

**INVITATION TO SUBMIT  
STATEMENTS OF QUALIFICATIONS**

**By the City of Homer, Alaska  
For the HERC 2 – Hazardous Materials Abatement**

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Statements of Qualifications ("SOQ") for abatement of hazardous materials in the HERC 2 Building will be received by the Office of the City Clerk, 491 E. Pioneer Avenue, Homer, Alaska 99603 until **2:00 PM on Monday, September 19, 2022**, at which time they will be publicly opened. SOQs received after the time fixed for receipt of the SOQs shall not be considered. **All firms intending to submit a SOQ must submit a City of Homer Plan Holders Registration form to be on the Plan Holders List to be considered responsive.** Plan holder registration forms and Invitation to Bid packages are available online at <http://www.cityofhomer-ak.gov/rfps>

An electronic copy of the Invitation to Submit and Plan Holder Registration form are available online at <https://www.cityofhomer-ak.gov/rfps>.

For Invitation to Submit packages contact:

City Clerk  
491 E. Pioneer Avenue  
Homer, Alaska 99603  
(907) 235-3130.

The work will consist of:

**I. Design Work**

- a. Preparing plans and specifications to govern the Construction Work required to successfully abate asbestos in the HERC Building 2, as set forth in the report entitled "*Hazardous Building Materials Survey*", dated March 26, 2020, prepared by Environmental Management, Inc.
- b. Preparing an Hazardous Materials Abatement Plan
- c. Quality Assurance Plan for the Construction Work

**II. Construction Work**

- a. Project Management
- b. Health and Safety Plan
- c. Traffic Control

- d. Furnishing all labor, materials, equipment, supervision, and other facilities necessary to successfully abate the hazardous materials as set forth in plans, specifications and other deliverables prepared during the Design Work.

After reviewing and evaluating the SOQs, the City will issue the Request for Proposals to those firms deemed qualified. Proposals, which will contain cost information, will be due no later than October 17, 2022.

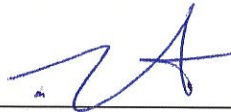
Please direct all questions in writing regarding this project to:

Janette Keiser, PE  
Public Works Director  
City of Homer Public Works Dept.  
3575 Heath Street  
Homer, Alaska 99603  
Email: jkeiser@ci.homer.ak.us Phone: (907) 435-3141

The City of Homer reserves the right to accept or reject any or all submissions, and to waive irregularities or informalities in the submissions.

Dated this 29 day of August, 2022.

City of Homer



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Robert Dumouchel, City Manager

Publish: Homer News: September 1 and 8, 2022  
Anchorage Daily News September 4, 2022

**Invitation to Submit  
Statements of Qualifications  
City of Homer, Alaska  
HERC 2 – Hazardous Materials Abatement**

**INSTRUCTIONS TO SUBMITTERS**

The City of Homer, Alaska is requesting Statements of Qualification (“SOQ”) from qualified firms for the project described herein.

The following subjects are discussed herein to assist you in the preparation of your SOQ.

- I. Introduction
- II. Scope of Services
- III. General Requirements
- IV. The Statements of Qualification Package
- V. Tentative Project Schedule
- VI. Contract Award
- VII. Proposal Bond
- VIII. Labor Rates
- XI. Equal Employment Opportunity Certification

**I. Introduction**

The City of Homer requests Statements of Qualifications from firms interested in contracting with the City to (a) design a hazardous materials abatement plan and (b) implement the plan, for the HERC 2 Building. The purpose of this project is to abate asbestos in the HERC 2 Building so the building can be demolished by others.

All work activity associated with the abatement project shall be completed by March 28, 2023.

**II. Scope of Services**

The HERC 2 site is located within the limits of the City of Homer and is illustrated on the attached Site Plan. The project will consist of furnishing all labor, materials, equipment, tools, supervision and other facilities necessary for the performance of the work described herein. The work will include, but is not limited to:

**1. Design Work**

- a. Preparing plans and specifications to govern the Construction Work required to successfully abate asbestos in the HERC Building 2, as set forth in the report entitled “*Hazardous Building Materials Survey*”, dated March 26, 2020, prepared by Environmental Management, Inc.
- b. Preparing an Hazardous Materials Abatement Plan
- c. Quality Assurance Plan for the Construction Work

**2. Construction Work**

- a. Project Management
- b. Health and Safety Plan

- c. Traffic Control
- d. Furnishing all labor, materials, equipment, supervision, and other facilities necessary to successfully abate the hazardous materials as set forth in plans, specifications and other deliverables prepared during the Design Work.

### **III. General Requirements**

- a. The entity performing the Construction Work must have a current contractor's license issued by the State of Alaska. The license must apply to the Construction Work.
- b. The City's local bidder preference requirements apply to this contract.
- c. State prevailing wage rates will apply to the Construction Work.
- d. An electronic copy of this Request for Statements of Qualifications is available on the City's website <http://www.cityofhomer-ak.gov/rfps> or you may purchase hard copies at the Office of the City Clerk upon payment of \$100 per set (\$150 for overnight delivery). City of Homer Standard Construction Specifications 2011 Edition (containing general contract provisions) may also be downloaded from the city's website. All fees are non-refundable. The City of Homer reserves the right to accept or reject any or all submissions, to waive irregularities or informalities, and to eventually award the contract to the basis of price and other factors that represent the "best value" to the City, pursuant the Request for Proposals that will be issued to qualified firms.
- e. A Performance and Payment bond in the amount of 100 percent (100%) of the value of the proposed price of the Construction Work will be required.
- f. Statements of Qualifications must be submitted in accordance with the SOQ and be received by 2:00 PM on Monday, September 19, 2022 at the Office of the City Clerk, City of Homer 491 E. Pioneer Avenue, Homer, Alaska, 99603.

### **IV. The Statements of Qualification Package**

**The Statement of Qualifications ("SOQ") Package must be contained in a separate envelope marked with the name of the project and the time/date of the SOQ opening.**

**The Statements of Qualification Package must contain the following:**

- 1. **Past Performance** –
  - a. Describe at least three projects you have completed that are of a similar scope and complexity.
  - b. Identify an owner's representative for each project, listing contact information.
- 2. **Key Personnel** – Identify and provide resumes for the following Key Personnel:
  - a. Project Manager
  - b. Design Engineer
  - c. Construction Superintendent
  - d. Quality Manager
  - e. Safety Manager
- 3. **Addenda Acknowledgment Form**
- 4. If signature on the Proposal is by an agent, other than an Officer of a Corporation, or of a member of a Co-partnership, a Power of Attorney must be submitted with the SOQ package.

## **V. Tentative Project Schedule**

- |                                 |   |
|---------------------------------|---|
| • SOQs due                      | 2:00 p.m. on Monday, September 19, 2022 |
| • Evaluation                    | September 19 thru September 21, 2022    |
| • RFP issued to qualified firms | Friday, September 26, 2022              |
| • Proposals due                 | Monday, October 17, 2022                |
| • Notice of Intent to Award     | Wednesday, October 19, 2022             |
| • Award by City Council         | Monday, October 24, 2022                |
|                                 |   |
| • Notice to Proceed             | Wednesday, October 26, 2022             |
| • Kick-off Meeting              | Wednesday, November 2, 2022             |
| • Health/Safety Plan Complete   | Wednesday, November 16, 2022            |
| • Contract Completion           | Tuesday, March 28, 2023                 |

## **VI. Request for Proposals**

After reviewing and evaluating the SOQs, the City will issue the Request for Proposals to those firms deemed qualified. Proposals, which will contain cost information, will be due no later than October 17, 2022.

## **VII. Contract Award**

The City of Homer intends to award the Design-Build contract on the basis of costs and other factors deemed to represent the “best value” to the City, but reserves the right to accept or reject any or all proposals, to waive irregularities or informalities in the RFQ/RFP process.

## **VII. Proposal Bond**

Each Proposal will be required to provide a Proposal Bond duly completed on the suggested form provided by a guaranty company authorized to conduct business in the State of Alaska, along with a General Power of Attorney form, if applicable, for payment to the City in the sum of five percent (5%) of the total amount of the Construction Work.

## **VIII. Labor Rates – State Labor Rates for Construction Work.**

This project is covered by the State of Alaska Title 36 Laborer’s and Mechanic’s Minimum Rate of Pay (AS 36.05.010 & 36.05.050) Pamphlet No. 600, Issue 42, Effective April 1, 2021. It will be the responsibility of the Proposer to determine the current rates of pay required applicable to the workers performing Construction Work and to submit the proper certified payrolls to the State Department of Labor for all Construction Work.

## **IX. Equal Employment Opportunity Certification**

Proposers will be required to submit forms related to Equal Employment Opportunity with their Proposals, including:

- Equal Employment Opportunity Statement of Acknowledgement form
- Equal Employment Opportunity Clause (Provided with the RFQ/RFP package)
- EEO-1 Certification

**Hazardous Building Materials Survey**  
(Asbestos and Other Regulated Materials)  
**HERC Buildings 1 and 2**  
**Homer, Alaska**



**Prepared for:**

**CITY OF HOMER, ALASKA**  
3575 HEATH STREET  
HOMER, ALASKA 99603

**Prepared by:**

**ENVIRONMENTAL MANAGEMENT, INC.**  
206 EAST FIREWEED LANE, SUITE 201  
ANCHORAGE, ALASKA 99503

**March 26, 2020**



**ENVIRONMENTAL  
MANAGEMENT, INC.**  
*Consulting, Engineering & Training*

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## APPENDICES

Appendix A – Photo Log

Appendix B – Field Notes

Appendix C – Asbestos Laboratory Results: IATL Report #609842 and ATC Report #665941

Appendix D – Inspector Certifications

## ACRONYMS AND ABBREVIATIONS

ACM	Asbestos Containing Materials
AHERA	Asbestos Hazard Emergency Response Act
ATC	ATC Laboratories
Cat. I	Category I: Asbestos containing packings, gaskets, resilient floor covering and asphalt roofing products containing more than 1% asbestos.
Cat. II	Category II: Other materials containing more than 1% asbestos that when dry cannot be crumbled, pulverized, or reduced to a powder by hand pressure.
CFR	Code of Federal Regulations
EMI	Environmental Management Inc.
EPA	Environmental Protection Agency
HBMS	Hazardous Building Materials Survey
IATL	International Asbestos Testing Laboratories
LBP	Lead-Based Paint
Ln. ft.	Linear Feet
NESHAP	National Emission Standard for Hazardous Air Pollutants
ORM	Other Regulated Materials
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PLM	Polarized Light Microscopy
RACM	Regulated Asbestos Containing Material
Sq. ft.	Square Feet
TSI	Thermal System Insulation
XRF	X-Ray Fluorescence Instrument



**Hazardous Building Materials Survey  
(Asbestos and Other Regulated Materials)  
HERC Buildings 1 and 2  
Homer, Alaska**

## **1.0 PROJECT OVERVIEW**

On February 14, 2020 and February 15, 2020, Environmental Management, Inc. (EMI) conducted a Hazardous Building Materials Survey (HBMS) on the HERC 1 and 2 Buildings located on the corner of Sterling Highway and West Pioneer Avenue in Homer, Alaska. The survey included inspection and data collection for asbestos-containing materials (ACM), lead-based paint (LBP), and other regulated materials (ORM). EMI conducted this survey under contract with the City of Homer, the owner of the buildings.

This survey was conducted for the purpose of identifying hazardous and regulated materials prior to demolition. This survey was conducted in a manner that satisfies applicable regulations related demolition, including the National Emissions Standard for Hazardous Air Pollutants (NESHAP) 40 Code of Federal Regulation (CFR) 61 Subpart M. Due to the age of the buildings this inspection also included a survey for LBP.

This survey was performed by Bethany Williams, EMI, who is qualified and experienced with the current Asbestos Hazard Emergency Response Act (AHERA) Inspector certification. The following parties and points of contact are also associated with the project:

Client Representative:

Carey S. Meyer, P.E., MPA, City of Homer, Alaska  
Office: 907-435-3124

Project Manager:

Glenn Hasburgh, EMI  
Office: 907-272-9336

AHERA Building Inspector:

Bethany Williams, EMI  
Office: 907-272-9336

## **2.0 BUILDING DESCRIPTION**

Both HERC 1 and 2 buildings were constructed in the 1950's and were constructed primarily of poured concrete, including the foundations, floors and load bearing walls. Many demising walls in the building are of plywood construction with only a few areas having walls constructed of gypsum wallboard systems. Many of the concrete and plywood wall systems are finished with skim coats of joint compound and the gypsum wallboard systems are finished in the traditional

fashion with tape and joint compound. Joint compound applied as wall texture was not noted during this inspection. The heating systems consists of hot water baseboard heating with hot water being supplied by a boiler.

The exterior of the building consists of pre-fabricated corrugated metal wall panels with a traditional built up roof consisting of felt paper, tar and foam.

### **3.0 PROJECT APPROACH AND PROCEDURES**

The asbestos survey was performed in compliance with Occupational Safety and Health Administration's (OSHA) requirements presented 29 CFR 1926.1101.

#### **3.1 Asbestos Inspection Methods**

The asbestos inspection consisted of conducting a walkthrough of the building to identify homogenous areas and functional spaces within the building. This walkthrough also included the exterior portions of the building and roof. Following the walkthrough, representative samples of building materials considered suspect for their potential contain asbestos were collected. Destructive sampling, including the opening of wall cavities to observe hidden materials was performed as necessary. The location of each sample and a brief description of the material were recorded in field notes and photographs were taken. Once all samples were collected, they were recorded on a chain-of-custody and submitted to an approved laboratory for analysis.

#### **3.2 Lead Inspection Methods**

An x-ray fluorescence instrument (XRF) was used to assess LBP. The lead inspection was conducted to collect representative data of both interior and exterior painted surfaces including walls, doors, windows, and associated trims.

#### **3.3 Other Regulated Materials Inventory**

The ORM inspection consisted of performing a walkthrough of the building and noting building components that may contain regulated components such as, radioactive sources, polychlorinated biphenyl (PCB) containing light ballasts, mercury containing switches and bulbs, or other similar materials.

#### **3.4 Project Laboratory**

The project laboratories used for asbestos analysis were ATC Laboratories (ATC), located at 383 Industrial Way, Suite 300, Anchorage, AK 99501 and International Asbestos Testing Laboratories (IATL), located at 9000 Commerce Parkway, Suite B, Mt. Laurel, New Jersey 08054. Collected samples were analyzed via polarized light microscopy (PLM) in accordance with EPA methods. ATC and IATL are accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

## 4.0 SURVEY RESULTS

The following sections present information related to the survey. Supplemental information including photographs, field notes, sample location maps, and laboratory reports are included in the appendices of this report.

### 4.1 Asbestos

A total of 99 asbestos samples (191 layers) were collected from both facilities. Asbestos was detected in 19 samples (23 layers). The following materials have been identified as ACM:

#### RACM

- Pipe insulation elbow (off-white wrap) (TSI) – HERC 1 insulation piping in room 111 – Sample ID: HERC 1-024.
- Pipe insulation elbow (off-white insulation) (TSI) – HERC 1 fan room – Sample ID: HERC 1-037.
- Pipe insulation elbow and boiler coating (white insulation) (TSI) – HERC 1 men’s locker room and boiler room, HERC 2 boiler room – Sample IDs: HERC 1-058, 064, 065, HERC 2-021 and 022.
- Joint compound (off-white) – HERC 1 janitor’s closet – Sample IDs: HERC 1-031 and 032.
- Joint compound (tan) – HERC 1 fan room – Sample IDs: HERC 1-038.

#### Non-RACM

- Black mastic – HERC 1 floor tile in rooms: 107, 108, janitor’s closet, fan room, HERC 2 storage closets, classroom 2, and classroom 1 – Sample IDs: HERC 1-008, 012, 030, 035, HERC 2-006, 010, 011, 012, and 018.
- Floor tile/mastic – HERC 2 storage closets – Sample IDs: HERC 2-006 and 018.

### 4.2 Lead-Based Paint

A total of 44 tests were conducted on the various paints covered by this project. The XRF detected LBP in the exterior painted window trims from HERC Buildings 1 and 2. All results from interior components were negative. Complete results of LBP analyses are presented in Tables 1 and 2.

### 4.3 Other Regulated Materials

At least 20 mercury-containing thermostats were observed within HERC Building 1; at least 12 were observed in HERC Building 2. Approximately 100 fluorescent lights were observed in the HERC 1 building; approximately 60 were observed in HERC Building 2. The tubes contain mercury and should be disposed of appropriately. Multiple light ballasts were inspected in both

buildings; all those inspected were not notably labeled. At the time of removal, fluorescent light ballasts should be inspected for a label with either a date of manufacture after 1979 or a “No PCB” statement; otherwise they should be disposed of as PCB containing. At least eight self-illuminating exit signs that appeared to be tritium-containing were observed in the HERC 1 Building; at least five exit signs were observed in the HERC 2 Building. No other ORM was observed.

## 5.0 DISCUSSION

This report provides a list of materials sampled during this survey. Results and documentation are included in Appendices A through C. Asbestos sample locations which yielded a positive result are illustrated on the attached figures. Complete results of the asbestos survey are presented in Table 3. Based on survey findings and in accordance with regulatory requirements the following conclusions are made.

### 5.1 Asbestos

Seven materials were identified as ACM; these consist of black mastic, pipe elbow insulation (TSI), off-white joint compound, tan joint compound, white boiler insulation, and grey floor tile.

The demolition contractor should evaluate the planned work practices to determine if they will render the below described materials friable. Category I and II non-RACM materials that will not be rendered friable do not require removal prior to demolition; however, leaving them in place during demolition will make the waste stream asbestos containing (non-RACM).

#### 5.1.1 RACM

The following materials were determined to meet the definition of RACM based on their friability and require removal prior to demolition:

**Pipe insulation elbow (off-white wrap) (TSI):** Sample HERC 1-024, which was collected from a hard-pack elbow in HERC 1 room 111 (science room). The main pipe runs were insulated with fiberglass and the ACM is limited to the elbows. The laboratory noted three distinct layers/types of wrap within this sample these included and off-white woven, tan wrap, and off-white wrap. The off-white wrap was the layer determined to be ACM. The off-white wrap was observed above the drop down ceiling in room 111. Approximately 75% of the ceilings were looked above and only this room as well as others noted below were observed in the buildings. No TSI was observed in the bathroom chase, but some may be located in the wall cavities with hot water lines. This material is considered friable and meets the definition of RACM. Up to 100 ACM elbows are assumed present.

**Pipe insulation elbow (off-white insulation) (TSI):** Sample HERC 1-037, which was collected from a TSI elbow in the HERC 1 fan room. This material is friable and for this reason the material meets the definition of RACM. This material is required to be removed prior to

demolition and due to the quantity NESHAP notification requirements do apply. Up to 10 ACM off-white insulation elbows are assumed present in the fan room.

**Pipe insulation elbow and boiler coating (white insulation) (TSI):** Samples HERC 1-058, 064, 065, HERC 2-021 and 022, which were collected from the HERC 1 men's locker room and boiler room, HERC 2 boiler room. This material is friable when separated from piping. For this reason, this material meets the definition of RACM. Approximately 10 ACM elbows are assumed present of ACM white insulation in the HERC 1 men's locker room and approximately 200 sq. ft. of ACM white insulation are assumed present in the HERC 1 and 2 boilers.

**Off-white joint compound:** Samples HERC 1-031 and 032, which were collected from the HERC 1 janitor's closet walls. The materials were applied over seams and screws on plywood to create a smooth wall finish, no texturing was used. This material can be separated from its substrate and therefore is considered an add-on material. When this add-on material is separated it is friable and for this reason the material meets the definition of RACM. This material is on all four walls of the janitor's closet for a total quantity of approximately 420 sq. ft.

**Tan joint compound:** Sample HERC 1-038, which was collected from the HERC 1 fan room. The material was applied over seams and screws on plywood to create a smooth wall finish, no texturing was used. This material can be separated from its substrate and therefore is considered an add-on material. When this add-on material is separated it is friable and for this reason the material meets the definition of RACM. This material is on all four walls of the fan room for a total of approximately 400 sq. ft.

### **5.1.2 Non-RACM**

The lists the Category I and II non-friable materials that were identified during this survey. At the time of inspection these materials were in non-friable condition and therefore did not meet the definition of RACM. The contractor should evaluate their demolition practices to determine if they will render these materials friable. If these materials have the potential to be rendered friable they should be removed prior to demolition. If they will remain intact they may remain, however, the waste stream will be considered ACM containing.

**Black mastic:** Samples HERC 1-008, 012, 030, 035, which were collected from HERC 1 floor tiles in rooms 107, 108, janitor's closet, and fan room respectively, samples HERC 2-006, 010, 011, 012, and 018 which were samples collected from HERC 2 floor tiles both ground storage closets, classroom 2, and classroom 1. This material is a Category 1 non-friable according to NESHAP. There is approximately 3,500 sq. ft. of ACM black mastic in HERC 1 and approximately 2,250 sq. ft. of ACM black mastic in HERC 2.

Note: the multipurpose room contains flooring that was inaccessible during the site visit. It is to be assumed the mastic underneath is ACM Category 1 non-friable according to NESHAP. There is approximately 5,040 sq. ft. of mastic in the multipurpose room.

**Floor tile/mastic:** Samples HERC 2-006 and 018, which were collected from the HERC 2 storage closets. The sample results include both tiling and black mastic, therefore the black mastic area is already included and the floor tile area is approximated below. This material is a Category 1 non-friable according to NESHAP. There is approximately 100 sq. ft. of ACM grey floor tile.

### **5.1.3 Other Notable Observations**

Rooms 108, 106, 109, and 110 of HERC 1 had homogenous cove base, black mastic on walls from chalkboards, ceiling tiles, carpet, and window caulk. Most ceilings were looked above with only plywood ceilings observed on the first floor of the HERC 1 building. Brown ceiling tile pucks were noted above the dropdown ceiling on the ground floor of the HERC 1 building and on the first floor of the HERC 2 building, but both locations were negative for ACM.

Sheetrock was noted on the first floor of the HERC 1 building in room 105, room 111, and the fan room. All rooms were sampled and composited; results were negative for ACM. Joint compound as a surface layer of plywood was sampled in room 118 and the fan room; results were positive for ACM. All other areas were painted concrete and not ACM.

Concrete flooring and walls were observed throughout the building and noted underneath tiling and carpet in both HERC 1 and HERC 2 buildings. Exterior walls for each HERC building were made up of metal, wood, and cement with no signs of mastic or adhesive.

The HERC 2 building had homogenous covebase, black mastic on walls from chalkboards, ceiling tiles, and carpet throughout the building. Samples from these were negative for ACM.

## **5.2 Lead-Based Paint**

Lead-based paint was surveyed due to the age of the building. The exterior paint on the window trims for both HERC Buildings 1 and 2 yielded two positive results for lead based paint. All exterior window trims are to be assumed homogenous for each building. No lead-based paint was observed on any interior surface tested. A sample of the waste stream was collected by the City of Homer and analyzed for toxicity characteristic leachate procedure (TCLP) to characterize the waste stream.

## **5.3 Other Regulated Materials**

ORM discussed in section 3.2 ORM was observed throughout each of the buildings. These materials should be segregated prior to demolition and properly disposed of.

## **6.0 SIGNATURE AND QUALIFICATIONS**

EMI is a professional environmental consulting firm, duly qualified and experienced in performing Hazardous Building Material Surveys, Phase I Environmental Site Assessments, Baseline Surveys, and other types of environmental investigations and assessments. References,

resumes, and certifications are available upon request. EMI is located at 206 East Fireweed Lane Suite 201, Anchorage, Alaska, 99503. EMI can be reached by the following means:

Phone -- (907) 272-9336 or Fax -- (907) 272-4159

This survey is limited to the scope as defined in the contract documents, and to information collected by EMI from the on-site assessment, as well as from drawings and interviews with personnel familiar with the buildings. EMI has performed these tasks in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions. No warranty, express or implied, beyond exercise of reasonable care and professional diligence, is herein offered.

Sincerely,  
Environmental Management, Inc.

---

Bethany Williams  
Environmental Scientist

Table 1 - XRF Results - HERC 1 Building

Building	Reading No.	Time	Type	Duration	Units	Sequence	Results
Calibration	675	2/14/2020 3:04	SHUTTER_CAL	661.56	cps	Final	
HERC 1 Building	676	2/14/2020 4:46	PAINT	7.74	mg / cm ^2	Final	Null
HERC 1 Building	677	2/14/2020 4:47	PAINT	2.08	mg / cm ^2	Final	Null
HERC 1 Building	678	2/14/2020 4:47	PAINT	0.32	mg / cm ^2	Final	Null
HERC 1 Building	679	2/14/2020 4:55	PAINT	1.98	mg / cm ^2	Final	Negative
HERC 1 Building	680	2/14/2020 4:56	PAINT	1.01	mg / cm ^2	Final	Negative
HERC 1 Building	681	2/14/2020 4:57	PAINT	1.23	mg / cm ^2	Final	Negative
HERC 1 Building	682	2/14/2020 4:58	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 1 Building	683	2/14/2020 4:59	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 1 Building	684	2/14/2020 5:01	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 1 Building	685	2/14/2020 5:01	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 1 Building	686	2/14/2020 5:02	PAINT	1.18	mg / cm ^2	Final	Negative
HERC 1 Building	688	2/14/2020 5:04	PAINT	1.01	mg / cm ^2	Final	Negative
HERC 1 Building	689	2/14/2020 5:06	PAINT	1.01	mg / cm ^2	Final	Negative
HERC 1 Building	690	2/14/2020 5:07	PAINT	3.05	mg / cm ^2	Final	Negative
HERC 1 Building	691	2/14/2020 5:11	PAINT	3.42	mg / cm ^2	Final	Negative
HERC 1 Building	693	2/14/2020 5:12	PAINT	3.1	mg / cm ^2	Final	Negative
HERC 1 Building	694	2/14/2020 5:14	PAINT	1.01	mg / cm ^2	Final	Negative
HERC 1 Building	695	2/14/2020 5:14	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 1 Building	696	2/14/2020 5:15	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 1 Building	697	2/14/2020 5:16	PAINT	2.03	mg / cm ^2	Final	Negative
HERC 1 Building	698	2/14/2020 5:16	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 1 Building	699	2/14/2020 5:17	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 1 Building	701	2/14/2020 5:18	PAINT	1.01	mg / cm ^2	Final	Negative
HERC 1 Building	702	2/14/2020 5:20	PAINT	1.01	mg / cm ^2	Final	Negative
HERC 1 Building	703	2/14/2020 5:20	PAINT	1.12	mg / cm ^2	Final	Negative
HERC 1 Building	704	2/14/2020 5:20	PAINT	1.01	mg / cm ^2	Final	Negative
HERC 1 Building	705	2/14/2020 5:21	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 1 Building	706	2/14/2020 5:22	PAINT	1.23	mg / cm ^2	Final	Negative
HERC 1 Building	707	2/14/2020 5:22	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 1 Building	708	2/14/2020 5:23	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 1 Building	709	2/14/2020 5:25	PAINT	3.75	mg / cm ^2	Final	Positive
HERC 1 Building	710	2/14/2020 5:26	PAINT	3.04	mg / cm ^2	Final	Negative



Table 2 - XRF Results - HERC 2 Building

Building	Reading No.	Time	Type	Duration	Units	Sequence	Results
HERC 2 Building	712	2/14/2020 5:31	PAINT	6.09	mg / cm ^2	Final	Negative
HERC 2 Building	713	2/14/2020 5:32	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 2 Building	715	2/14/2020 5:37	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 2 Building	716	2/14/2020 5:38	PAINT	3.05	mg / cm ^2	Final	Negative
HERC 2 Building	717	2/14/2020 5:40	PAINT	3.05	mg / cm ^2	Final	Negative
HERC 2 Building	718	2/14/2020 5:41	PAINT	3.05	mg / cm ^2	Final	Negative
HERC 2 Building	719	2/14/2020 5:43	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 2 Building	720	2/14/2020 5:44	PAINT	2.13	mg / cm ^2	Final	Negative
HERC 2 Building	722	2/14/2020 5:45	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 2 Building	723	2/14/2020 5:46	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 2 Building	724	2/14/2020 5:47	PAINT	2.24	mg / cm ^2	Final	Negative
HERC 2 Building	727	2/14/2020 5:48	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 2 Building	728	2/14/2020 5:49	PAINT	1.02	mg / cm ^2	Final	Negative
HERC 2 Building	729	2/14/2020 5:50	PAINT	1.28	mg / cm ^2	Final	Negative
HERC 2 Building	731	2/14/2020 5:54	PAINT	3.32	mg / cm ^2	Final	Positive

Table 3 - Asbestos Bulk Sample  
Results HERC Buildings 1 and 2

iATL Sample ID	EMI Sample ID	IATL Description	EMI Description	% Asbestos Type(1)	Asbestos Type(1)
6972418	HERC 1-001	Black Tar Paper / Tar	Roof Core 1		None Detected
6972418 (L2)	HERC 1-001	Black Tar Paper / Tar	Roof Core 1		None Detected
6972418 (L3)	HERC 1-001	Black Roof Material	Roof Core 1		None Detected
6972418 (L4)	HERC 1-001	Black Tar	Roof Core 1		None Detected
6972418 (L5)	HERC 1-001	Black Tar Paper / Tar	Roof Core 1		None Detected
6972418 (L6)	HERC 1-001	Lt Brown Roof Material	Roof Core 1		None Detected
6972419	HERC 1-002	Black Shingle	Roof Core 2		None Detected
6972419 (L2)	HERC 1-002	Black Tar	Roof Core 2		None Detected
6972419 (L3)	HERC 1-002	Black Tar Paper / Tar	Roof Core 2		None Detected
6972419 (L4)	HERC 1-002	Black Tar Paper / Tar	Roof Core 2		None Detected
6972419 (L5)	HERC 1-002	Black Roof Material	Roof Core 2		None Detected
6972419 (L6)	HERC 1-002	Black/Tan Tar Paper / Tar	Roof Core 2		None Detected
6972420	HERC 1-003	Black Tar	Penetrative Caulk 1		None Detected
6972421	HERC 1-004	Black Tar	Penetrative Caulk 2		None Detected
6972422	HERC 1-005	Black Tar	Penetrative Caulk 3		None Detected
6972423	HERC 2-001	Black Roof Material	Roof Core 1		None Detected
6972423 (L2)	HERC 2-001	Black Tar	Roof Core 1		None Detected
6972423 (L3)	HERC 2-001	Yellow Foam	Roof Core 1		None Detected
6972424	HERC 2-002	Black Roof Material	Roof Core 2		None Detected
6972424 (L2)	HERC 2-002	Black Tar	Roof Core 2		None Detected
6972424 (L3)	HERC 2-002	Yellow Foam	Roof Core 2		None Detected
6972425	HERC 2-003	Black Tar	Penetrative Caulk 1		None Detected
6972426	HERC 2-004	Black Tar	Penetrative Caulk 2		None Detected
6972427	HERC 2-005	Black Tar	Penetrative Caulk 3		None Detected
6972428	HERC 1-006	Black Tar	Chalkboard Mastic		None Detected
6972429	HERC 1-007	Black Cove Base	Cove Base		None Detected
6972429 (L2)	HERC 1-007	Tan Mastic	Cove Base		None Detected
6972430	HERC 1-008	Lt Tan Floor Tile	Floor Tile/Mastic		None Detected
6972430 (L2)	HERC 1-008	Tan Mastic	Floor Tile/Mastic		None Detected
6972430 (L3)	HERC 1-008	Black Mastic	Floor Tile/Mastic	2.6	Chrysotile
6972431	HERC 1-009	Off-White Caulk	Window Caulk		None Detected
6972432	HERC 1-010	Brown Carpet	Carpet Adhesive		None Detected
6972432 (L2)	HERC 1-010	Tan Mastic	Carpet Adhesive		None Detected
6972433	HERC 1-011	Red Carpet	Carpet Adhesive		None Detected
6972433 (L2)	HERC 1-011	Tan Mastic	Carpet Adhesive		None Detected
6972434	HERC 1-012	White Vinyl Sheet Flooring	Floor Tile/Mastic		None Detected
6972434 (L2)	HERC 1-012	Black Mastic	Floor Tile/Mastic	2.9	Chrysotile
6972435	HERC 1-013	Black Mastic	Chalkboard Mastic		None Detected
6972436	HERC 1-014	Lt Tan Glazing	Window Caulk		None Detected
6972437	HERC 1-015	Black Cove Base	Cove Base		None Detected
6972437 (L2)	HERC 1-015	Tan Mastic	Cove Base		None Detected
6972438	HERC 1-016	White/Tan Drywall	Wallboard System		None Detected
6972438 (L2)	HERC 1-016	White Joint Compound	Wallboard System		None Detected
6972438 (L3)	HERC 1-016	Cream Tape	Wallboard System		None Detected
6972438 (L4)	HERC 1-016	White Joint Compound	Wallboard System		None Detected
6972438 (L5)	HERC 1-016	Composite	Wallboard System		None Detected
6972439	HERC 1-017	Grey Cove Base	Cove Base		None Detected
6972440	HERC 1-018	White/Tan Drywall	Joint Compound/Tape		None Detected
6972441	HERC 1-019	Grey Cove Base	Cove Base		None Detected
6972441 (L2)	HERC 1-019	Tan Mastic	Cove Base		None Detected
6972441 (L3)	HERC 1-019	Dk Brown Mastic	Cove Base		None Detected
6972442	HERC 1-020	White/Tan Drywall	Joint Compound/Tape		None Detected
6972443	HERC 1-021	Yellow Vinyl Sheet Flooring	Floor Tile/Mastic		None Detected
6972443 (L2)	HERC 1-021	Tan Mastic	Floor Tile/Mastic		None Detected
6972444	HERC 1-022	Yellow Vinyl Sheet Flooring	Floor Tile/Mastic		None Detected
6972444 (L2)	HERC 1-022	Grey Leveling Compound	Floor Tile/Mastic		None Detected
6972445	HERC 1-023	Yellow Floor Tile	Floor Tile/Mastic		None Detected
6972445 (L2)	HERC 1-023	Tan Mastic	Floor Tile/Mastic		None Detected

Table 3 - Asbestos Bulk Sample  
Results HERC Buildings 1 and 2

iATL Sample ID	EMI Sample ID	IATL Description	EMI Description	% Asbestos Type(1)	Asbestos Type(1)
6972445 (L3)	HERC 1-023	Grey Leveling Compound	Floor Tile/Mastic		None Detected
6972446	HERC 1-024	Off-White Wrap	Pipe Insulation Elbow	80	Chrysotile
6972446 (L2)	HERC 1-024	Tan Wrap	Pipe Insulation Elbow		None Detected
6972446 (L3)	HERC 1-024	Off-White Woven	Pipe Insulation Elbow		None Detected
6972447	HERC 1-025	White/Tan Drywall	Wallboard System		None Detected
6972448	HERC 1-026	Tan/White Ceiling Tile	Floor Tile/Mastic		None Detected
6972449	HERC 1-027	Off-White Insulation	Pipe Insulation		None Detected
6972449 (L2)	HERC 1-027	Off-White Woven	Pipe Insulation		None Detected
6972450	HERC 1-028	Grey Floor Tile	Floor Tile/Mastic		None Detected
6972450 (L2)	HERC 1-028	Tan Grout	Floor Tile/Mastic		None Detected
6972450 (L3)	HERC 1-028	Tan Mastic	Floor Tile/Mastic		None Detected
6972450 (L4)	HERC 1-028	Black Mastic	Floor Tile/Mastic		None Detected
6972451	HERC 1-029	Brown Cove Base	Cove Base		None Detected
6972451 (L2)	HERC 1-029	Tan Mastic	Cove Base		None Detected
6972452	HERC 1-030	Grey Floor Tile	Floor Tile/Mastic		None Detected
6972452 (L2)	HERC 1-030	Tan Mastic	Floor Tile/Mastic		None Detected
6972452 (L3)	HERC 1-030	Black Mastic	Floor Tile/Mastic	3.8	Chrysotile
6972453	HERC 1-031	Off-White Joint Compound	Joint Compound/Tape	1.9	Chrysotile
6972453 (L2)	HERC 1-031	Cream Tape	Joint Compound/Tape		None Detected
6972453 (L3)	HERC 1-031	Off-White Joint Compound	Joint Compound/Tape	3.4	Chrysotile
6972454	HERC 1-032	Black Cove Base	Cove Base		None Detected
6972454 (L2)	HERC 1-032	Dk Brown Mastic	Cove Base		None Detected
6972454 (L3)	HERC 1-032	Off-White Joint Compound	Cove Base	2.1	Chrysotile
6972455	HERC 1-033	Grey Cove Base	Cove Base		None Detected
6972455 (L2)	HERC 1-033	Beige Mastic	Cove Base		None Detected
6972456	HERC 1-034	Red/Brown Carpet	Carpet Adhesive		None Detected
6972456 (L2)	HERC 1-034	Tan Mastic	Carpet Adhesive		None Detected
6972457	HERC 1-035	Tan Ceramic	Floor Tile/Mastic		None Detected
6972457 (L2)	HERC 1-035	Tan Grout	Floor Tile/Mastic		None Detected
6972457 (L3)	HERC 1-035	Black Mastic	Floor Tile/Mastic	2.4	Chrysotile
6972457 (L4)	HERC 1-035	Tan Mastic	Floor Tile/Mastic		None Detected
6972458	HERC 1-036	White/Tan Drywall	Wallboard System		None Detected
6972458 (L2)	HERC 1-036	Yellow Mastic	Wallboard System		None Detected
6972459	HERC 1-037	Cream Woven	Pipe Insulation Elbow		None Detected
6972459 (L2)	HERC 1-037	Off-White Insulation	Pipe Insulation Elbow	50	Chrysotile
6972460	HERC 1-038	Tan Joint Compound	Joint Compound/Tape	2.7	Chrysotile
6972460 (L2)	HERC 1-038	Cream Tape	Joint Compound/Tape		None Detected
6972460 (L3)	HERC 1-038	Lt Tan Joint Compound	Joint Compound/Tape	1.5	Chrysotile
6972461	HERC 1-039	Red/Off-White Carpet	Carpet Adhesive		None Detected
6972461 (L2)	HERC 1-039	Tan Mastic	Carpet Adhesive		None Detected
6972462	HERC 1-040	Grey Cove Base	Cove Base		None Detected
6972462 (L2)	HERC 1-040	Tan Mastic	Cove Base		None Detected
6972462 (L3)	HERC 1-040	Beige Mastic	Cove Base		None Detected
6972463	HERC 1-041	Tan/White Ceiling Tile	Ceiling Tile		None Detected
6972464	HERC 1-042	Brown/White Coating	Cement Coating		None Detected
6972465	HERC 1-043	Black Cove Base	Cove Base		None Detected
6972466	HERC 1-044	Brown/Green Carpet	Carpet Adhesive		None Detected
6972466 (L2)	HERC 1-044	Tan Mastic	Carpet Adhesive		None Detected
6972467	HERC 1-045	Green/Red Carpet	Carpet Adhesive		None Detected
6972467 (L2)	HERC 1-045	Tan Mastic	Carpet Adhesive		None Detected
6972468	HERC 1-046	Black Cove Base	Cove Base		None Detected
6972468 (L2)	HERC 1-046	Dk Brown Mastic	Cove Base		None Detected
6972469	HERC 1-047	Tan/White Ceiling Tile	Floor Tile/Mastic		None Detected
6972470	HERC 1-048	Dk Brown Mastic	Brown Adhesive		None Detected
6972471	HERC 1-049	Dk Brown Mastic	Brown Adhesive		None Detected
6972472	HERC 1-050	Tan/White Ceiling Tile	Ceiling Tile		None Detected
6972473	HERC 1-051	Brown Carpet	Carpet Adhesive		None Detected
6972473 (L2)	HERC 1-051	Beige Mastic	Carpet Adhesive		None Detected

Table 3 - Asbestos Bulk Sample  
Results HERC Buildings 1 and 2

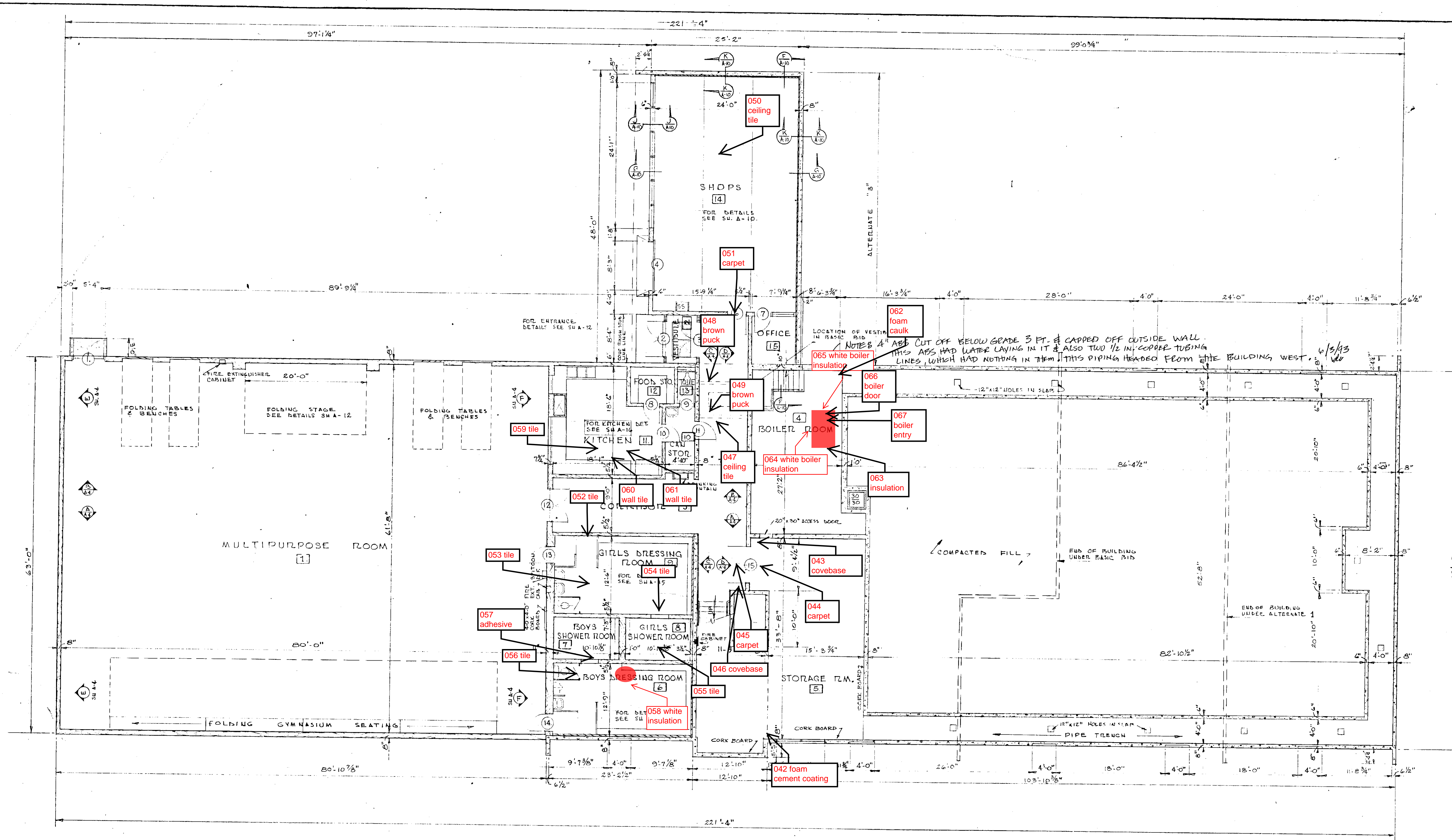
iATL Sample ID	EMI Sample ID	IATL Description	EMI Description	% Asbestos Type(1)	Asbestos Type(1)
6972474	HERC 1-052	Tan Vinyl Sheet Flooring	Floor Tile/Mastic		None Detected
6972474 (L2)	HERC 1-052	Tan Mastic	Floor Tile/Mastic		None Detected
6972475	HERC 1-053	White/Tan Ceramic	Floor Tile/Mastic		None Detected
6972475 (L2)	HERC 1-053	Grey Grout	Floor Tile/Mastic		None Detected
6972475 (L3)	HERC 1-053	White Mastic/Woven Material	Floor Tile/Mastic		None Detected
6972476	HERC 1-054	White/Yellow Ceramic	Floor Tile/Mastic		None Detected
6972476 (L2)	HERC 1-054	Yellow Mastic	Floor Tile/Mastic		None Detected
6972476 (L3)	HERC 1-054	White/Grey Grout	Floor Tile/Mastic		None Detected
6972477	HERC 1-055	Yellow Ceramic	Floor Tile/Mastic		None Detected
6972477 (L2)	HERC 1-055	White/Grey Grout	Floor Tile/Mastic		None Detected
6972478	HERC 1-056	Tan Ceramic	Floor Tile/Mastic		None Detected
6972478 (L2)	HERC 1-056	White Grout	Floor Tile/Mastic		None Detected
6972478 (L3)	HERC 1-056	Grey Mortar	Floor Tile/Mastic		None Detected
6972479	HERC 1-057	White Caulk	Door Adhesive		None Detected
6972480	HERC 1-058	White Insulation	Pipe Insulation Elbow	30	Amosite
6972481	HERC 1-059	Grey Vinyl Sheet Flooring	Floor Tile/Mastic		None Detected
6972481 (L2)	HERC 1-059	Yellow Mastic	Floor Tile/Mastic		None Detected
6972481 (L3)	HERC 1-059	Off-White Floor Tile	Floor Tile/Mastic		None Detected
6972481 (L4)	HERC 1-059	Black Mastic	Floor Tile/Mastic		None Detected
6972482	HERC 1-060	White/Brown Wall Cover	Wall Tile/Mastic		None Detected
6972482 (L2)	HERC 1-060	Yellow Mastic	Wall Tile/Mastic		None Detected
6972483	HERC 1-061	Red Ceramic	Wall Tile/Mastic		None Detected
6972483 (L2)	HERC 1-061	Grey Grout	Wall Tile/Mastic		None Detected
6972483 (L3)	HERC 1-061	White Caulk	Wall Tile/Mastic		None Detected
6972484	HERC 1-062	Yellow Foam	Caulk		None Detected
6972485	HERC 1-063	Yellow Insulation	Boiler Insulation		None Detected
6972486	HERC 1-064	White Insulation	Boiler Coating	20	Chrysotile
6972487	HERC 1-065	White Insulation	Boiler Coating	20	Chrysotile
6972488	HERC 1-066	White Insulation	Boiler Door Insulation		None Detected
6972489	HERC 1-067	Yellow Insulation	Boiler Insulation		None Detected
AB20-1217	HERC 1-068	Black Tar	Black Tar		None Detected
6972490	HERC 2-006	Grey Floor Tile	Floor Tile/Mastic	2.4	Chrysotile
6972490 (L2)	HERC 2-006	Black Mastic	Floor Tile/Mastic	5.6	Chrysotile
6972491	HERC 2-007	Black Cove Base	Cove Base		None Detected
6972491 (L2)	HERC 2-007	Brown Mastic	Cove Base		None Detected
6972492	HERC 2-008	Off-White Mastic	Carpet Adhesive		None Detected
6972493	HERC 2-009	Yellow Mastic	Carpet Adhesive		None Detected
6972494	HERC 2-010	White Floor Tile	Floor Tile/Mastic		None Detected
6972494 (L2)	HERC 2-010	Black Mastic	Floor Tile/Mastic	5.2	Chrysotile
6972495	HERC 2-011	White Floor Tile	Floor Tile/Mastic		None Detected
6972495 (L2)	HERC 2-011	Yellow Mastic	Floor Tile/Mastic		None Detected
6972495 (L3)	HERC 2-011	Black Mastic	Floor Tile/Mastic	5.4	Chrysotile
6972496	HERC 2-012	White Floor Tile	Floor Tile/Mastic		None Detected
6972496 (L2)	HERC 2-012	Black Mastic	Floor Tile/Mastic	4.8	Chrysotile
6972497	HERC 2-013	Black Cove Base	Cove Base		None Detected
6972497 (L2)	HERC 2-013	Brown Mastic	Cove Base		None Detected
6972498	HERC 2-014	Tan Vinyl Sheet Flooring	Floor Tile/Mastic		None Detected
6972498 (L2)	HERC 2-014	Black/Tan Mastic	Floor Tile/Mastic		None Detected
6972499	HERC 2-015	White Fibrous	Caulk		None Detected
6972500	HERC 2-016	Tan/White Ceiling Tile	Ceiling Tile		None Detected
6972501	HERC 2-017	Grey Ceramic	Floor Tile/Mastic		None Detected
6972501 (L2)	HERC 2-017	Lt Red Grout	Floor Tile/Mastic		None Detected
6972501 (L3)	HERC 2-017	Tan Mastic	Floor Tile/Mastic		None Detected
6972502	HERC 2-018	Grey/Yellow Floor Tile	Floor Tile/Mastic	4.8	Chrysotile
6972502 (L2)	HERC 2-018	Black Mastic	Floor Tile/Mastic	4.1	Chrysotile
6972503	HERC 2-019	Grey Texture	Cement Texture		None Detected
6972504	HERC 2-020	Yellow/Off-White Foam	Caulk		None Detected
6972505	HERC 2-021	White Insulation	Boiler Coating	15	Chrysotile

Table 3 - Asbestos Bulk Sample  
Results HERC Buildings 1 and 2

iATL Sample ID	EMI Sample ID	iATL Description	EMI Description	% Asbestos Type(1)	Asbestos Type(1)
6972506	HERC 2-022	White Insulation	Boiler Coating	15	Chrysotile
6972507	HERC 2-023	White/Grey Insulation	Boiler insulation		None Detected
6972507 (L2)	HERC 2-023	Clear/Tan Mastic	Boiler Insulation		None Detected
6972508	HERC 2-024	Tan/White Ceiling Tile	Ceiling Tile		None Detected
6972509	HERC 2-025	Lt Tan Ceiling Tile	Ceiling Tile		None Detected
6972510	HERC 2-026	Dk Brown Mastic	Brown Adhesive		None Detected
6972510 (L2)	HERC 2-026	Dk Tan Ceiling Tile	Brown Adhesive		None Detected
6972511	HERC 2-027	Black Cove Base	Cove Base		None Detected
6972511 (L2)	HERC 2-027	Dk Brown Mastic	Cove Base		None Detected
6972512	HERC 2-028	Brown Carpet	Carpet Adhesive		None Detected
6972512 (L2)	HERC 2-028	Tan Mastic	Carpet Adhesive		None Detected
6972513	HERC 2-029	Tan Ceramic	Floor Tile/Mastic		None Detected
6972513 (L2)	HERC 2-029	Tan Mastic	Floor Tile/Mastic		None Detected
6972513 (L3)	HERC 2-029	Black/Tan Mastic / Paper	Floor Tile/Mastic		None Detected
6972514	HERC 2-030	Lt Red Caulk	Window Adhesive		None Detected
6972515	HERC 2-031	Dk Brown Caulk	Window Adhesive		None Detected
6972515 (L2)	HERC 2-031	Off-White Caulk	Window Adhesive		None Detected

Note (L2) means second layer of sample





... GROUND - FLOOR - PLAN ...  
SCALE 1/8" = 1'-0"

NOTE: ALL EXTERIOR DIMENSIONS ARE TO CONCRETE UNLESS OTHERWISE NOTED.

ALL INTERIOR DIMENSIONS ARE FROM FINISH SURF OF CONCRETE UNLESS OTHERWISE NOTED.

.. GROUND - FLOOR - ROOM - FINISH - SCHEDULE ..

ROOM NUMBER	ROOM NAME	FLOORS		BASE		WAINSCOT		WALLS		CEILINGS		TRIM		CEILING HEIGHT
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
1.	MULTIPURPOSE ROOM	HARDWOOD	VARNISH SEE SPEC	WOOD	VARNISH	MARLITE	NONE	1/2" BIRCH PLY 5/8" GYPSUM BN	VARNISH	METAL ACoustICAL CEILING	PREFINISHED	METAL WOOD	ENAMEL VARNISH	19'-0"
2.	VESTIBULE	PLASTIC TILE	NONE	RUBBER	NONE	MARLITE	NONE	5/8" GYPSUM BN	PAINT	ACoustICAL TILE	NONE	ALUMINUM	NONE	9'-1" SEE DETAIL SH. A-12
3.	CORRIDOR	PLASTIC TILE	NONE	RUBBER	NONE	MARLITE	NONE	5/8" GYPSUM BN	PAINT	ACoustICAL TILE	NONE	METAL	ENAMEL	9'-1"
4.	BOILER ROOM	CONCRETE	NONE	NONE	NONE	NONE	NONE	CONCRETE	UNFINISHED	CONCRETE	UNFINISHED	METAL	ENAMEL	13'-10"
5.	STORAGE ROOM	CONCRETE	NONE	NONE	NONE	NONE	NONE	CONCRETE	PAINT	5/8" GYPSUM BN	PAINT	WOOD	VARNISH	9'-1"
6.	BOYS DRESSING ROOM	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	MARLITE	NONE	5/8" GYPSUM BN	ENAMEL	METAL WOOD	ENAMEL VARNISH	9'-1"
7.	BOYS SHOWER ROOM	CERAMIC TILE	NONE	CERAMIC TILE	NONE	NONE	NONE	CERAMIC TILE	NONE	CERAMIC TILE	NONE	CERAMIC TILE	NONE	8'-3" SEE DETAIL SH. A-15
8.	GIRLS SHOWER ROOM	CERAMIC TILE	NONE	CERAMIC TILE	NONE	NONE	NONE	CERAMIC TILE	NONE	CERAMIC TILE	NONE	CERAMIC TILE	NONE	8'-3" SEE DETAIL SH. A-15
9.	GIRLS DRESSING ROOM	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	MARLITE	NONE	5/8" GYPSUM BN	ENAMEL	METAL WOOD	ENAMEL VARNISH	9'-1" SEE DETAIL SH. A-15
10.	CAN STORAGE ROOM	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	CONCRETE MARLITE	ENAMEL	5/8" GYPSUM BN	ENAMEL	METAL WOOD	ENAMEL VARNISH	9'-1" SEE DETAIL SH. A-16
11.	KITCHEN	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	5/8" GYPSUM BN	ENAMEL	5/8" GYPSUM BN	ENAMEL	METAL WOOD	ENAMEL VARNISH	9'-1" SEE DETAIL SH. A-16
12.	FOOD STORAGE ROOM	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	5/8" GYPSUM BN	ENAMEL	5/8" GYPSUM BN	ENAMEL	METAL WOOD	ENAMEL VARNISH	9'-1" SEE DETAIL SH. A-16
13.	TOILET	PLASTIC TILE	NONE	RUBBER	NONE	MARLITE	NONE	5/8" GYPSUM BN	ENAMEL	5/8" GYPSUM BN	ENAMEL	METAL WOOD	ENAMEL VARNISH	9'-1" SEE DETAIL SH. A-16
14.	SHOPS	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	1/2" BIRCH PLY 5/8" GYPSUM BN	VARNISH	T&G BECK	PAINT	METAL WOOD	ENAMEL VARNISH	8'-0" SEE DETAIL SH. A-16
15.	OFFICE	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	1/2" BIRCH PLY 5/8" GYPSUM BN	CONCRETE	5/8" GYPSUM BN	PAINT	METAL WOOD	ENAMEL VARNISH	8'-3"

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FOR DETAILS SEE SH. A-12  
FOR DETAILS SEE SH. A-13  
FOR DETAILS SEE SH. A-14  
FOR DETAILS SEE SH. A-15  
FOR DETAILS SEE SH. A-16  
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FOR DETAILS SEE SH. A-100

**HOMER HIGH SCHOOL**  
DEPARTMENT OF EDUCATION  
TERRITORY OF ALASKA  
ALASKA PUBLIC WORKS PROJECT NO.  
AAA - 50 - A - 234

GROUND - FLOOR - PLAN  
GROUND - FLOOR - ROOM FINISH - SCHEDULE

DRAWN BY: BCH  
CHECKED BY: FB.M.  
DATE: DEC. 20, 1954

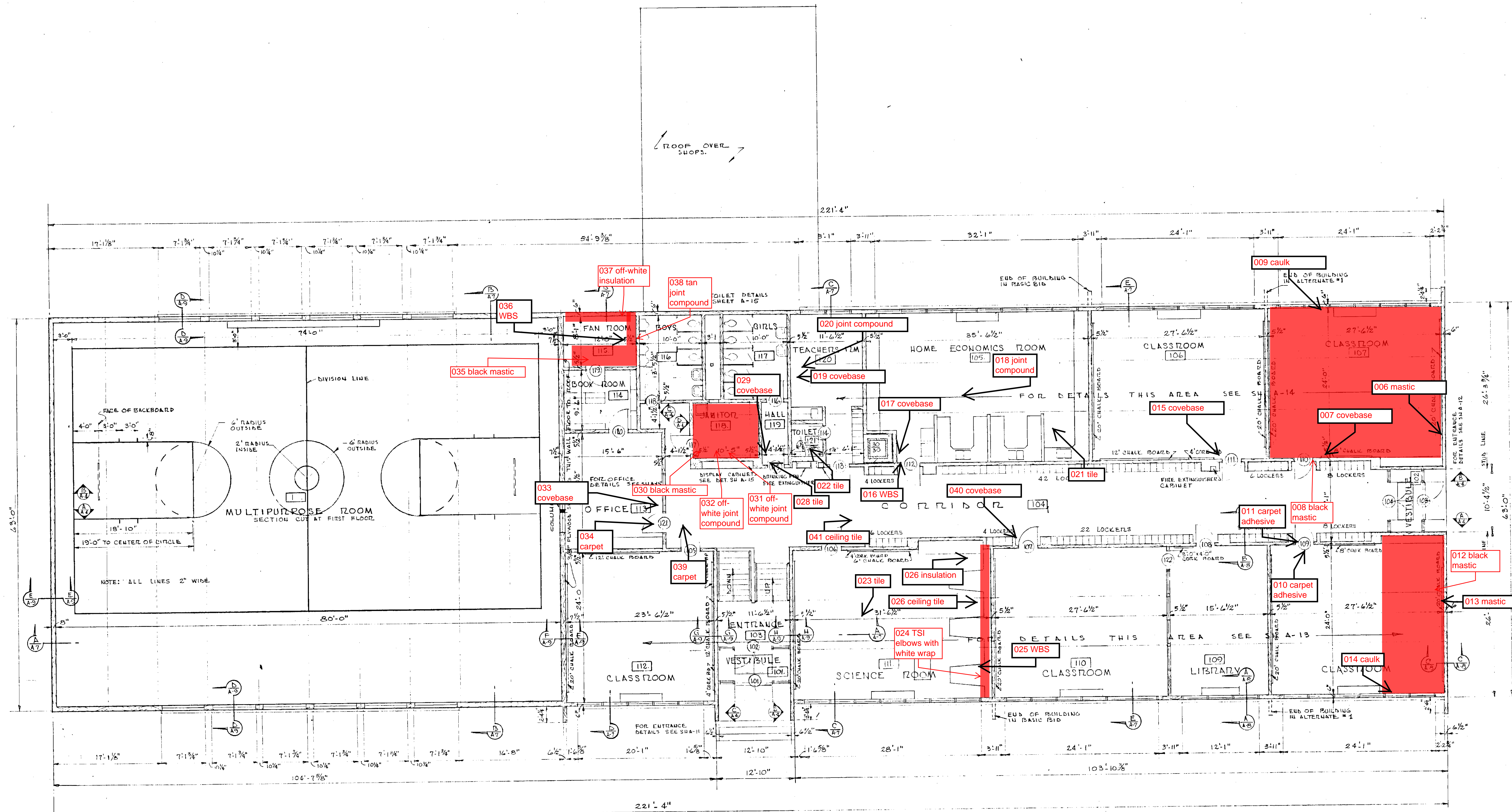
MANLEY & MAYER  
A. I. A.  
ARCHITECTS  
ANCHORAGE, ALASKA

JOB NUMBER: 5601-12  
DRAWING NUMBER: A2 OF A-16

REGISTERED ARCHITECT  
21-A  
WILLIAM MANLEY  
ANCHORAGE 1939

REGISTERED PROFESSIONAL ENGINEER  
172-A  
FRANCIS B. MAYER  
ANCHORAGE 1947





FIRST FLOOR PLAN  
SCALE 1/8" = 1'-0"

NOTE: ALL EXTERIOR DIMENSIONS ARE TO CONCRETE FOUNDATION LINE OR FINISH WINDOW FRAME, UNLESS OTHERWISE NOTED.  
ALL INTERIOR DIMENSIONS ARE FROM ROUGH STUD TO ROUGH STUD, UNLESS OTHERWISE NOTED.

PLAN OF BUILDING END FOR BASIC BID  
SCALE 1/4" = 1'-0"

PLAN OF BUILDING END FOR ALTERNATE #1  
SCALE 1/4" = 1'-0"

FIRST FLOOR ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOORS		BASE		WAINSCOT		WALLS		CEILINGS		TRIM		CEILING HEIGHT
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
101.	VESTIBULE	PLASTIC TILE	NONE	RUBBER	NONE	MARLITE	NONE	3/8" GYPSUM BD.	PAINT	ACOUSTICAL TILE	NONE	ALUMINUM	NONE	9'-0"
102.	VESTIBULE	PLASTIC TILE	NONE	RUBBER	NONE	MARLITE	NONE	3/8" GYPSUM BD.	PAINT	ACOUSTICAL TILE	NONE	ALUMINUM	NONE	9'-0"
103.	ENTRANCE	PLASTIC TILE	NONE	RUBBER	NONE	MARLITE	NONE	3/8" GYPSUM BD.	PAINT	ACOUSTICAL TILE	NONE	ALUMINUM	NONE	9'-0"
104.	CORRIDOR	PLASTIC TILE	NONE	RUBBER	NONE	MARLITE	NONE	3/8" GYPSUM BD.	PAINT	ACOUSTICAL TILE	NONE	METAL WOOD	ENAMEL VARNISH	9'-0"
105.	HOME ECONOMICS ROOM	PLASTIC TILE	NONE	RUBBER	NONE	MARLITE	NONE	3/8" GYPSUM BD.	PAINT	ACOUSTICAL TILE	NONE	METAL WOOD	ENAMEL VARNISH	10'-0"
106.	CLASSROOM	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	1/2" BIRCH PLY	VARNISH	ACOUSTICAL TILE	NONE	METAL WOOD	ENAMEL VARNISH	10'-0"
107.	CLASSROOM	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	1/2" BIRCH PLY	VARNISH	ACOUSTICAL TILE	NONE	METAL WOOD	ENAMEL VARNISH	10'-0"
108.	CLASSROOM	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	1/2" BIRCH PLY	VARNISH	ACOUSTICAL TILE	NONE	METAL WOOD	ENAMEL VARNISH	10'-0"
109.	LIBRARY	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	1/2" BIRCH PLY	VARNISH	ACOUSTICAL TILE	NONE	METAL WOOD	ENAMEL VARNISH	10'-0"
110.	CLASSROOM	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	1/2" BIRCH PLY	VARNISH	ACOUSTICAL TILE	NONE	METAL WOOD	ENAMEL VARNISH	10'-0"
111.	SCIENCE ROOM	PLASTIC TILE	NONE	RUBBER	NONE	MARLITE	NONE	3/8" GYPSUM BD.	PAINT	ACOUSTICAL TILE	NONE	METAL WOOD	ENAMEL VARNISH	10'-0"
112.	CLASSROOM	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	1/2" BIRCH PLY	VARNISH	ACOUSTICAL TILE	NONE	METAL WOOD	ENAMEL VARNISH	10'-0"
113.	OFFICE	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	3/8" GYPSUM BD.	ENAMEL	ACOUSTICAL TILE	NONE	METAL WOOD	ENAMEL VARNISH	9'-0"
114.	BOOK ROOM	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	3/8" GYPSUM BD.	PAINT	3/8" GYPSUM BD.	PAINT	METAL WOOD	ENAMEL VARNISH	8'-3"
115.	FAN ROOM	CONCRETE	NONE	RUBBER	NONE	NONE	NONE	3/8" GYPSUM BD.	PAINT	3/8" GYPSUM BD.	PAINT	METAL WOOD	ENAMEL VARNISH	8'-3"
116.	BOYS TOILET	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	MARLITE	NONE	3/8" GYPSUM BD.	ENAMEL	METAL WOOD	ENAMEL	8'-3"
117.	GIRLS TOILET	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	MARLITE	NONE	3/8" GYPSUM BD.	ENAMEL	METAL WOOD	ENAMEL	8'-3"
118.	JANITORS ROOM	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	3/8" GYPSUM BD.	ENAMEL	3/8" GYPSUM BD.	ENAMEL	METAL WOOD	ENAMEL VARNISH	8'-3"
119.	HALL	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	3/8" GYPSUM BD.	ENAMEL	3/8" GYPSUM BD.	PAINT	METAL WOOD	ENAMEL VARNISH	10'-0"
120.	TEACHERS ROOM	PLASTIC TILE	NONE	RUBBER	NONE	NONE	NONE	3/8" GYPSUM BD.	ENAMEL	3/8" GYPSUM BD.	PAINT	METAL WOOD	ENAMEL VARNISH	10'-0"
121.	TOILET	PLASTIC TILE	NONE	RUBBER	NONE	MARLITE	NONE	3/8" GYPSUM BD.	ENAMEL	3/8" GYPSUM BD.	ENAMEL	METAL WOOD	ENAMEL VARNISH	8'-0"

REVISION MAY 1954 FOR 100  
FOR RECORD NO. AAA-50-A-234  
C. A. Kendall

2956

**HOMER HIGH SCHOOL**  
DEPARTMENT OF EDUCATION  
TERRITORY OF ALASKA  
ALASKA PUBLIC WORKS PROJECT NO.  
AAA-50-A-234

FIRST FLOOR PLAN  
FIRST FLOOR ROOM FINISH SCHEDULE

REGISTERED ARCHITECT  
21-A  
WILLIAM  
MANLEY  
ANCHORAGE  
1939

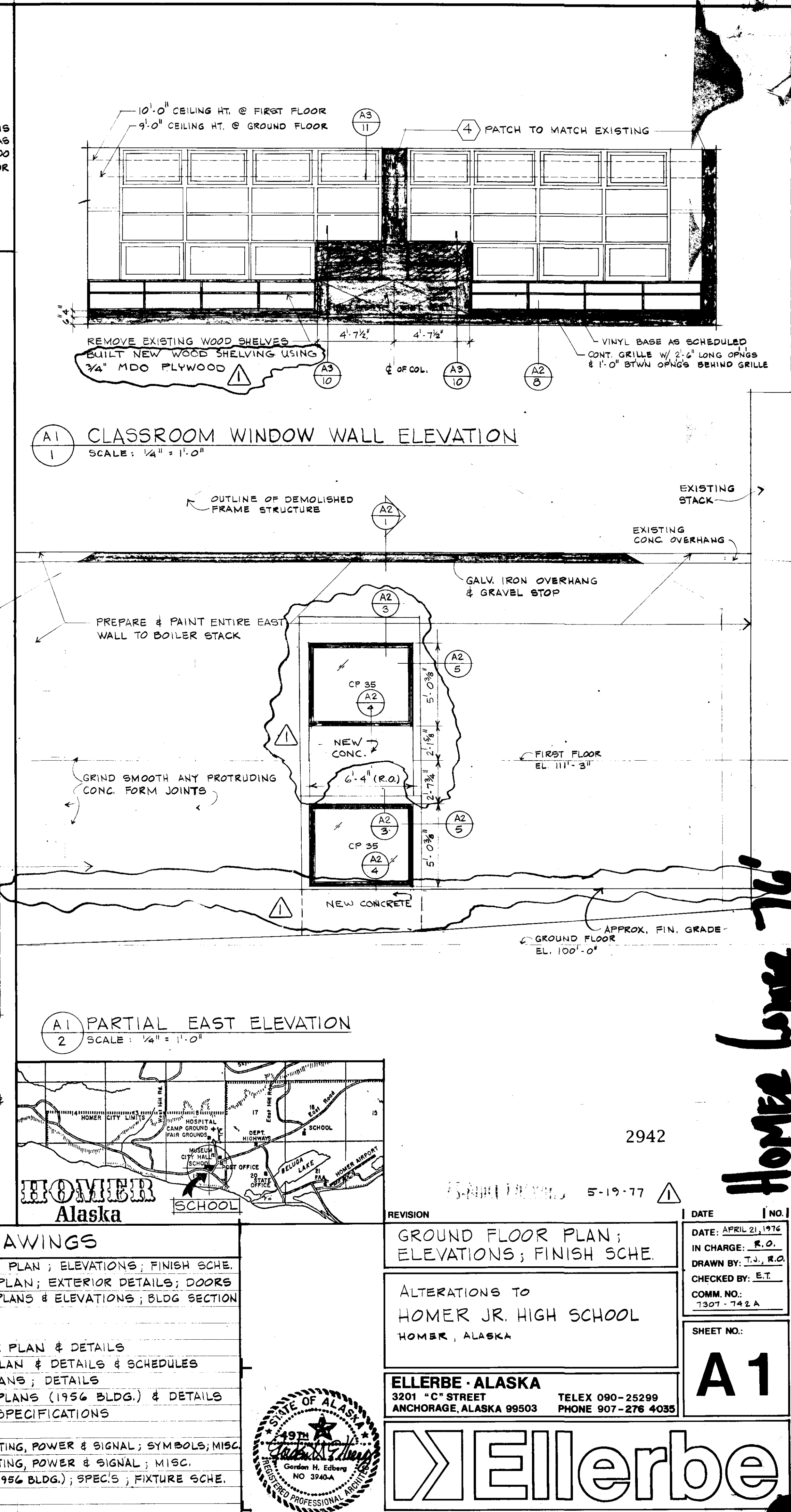
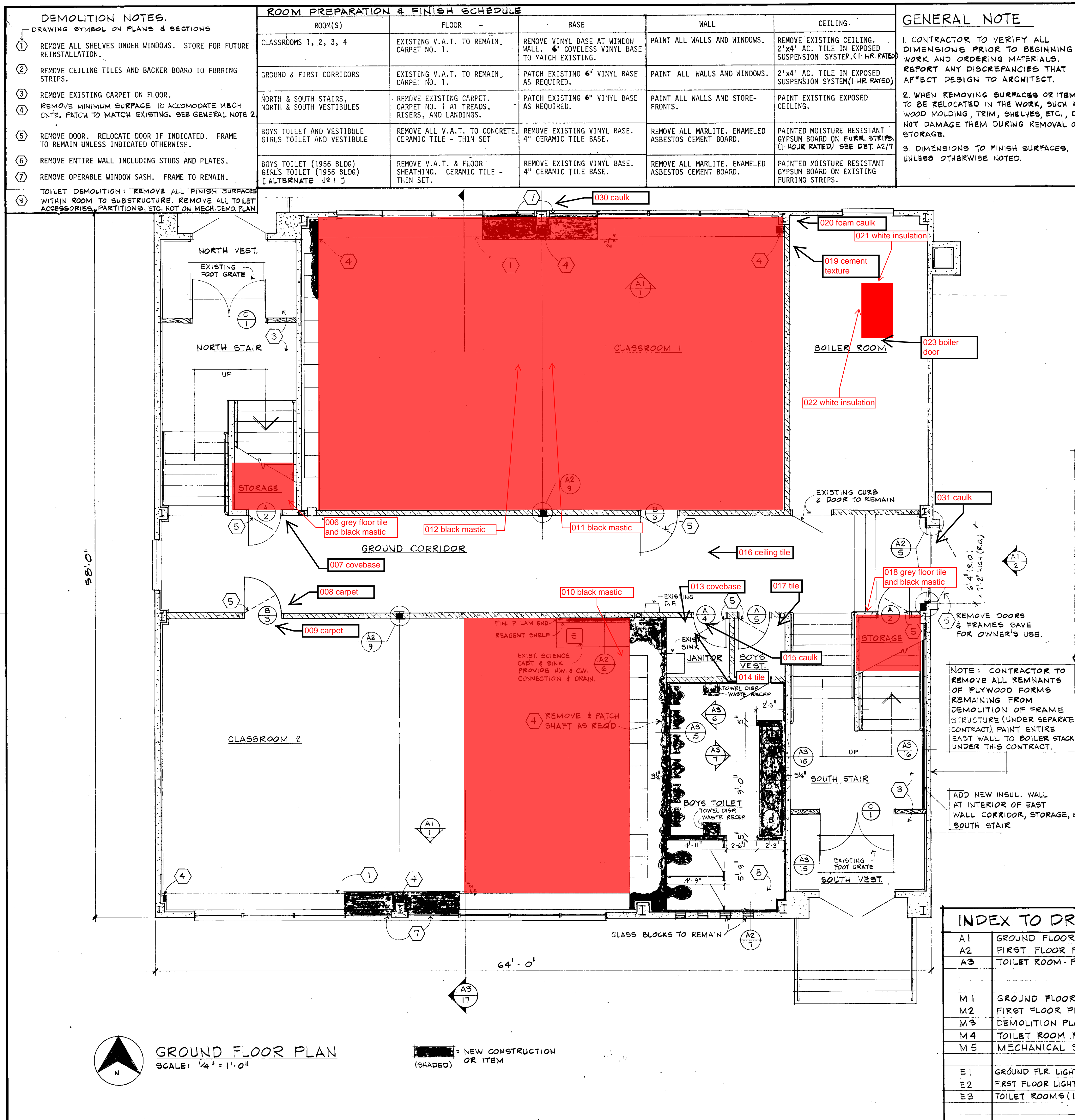
REGISTERED ARCHITECT  
172-A  
FRANCIS B.  
MAYER  
ANCHORAGE  
1947

DRAWN BY: B.C.H.  
CHECKED BY: F.B.M.  
DATE: DEC. 20, 1954

**MANLEY & MAYER**  
ARCHITECTS  
ANCHORAGE, ALASKA

JOB NUMBER  
**5601-R**  
DRAWING NUMBER  
**A-16**









# Appendix A

## Photo Log



## Photo Log

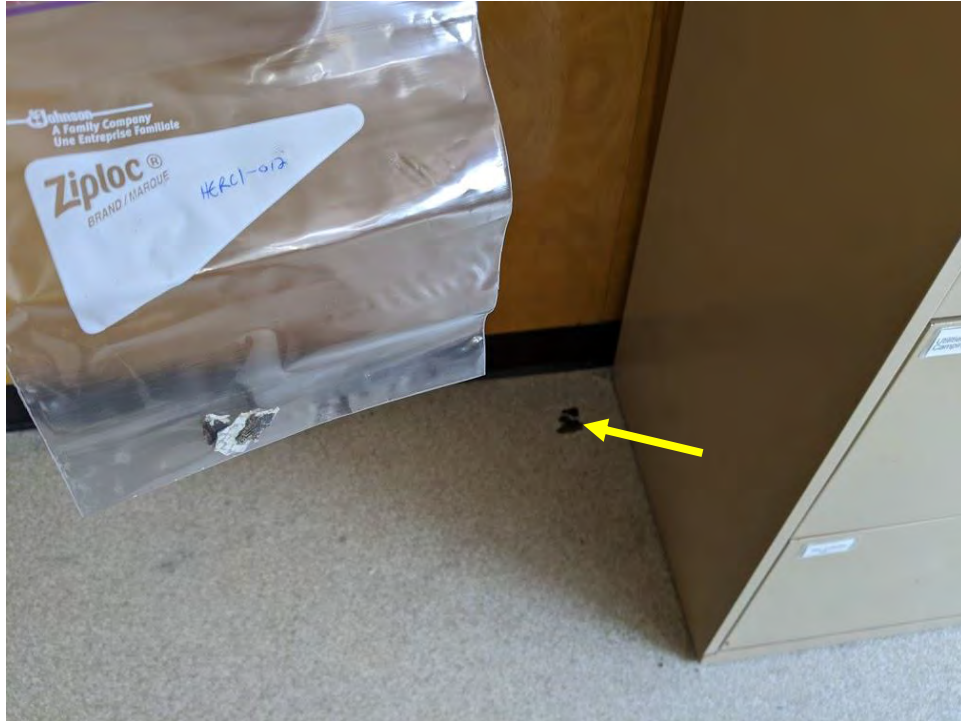


**Photo 1:** This photo shows sample location HERC 1-008 which is of ACM black mastic under the floor tile in room 107.



**Photo 2:** This photo shows ACM black mastic under the floor tile in room 107.

## Photo Log



**Photo 3:** This photo shows sample location HERC 1-012 which is of ACM black mastic under the floor tile in room 108.



**Photo 4:** This photo shows ACM black mastic under the floor tile in room 108.



## Photo Log



**Photo 5:** This photo shows sample location HERC 1-024 which is of ACM off-white wrap around a pipe elbow found in the walls of room 111 (science room).

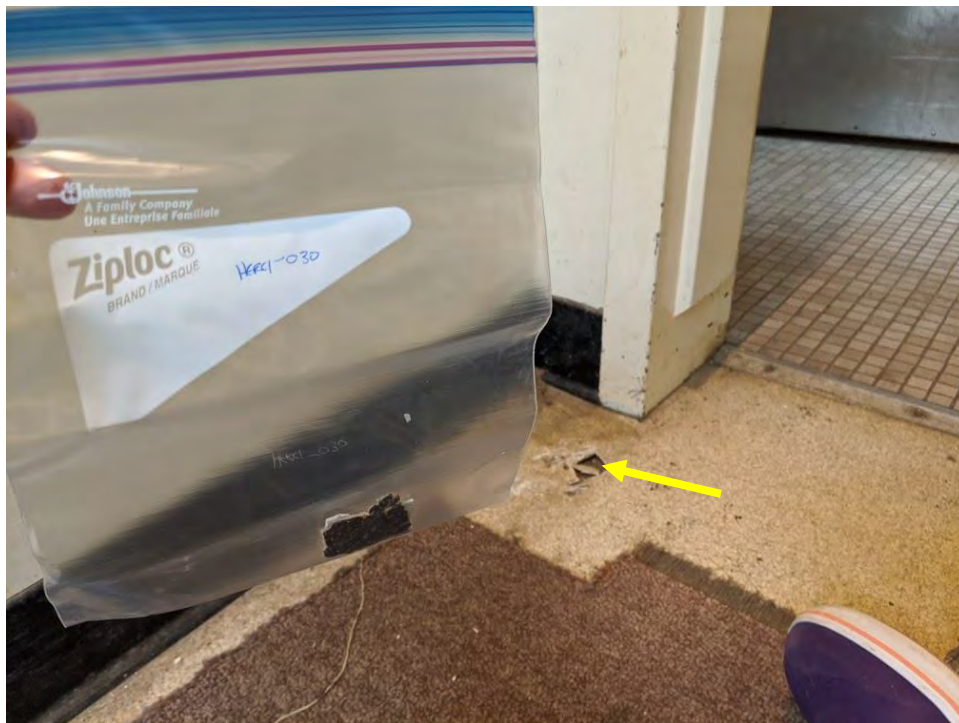


**Photo 6:** This photo shows the location of ACM off-white wrap around a pipe elbow found in the wall of room 111.

## Photo Log



**Photo 7:** This photo shows the location of ACM off-white wrap around a pipe elbow found in the ceiling of room 111.



**Photo 8:** This photo shows sample location HERC 1-030 which is of ACM black mastic under the floor tile in room 118 (janitor's closet between boy's and girl's restroom).



## Photo Log

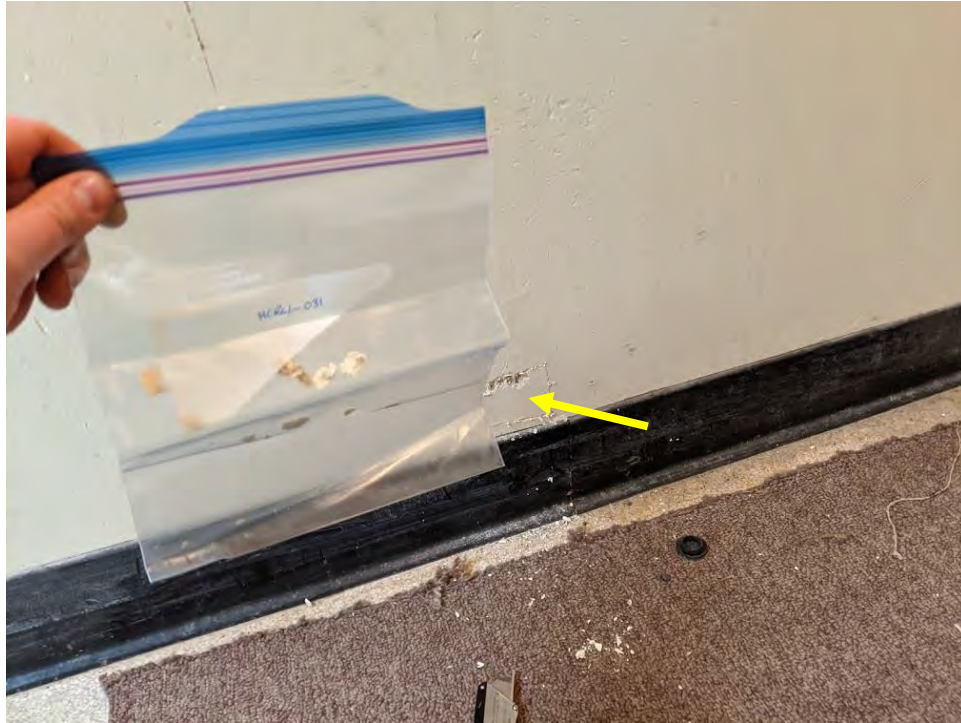


**Photo 9:** This photo shows protruding pipe into the wall in room 118 (janitor's closet between boy's and girl's restroom).

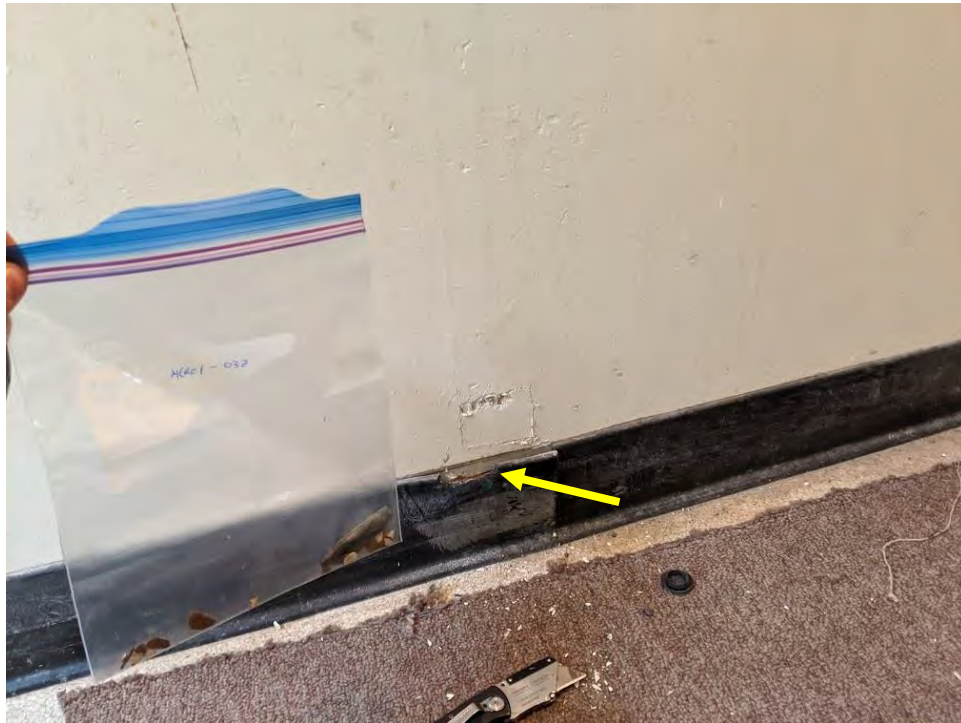


**Photo 10:** This photo shows piping associated with restrooms in room 118 (janitor's closet between boy's and girl's restroom).

## Photo Log



**Photo 11:** This photo shows sample location HERC 1-031 which is of ACM off-white joint compound found layering the plywood wall of room 118 (janitor's closet between boy's and girl's restroom).



**Photo 12:** This photo shows sample location HERC 1-032 which is of ACM off-white joint compound found layering the plywood wall of room 118 (janitor's closet between boy's and girl's restroom).



## Photo Log

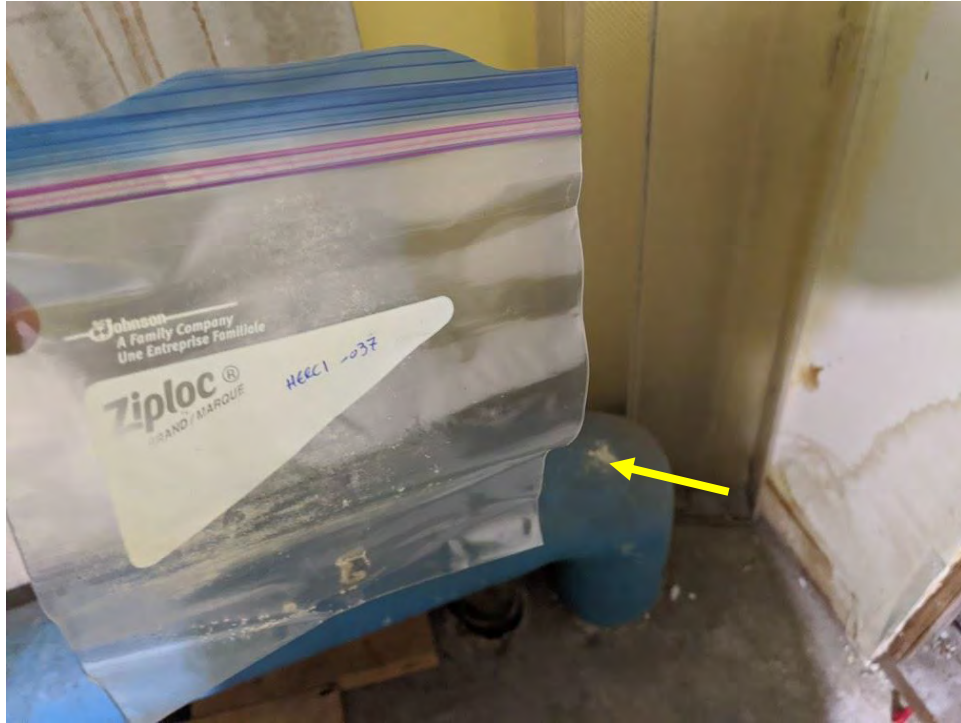


**Photo 13:** This photo shows sample location HERC 1-035 which is of ACM black mastic under the floor tile in the storage closet of the fan room.



**Photo 14:** This photo shows ACM black mastic under the floor tile in the storage closet of the fan room.

## Photo Log



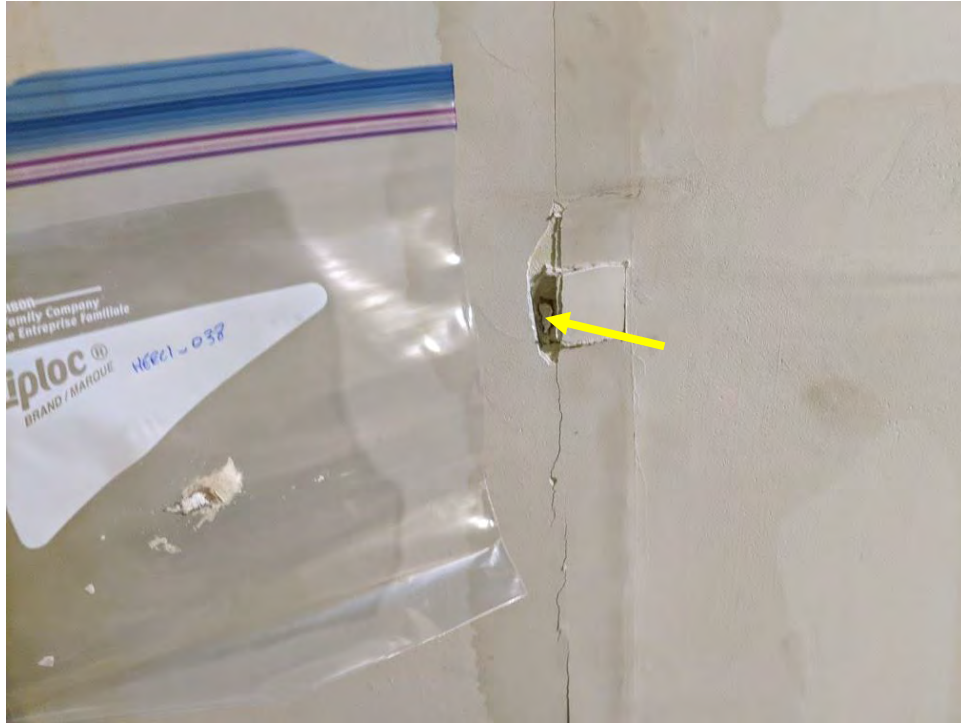
**Photo 15:** This photo shows sample location HERC 1-037 which is of ACM off-white insulation around a pipe elbow found in the fan room.



**Photo 16:** This photo shows piping that contained ACM off-white insulation around a pipe elbow found in the fan room.



## Photo Log



**Photo 17:** This photo shows sample location HERC 1-038 which is of ACM tan joint compound attached to plywood in one wall found in the fan room.



**Photo 18:** This photo shows ACM tan joint compound attached to plywood in one wall found in the fan room.

## Photo Log



**Photo 19:** This photo shows sample location HERC 1-058 which is of ACM white insulation around a pipe found in the men's locker room.



**Photo 20:** This photo shows ACM white insulation around a pipe found in the men's locker room.



## Photo Log



**Photo 21:** This photo shows sample locations HERC 1-064 and 065 which is of ACM white insulation coating a boiler found in the boiler room.

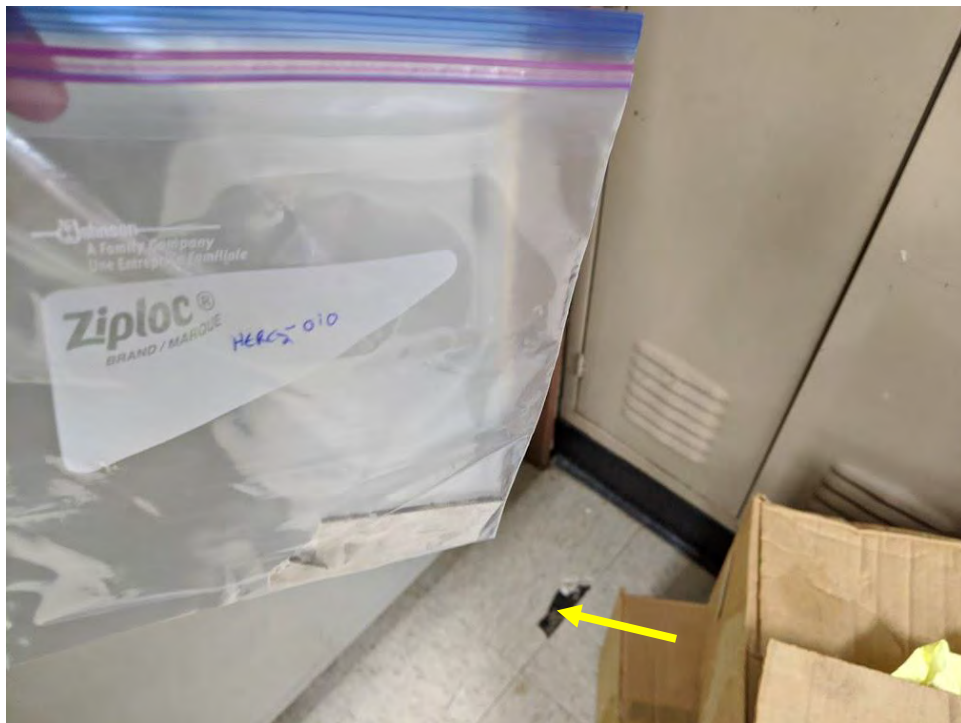


**Photo 22:** This photo shows sample location HERC 2-006 which is of ACM grey floor tile and black mastic under the floor tile in the storage closet.

## Photo Log



**Photo 23:** This photo shows ACM grey floor tile and black mastic under the floor tile in the storage closet.



**Photo 24:** This photo shows sample location HERC 2-010 which is of ACM black mastic under the floor tile found in classroom 2.



## Photo Log



**Photo 25:** This photo shows ACM black mastic under the floor tile found in classroom 2.



**Photo 26:** This photo shows sample locations HERC 2-011 and 012 which is of ACM black mastic under the floor tiles found in classroom 1.

## Photo Log



**Photo 27:** This photo shows ACM black mastic under the floor tiles found in classroom 1.



**Photo 28:** This photo shows sample location HERC 2-018 which is of ACM grey/yellow floor tile and black mastic under the floor tile found in the storage closet.



## Photo Log



**Photo 29:** This photo shows sample locations HERC 2-021 and 022 which is of ACM white insulation coating a boiler found in the boiler room.

# Appendix B

## Field Notes

2/14/19 18087 HERC Building HBMS Bathing

0830 Arrive on site Carey

0900 meet Carey and maintenance russell

0930 walkthrough both buildings for  
suspect materials

HERC Building 1 Roof

001 core sample older

002 core sample newer

003 penetrative caulk

004 penetrative caulk

005 penetrative caulk

HERC Building 2 Roof

006 core sample newer

007 core sample older

008 penetrative caulk

009 penetrative caulk

010 penetrative caulk

1130 XRF calibration

1.1, 1.0, 1.5

1141 #1 (678)

Negative side entrance hall

1142 #2 (679)

Negative door jam

1143 #3 (680)

Negative room entryway next to 115

1144 #4 (681)

Negative door jam

*Rite in the Rain*

- 1145 #5 (682)  
negative (condensation)
- 1147 #6 (683)  
negative rm 110 entryway
- 1148 #7 (684)  
negative bathroom (w) stall
- 1148 #8 (685) ~~to~~  
negative bathroom sink (w)
- 1150 #9 (686)  
negative bathroom (M) entry
- 1151 #10 (688)  
negative bathroom (M) sink
- 1153 #11 (689)  
negative  
room 120 → fan room machine
- 1154 #12 (690)  
negative fan room wall
- 1156 #13 (691)  
negative lower level wall by stairs
- 1158 #14 (693)  
negative base of staircase room
- 1200 #15 (694)  
negative door jam - generator rm
- 1200 #16 (695)  
negative door - generator rm
- 1201 #17 (696)  
negative kitchen bathroom

- 1201 #18 (697)  
negative kitchen wall
- 1203 #19 (698)  
negative back lower entry way
- 1203 #20 (699)  
negative red door inside
- 1204 #21 (701)  
negative blue door
- 1206 #22 (702)  
negative green wall
- 1206 #23 (703)  
negative dance room door
- 1207 #24 (704)  
negative dance rm door jam
- 1207 #25 (705)  
negative wall outside gym
- 1208 #26 (706)  
negative gym door
- 1209 #27 (707)  
negative gym door jam
- 1210 #28 (708)  
negative exterior entry way
- 1210 #29 (709)  
positive ext. window frame
- 1212 #30 (710)  
negative outside wall



- 1213 #31 (712)  
 14 negative - HERC 2  
 1222 #32 (713)  
 negative HERC 2 brown doors  
 1223 #33 (715)  
 negative HERC 2 blue doors  
 1224 #34 (716)  
 negative stairwell wall  
 1226 #35 (717) LOWER LEVEL  
 negative boiler room floor  
 1227 #36 (718)  
 negative boiler rm blue floor  
 1230 #37 (719)  
 negative locker trim in auth. pers. rm  
 1230 #38 (720)  
 negative blue wall auth. pers. rm  
 1231 #39 (721)  
 negative door jam - auth pers. rm  
 UPPER LEVEL  
 1233 #40 (723)  
 negative door jam / window sills  
 1233 #41 (724)  
 negative cinder block wall hall  
 1234 #42 (727)  
 negative door jam

- 1236 #43 (729)  
 negative door jam  
 1237 #44 (730)  
~~Positive~~  
 negative outside window  
 1239 checked XRF calibration  
 1.3  
 Herc 1-006 black mastic Room 105<sup>sw</sup>  
 -007 black caulk base } 107  
 -008 white tile w/mastic }  
 -009 white window caulk }  
 -010 carpet > concrete Room 109<sup>sw</sup>  
 -011 carpet underneath } 107  
 -012 tile w/mastic }  
 -013 black mastic }  
 -014 white window caulk }  
 -015 black caulk base Room 106<sup>sw</sup>  
 \* Same caulk base / black mastic / ceiling  
 tiles / carpet / window caulk room 106  
 -016 wbs } 2 Hall w/ 6  
 -017 caulk base gray } rooms  
 -018 jc } Room 105  
 -019 caulk base / mastic } Room 120  
 -020 jc }  
 -021 tile w/mastic Room 105  
 \* All rooms have same tile ceiling / carpet  
 caulk base / caulk / sheet rock walls



- 022 floor tile over concrete Room 124
  - 023 Pipe insulation floor tile and (wall)
  - 024 ~~pipes~~ Pipe insulation } Room 111
  - 025 ceiling wbs
  - 026 Ceiling tile
  - 027 Pipe insulation
  - 028 Ladies bathroom tile } Room 117/119
  - 029 coverbase
  - 030 Tile mastic } Room 118
  - 031 JC } plywood (dunlop)
  - 032 coverbase JC
  - 033 coverbase } Room next to 118
  - 034 carpet } Room 114 (Book room)
  - 035 Tile mastic } Office similar carpet etc.
  - 036 wbs } Room 120 Storage
  - 037 Insulation } Fan room
  - 038 JC } Screwed in sheet rock on Plywood
  - 039 CA Hall } Hall 1st floor
  - 040 coverbase
  - 041 tile ceiling
- Grand floor HERC I Building
- \* All fiberglass insulation
  - 042 foam cement coating } storage room
  - 043 coverbase
  - 044 carpet kids room
  - 045 carpet hall
  - \* Plywood / cement walls

- \* coverbase matches floor 1
- 046 coverbase } Hall
- 047 ceiling tile
- 048 brown pick
- 049 brown pick
- 050 ceiling tile } Zumba class
- 051 carpet } (Shops 14)
- 052 Tile entry } women's
- 053 Tile throughout } locker
- 054 Tile shower entry
- 055 tile shower
- 056 Tile bathroom
- 057 door adhesive equipment } men's
- 058 Insulation } locker
- 059 Tile w/adhesive } kitchen
- 060 wall tile
- 061 wall tile brick
- \* Gym floor maceosible concrete
- section PACH - assumed mastic
- 062 foam caulk } boiler room
- 063 fiberglass insulation boiler
- 064 coating boiler
- 065 coating boiler
- 066 boiler door
- 067 boiler entry
- 0800 Finish HERC I building / record
- Sample locations on map *Rite in the Rain*



HERC 2 - 006 tile closet mastic

-007 Covebase hall

-008 carpet hall

-009 carpet } classroom 2

-010 - tile mastic

-011 tile with mastic on top } Shop room

-012 tile mastic

\* has chalkboard similar to HERC 1

-013 covebase { Janitor closet

-014 tile

-015 insulation fiberglass

-016 caulk / fiber proofing

-016 ceiling tile - Hall

-017 tile men's room

-018 tile closet mastic

-020 texture cement

-021 foam caulk

-022 boiler coating

-022 boiler coating

-023 boiler door

Floor 1 HERC 2

-024 ceiling tile

-025 ceiling tile

-026 brown putty

-027 covebase

-028 carpet

-029 tile - women's room

class room

-030 window adhesive front

-031 window adhesive side

HERC 2 all cement block with plywood / cement interior

HERC 1 all metal / wood / cement exterior

2/14/2020 Airport change order

001 - Shingle / paper

002 - Shingle / paper

2/25/2020 Two samples taken by  
Carey Meyer of gym roof area

• Fiberglass (non-acm)

• Roofing deck sent to ATC Lab

2/27/2020 - 5 day TAT (No ACM)

HERC 1 - 16,500 SF

HERC 2 - 7,400 SF <sup>3,712</sup> grawl (58x64)

BOW *Put in the Rain*

Appendix C  
Asbestos Laboratory Results  
IATL Report # 609842  
ATC Report # 665941



### CERTIFICATE OF ANALYSIS


Client: Environmental Management Inc.  
206 E. Fireweed Lane Suite 201  
Anchorage AK 99503  
  
Client: ENV164

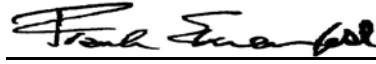
Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972418 <b>Client No.:</b> HERC 1-001 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Black Tar Paper / Tar <b>Client Description:</b> Roof Core 1 <u>Percent Non-Asbestos Fibrous Material:</u> 40 Cellulose	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 60
<b>Lab No.:</b> 6972418(L2) <b>Client No.:</b> HERC 1-001 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Black Tar Paper / Tar <b>Client Description:</b> Roof Core 1 <u>Percent Non-Asbestos Fibrous Material:</u> 55 Cellulose	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 45
<b>Lab No.:</b> 6972418(L3) <b>Client No.:</b> HERC 1-001 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Black Roof Material <b>Client Description:</b> Roof Core 1 <u>Percent Non-Asbestos Fibrous Material:</u> 80 Fibrous Glass	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 6972418(L4) <b>Client No.:</b> HERC 1-001 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Roof Core 1 <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972418(L5) <b>Client No.:</b> HERC 1-001 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Black Tar Paper / Tar <b>Client Description:</b> Roof Core 1 <u>Percent Non-Asbestos Fibrous Material:</u> 45 Cellulose	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 55
<b>Lab No.:</b> 6972418(L6) <b>Client No.:</b> HERC 1-001 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Lt Brown Roof Material <b>Client Description:</b> Roof Core 1 <u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 10

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Date Received: 2/18/2020  
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Signature:   
Analyst: Christopher Riffe

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

### CERTIFICATE OF ANALYSIS

Client: Environmental Management Inc.  
206 E. Fireweed Lane Suite 201  
Anchorage AK 99503


Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

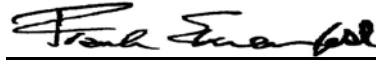
Client: ENV164

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972419 <b>Client No.:</b> HERC 1-002	<b>Analyst Observation:</b> Black Shingle <b>Client Description:</b> Roof Core 2	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Synthetic	<u>Percent Non-Fibrous Material:</u> 90
<b>Lab No.:</b> 6972419(L2) <b>Client No.:</b> HERC 1-002	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Roof Core 2	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972419(L3) <b>Client No.:</b> HERC 1-002	<b>Analyst Observation:</b> Black Tar Paper / Tar <b>Client Description:</b> Roof Core 2	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Cellulose	<u>Percent Non-Fibrous Material:</u> 60
<b>Lab No.:</b> 6972419(L4) <b>Client No.:</b> HERC 1-002	<b>Analyst Observation:</b> Black Tar Paper / Tar <b>Client Description:</b> Roof Core 2	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 50 Cellulose	<u>Percent Non-Fibrous Material:</u> 50
<b>Lab No.:</b> 6972419(L5) <b>Client No.:</b> HERC 1-002	<b>Analyst Observation:</b> Black Roof Material <b>Client Description:</b> Roof Core 2	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 70 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 30
<b>Lab No.:</b> 6972419(L6) <b>Client No.:</b> HERC 1-002	<b>Analyst Observation:</b> Black/Tan Tar Paper / Tar <b>Client Description:</b> Roof Core 2	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 60 Cellulose	<u>Percent Non-Fibrous Material:</u> 40

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Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

### CERTIFICATE OF ANALYSIS

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206 E. Fireweed Lane Suite 201  
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Report Date: 2/24/2020  
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Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972420	<b>Analyst Observation:</b> Black Tar	<b>Location:</b>
<b>Client No.:</b> HERC 1-003	<b>Client Description:</b> Penetrative Caulk 1	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	5 Cellulose 5 Fibrous Glass	90

<b>Lab No.:</b> 6972421	<b>Analyst Observation:</b> Black Tar	<b>Location:</b>
<b>Client No.:</b> HERC 1-004	<b>Client Description:</b> Penetrative Caulk 2	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	6 Cellulose 8 Fibrous Glass	86


<b>Lab No.:</b> 6972422	<b>Analyst Observation:</b> Black Tar	<b>Location:</b>
<b>Client No.:</b> HERC 1-005	<b>Client Description:</b> Penetrative Caulk 3	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	4 Cellulose 16 Fibrous Glass	80

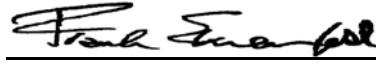
<b>Lab No.:</b> 6972423	<b>Analyst Observation:</b> Black Roof Material	<b>Location:</b>
<b>Client No.:</b> HERC 2-001	<b>Client Description:</b> Roof Core 1	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	5 Fibrous Glass	95

<b>Lab No.:</b> 6972423(L2)	<b>Analyst Observation:</b> Black Tar	<b>Location:</b>
<b>Client No.:</b> HERC 2-001	<b>Client Description:</b> Roof Core 1	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6972423(L3)	<b>Analyst Observation:</b> Yellow Foam	<b>Location:</b>
<b>Client No.:</b> HERC 2-001	<b>Client Description:</b> Roof Core 1	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

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Laboratory Director

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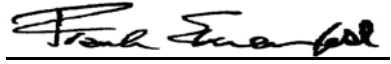
Client: ENV164

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972424 <b>Client No.:</b> HERC 2-002	<b>Analyst Observation:</b> Black Roof Material <b>Client Description:</b> Roof Core 2	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 3 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 97
<b>Lab No.:</b> 6972424(L2) <b>Client No.:</b> HERC 2-002	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Roof Core 2	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972424(L3) <b>Client No.:</b> HERC 2-002	<b>Analyst Observation:</b> Yellow Foam <b>Client Description:</b> Roof Core 2	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972425 <b>Client No.:</b> HERC 2-003	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Penetrative Caulk 1	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972426 <b>Client No.:</b> HERC 2-004	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Penetrative Caulk 2	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972427 <b>Client No.:</b> HERC 2-005	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Penetrative Caulk 3	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<u>Percent Non-Fibrous Material:</u> 90

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Signature:   
Analyst: Christopher Riffe

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

### CERTIFICATE OF ANALYSIS


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206 E. Fireweed Lane Suite 201  
Anchorage AK 99503  
  
Client: ENV164

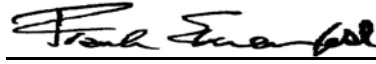
Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972428 <b>Client No.:</b> HERC 1-006 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Chalkboard Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972429 <b>Client No.:</b> HERC 1-007 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Black Cove Base <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972429(L2) <b>Client No.:</b> HERC 1-007 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972430 <b>Client No.:</b> HERC 1-008 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Lt Tan Floor Tile <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972430(L2) <b>Client No.:</b> HERC 1-008 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972430(L3) <b>Client No.:</b> HERC 1-008 <u>Percent Asbestos:</u> <i>PC 2.6 Chrysotile</i>	<b>Analyst Observation:</b> Black Mastic <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 97.4

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Analyst: Christopher Riffe

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS

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206 E. Fireweed Lane Suite 201  
Anchorage AK 99503


Report Date: 2/24/2020  
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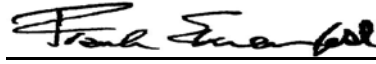
Client: ENV164

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972431 <b>Client No.:</b> HERC 1-009	<b>Analyst Observation:</b> Off-White Caulk <b>Client Description:</b> Window Caulk	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972432 <b>Client No.:</b> HERC 1-010	<b>Analyst Observation:</b> Brown Carpet <b>Client Description:</b> Carpet Adhesive	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 90 Synthetic	<u>Percent Non-Fibrous Material:</u> 10
<b>Lab No.:</b> 6972432(L2) <b>Client No.:</b> HERC 1-010	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Carpet Adhesive	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972433 <b>Client No.:</b> HERC 1-011	<b>Analyst Observation:</b> Red Carpet <b>Client Description:</b> Carpet Adhesive	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 90 Synthetic	<u>Percent Non-Fibrous Material:</u> 10
<b>Lab No.:</b> 6972433(L2) <b>Client No.:</b> HERC 1-011	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Carpet Adhesive	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972434 <b>Client No.:</b> HERC 1-012	<b>Analyst Observation:</b> White Vinyl Sheet Flooring <b>Client Description:</b> Floor Tile/Mastic	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 95

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Laboratory Director

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PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972434(L2)	<b>Analyst Observation:</b> Black Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 1-012	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 2.9 Chrysotile</i>	None Detected	97.1

<b>Lab No.:</b> 6972435	<b>Analyst Observation:</b> Black Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 1-013	<b>Client Description:</b> Chalkboard Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


<b>Lab No.:</b> 6972436	<b>Analyst Observation:</b> Lt Tan Glazing	<b>Location:</b>
<b>Client No.:</b> HERC 1-014	<b>Client Description:</b> Window Caulk	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

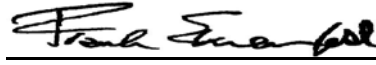
<b>Lab No.:</b> 6972437	<b>Analyst Observation:</b> Black Cove Base	<b>Location:</b>
<b>Client No.:</b> HERC 1-015	<b>Client Description:</b> Cove Base	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6972437(L2)	<b>Analyst Observation:</b> Tan Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 1-015	<b>Client Description:</b> Cove Base	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6972438	<b>Analyst Observation:</b> White/Tan Drywall	<b>Location:</b>
<b>Client No.:</b> HERC 1-016	<b>Client Description:</b> Wallboard System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	10 Cellulose 2 Fibrous Glass	88

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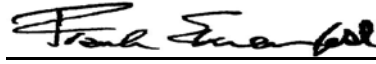
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### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972438(L2) <b>Client No.:</b> HERC 1-016 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> Wallboard System <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972438(L3) <b>Client No.:</b> HERC 1-016 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Cream Tape <b>Client Description:</b> Wallboard System <u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 10
<b>Lab No.:</b> 6972438(L4) <b>Client No.:</b> HERC 1-016 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> Wallboard System <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972438(L5) <b>Client No.:</b> HERC 1-016 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Composite <b>Client Description:</b> Wallboard System <u>Percent Non-Asbestos Fibrous Material:</u> 18 Cellulose Trace Fibrous Glass	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 82
<b>Lab No.:</b> 6972439 <b>Client No.:</b> HERC 1-017 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Cove Base <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972440 <b>Client No.:</b> HERC 1-018 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White/Tan Drywall <b>Client Description:</b> Joint Compound/Tape <u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose 1 Fibrous Glass	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 89

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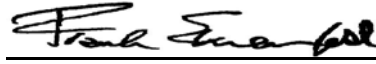
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Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972441 <b>Client No.:</b> HERC 1-019	<b>Analyst Observation:</b> Grey Cove Base <b>Client Description:</b> Cove Base	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972441(L2) <b>Client No.:</b> HERC 1-019	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Cove Base	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972441(L3) <b>Client No.:</b> HERC 1-019	<b>Analyst Observation:</b> Dk Brown Mastic <b>Client Description:</b> Cove Base	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972442 <b>Client No.:</b> HERC 1-020	<b>Analyst Observation:</b> White/Tan Drywall <b>Client Description:</b> Joint Compound/Tape	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose 2 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 88
<b>Lab No.:</b> 6972443 <b>Client No.:</b> HERC 1-021	<b>Analyst Observation:</b> Yellow Vinyl Sheet Flooring <b>Client Description:</b> Floor Tile/Mastic	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose 5 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 85
<b>Lab No.:</b> 6972443(L2) <b>Client No.:</b> HERC 1-021	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Floor Tile/Mastic	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Date Received: 2/18/2020  
Date Analyzed: 02/24/2020  
Signature:   
Analyst: Christopher Riffe

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS


Client: Environmental Management Inc.  
206 E. Fireweed Lane Suite 201  
Anchorage AK 99503  
  
Client: ENV164

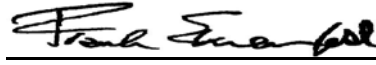
Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972444 <b>Client No.:</b> HERC 1-022	<b>Analyst Observation:</b> Yellow Vinyl Sheet Flooring <b>Client Description:</b> Floor Tile/Mastic	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose 5 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 85
<b>Lab No.:</b> 6972444(L2) <b>Client No.:</b> HERC 1-022	<b>Analyst Observation:</b> Grey Leveling Compound <b>Client Description:</b> Floor Tile/Mastic	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972445 <b>Client No.:</b> HERC 1-023	<b>Analyst Observation:</b> Yellow Floor Tile <b>Client Description:</b> Floor Tile/Mastic	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose 5 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 85
<b>Lab No.:</b> 6972445(L2) <b>Client No.:</b> HERC 1-023	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Floor Tile/Mastic	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972445(L3) <b>Client No.:</b> HERC 1-023	<b>Analyst Observation:</b> Grey Leveling Compound <b>Client Description:</b> Floor Tile/Mastic	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972446 <b>Client No.:</b> HERC 1-024	<b>Analyst Observation:</b> Off-White Wrap <b>Client Description:</b> Pipe Insulation Elbow	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <b>80 Chrysotile</b>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 20

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Laboratory Director



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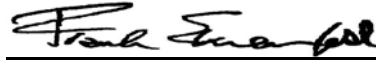
Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972446(L2) <b>Client No.:</b> HERC 1-024 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan Wrap <b>Client Description:</b> Pipe Insulation Elbow <u>Percent Non-Asbestos Fibrous Material:</u> 80 Cellulose	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 6972446(L3) <b>Client No.:</b> HERC 1-024 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Off-White Woven <b>Client Description:</b> Pipe Insulation Elbow <u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 10
<b>Lab No.:</b> 6972447 <b>Client No.:</b> HERC 1-025 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White/Tan Drywall <b>Client Description:</b> Wallboard System <u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose 2 Fibrous Glass	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 88
<b>Lab No.:</b> 6972448 <b>Client No.:</b> HERC 1-026 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan/White Ceiling Tile <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> 50 Cellulose 30 Mineral Wool	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 6972449 <b>Client No.:</b> HERC 1-027 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Off-White Insulation <b>Client Description:</b> Pipe Insulation <u>Percent Non-Asbestos Fibrous Material:</u> 20 Mineral Wool	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 80
<b>Lab No.:</b> 6972449(L2) <b>Client No.:</b> HERC 1-027 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Off-White Woven <b>Client Description:</b> Pipe Insulation <u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 10

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Laboratory Director

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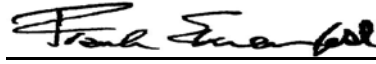
Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972450 <b>Client No.:</b> HERC 1-028 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Floor Tile <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972450(L2) <b>Client No.:</b> HERC 1-028 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan Grout <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972450(L3) <b>Client No.:</b> HERC 1-028 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972450(L4) <b>Client No.:</b> HERC 1-028 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Black Mastic <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972451 <b>Client No.:</b> HERC 1-029 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Brown Cove Base <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972451(L2) <b>Client No.:</b> HERC 1-029 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100

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Signature:   
Analyst: Christopher Riffe

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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Client: ENV164

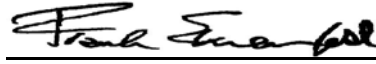
Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972452 <b>Client No.:</b> HERC 1-030 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Floor Tile <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972452(L2) <b>Client No.:</b> HERC 1-030 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972452(L3) <b>Client No.:</b> HERC 1-030 <u>Percent Asbestos:</u> <b>PC 3.8 Chrysotile</b>	<b>Analyst Observation:</b> Black Mastic <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 96.2
<b>Lab No.:</b> 6972453 <b>Client No.:</b> HERC 1-031 <u>Percent Asbestos:</u> <b>PC 1.9 Chrysotile</b>	<b>Analyst Observation:</b> Off-White Joint Compound <b>Client Description:</b> Joint Compound/Tape <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 98.1
<b>Lab No.:</b> 6972453(L2) <b>Client No.:</b> HERC 1-031 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Cream Tape <b>Client Description:</b> Joint Compound/Tape <u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 10
<b>Lab No.:</b> 6972453(L3) <b>Client No.:</b> HERC 1-031 <u>Percent Asbestos:</u> <b>PC 3.4 Chrysotile</b>	<b>Analyst Observation:</b> Off-White Joint Compound <b>Client Description:</b> Joint Compound/Tape <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 96.6

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Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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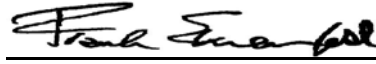
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Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972454 <b>Client No.:</b> HERC 1-032 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Black Cove Base <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972454(L2) <b>Client No.:</b> HERC 1-032 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Dk Brown Mastic <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972454(L3) <b>Client No.:</b> HERC 1-032 <u>Percent Asbestos:</u> <b>PC 2.1 Chrysotile</b>	<b>Analyst Observation:</b> Off-White Joint Compound <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 97.9
<b>Lab No.:</b> 6972455 <b>Client No.:</b> HERC 1-033 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Cove Base <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972455(L2) <b>Client No.:</b> HERC 1-033 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Beige Mastic <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972456 <b>Client No.:</b> HERC 1-034 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Red/Brown Carpet <b>Client Description:</b> Carpet Adhesive <u>Percent Non-Asbestos Fibrous Material:</u> 90 Synthetic	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 10

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PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972456(L2)	<b>Analyst Observation:</b> Tan Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 1-034	<b>Client Description:</b> Carpet Adhesive	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6972457	<b>Analyst Observation:</b> Tan Ceramic	<b>Location:</b>
<b>Client No.:</b> HERC 1-035	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


<b>Lab No.:</b> 6972457(L2)	<b>Analyst Observation:</b> Tan Grout	<b>Location:</b>
<b>Client No.:</b> HERC 1-035	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

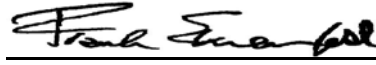
<b>Lab No.:</b> 6972457(L3)	<b>Analyst Observation:</b> Black Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 1-035	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 2.4 Chrysotile</i>	None Detected	97.6

<b>Lab No.:</b> 6972457(L4)	<b>Analyst Observation:</b> Tan Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 1-035	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6972458	<b>Analyst Observation:</b> White/Tan Drywall	<b>Location:</b>
<b>Client No.:</b> HERC 1-036	<b>Client Description:</b> Wallboard System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	10 Cellulose 3 Fibrous Glass	87

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### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972458(L2)	<b>Analyst Observation:</b> Yellow Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 1-036	<b>Client Description:</b> Wallboard System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6972459	<b>Analyst Observation:</b> Cream Woven	<b>Location:</b>
<b>Client No.:</b> HERC 1-037	<b>Client Description:</b> Pipe Insulation Elbow	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	90 Cellulose	10


<b>Lab No.:</b> 6972459(L2)	<b>Analyst Observation:</b> Off-White Insulation	<b>Location:</b>
<b>Client No.:</b> HERC 1-037	<b>Client Description:</b> Pipe Insulation Elbow	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>50 Chrysotile</b>	None Detected	50

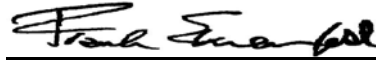
<b>Lab No.:</b> 6972460	<b>Analyst Observation:</b> Tan Joint Compound	<b>Location:</b>
<b>Client No.:</b> HERC 1-038	<b>Client Description:</b> Joint Compound/Tape	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>PC 2.7 Chrysotile</b>	None Detected	97.3

<b>Lab No.:</b> 6972460(L2)	<b>Analyst Observation:</b> Cream Tape	<b>Location:</b>
<b>Client No.:</b> HERC 1-038	<b>Client Description:</b> Joint Compound/Tape	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	90 Cellulose	10

<b>Lab No.:</b> 6972460(L3)	<b>Analyst Observation:</b> Lt Tan Joint Compound	<b>Location:</b>
<b>Client No.:</b> HERC 1-038	<b>Client Description:</b> Joint Compound/Tape	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>PC 1.5 Chrysotile</b>	None Detected	98.5

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Date Received: 2/18/2020  
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Signature:   
Analyst: Christopher Riffe

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

### CERTIFICATE OF ANALYSIS

Client: Environmental Management Inc.  
206 E. Fireweed Lane Suite 201  
Anchorage AK 99503


Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

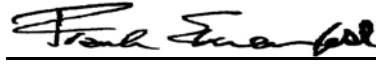
Client: ENV164

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972461 <b>Client No.:</b> HERC 1-039 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Red/Off-White Carpet <b>Client Description:</b> Carpet Adhesive <u>Percent Non-Asbestos Fibrous Material:</u> 90 Synthetic	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 10
<b>Lab No.:</b> 6972461(L2) <b>Client No.:</b> HERC 1-039 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Carpet Adhesive <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972462 <b>Client No.:</b> HERC 1-040 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Cove Base <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972462(L2) <b>Client No.:</b> HERC 1-040 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972462(L3) <b>Client No.:</b> HERC 1-040 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Beige Mastic <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972463 <b>Client No.:</b> HERC 1-041 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan/White Ceiling Tile <b>Client Description:</b> Ceiling Tile <u>Percent Non-Asbestos Fibrous Material:</u> 60 Mineral Wool 20 Cellulose	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 20

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Analyst: Christopher Riffe

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS


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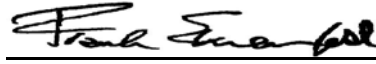
Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972464 <b>Client No.:</b> HERC 1-042 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Brown/White Coating <b>Client Description:</b> Cement Coating <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972465 <b>Client No.:</b> HERC 1-043 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Black Cove Base <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972466 <b>Client No.:</b> HERC 1-044 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Brown/Green Carpet <b>Client Description:</b> Carpet Adhesive <u>Percent Non-Asbestos Fibrous Material:</u> 90 Synthetic	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 10
<b>Lab No.:</b> 6972466(L2) <b>Client No.:</b> HERC 1-044 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Carpet Adhesive <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972467 <b>Client No.:</b> HERC 1-045 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Green/Red Carpet <b>Client Description:</b> Carpet Adhesive <u>Percent Non-Asbestos Fibrous Material:</u> 90 Synthetic	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 10
<b>Lab No.:</b> 6972467(L2) <b>Client No.:</b> HERC 1-045 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Carpet Adhesive <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100

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Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



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Client: ENV164

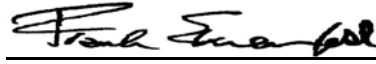
Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972468 <b>Client No.:</b> HERC 1-046 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Black Cove Base <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972468(L2) <b>Client No.:</b> HERC 1-046 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Dk Brown Mastic <b>Client Description:</b> Cove Base <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972469 <b>Client No.:</b> HERC 1-047 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan/White Ceiling Tile <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> 40 Cellulose 40 Mineral Wool	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 6972470 <b>Client No.:</b> HERC 1-048 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Dk Brown Mastic <b>Client Description:</b> Brown Adhesive <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972471 <b>Client No.:</b> HERC 1-049 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Dk Brown Mastic <b>Client Description:</b> Brown Adhesive <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972472 <b>Client No.:</b> HERC 1-050 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan/White Ceiling Tile <b>Client Description:</b> Ceiling Tile <u>Percent Non-Asbestos Fibrous Material:</u> 40 Cellulose 40 Fibrous Glass	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 20

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Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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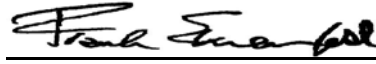
Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972473 <b>Client No.:</b> HERC 1-051 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Brown Carpet <b>Client Description:</b> Carpet Adhesive <u>Percent Non-Asbestos Fibrous Material:</u> 90 Synthetic	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 10
<b>Lab No.:</b> 6972473(L2) <b>Client No.:</b> HERC 1-051 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Beige Mastic <b>Client Description:</b> Carpet Adhesive <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972474 <b>Client No.:</b> HERC 1-052 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan Vinyl Sheet Flooring <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose 5 Fibrous Glass	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 85
<b>Lab No.:</b> 6972474(L2) <b>Client No.:</b> HERC 1-052 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100

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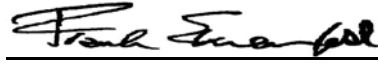
Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972475 <b>Client No.:</b> HERC 1-053 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White/Tan Ceramic <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972475(L2) <b>Client No.:</b> HERC 1-053 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Grout <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972475(L3) <b>Client No.:</b> HERC 1-053 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White Mastic/Woven Material <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> 30 Cellulose	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 70
<b>Lab No.:</b> 6972476 <b>Client No.:</b> HERC 1-054 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White/Yellow Ceramic <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972476(L2) <b>Client No.:</b> HERC 1-054 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Yellow Mastic <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972476(L3) <b>Client No.:</b> HERC 1-054 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White/Grey Grout <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100

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Analyst: Mark Stewart

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS


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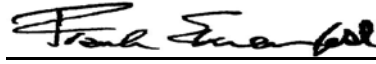
Report Date: 2/24/2020  
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Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972477 <b>Client No.:</b> HERC 1-055 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Yellow Ceramic <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972477(L2) <b>Client No.:</b> HERC 1-055 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White/Grey Grout <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972478 <b>Client No.:</b> HERC 1-056 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan Ceramic <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972478(L2) <b>Client No.:</b> HERC 1-056 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White Grout <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972478(L3) <b>Client No.:</b> HERC 1-056 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Mortar <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972479 <b>Client No.:</b> HERC 1-057 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White Caulk <b>Client Description:</b> Door Adhesive <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100

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Laboratory Director



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Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972480	<b>Analyst Observation:</b> White Insulation	<b>Location:</b>
<b>Client No.:</b> HERC 1-058	<b>Client Description:</b> Pipe Insulation Elbow	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>30 Amosite</b>	40 Cellulose	20
<b>10 Crocidolite</b>		

<b>Lab No.:</b> 6972481	<b>Analyst Observation:</b> Grey Vinyl Sheet Flooring	<b>Location:</b>
<b>Client No.:</b> HERC 1-059	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>None Detected</b>	25 Cellulose 25 Synthetic	50

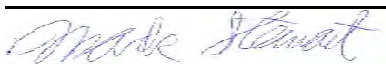
<b>Lab No.:</b> 6972481(L2)	<b>Analyst Observation:</b> Yellow Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 1-059	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>None Detected</b>	None Detected	100

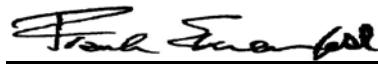
<b>Lab No.:</b> 6972481(L3)	<b>Analyst Observation:</b> Off-White Floor Tile	<b>Location:</b>
<b>Client No.:</b> HERC 1-059	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>None Detected</b>	None Detected	100

<b>Lab No.:</b> 6972481(L4)	<b>Analyst Observation:</b> Black Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 1-059	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>None Detected</b>	5 Cellulose	95

<b>Lab No.:</b> 6972482	<b>Analyst Observation:</b> White/Brown Wall Cover	<b>Location:</b>
<b>Client No.:</b> HERC 1-060	<b>Client Description:</b> Wall Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>None Detected</b>	95 Cellulose	5

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### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972482(L2)	<b>Analyst Observation:</b> Yellow Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 1-061	<b>Client Description:</b> Wall Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6972483	<b>Analyst Observation:</b> Red Ceramic	<b>Location:</b>
<b>Client No.:</b> HERC 1-061	<b>Client Description:</b> Wall Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

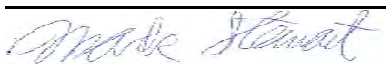
<b>Lab No.:</b> 6972483(L2)	<b>Analyst Observation:</b> Grey Grout	<b>Location:</b>
<b>Client No.:</b> HERC 1-061	<b>Client Description:</b> Wall Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

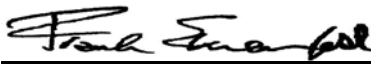
<b>Lab No.:</b> 6972483(L3)	<b>Analyst Observation:</b> White Caulk	<b>Location:</b>
<b>Client No.:</b> HERC 1-061	<b>Client Description:</b> Wall Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6972484	<b>Analyst Observation:</b> Yellow Foam	<b>Location:</b>
<b>Client No.:</b> HERC 1-062	<b>Client Description:</b> Caulk	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6972485	<b>Analyst Observation:</b> Yellow Insulation	<b>Location:</b>
<b>Client No.:</b> HERC 1-063	<b>Client Description:</b> Boiler Insulation	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	99 Fibrous Glass	1

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Date Received: 2/18/2020  
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Signature:   
Analyst: Mark Stewart

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

### CERTIFICATE OF ANALYSIS

Client: Environmental Management Inc.  
206 E. Fireweed Lane Suite 201  
Anchorage AK 99503  
  
Client: ENV164

Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972486	<b>Analyst Observation:</b> White Insulation	<b>Location:</b>
<b>Client No.:</b> HERC 1-064	<b>Client Description:</b> Boiler Coating	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>20 Chrysotile</b>	5 Fibrous Glass	35
<b>30 Amosite</b>		
<b>10 Crocidolite</b>		


<b>Lab No.:</b> 6972487	<b>Analyst Observation:</b> White Insulation	<b>Location:</b>
<b>Client No.:</b> HERC 1-065	<b>Client Description:</b> Boiler Coating	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>20 Chrysotile</b>	5 Fibrous Glass	35
<b>30 Amosite</b>		
<b>10 Crocidolite</b>		

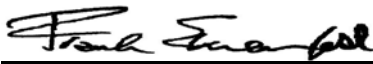
<b>Lab No.:</b> 6972488	<b>Analyst Observation:</b> White Insulation	<b>Location:</b>
<b>Client No.:</b> HERC 1-066	<b>Client Description:</b> Boiler Door Insulation	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>None Detected</b>	99 Fibrous Glass	1

<b>Lab No.:</b> 6972489	<b>Analyst Observation:</b> Yellow Insulation	<b>Location:</b>
<b>Client No.:</b> HERC 1-067	<b>Client Description:</b> Boiler Insulation	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>None Detected</b>	5 Other 1 Fibrous Glass	94

<b>Lab No.:</b> 6972490	<b>Analyst Observation:</b> Grey Floor Tile	<b>Location:</b>
<b>Client No.:</b> HERC 2-006	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>PC 2.4 Chrysotile</b>	None Detected	97.6

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Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

### CERTIFICATE OF ANALYSIS

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206 E. Fireweed Lane Suite 201  
Anchorage AK 99503  
  
Client: ENV164

Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972490(L2)	<b>Analyst Observation:</b> Black Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 2-006	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 5.6 Chrysotile</i>	None Detected	94.4

<b>Lab No.:</b> 6972491	<b>Analyst Observation:</b> Black Cove Base	<b>Location:</b>
<b>Client No.:</b> HERC 2-007	<b>Client Description:</b> Cove Base	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

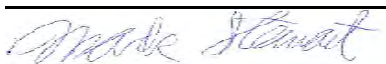
<b>Lab No.:</b> 6972491(L2)	<b>Analyst Observation:</b> Brown Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 2-007	<b>Client Description:</b> Cove Base	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	1 Fibrous Glass 1 Talc	98

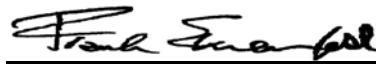
<b>Lab No.:</b> 6972492	<b>Analyst Observation:</b> Off-White Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 2-008	<b>Client Description:</b> Carpet Adhesive	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6972493	<b>Analyst Observation:</b> Yellow Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 2-009	<b>Client Description:</b> Carpet Adhesive	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6972494	<b>Analyst Observation:</b> White Floor Tile	<b>Location:</b>
<b>Client No.:</b> HERC 2-010	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

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Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972494(L2)	<b>Analyst Observation:</b> Black Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 2-010	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>PC 5.2 Chrysotile</b>	Trace Cellulose	94.8

<b>Lab No.:</b> 6972495	<b>Analyst Observation:</b> White Floor Tile	<b>Location:</b>
<b>Client No.:</b> HERC 2-011	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>None Detected</b>	None Detected	100

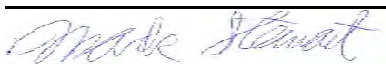
<b>Lab No.:</b> 6972495(L2)	<b>Analyst Observation:</b> Yellow Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 2-011	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>None Detected</b>	2 Synthetic	98

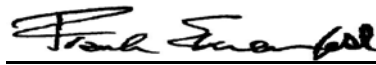
<b>Lab No.:</b> 6972495(L3)	<b>Analyst Observation:</b> Black Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 2-011	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>PC 5.4 Chrysotile</b>	1 Cellulose	93.6

<b>Lab No.:</b> 6972496	<b>Analyst Observation:</b> White Floor Tile	<b>Location:</b>
<b>Client No.:</b> HERC 2-012	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>None Detected</b>	None Detected	100

<b>Lab No.:</b> 6972496(L2)	<b>Analyst Observation:</b> Black Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 2-012	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<b>PC 4.8 Chrysotile</b>	1 Cellulose	94.2

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Laboratory Director

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CERTIFICATE OF ANALYSIS

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Report Date: 2/24/2020  
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Project No.: 18087

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PLM BULK SAMPLE ANALYSIS SUMMARY

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Lab No.: 6972497  
Client No.: HERC 2-013

Percent Asbestos:  
*None Detected*

Analyst Observation: Black Cove Base  
Client Description: Cove Base

Percent Non-Asbestos Fibrous Material:  
None Detected

Location:  
Facility:  
Percent Non-Fibrous Material:  
100

Lab No.: 6972497(L2)  
Client No.: HERC 2-013

Percent Asbestos:  
*None Detected*

Analyst Observation: Brown Mastic  
Client Description: Cove Base


Percent Non-Asbestos Fibrous Material:  
None Detected

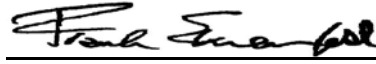
Location:  
Facility:  
Percent Non-Fibrous Material:  
100

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Client: ENV164

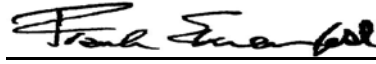
Report Date: 2/24/2020  
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Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972498 <b>Client No.:</b> HERC 2-014 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan Vinyl Sheet Flooring <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> 10 Fibrous Glass	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 90
<b>Lab No.:</b> 6972498(L2) <b>Client No.:</b> HERC 2-014 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Black/Tan Mastic <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972499 <b>Client No.:</b> HERC 2-015 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White Fibrous <b>Client Description:</b> Caulk <u>Percent Non-Asbestos Fibrous Material:</u> 80 Synthetic	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 6972500 <b>Client No.:</b> HERC 2-016 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Tan/White Ceiling Tile <b>Client Description:</b> Ceiling Tile <u>Percent Non-Asbestos Fibrous Material:</u> 50 Cellulose 30 Mineral Wool	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 6972501 <b>Client No.:</b> HERC 2-017 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Ceramic <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972501(L2) <b>Client No.:</b> HERC 2-017 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Lt Red Grout <b>Client Description:</b> Floor Tile/Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100

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Signature:   
Analyst: Christopher Riffe

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

### CERTIFICATE OF ANALYSIS

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Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972501(L3)	<b>Analyst Observation:</b> Tan Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 2-017	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6972502	<b>Analyst Observation:</b> Grey/Yellow Floor Tile	<b>Location:</b>
<b>Client No.:</b> HERC 2-018	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 4.8 Chrysotile</i>	None Detected	95.2


<b>Lab No.:</b> 6972502(L2)	<b>Analyst Observation:</b> Black Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 2-018	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 4.1 Chrysotile</i>	None Detected	95.9

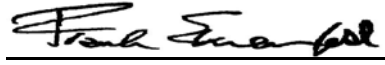
<b>Lab No.:</b> 6972503	<b>Analyst Observation:</b> Grey Texture	<b>Location:</b>
<b>Client No.:</b> HERC 2-019	<b>Client Description:</b> Cement Texture	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6972504	<b>Analyst Observation:</b> Yellow/Off-White Foam	<b>Location:</b>
<b>Client No.:</b> HERC 2-020	<b>Client Description:</b> Caulk	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6972505	<b>Analyst Observation:</b> White Insulation	<b>Location:</b>
<b>Client No.:</b> HERC 2-021	<b>Client Description:</b> Boiler Coating	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>15 Chrysotile</i>	None Detected	75
<i>10 Amosite</i>		

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Analyst: Christopher Riffe

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



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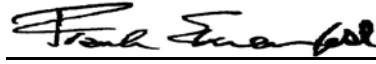
Report Date: 2/24/2020  
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Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972506 <b>Client No.:</b> HERC 2-022 <u>Percent Asbestos:</u> <b>15 Chrysotile</b> <b>10 Amosite</b>	<b>Analyst Observation:</b> White Insulation <b>Client Description:</b> Boiler Coating <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 75
<b>Lab No.:</b> 6972507 <b>Client No.:</b> HERC 2-023 <u>Percent Asbestos:</u> <b>None Detected</b>	<b>Analyst Observation:</b> White/Grey Insulation <b>Client Description:</b> Boiler Coating <u>Percent Non-Asbestos Fibrous Material:</u> 70 Fibrous Glass 30 Mineral Wool	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> None Detected
<b>Lab No.:</b> 6972507(L2) <b>Client No.:</b> HERC 2-023 <u>Percent Asbestos:</u> <b>None Detected</b>	<b>Analyst Observation:</b> Clear/Tan Mastic <b>Client Description:</b> Boiler Coating <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972508 <b>Client No.:</b> HERC 2-024 <u>Percent Asbestos:</u> <b>None Detected</b>	<b>Analyst Observation:</b> Tan/White Ceiling Tile <b>Client Description:</b> Ceiling Tile <u>Percent Non-Asbestos Fibrous Material:</u> 50 Cellulose 30 Mineral Wool	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 6972509 <b>Client No.:</b> HERC 2-025 <u>Percent Asbestos:</u> <b>None Detected</b>	<b>Analyst Observation:</b> Lt Tan Ceiling Tile <b>Client Description:</b> Ceiling Tile <u>Percent Non-Asbestos Fibrous Material:</u> 80 Mineral Wool	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 6972510 <b>Client No.:</b> HERC 2-026 <u>Percent Asbestos:</u> <b>None Detected</b>	<b>Analyst Observation:</b> Dk Brown Mastic <b>Client Description:</b> Brown Adhesive <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100

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Analyst: Christopher Riffe

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972510(L2)	<b>Analyst Observation:</b> Dk Tan Ceiling Tile	<b>Location:</b>
<b>Client No.:</b> HERC 2-026	<b>Client Description:</b> Brown Adhesive	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	80 Mineral Wool	20

<b>Lab No.:</b> 6972511	<b>Analyst Observation:</b> Black Cove Base	<b>Location:</b>
<b>Client No.:</b> HERC 2-027	<b>Client Description:</b> Cove Base	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


<b>Lab No.:</b> 6972511(L2)	<b>Analyst Observation:</b> Dk Brown Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 2-027	<b>Client Description:</b> Cove Base	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

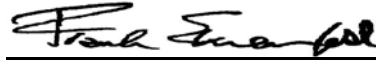
<b>Lab No.:</b> 6972512	<b>Analyst Observation:</b> Brown Carpet	<b>Location:</b>
<b>Client No.:</b> HERC 2-028	<b>Client Description:</b> Carpet Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	90 Synthetic	10

<b>Lab No.:</b> 6972512(L2)	<b>Analyst Observation:</b> Tan Mastic	<b>Location:</b>
<b>Client No.:</b> HERC 2-028	<b>Client Description:</b> Carpet Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6972513	<b>Analyst Observation:</b> Tan Ceramic	<b>Location:</b>
<b>Client No.:</b> HERC 2-029	<b>Client Description:</b> Floor Tile/Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

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

Date Received: 2/18/2020  
Date Analyzed: 02/25/2020  
Signature:   
Analyst: Christopher Riffe

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

### CERTIFICATE OF ANALYSIS


Client: Environmental Management Inc.  
206 E. Fireweed Lane Suite 201  
Anchorage AK 99503  
  
Client: ENV164

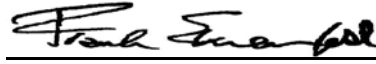
Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6972513(L2) <b>Client No.:</b> HERC 2-029	<b>Analyst Observation:</b> Tan Mastic <b>Client Description:</b> Floor Tile/Mastic	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972513(L3) <b>Client No.:</b> HERC 2-029	<b>Analyst Observation:</b> Black/Tan Mastic / Paper <b>Client Description:</b> Floor Tile/Mastic	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 70 Cellulose	<u>Percent Non-Fibrous Material:</u> 30
<b>Lab No.:</b> 6972514 <b>Client No.:</b> HERC 2-030	<b>Analyst Observation:</b> Lt Red Caulk <b>Client Description:</b> Window Adhesive	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972515 <b>Client No.:</b> HERC 2-031	<b>Analyst Observation:</b> Dk Brown Caulk <b>Client Description:</b> Window Adhesive	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6972515(L2) <b>Client No.:</b> HERC 2-031	<b>Analyst Observation:</b> Off-White Caulk <b>Client Description:</b> Window Adhesive	<b>Location:</b> <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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

Date Received: 2/18/2020  
Date Analyzed: 02/25/2020  
Signature:   
Analyst: Christopher Riffe

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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CERTIFICATE OF ANALYSIS

---

Client: Environmental Management Inc.  
206 E. Fireweed Lane Suite 201  
Anchorage AK 99503  
  
Client: ENV164

Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

## Appendix to Analytical Report

**Customer Contact:** Glenn Hasburgh

**Method:** 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, and USEPA 600, R93-116 as needed.

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:** wchampion@iatl.com

**iATL Account Representative:** Kelly Klippel

**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](http://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
- NYSDOH-ELAP 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. PC Trace represents a <0.25% amount. 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)



## CERTIFICATE OF ANALYSIS

Client: Environmental Management Inc.  
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Anchorage AK 99503

Client: ENV164

Report Date: 2/24/2020  
Report No.: 609842 - PLM  
Project: HERC Buildings 1 & 2 HBMS  
Project No.: 18087

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

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](mailto: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%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

### 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 gänge, 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).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

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](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://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.

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CERTIFICATE OF ANALYSIS

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Client: Environmental Management Inc.  
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Anchorage AK 99503

Client: ENV164

Report Date: 2/24/2020  
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Project No.: 18087

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).



383 Industrial Way Suite 300  
Anchorage, AK 99501 (907) 258-8661



Lab Code: 200124-0

## Bulk Sample Analysis for Asbestos

ATC Project #: LL09572

Client Project #: 18087

Report #: 665941

Report By: J. Jaroma

Report Date: 03/05/2020

Client: Environmental Management Inc.

206 E. Fireweed Ln. Ste.#201  
Anchorage, AK 99503-2703

Billing Number: 24609

Collected By: Client

Collection Date: 02/25/2020

Analysis By: J. Hicklin

Analysis Date: 03/05/2020

Received By: J. Jaroma

Received Date: 02/27/2020

TAT: 5 Day

Sample Count: 1 Layer Count: 1

Project Name/Location: 18087 HERC 1&2 Building HBMS

Client ID #	ATC ID#	Location:			
HERC1-068	AB20-1217	None Noted			
Homogeneous	Material	Color	Layer		
No	Tar	Black	1 of 1		
Asbestos: None Detected					
Other Fibrous Material		Fibrous %	Other Fibrous Materials: 2%		
Cellulose		2%	Non-Fibrous Materials: 98%		

Joel Hicklin, Laboratory Technical Manager

03/05/2020

Date

03/05/2020

Date

Analysis performed by: EPA Method 600/M4-82-020 or EPA Method 600/R-93/116, at the discretion of the client or ATC. All quantities reported are based on visual estimation by PLM, unless point-counting method is requested and noted for the sample. Test report relates only to items tested and must not be used by client to claim product endorsement by NVLAP or any agency of the U.S. Government. Test reports must not be reproduced without the approval of ATC, and are subject to ATC General Terms and Conditions (available upon request).



LL 9572

383 Industrial Way Suite 300 Anchorage, AK 99501 (907)258-8661

**CHAIN OF CUSTODY**Date: 2/27/2020P.O # 18087Customer Name: Environmental management, IncProject Name: 18087 HERC 1 & 2 Building HBms Project #: 18087

Billing Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_ Cell: \_\_\_\_\_

Send report via (choose one): Email: ghasburgh@emi-alaska.com or Fax: \_\_\_\_\_

\*Only for SAME DAY T.A.T\* Verbal (circle one) Y / N If yes, please provide name/contact #: \_\_\_\_\_

**\*\*By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.\*\***Samples Relinquished By (please print): Bethany Williams Date: 2/27/2020 Time: 11:54 am/pmSamples Received By (please print): J. Hicklin Date: 2-27-20 Time: 1155 am/pmSamples Analysis Type: PCM PLM TEM LEAD TCLP MOLD Other (specify)Composite: Y NTurn-around Time: SAME DAY NEXT DAY 2-DAY 3-DAY 5-DAY

Method of Payment: CASH CHECK CREDIT CARD ACCOUNT

Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task	Volume (L)	Sample Condition
<u>HERC 1-068</u>	<u>2/25/2020</u>	<u>5 day</u>	<u>PLM</u>	<u>Black tar</u>		

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. ATC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. ATC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.



# Appendix D

## Inspector Certifications



ENVIRONMENTAL  
MANAGEMENT  
INCORPORATED

## *Certificate of Training*

T - 27532 - 36143

*Certificate Number*

**This is to certify that**

**Bethany D. Williams**

*has satisfactorily completed 4 hours*

*of*

**EPA/AHERA Inspector Refresher**

*In Accordance With 40 CFR Part 763 Subpart E*

*Class Start Date: 3/12/2019*

*Class End Date: 3/12/2019*

*Glenn Hasburgh, IH*

3/12/2019

*Exam Date*

3/12/2020

*Cert. Exp. Date*

Stuart M. Jacques

*Director*

Environmental Management Inc. 206 E. Fireweed Lane Suite 201, Anchorage Alaska 99503 907-272-8852





ENVIRONMENTAL  
MANAGEMENT  
INCORPORATED

## *Certificate of Training*

T - 27532 - 16276

*Certificate Number*

**This is to certify that**

**Glenn C. Hasburgh**

*has satisfactorily completed 4 hours*

*of*

**EPA/AHERA Inspector Refresher**

*In Accordance With 40 CFR Part 763 Subpart E*

*Class Start Date: 3/12/2019*

*Class End Date: 3/12/2019*

*Glenn Hasburgh, IH*

3/12/2019

*Exam Date*

3/12/2020

*Cert. Exp. Date*

Stuart M. Jacques

*Director*

Environmental Management Inc. 206 E. Fireweed Lane Suite 201, Anchorage Alaska 99503 907-272-8852