FIBER ANALYSIS **NVLAP LAB CODE 500094-0**

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

State of Maine
Department of Environmental Protection

LICENSE

EMSL Analytical, Inc.

Asbestos Analytical Laboratory
(Bulk)

License Number: LB-0039

Expiration Date: 10/31/2020

State of Maine
Department of Environmental Protection

LICENSE

EMSL Analytical, Inc.

Asbestos Analytical Laboratory
(Air)

License Number: LA-0038 **Expiration Date:** 10/31/2020

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JANET T. MILLS
GOVERNOR

GERALD D. REID
COMMISSIONER

September 10, 2019

Attn: Anastasia Krakhaleva, *Quality Assurance Specialist*
EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

Dear Ms. Krakhaleva,

This is to confirm that the Maine Department of Environmental Protection is in receipt of your request to add the following labs to your licensing of Analytical Laboratories: Boston, MA., E. Weymouth, MA and South Portland, Maine.

LA-0038 for Asbestos Analytical Laboratory (Air), expires on 10/31/2020
LB-0039 for Asbestos Analytical Laboratory (Bulk), expires on 10/31/2020

Remember each laboratory must have certified individual(s) within the lab to perform analyses.

If you need any further assistance please feel free to contact me at (207) 287-7751 or e-mail at sandy.j.moody@maine.gov.

Sincerely,

Sandra J. Moody, Environmental Specialist
Division of Remediation
Bureau of Remediation and Waste Management

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
(207) 287-7688 FAX: (207) 287-7826
RAY BLDG., HOSPITAL ST.

BANGOR
106 HOGAN ROAD, SUITE 6
BANGOR, MAINE 04401
(207) 941-4570 FAX (207) 941-4584

PORTLAND
312 CANCO ROAD
PORTLAND, MAINE 04103
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, MAINE 04679-2094
(207) 764-0477 FAX: (207) 760-3143

web site: www.maine.gov/dep

PORTLAND - INDIVIDUAL ANALYST CERTIFICATIONS

State of Maine

November 11, 2019

Employee Name	*Lab Location*	*State Certified*	*Certification No.*	*Type of Cert.*	*Exp. Date*
Zachary Carbee	S. Portland	Maine	BA-0174	Asbestos PLM Analyst	8/31/2020
Stephen Severn	S. Portland	Maine	AA-0497	Asbestos PCM Analyst	10/28/2020
Stephen Severn	S. Portland	Maine	BA-0178	Asbestos PLM Analyst	10/28/2020
Thomas Stegerman	S. Portland	Maine	BA-0197	Asbestos PLM Analyst	10/28/2020
Samantha Voigt	S. Portland	Maine	BA-0188	Asbestos PLM Analyst	8/31/2020

APPENDIX C

ASBESTOS LABORATORY ANALYTICAL RESULTS

EMSL Analytical, Inc.

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

EMSL Order ID: 622001640
Customer ID: CESI62
Customer PO:
Project ID:

Attn: Deb Kasik
CES/Summit Environmental Consultants
1 Merchant's Plaza
7th Floor
Bangor, ME 04401

Proj: 10193.060 Meddybemps

Phone: (207) 989-4824
Fax: (207) 989-4881
Collected: 11/18/2020
Received: 11/19/2020
Analyzed: 11/25/2020

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

Client Sample ID: MS-001A **Lab Sample ID:** 622001640-0001
Sample Description: KITCHEN/(2ND LAYER) S.F. BROWN PATTERN

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Brown	0.0%	87.5%	**12.5% Chrysotile**	

Client Sample ID: MS-001B **Lab Sample ID:** 622001640-0002
Sample Description: KITCHEN/(2ND LAYER) S.F. BROWN PATTERN

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020				Positive Stop (Not Analyzed)	

Client Sample ID: MS-001C **Lab Sample ID:** 622001640-0003
Sample Description: KITCHEN/(2ND LAYER) S.F. BROWN PATTERN

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020				Positive Stop (Not Analyzed)	

Client Sample ID: MS-002A **Lab Sample ID:** 622001640-0004
Sample Description: LIVING ROOM/(TOP) S.F. WOOD PATTERN

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Brown	0.0%	100%	None Detected	

Client Sample ID: MS-002B **Lab Sample ID:** 622001640-0005
Sample Description: LIVING ROOM/(TOP) S.F. WOOD PATTERN

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Brown	0.0%	100%	None Detected	

Client Sample ID: MS-002C **Lab Sample ID:** 622001640-0006
Sample Description: LIVING ROOM/(TOP) S.F. WOOD PATTERN

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Brown	0.0%	100%	None Detected	

Client Sample ID: MS-003A **Lab Sample ID:** 622001640-0007
Sample Description: LIVING ROOM/(2ND) S.F. BLACK & WHITE

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	White/Black	0.0%	100%	None Detected	

EMSL Analytical, Inc.

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

EMSL Order ID: 622001640
Customer ID: CESI62
Customer PO:
Project ID:

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

Client Sample ID: MS-003B ***Lab Sample ID:*** **622001640-0008**
Sample Description: LIVING ROOM/(2ND) S.F. BLACK & WHITE

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	White/Black	0.0%	100%	None Detected	

Client Sample ID: MS-003C ***Lab Sample ID:*** **622001640-0009**
Sample Description: LIVING ROOM/(2ND) S.F. BLACK & WHITE

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	White/Black	0.0%	100%	None Detected	

Client Sample ID: MS-004A ***Lab Sample ID:*** **622001640-0010**
Sample Description: BEDROOM #1/(TOP) S.F. BLUE FLOWERS W/ ORANGE

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Blue	0.0%	78.2%	**21.8% Chrysotile**	

Client Sample ID: MS-004B ***Lab Sample ID:*** **622001640-0011**
Sample Description: BEDROOM #1/(TOP) S.F. BLUE FLOWERS W/ ORANGE

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020				Positive Stop (Not Analyzed)	

Client Sample ID: MS-004C ***Lab Sample ID:*** **622001640-0012**
Sample Description: BEDROOM #1/(TOP) S.F. BLUE FLOWERS W/ ORANGE

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020				Positive Stop (Not Analyzed)	

Client Sample ID: MS-005A ***Lab Sample ID:*** **622001640-0013**
Sample Description: BEDROOM #2/S.F. LT. GRAY GEOMETRIC

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Gray	0.0%	100%	None Detected	

Client Sample ID: MS-005B ***Lab Sample ID:*** **622001640-0014**
Sample Description: BEDROOM #2/S.F. LT. GRAY GEOMETRIC

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Gray	0.0%	100%	None Detected	

Client Sample ID: MS-005C ***Lab Sample ID:*** **622001640-0015**
Sample Description: BEDROOM #3/S.F. LT. GRAY GEOMETRIC

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Gray	0.0%	100%	None Detected	

EMSL Analytical, Inc.

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

EMSL Order ID: 622001640
Customer ID: CESI62
Customer PO:
Project ID:

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

Client Sample ID: MS-006A ***Lab Sample ID:*** **622001640-0016**
Sample Description: KITCHEN/ASPHALT PAPER BENEATH FLOORING

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Black	0.0%	100%	None Detected	

Client Sample ID: MS-006B ***Lab Sample ID:*** **622001640-0017**
Sample Description: BED #2/ASPHALT PAPER BENEATH FLOORING

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Black	0.0%	100%	None Detected	

Client Sample ID: MS-007A ***Lab Sample ID:*** **622001640-0018**
Sample Description: HALLWAY/S.F. CREAM PATTERN

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Beige	0.0%	79.0%	**21.0% Chrysotile**	

Client Sample ID: MS-007B ***Lab Sample ID:*** **622001640-0019**
Sample Description: HALLWAY/S.F. CREAM PATTERN

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020				Positive Stop (Not Analyzed)	

Client Sample ID: MS-007C ***Lab Sample ID:*** **622001640-0020**
Sample Description: HALLWAY/S.F. CREAM PATTERN

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020				Positive Stop (Not Analyzed)	

Client Sample ID: MS-008A ***Lab Sample ID:*** **622001640-0021**
Sample Description: KITCHEN/SHEETROCK

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	11/25/2020	White	5.0%	95.0%	None Detected	

Client Sample ID: MS-008B ***Lab Sample ID:*** **622001640-0022**
Sample Description: BEDROOM #1/SHEETROCK

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	11/25/2020	White	5.0%	95.0%	None Detected	

Client Sample ID: MS-008C ***Lab Sample ID:*** **622001640-0023**
Sample Description: BEDROOM #2 CLOSET/SHEETROCK

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	11/25/2020	White	5.0%	95.0%	None Detected	

EMSL Analytical, Inc.

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

EMSL Order ID: 622001640
Customer ID: CESI62
Customer PO:
Project ID:

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

Client Sample ID: MS-009A **Lab Sample ID:** **622001640-0024**
Sample Description: BATHROOM/S.F. GREEN?

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Green	0.0%	75.3%	**24.7% Chrysotile**	

Client Sample ID: MS-009B **Lab Sample ID:** **622001640-0025**
Sample Description: BATHROOM/S.F. GREEN?

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020				Positive Stop (Not Analyzed)	

Client Sample ID: MS-009C **Lab Sample ID:** **622001640-0026**
Sample Description: BATHROOM/S.F. GREEN?

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020				Positive Stop (Not Analyzed)	

Client Sample ID: MS-010A **Lab Sample ID:** **622001640-0027**
Sample Description: BATH/1 X 1 CT

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	11/25/2020	Brown	98.0%	2.0%	None Detected	

Client Sample ID: MS-010B **Lab Sample ID:** **622001640-0028**
Sample Description: KITCHEN/1 X 1 CT

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	11/25/2020	Brown	98.0%	2.0%	None Detected	

Client Sample ID: MS-010C **Lab Sample ID:** **622001640-0029**
Sample Description: BED #2/1 X 1 CT

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	11/25/2020	Brown	98.0%	2.0%	None Detected	

Client Sample ID: MS-011A **Lab Sample ID:** **622001640-0030**
Sample Description: EXTERIOR/ASPHALT PAPER

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Black	0.0%	100%	None Detected	

Client Sample ID: MS-011B **Lab Sample ID:** **622001640-0031**
Sample Description: EXTERIOR/ASPAHLT PAPER

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Black	0.0%	100%	None Detected	

EMSL Analytical, Inc.

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

EMSL Order ID: 622001640
Customer ID: CESI62
Customer PO:
Project ID:

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

Client Sample ID: MS-011C ***Lab Sample ID:*** **622001640-0032**
Sample Description: EXTERIOR/ASPHALT PAPER

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Black	0.0%	100%	None Detected	

Client Sample ID: MS-012A ***Lab Sample ID:*** **622001640-0033**
Sample Description: EXTERIOR/ASPHALT ROOF SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Black	0.0%	100%	None Detected	

Client Sample ID: MS-012B ***Lab Sample ID:*** **622001640-0034**
Sample Description: EXTERIOR/ASPHALT ROOF SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Black	0.0%	100%	None Detected	

Client Sample ID: MS-012C ***Lab Sample ID:*** **622001640-0035**
Sample Description: EXTERIOR/ASPHALT ROOF SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	11/25/2020	Black	0.0%	100%	None Detected	

PLM: ME CERT # BA-0188
PLM EPA NOB: ME CERT # BA-0188

Analyst(s):

Samantha Voigt PLM (6)
PLM Grav. Reduction (21)

Reviewed and approved by:

Samantha Voigt, Laboratory Manager
or Other Approved Signatory

Samples analyzed by EMSL Analytical, Inc. South Portland, ME NVLAP Lab Code 500094-0, MA AA000236, VT AL197271, ME LM-0039, CT PH-0346

Initial report from: 11/25/202013:22:05

OrderID: 622001640

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number *(lab use only)*: 622001640

EMSL Analytical, Inc.
161 John Roberts Road
South Portland, ME 04106
Phone (207) 517-6921
Fax (207) 517-6922

Company Name : CES INC		**EMSL Customer ID:**	
Street: 1 Merchant's Plaza, Suite 701 7th Floor		**City:** Bangor	**State or Province:** ME
Zip/Postal Code: 04401	**Country:** US	**Telephone #:** 2079894824	**Fax #:** 207-989-4881
Report To (Name): Deb Kasik		**Please Provide Results via:** ☐ Fax ☐ Email	
email Address: dkasik@cesincusa.com		**Purchase Order Number:**	
Client Project ID: 16193.060 Meddybemps		**EMSL Project ID** *(internal use only)*:	
State or Province Collected: ME		**CT only** ☐ **Commercial/Taxable** ☐ **Residential/Tax Exempt**	

EMSL-Bill to: ☐ Same ☑ Different - *If bill to is different note instructions in comment. Third party billing requires written authorization from third party*

Turnaround Time (TAT) Options Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 32 Hour* | ☐ 48 Hour | ☐ 72 Hour | ■ 96 Hour | ☐ 1 Week | ☐ 2 Week

*32 Hour TAT available for select tests only; samples must be submitted by 11:30am.
Please call ahead for large projects and/or turnaround times 6 hours or less.

PLM - Bulk (reporting limit)	TEM – Bulk
■ PLM EPA 600/R-93/116 (<1%)	☐ TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1
■ PLM EPA NOB (<1%)	☐ NY ELAP Method 198.4 non-friable - NY
Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2
☐ NIOSH 9002 (<1%)	☐ TEM Qualitative via Filtration Prep Technique
☐ NY ELAP Method 198.1- friable - NY	☐ TEM Qualitative via Drop Mount Prep Technique
☐ NY ELAP Method 198.6 NOB- non-friable - NY	**Other tests (please specify)**
☐ NY ELAP Method 198.8- Vermiculite Surfacing Material	
☐ OSHA ID-191 Modified	☐
☐ EMSL Standard Addition Method	

■ **Positive Stop – Clearly Identify Homogenous Areas (HA)** **Date Sampled:** 11/18/2020

Sampler's Name: Deb Kasik **Sampler's Signature:** Deborah A Kasik

Sample #	HA #	Sample Location	Material Description
MS-001A		Kitchen (5nd layer)	SF Brown pattern
B		"	"
C		"	"
MS-002A		Living Room (top)	SF Wood pattern
B		"	"
C		"	"

Client Sample # (s): -

Total # of Samples:

Relinquished by (Client): Deborah A Kasik **Date:** 11/18/20 **Time:** 4:00pm

Received by (Lab): Samantha Voigt **Date:** 11/19/2020 **Time:** 10:35 am

Comments/Special Instructions:
NOB per MDEP
BillTo: CES/Summit Environmental Consultants, 1 Merchant's Plaza, 7th Floor, Bangor, ME, 04401, US
Attention: Deb Kasik Phone: 2079894824 Email: dkasik@cesincusa.com Purchase Order:
SF Sheet flooring

RECEIVED
NOV 19 2020

Page 1 of 3

Controlled Document – COC-01 Asbestos Bulk – R4 – 09/10/2019

EMSL Analytical, Inc.'s (DBA: LA Testing) Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical Inc. constitutes acceptance and acknowledgment of all terms and conditions.

E. FedEx (2 of 2) 7959 7489 753[illegible]

OrderID: 622001640

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (*lab use only*):

622001640

EMSL Analytical, Inc.
161 John Roberts Road

South Portland, ME 04106
Phone (207) 517-6921
Fax (207) 517-6922

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

Sample #	HA #	Sample Location	Material Description
MS-003A		Living Room (2nd)	S.F. black & white
B		"	"
C		"	"
MS-004A		Bedroom #1 (top)	S.F. Blue flowers/orange
B		"	"
C		"	"
MS-005A		Bedroom #2	SF Lt gray geometric
B		" "	"
C		Bedroom #3	"
MS-006A		~~Living Room~~ Kitchen	Asphalt paper beneath flooring
MS-006B		Bed #2	"
MS-007A		Walkway	S.F. cream pattern
B		"	"
C		"	"
MS-008A		Kitchen	Sheetrock
B		Bedroom #1	"
C		Bedroom #2 closet	"
MS-009A		Bathroom (2nd)	SF green?
B		"	"
C		"	"
MS-010A		Bath	1x1 CT

***Comments/Special Instructions:**
NOB PER MEDEP

RECEIVED
NOV 19 2020
By

Page 2 of 3 pages

6220016 40

MS-010B	Kitchen	1x1 CT
MS-010C	Bed #2	1x1 CT
MS-011A	Exterior	Asphalt paper
B	"	"
C	"	"
MS-012A	Exterior	Asphalt Roof Shingles
B	"	"
C	"	"

Deborah J Kasik

3 of 3

OPTIMUM
Analytical and Consulting, LLC

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

CLIENT:	Maine DEP
ADDRESS:	17 State House Station
CITY / STATE / ZIP:	Augusta ME 04333-0017
CONTACT:	Sandy Moody
DESCRIPTION:	PLM Analysis
LOCATION:	Smith House; 877 US Rt 1, Meddybemps, ME

ORDER #:	2033174
PROJECT #:	877Smith
DATE COLLECTED:	03/18/2020
COLLECTED BY:	Peter Crockett
DATE RECEIVED:	03/23/2020
ANALYSIS DATE:	03/26/2020
REPORT DATE:	03/27/2020
ANALYST:	Lauren Oakes

State of Maine 2033174
Department of Environmental Protection
Lead & Asbestos Hazard Prevention Program
State House Station, Augusta, Maine 04333
TEL (207) 287-2651 FAX (207) 287-6220

Asbestos Bulk Building Material Chain of Custody Form
Laboratory: Optimum Analytical
MDEP Project Code: 877Smith

Project Location:
Facility Name: Smith house
Street: 877 US Rt 1
City: Meddybemps State: ME

MDEP Information:
Laboratory Billing to: MDEP/LAHHP
Laboratory Reports to: Sandy Moody
Telephone: (207)287-7751
Email: Sandy.J.Moody@maine.gov
Please Provide Results by Email
Positive Stop by Homogenous Group (HG #)
Turnaround Time: ☐ 5 Days ☐ As Soon As Possible

Analytical Method Requested:
☒ PLM (surfacing materials, TSI, cementitious materials)
☐ PLM NOB (floor tiles, asphalts, mastics, coatings, caulking, adhesives, glues)
☐ Point Count with Gravimetric
☐ Other:

Sample Date: 03/18/2020 Sample Time: 1:15 Total Number of Samples: 8
Samplers Name: Peter Crockett Samplers Signature: Peter D. Crockett

Sample #	HG #	Sample Location	Material Description
01 03 18 20 PGC	1	Entrance Kitchen	Green Linoleum.
02 03 18 20 PGC	2	Bedroom off kitchen	Decorative Linoleum
03 03 18 20 PGC	2	Bedroom off kitchen	Decorative Linoleum
04 03 18 20 PGC	3	Hallway	Tan Linoleum
05 03 18 20 PGC	3	Hallway	Tan Linoleum

Relinquished by: Peter D. Crockett Date: 3/19/2020 Time: 0525
Relinquished by: Sandra J. Moody Date: 3-19-20 Time: 11:02
Received by: [illegible] Date: 3/23/2020 Time: 1300

Comments/Special Instructions: Positive Stop by Homogenous Group (HG #)

Page 1 of 2 Pages

OPTIMUM
Analytical and Consulting, LLC

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

CLIENT:	Maine DEP
ADDRESS:	17 State House Station
CITY / STATE / ZIP:	Augusta ME 04333-0017
CONTACT:	Sandy Moody
DESCRIPTION:	PLM Analysis
LOCATION:	Smith House; 877 US Rt 1, Meddybemps, ME

ORDER #:	2033174
PROJECT #:	877Smith
DATE COLLECTED:	03/18/2020
COLLECTED BY:	Peter Crockett
DATE RECEIVED:	03/23/2020
ANALYSIS DATE:	03/26/2020
REPORT DATE:	03/27/2020
ANALYST:	Lauren Oakes

State of Maine 2033174
Department of Environmental Protection
Lead & Asbestos Hazard Prevention Program
17 State House Station, Augusta, Maine 04333
TEL (207) 287-2651 FAX (207) 287-6220

Asbestos Bulk Building Material Chain of Custody Form
Laboratory: Optimum Analytical
MDEP Project Code: 877Smith

Project Location:
Facility Name: Smith house
Street: 877 US Rt 1
City: Meddybemps State: ME

Analytical Method Requested:
☒ PLM (surfacing materials, TSI, cementitious materials)
☐ PLM NOB (floor tiles, asphalts, mastics, coatings, caulking, adhesives, glues)
☐ Point Count with Gravimetric
☐ Other:

MDEP Information:
Laboratory Billing to: MDEP/LAHHP
Laboratory Reports to: Sandy Moody
Telephone: (207)287-7751
Email: Sandy.J.Moody@maine.gov
Please Provide Results by Email
Positive Stop by Homogenous Group (HG #)
Turnaround Time: ☐ 5 Days ☐ As Soon As Possible

Sample Date: 03/18/2020 Sample Time: 1:15 Total Number of Samples: 8
Samplers Name: Peter Crockett Samplers Signature: Peter Crockett

Sample #	HG #	Sample Location	Material Description
06 03 18 20 PGC	4	Middle Bedroom Closet	Gray Linoleum
07 03 18 20 PGC	4	Middle Bedroom Closet	Gray Linoleum
08 03 18 20 PGC	4	Middle Bedroom Closet	Gray Linoleum

Relinquished by: Peter Crockett Date: 3/19/2020 Time: 0525
Relinquished by: Sandra Moody Date: 3-19-20 Time: 11:12
Received by: [signature] Date: 3/23/2020 Time: 13:00

Comments/Special Instructions: Positive Stop by Homogenous Group (HG #)

Page 1 of 2 Pages

OPTIMUM
Analytical and Consulting, LLC

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

CLIENT:	Maine DEP
ADDRESS:	17 State House Station
CITY / STATE / ZIP:	Augusta ME 04333-0017
CONTACT:	Sandy Moody
DESCRIPTION:	PLM Analysis
LOCATION:	Smith House; 877 US Rt 1, Meddybemps, ME

ORDER #:	2033174
PROJECT #:	877Smith
DATE COLLECTED:	03/18/2020
COLLECTED BY:	Peter Crockett
DATE RECEIVED:	03/23/2020
ANALYSIS DATE:	03/26/2020
REPORT DATE:	03/27/2020
ANALYST:	Lauren Oakes

Non-Friable Organically Bound Gravimetric Reduction Worksheet

Batch Number: 2033174 Prep Date: 3-23-2020 Prep Analyst: MC

Sample ID	Crucible ID	Crucible Weight A	Sample Weight B	Crucible + Ashed Sample C	Ashed Sample Weight D= (C-A)	% Reduction of Sample (D/B)*100	Filter Weight G	Ashed Sub-Sample Weight (H)	Filtered Sample Weight	Acid Insoluble Inorganic Weight J=L	% Reduction for LP1000N	CVE % Asbestos in Residue	%Asbestos in K* CVE % Ash)/100	Asbestos Type	Prep 1	Prep 2	Prep 3	Prep 4
010318J20PGC	50	23.073	0.142	23.189	0.096	67.61%	0.045	0.096	0.126	0.081	84.37%	28.50%	24.05%	CHRYS	26	34	25	29
020318J20PGC	224	22.014	0.136	22.086	0.072	52.94%	0.045	0.072	0.098	0.053	73.61%	33.75%	24.84%	CHRYS	38	39	28	32
040318J20PGC	213	22.393	0.118	22.474	0.081	68.64%	0.044	0.081	0.119	0.075	92.56%	30.25%	35.42%	CHRYS	44	36	35	38
060318J20PGC	B	28.961	0.119	28.992	0.031	26.05%	0.045	0.031	0.058	0.013	41.94%		0.00%	NAD				
070318J20PGC	229	20.805	0.173	20.874	0.069	39.88%	0.045	0.069	0.081	0.016	23.19%		0.00%	NAD				
080318J20PGC	228	20.036	0.179	20.082	0.046	25.70%	0.042	0.046	0.06	0.018	39.13%		0.00%	NAD				

APPENDIX D

PHOTOGRAPHIC LOG

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
881 MAIN STREET, MEDDYBEMPS, MAINE

Photo No. 1

Photo Date:
November 18, 2020

Site Location:
881 Main Street
Meddybemps, Maine

Description:
First Floor; Kitchen (Rm. #1) – two layers of ACM sheet flooring (MS-001A).

Photo By: DAK

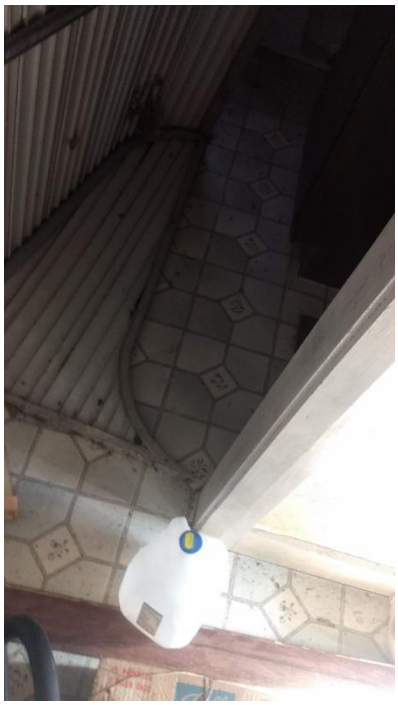


Photo No. 2

Photo Date:
November 18, 2020

Site Location:
881 Main Street
Meddybemps, Maine

Description:
First Floor; Bathroom (Rm. #2) – two layers of ACM sheet flooring (MS-009A).

Photo By: DAK

Photo No. 3

Photo Date:
November 18, 2020

Site Location:
881 Main Street
Meddybemps, Maine

Description:
First Floor; Kitchen (Rm. #1) – Sheetrock wall system near entry door. Non-ACM ceiling tiles present (MS-010A).

Photo By: DAK

Photo No. 4

Photo Date:
November 18, 2020

Site Location:
881 Main Street
Meddybemps, Maine

Description:
First Floor; Hallway (Rm. #6 partial) near Bedroom #1 Entry Door. ACM sheet flooring in Bedroom #1 (Sample MS-004A).

Photo By: DAK

Photo No. 5

Photo Date:
November 18, 2020

Site Location:
881 Main Street
Meddybemps, Maine

Description:
First Floor; Kitchen (Rm. #1) Closet – same double layer of sheet flooring as Kitchen (MS-001A).

Photo By: DAK

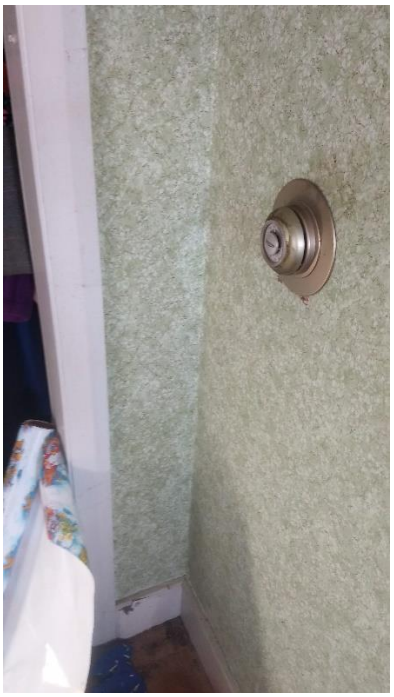


Photo No. 6

Photo Date:
November 18, 2020

Site Location:
881 Main Street
Meddybemps, Maine

Description:
First Floor; Living Room (Rm. #7) Mercury-containing Thermostat.

Photo By: DAK

Photo No. 7

Photo Date:
November 18, 2020

Site Location:
881 Main Street
Meddybemps, Maine

Description:
First Floor; Living Room (Rm. #7) – two layers of Non-ACM flooring material (MS-002A and MS-003A).

Photo By: DAK

Photo No. 8

Photo Date:
November 18, 2020

Site Location:
881 Main Street
Meddybemps, Maine

Description:
First Floor; Hallway (partial; Rm. #6) – ACM Cream pattern sheet flooring (MS-007A).

Photo By: DAK

Photo No. 9

Photo Date:
November 18, 2020

Site Location:
881 Main Street
Meddybemps, Maine

Description:
First Floor; Bedroom #3 Closet (Rm. #5) - Non ACM sheet Flooring (MS-005C)

Photo By: DAK

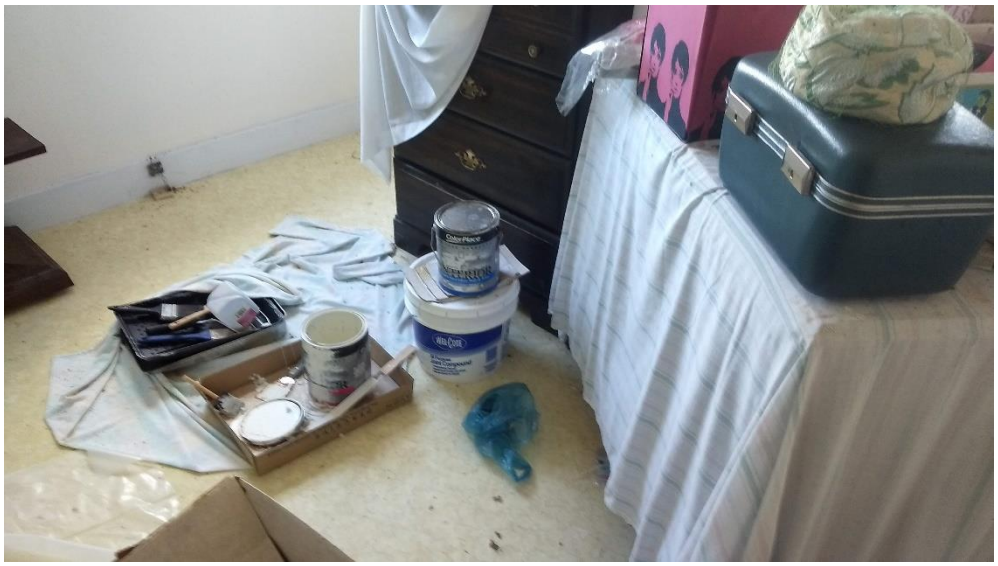


Photo No. 10

Photo Date:
November 18, 2020

Site Location:
881 Main Street
Meddybemps, Maine

Description:
First Floor; Bedroom #3 (Rm. #5) – ACM cream pattern sheet flooring (MS-007A).

Photo By: DAK

Photo No. 11

Photo Date:
November 18, 2020

Site Location:
881 Main Street
Meddybemps, Maine

Description:
First Floor; Bedroom #3 (Rm. #5) – Non ACM ceiling tiles and sheetrock (MS-010A and MS-008A, respectively).

Photo By: DAK

Photo No. 12

Photo Date:
November 18, 2020

Site Location:
881 Main Street
Meddybemps, Maine

Description:
Attic space – view of attic floor restricted. Performed visual assessment from top of pull-down ladder.

Photo By: DAK

Photo No. 13

Photo Date:
November 18, 2020

Site Location:
881 Main Street
Meddybemps, Maine

Description:
Attic Space – Eight one-gallon deteriorated containers of warfarin-containing rat and mouse killer.

Photo By: DAK

Photo No. 14

Photo Date:
November 18, 2020

Site Location:
881 Main Street
Meddybemps, Maine

Description:
Exterior – Above-ground storage tank (AST).

Photo By: DAK

APPENDIX E

FIELD SKETCHES

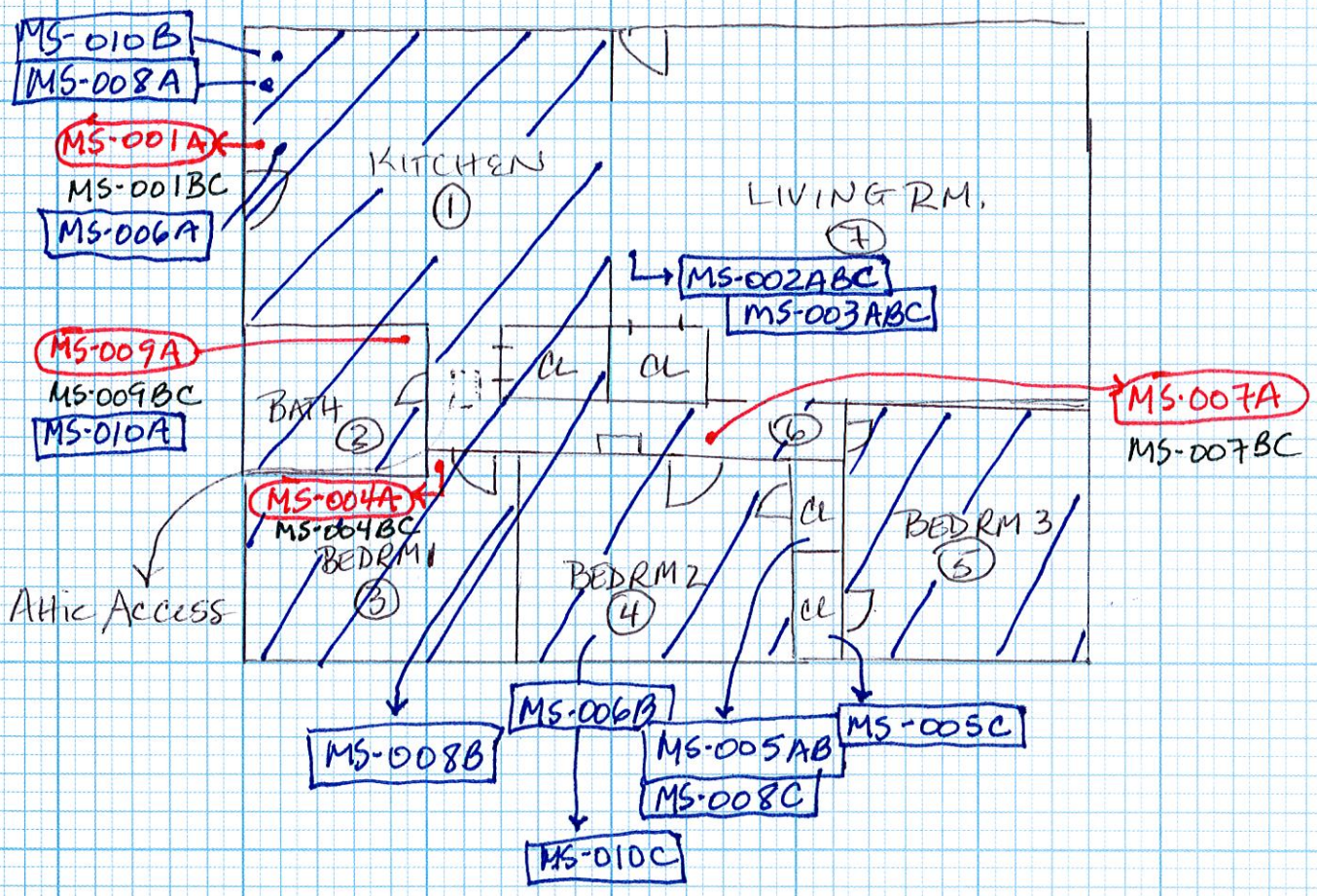
CES INC
Engineers • Environmental Scientists • Surveyors
www.cesincusa.com

PROJECT: 881 MAIN STREET JOB # 10193.060

SUBJECT: MEDDYBEMPS, MAINE

COMP. BY: _____ CHK. BY: DAK DATE: 11/18/20

FIRST FLOOR:



LEGEND:

MS-001A Sample # + location testing positive for asbestos

MS-002A Sample # + location testing negative for asbestos

MS-001B Sample # + location not analyzed (positive stop)

// ACM Sheet Flooring

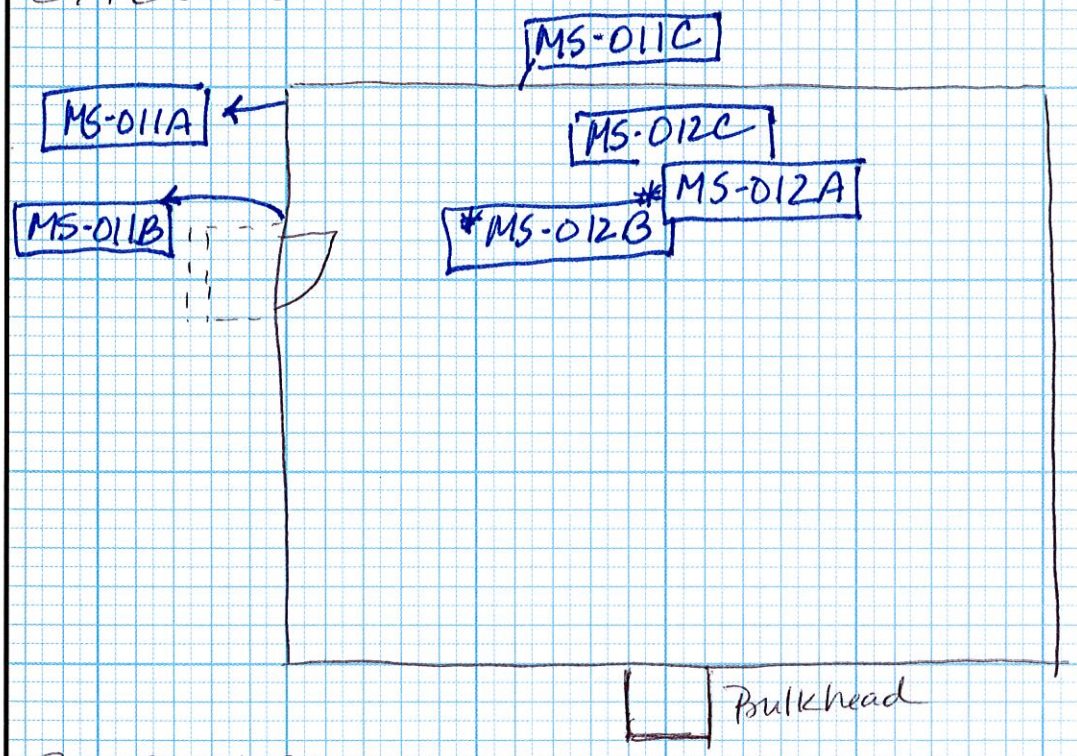
CES INC
Engineers • Environmental Scientists • Surveyors
www.cesincusa.com

PROJECT: 881 MAIN STREET JOB # 10193.060

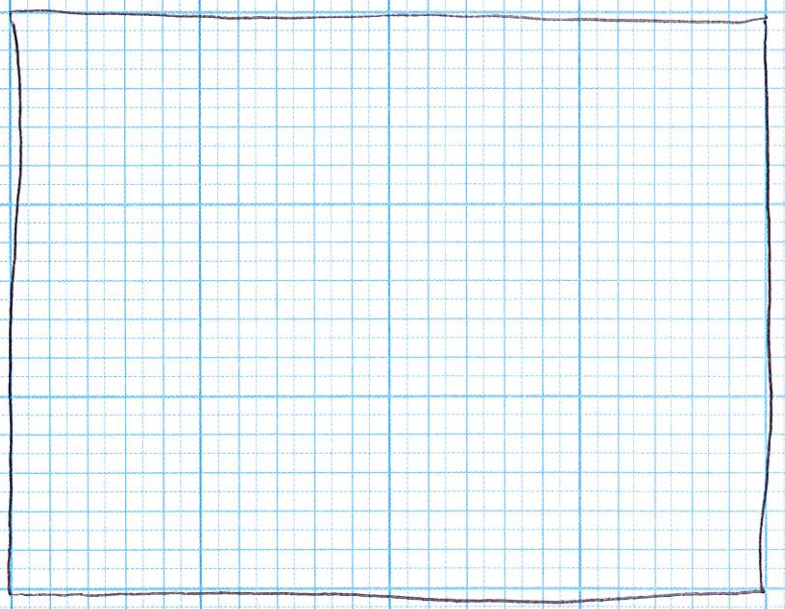
SUBJECT: MEDDYBEMPS, MAINE

COMP. BY: _____ CHK. BY: DAK DATE: 11/18/20

EXTERIOR:



BASEMENT:



LEGEND

MS-011A Sample # • Location Testing Negative for Asbestos