

BGES, INC.

ENVIRONMENTAL CONSULTANTS

**16716 FIRE HOUSE LANE
EAGLE RIVER, ALASKA**

LIMITED HAZARDOUS BUILDING MATERIALS INVENTORY

MARCH 2021

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1.0 INTRODUCTION

BGES, Inc. (BGES) was retained by Shay Throop, Manager for Capital Projects for the Municipality of Anchorage to conduct a limited Hazardous Building Materials Inventory (HBMI) of the building located at 16716 Fire House Lane in Eagle River, Alaska (hereafter referred to as the “subject property”). The purpose of this assessment was to evaluate the potential presence of hazardous building materials, such as lead-based paint (LBP) and asbestos-containing building materials (ACBM), in selected representative areas/locations within the building. Photographs of the subject property, and selected sampling/testing locations at the subject property, are included in Appendix A.

This report presents the results of our findings. The presence of LBP was evaluated using an x-ray fluorescence (XRF) field screening instrument, and asbestos was evaluated by collecting samples of potential ACBM (PACBM) and submitting this material to an accredited laboratory for analysis. LBP data and asbestos laboratory results are included in Appendix B.

The limited HBMI was performed during February of 2021. The inspections were performed by Lisa Vitale and Carson Kent, both Environmental Scientists of BGES. Ms. Vitale is an Asbestos Hazard Emergency Response Act (AHERA)-Certified Building Inspector (Certificate # TBI24-221-15123). Mr. Kent is an AHERA-Certified Building Inspector (Certificate # TBI24-220-13779) and a United States (U.S.) Environmental Protection Agency (EPA) Certified Lead Risk Assessor (Certificate # LBP-R-1219617-1). Copies of BGES’ certificates are included in Appendix C.

A total of 106 XRF readings were taken from all identified different testing combinations in the inspected areas of the building on the subject property from interior and exterior portions of the structure. Testing combinations are comprised of rooms (or room equivalents), building components, and substrates. Readings taken from the yellow striping paint on the garage floor exceeded the EPA regulatory limit of 1.0 milligram (mg) of lead per square centimeter (cm²), or 1.0 mg/cm² (Figure 1).

A total of 66 bulk samples (38 samples with 28 additional layers) were collected from PACBM identified in the inspected areas/locations at the property. The samples were sent to an accredited laboratory and were analyzed using Polarized Light Microscopy (PLM), in accordance with EPA Method 600/R-93/116. According to the National Emissions Standard for Hazardous Air Pollutants (NESHAP), Asbestos-Containing Materials (ACMs) are defined as containing at least 1 percent asbestos; including but not limited to chrysotile, amosite, tremolite, actinolite, and crocidolite asbestos. Samples were collected from wall material, resilient wall surfacing, resilient flooring material, carpet mastic, caulking material, joint compound, tape, insulation material, ceiling material, and cove base molding and mastic. One of the

samples collected was originally found to be “asbestos-containing” according to the NESHAP definition. This sample was further analyzed by a 1,000-point count method to obtain more precise results, and was ultimately found to contain less than 1 percent asbestos. None of the remaining 65 samples collected in the building on the subject property were found to be “asbestos-containing” according to the NESHAP definition.

Applicable regulations regarding the abatement and disposal of ACM and LBP are described in greater detail in Section 5. XRF data and laboratory analytical data pertaining to the PACBM samples are included in Appendix B.

2.0 SITE DESCRIPTION AND SAMPLING TECHNIQUES

The subject property contains a one-story fire house that is reportedly 4,320 square feet in size. A subset of the various rooms, areas, and occupiable spaces that were deemed to likely be representative of the remainder of the building (uninspected areas), were inspected for the presence of lead-based paint and asbestos. Lead sampling was performed by utilizing a Heuresis Pb200i XRF Lead Analyzer to test for the presence of lead in selected painted surfaces. This was accomplished in general accordance with established Department of Housing and Urban Development (HUD) & EPA guidelines. Sampling of building materials for asbestos content analysis was conducted by removing a small sample of the suspected material, including all associated substrates, with a hammer and chisel. The samples were then placed into sealable plastic bags and sealed for shipment to the laboratory. Samples for laboratory analysis were clearly labeled and submitted to the laboratory under chain of custody protocol.

3.0 ACBM AND LBP SAMPLING AND ASSESSMENT

3.1 Description of Assessment

The LBP and PACBM assessments were conducted on February 4, 2021. The walkthrough assessment included a visual inspection of the building and collection of LBP data and PACBM samples. This inspection included the collection of building materials such as wall material, caulking material, joint compound, tape, insulation material, ceiling material, cove base molding and mastic, and flooring material.

3.2 PLM and XRF Analytical Techniques

Painted surfaces were analyzed using a Heuresis Pb200i XRF Lead Analyzer. For a complete description of the XRF testing method, please refer to the 1997 HUD Inspection Protocol.

PACBM representative bulk samples collected during our inspection activities were analyzed for asbestos content by EMSL Analytical, Inc., a laboratory accredited by the National Institute of Standards and

Technology (NIST), and approved by the National Voluntary Laboratory Accreditation Program (NVLAP). For a complete description of the PLM method, please refer to EPA Method 600/R-93/116 and Title 40 Code of Federal Regulations (CFR) Part 763 Appendix A to Subpart E, Section 1.

4.0 RESULTS

The results of the XRF analyses of painted surfaces and PLM analyses of PACBMs are listed below.

4.1 XRF Analysis Results

A total of 106 XRF readings were taken from selected painted surfaces, divided into various testing combinations. Readings taken from the yellow striping paint on the garage floor exceeded the EPA regulatory limit of 1.0 mg/cm² for lead.

Applicable regulations regarding the abatement and disposal of LBP are described in greater detail in Section 5 below. LBP sample locations are summarized in Table 1 and depicted on Figure 1, and XRF analytical data are summarized in Appendix B.

4.2 PLM Analytical Results

A total of 66 bulk samples (38 samples with 28 additional layers) were collected from PACBM identified in the inspected portions of the building on the subject property. Each sample was analyzed by EPA Method 600/R-93/116. As described above, according to the NESHAP, ACMs are defined as containing more than 1 percent asbestos. One of the samples collected was originally found to be “asbestos-containing” according to the NESHAP definition. This sample (collected from floor material in the hallway to the north of the engine bay) was further analyzed by a 1,000-point count method to obtain more precise results, and was ultimately found to contain less than 1 percent asbestos. None of the other 65 samples analyzed were found to be “asbestos-containing” according to the NESHAP definition. PACBM PLM analytical data are included in Appendix B.

5.0 APPLICABLE REGULATIONS AND GUIDELINES

5.1 Lead-Based Paint For Federally Owned Or Assisted Housing (Sections 1012 & 1013)

On September 15, 1999, HUD published final regulations to implement Sections 1012 & 1013 of Title X, which set forth specific policies on LBP hazard reduction in federally assisted and federally owned housing (24 CFR Part 35 — Requirement for Notification, Evaluation and Reduction of Lead-Based Paint Hazard in Housing Receiving Federal Assistance). This rule is a comprehensive amendment of previous federal housing LBP regulations and consolidates HUD LBP requirements into one part of the CFR. HUD

guidelines are applicable for a dwelling that contains LBP at 1.0 mg/cm² or more. In most cases, HUD guidelines also require disclosure of the presence of LBP in building materials to any future tenants or owners of the property.

5.2 U.S. EPA's Renovation, Repair, & Painting (RRP) Rule (40 CFR 745 Subpart E)

Between 2008 and 2013, the U.S. EPA promulgated the RRP guidelines pertaining to renovation, repair, and painting projects that disturb lead-based paint in homes, child care facilities and pre-schools built before 1978, and it requires contractors to have their firm certified by EPA (or an EPA-authorized state), use certified renovators who are trained by EPA-approved training providers and follow lead-safe work practices.

5.3 US EPA NESHAP Regulations

According to the NESHAP standards, before general demolition or renovation activities within buildings containing asbestos can occur, identified friable and some categories of non-friable ACMs must be properly encapsulated or abated, as prescribed by NESHAP regulations. NESHAP categorizes ACM analyzed by the PLM method into two main types, friable and non-friable ACM. Friable ACM is a material that when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable ACM is further delineated by two different Categories, Category I and Category II non-friable ACM. Category I non-friable ACM is defined as asbestos-containing packing, gaskets, resilient floor covering, and asphalt roofing product. Category II non-friable ACM is any material, excluding Category I non-friable ACM that when dry cannot be crumbled, pulverized, or reduced to powder by hand pressure. NESHAP considers friable ACM, Category I non-friable ACM, and Category II non-friable ACM that is exposed to certain conditions (discussed below), to be Regulated Asbestos Containing Material (RACM). Notification to the U.S. EPA or the state is required before a building containing RACM is demolished or renovated. A material is considered RACM if it fits these criteria:

- Friable ACM.
- Category I non-friable ACM that has been or will be exposed to forces during demolition or removal that may disturb the material and cause it to become friable. This includes, but is not limited to, grinding, cutting, sanding, and abrading.
- Category II non-friable ACM that has been or will be exposed to forces during demolition or renovation that may disturb the material, causing it to become crumbled, pulverized, or reduced to a powdered form.

According to NESHAP regulations, RACM need not be removed before demolition or renovation if it meets the following criteria:

- It is Category I non-friable ACM that is in good condition.
- It is enclosed in concrete or other similarly hard material and is adequately wet when it is exposed during demolition or renovation.
- The RACM was discovered after demolition or renovation began and it cannot be safely removed.
- It is Category II non-friable ACM and there is a low probability that the material will become disturbed during demolition or renovation.

5.4 OSHA Regulations CFR 1910 And 1926

OSHA's permissible exposure limit (PEL) is 0.1 fiber per cubic centimeter (f/cc) of air as an 8-hour time-weighted average (TWA). The Excursion Limit is 1.0 f/cc averaged over a 30-minute period.

With the exception of agricultural activities, OSHA's general industry standard regulates all activities related to asbestos that are not covered by the construction and shipyard employment standards. This standard requires employers to provide awareness training to employees who perform maintenance or housekeeping duties where ACM or presumed ACM is located. This includes a mandatory participation-training program for all employees who are exposed to airborne asbestos at or above the PEL and or Excursion Limit. The program should be instituted and carried out before the employee's initial exposure to the area and a refresher course must be offered annually.

Under OSHA's construction standard, OSHA classifies construction activity according to descending degree of risk, with Class I work presenting the greatest potential risk and class IV the lowest.

- Class I work involves the removal of Thermal System Insulation (TSI) and surfacing ACM or PACM.
- Class II work involves removal of any other ACM that is not TSI or surfacing ACM.
- Class III work includes repair and maintenance activities where employees are likely to disturb ACM.
- Class IV work is defined as maintenance and custodial activities during which employees contact ACM or PACM, including waste and debris cleanup.

Employers must institute a training program for all workers who install asbestos-containing products and all workers who perform Class I, II, III, or IV work. Medical surveillance is required for all workers who engage in class I, II, or III work for a combined total of 30 days or more per year. Medical surveillance is also required for those who are exposed above the PEL or the excursion limit of 1.0 f/cc. Employers and

building owners must communicate the hazard to employees and the contractors when ACM or PACM is present in their facilities or if their employees will work with ACM.

OSHA requires a competent person to be designated by the employer. The competent person must have qualifications and the authority for ensuring worker health and safety. This includes identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy to reduce asbestos exposure with the authority to take prompt corrective action. Class I and Class II construction work requires the USEPA's Model Accreditation Plan (40 CFR 763) training or its equivalent for the project designer or supervisor. Class III and Class IV construction work requires completion of a 24-hour Operation and Maintenance (O&M) course developed by the U.S. EPA (40 CFR 763.93) or its equivalent. The duties of the competent person include regular inspections of the job site, equipment, and materials as part of the required safety and health program.

6.0 CONCLUSIONS AND RECOMMENDATIONS

A total of 66 bulk samples (38 samples with 28 additional layers) were collected from PACBM identified in the inspected portions of the building on the subject property. One of the samples collected was originally found to be "asbestos-containing" according to the NESHAP definition. This sample was further analyzed by a 1,000-point count method to obtain more precise results, and was ultimately found to contain less than 1 percent asbestos. None of the remaining 65 samples collected in the building on the subject property were found to be "asbestos-containing" according to the NESHAP definition.

A total of 106 XRF readings were taken from selected painted surfaces, divided into various testing combinations. Readings taken from the striping paint on the garage floor exceeded the EPA regulatory limit of 1.0 mg/cm² for lead.

The conclusions and recommendations presented in this report are based on prevailing site conditions during the sample collection period. The inspector did not demolish walls, chases, or any other building spaces while performing this assessment. Consequently, ACMs and LBP may be present in other areas that were not inspected during this survey.

This report was prepared for our client, Shay Throop, Manager for Capital Projects for the Municipality of Anchorage. The scope of work was defined in our written proposal dated January 26, 2020. It is not intended for third parties to rely on the information provided in this report, except at their own risk. This report presents facts, observations, and inferences based on conditions observed during the period of our project activities, and only those conditions that were evaluated as part of our scope of work. Changes to

site conditions may have occurred since we completed our initial project activities. These changes may be from the actions of man or nature. Changes in regulations may also impact the interpretation of site conditions. BGES will not disclose our findings to any parties other than our client as listed above, except as directed by our client, or as required by law.

The limited lead and asbestos inspections were conducted by Lisa Vitale and Carson Kent, both Environmental Scientists of BGES. Ms. Vitale is an Asbestos Hazard Emergency Response Act (AHERA)-Certified Building Inspector (Certificate # TBI24-221-15123). Mr. Kent is an AHERA-Certified Building Inspector (Certificate # TBI24-220-13779) and a United States (U.S.) Environmental Protection Agency (EPA)- Certified Lead Risk Assessor (Certificate # LBP-R-1219617-1) . This HBMI report was prepared by Ms. Vitale and Mr. Kent. The report was reviewed by Robert Braunstein, Principal Geologist of BGES. Mr. Braunstein has over 40 years of geological and environmental consulting experience and has managed over one hundred HBMI's including lead and asbestos inspections at sites throughout Alaska.

Conducted and prepared by:



Lisa Vitale
Environmental Scientist

Conducted and Prepared by:



Carson Kent
Environmental Scientist II

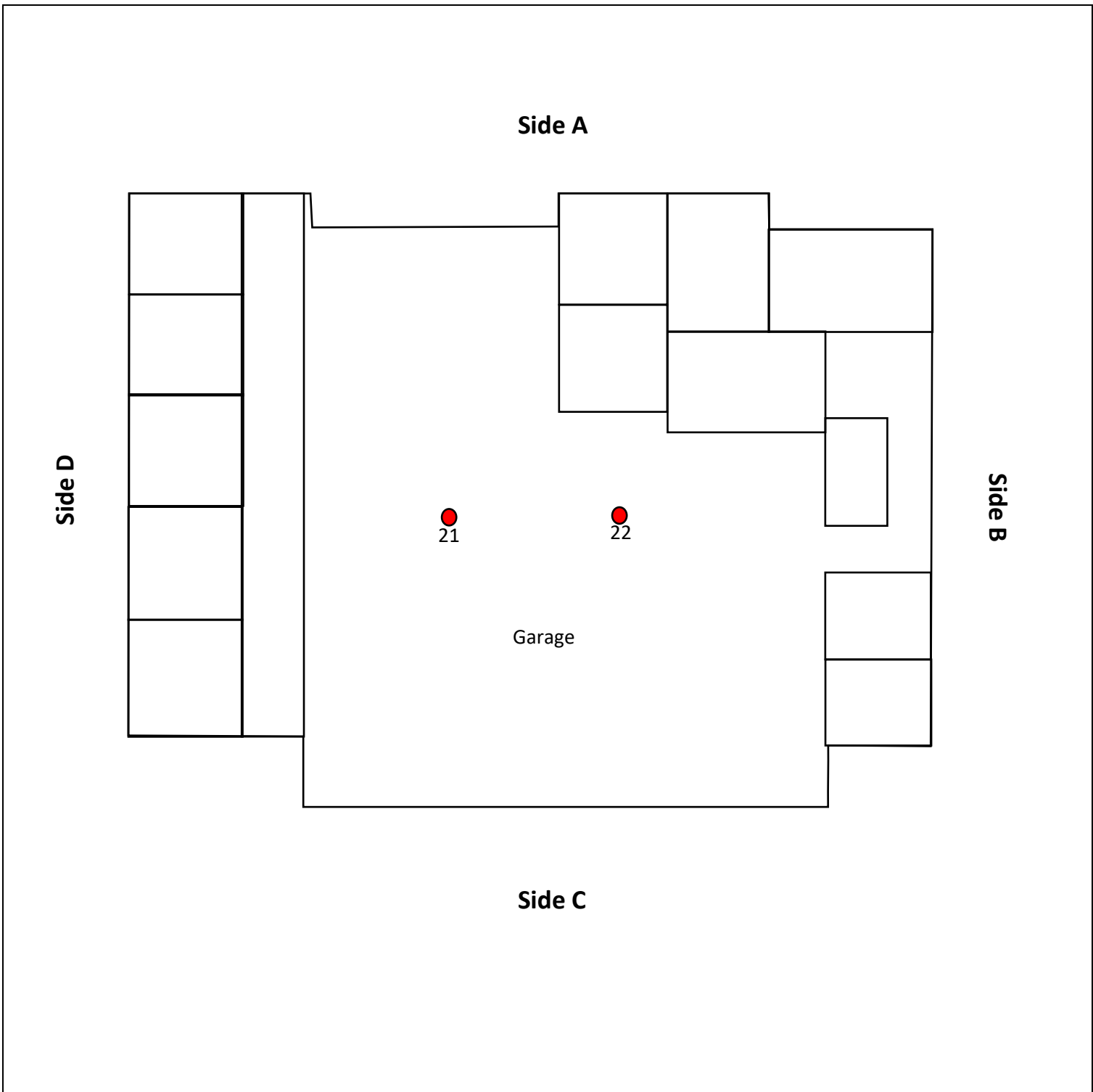
Reviewed by:



Robert N. Braunstein, C.P.G.; P.G.
Principal Geologist

**TABLE 1
POSITIVE XRF READINGS LOCATIONS**

XRF ID #	Testing Location	Building Component	Approximate Area (estimated total for unit/common area)
21	Garage Floor	Yellow Striping Paint	6 Square Feet
22	Garage Floor	Yellow Striping Paint	6 Square Feet



21

22

Garage

Side C

Side A

Side D

Side B

First Floor


Source: Field Sketch – Not to Scale

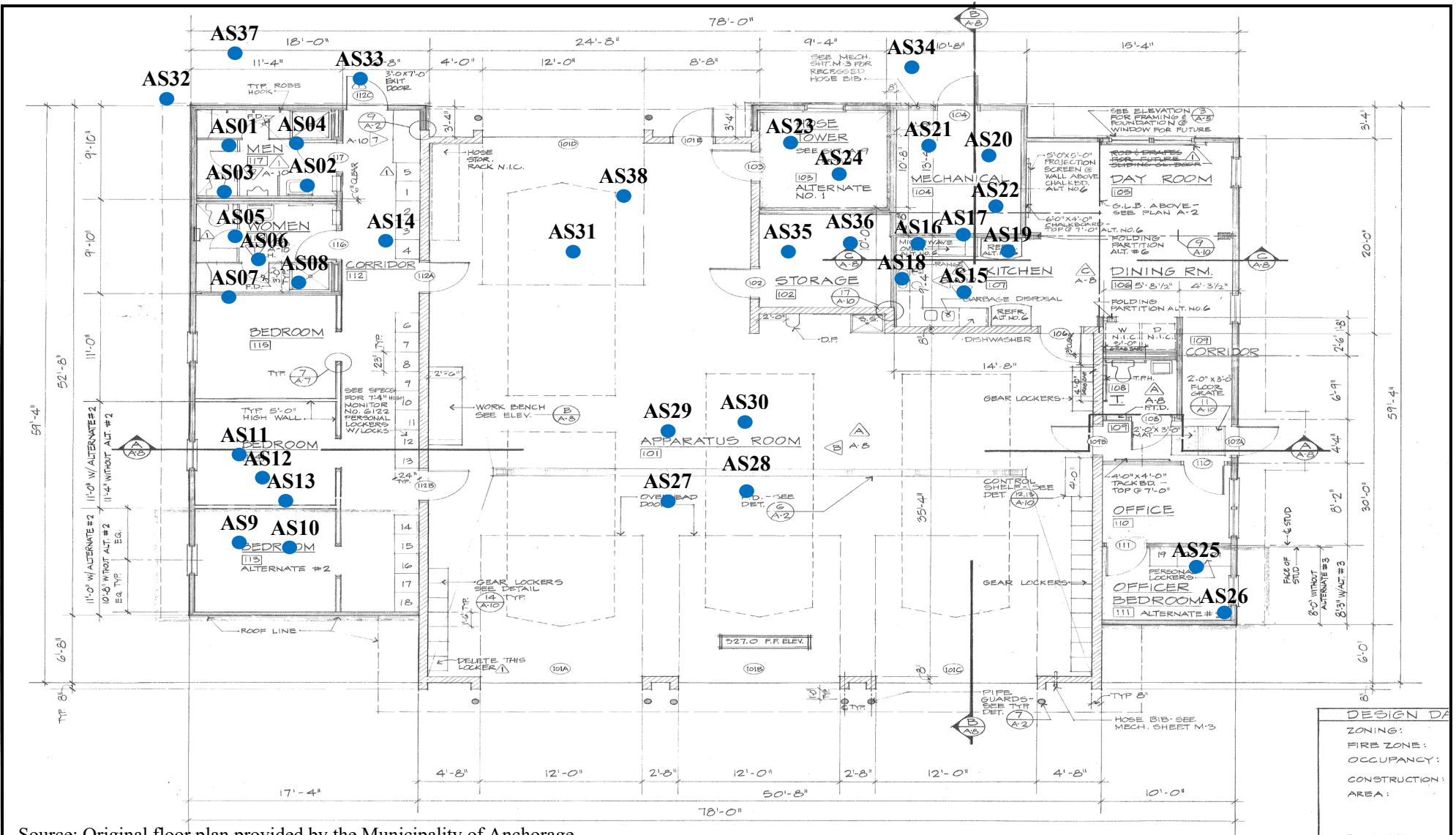
Key

● Sample Location (positive lead reading)

16716 Fire House Lane
Eagle River, Alaska

Positive Lead Reading Locations

 BGES, INC.	March 2021	Figure 1
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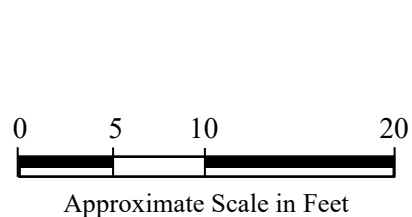
Source: Original floor plan provided by the Municipality of Anchorage
 The layout had been updated by the time of our sampling. Floor plan room labels are not up to date.

Key

- Sample Location (< 1 percent asbestos)

PACBM = potential asbestos containing building materials

Note: Features on this map do not necessarily coincide with current space descriptions/sample location descriptions



16716 Fire house Lane
 Anchorage, Alaska

PACBM Sample Locations

BGES, INC.	March 2021	Figure 2
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APPENDIX A
SITE PHOTOGRAPHS



Photo 1: Reading # 21 – Floor Striping in Garage



Photo 2: Reading # 22 – Floor Striping in Garage

16716 Fire House Lane
Eagle River, Alaska
**Positive Lead Sample Location
Photographs**

APPENDIX B
XRF & PLM ANALYTICAL DATA

XRF Analytical Data

BGES, INC

Job	No.	Room	Structure	Member	Substrate	Wall	Result	Units	Result	3 SD	Date	Time
16716 Fire House Ln.	-	Calibration	-	-	-	-	1	mg/cm2	Positive	0.2	2/4/2021	10:15:57
16716 Fire House Ln.	-	Calibration	-	-	-	-	1	mg/cm2	Positive	0.2	2/4/2021	10:16:14
16716 Fire House Ln.	-	Calibration	-	-	-	-	1.1	mg/cm2	Positive	0.2	2/4/2021	10:16:36
16716 Fire House Ln.	-	Calibration	-	-	-	-	-0.2	mg/cm2	Negative	0.3	2/4/2021	10:16:54
16716 Fire House Ln.	-	Calibration	-	-	-	-	-0.1	mg/cm2	Negative	0.3	2/4/2021	10:17:03
16716 Fire House Ln.	-	Calibration	-	-	-	-	-0.2	mg/cm2	Negative	0.3	2/4/2021	10:17:12
16716 Fire House Ln.	1	Garage (Interior)	Room	Wall	Concrete	C	0.1	mg/cm2	Negative	0.3	2/4/2021	10:49:51
16716 Fire House Ln.	2	Garage (Interior)	Room	Wall	Concrete	B	0	mg/cm2	Negative	0.3	2/4/2021	10:50:14
16716 Fire House Ln.	3	Garage (Interior)	Pipe	Vertical	Metal	B	0	mg/cm2	Negative	0.3	2/4/2021	10:51:48
16716 Fire House Ln.	4	Garage (Interior)	Pipe	Vertical	Metal	B	-0.1	mg/cm2	Negative	0.3	2/4/2021	10:52:08
16716 Fire House Ln.	5	Garage (Interior)	Door	Frame	Metal	B	0.1	mg/cm2	Negative	0.3	2/4/2021	10:52:47
16716 Fire House Ln.	6	Garage (Interior)	Door	---	Metal	B	-0.1	mg/cm2	Negative	0.3	2/4/2021	10:53:20
16716 Fire House Ln.	7	Garage (Interior)	Door	---	Metal	B	0.2	mg/cm2	Negative	0.3	2/4/2021	10:53:31
16716 Fire House Ln.	8	Garage (Interior)	Door	---	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	10:53:55
16716 Fire House Ln.	9	Garage (Interior)	Door	Casing	Metal	C	0.6	mg/cm2	Negative	0.3	2/4/2021	10:54:09
16716 Fire House Ln.	10	Garage (Interior)	Door	Jamb	Metal	C	0.5	mg/cm2	Negative	0.3	2/4/2021	10:54:36
16716 Fire House Ln.	11	Garage (Interior)	Pipe	Vertical	Metal	C	0.1	mg/cm2	Negative	0.3	2/4/2021	10:55:59
16716 Fire House Ln.	12	Garage (Interior)	Pipe	Vertical	Metal	C	0.5	mg/cm2	Negative	0.3	2/4/2021	10:56:13
16716 Fire House Ln.	13	Garage (Interior)	Electric Panel	Frame	Metal	C	0.1	mg/cm2	Negative	0.3	2/4/2021	10:56:43
16716 Fire House Ln.	14	Garage (Interior)	Electric Panel	Frame	Metal	C	0.1	mg/cm2	Negative	0.3	2/4/2021	10:56:53
16716 Fire House Ln.	15	Garage (Interior)	Electric Panel	Frame	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	10:57:01
16716 Fire House Ln.	16	Garage (Interior)	Electric Panel	Frame	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	10:57:11
16716 Fire House Ln.	17	Garage (Interior)	Electric Panel	Frame	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	10:57:20
16716 Fire House Ln.	18	Garage (Interior)	Door	---	Metal	C	0.2	mg/cm2	Negative	0.3	2/4/2021	10:57:46
16716 Fire House Ln.	19	Garage (Interior)	Door	Casing	Metal	C	0.5	mg/cm2	Negative	0.3	2/4/2021	10:58:05
16716 Fire House Ln.	20	Garage (Interior)	Room	Wall	Concrete	A	0.2	mg/cm2	Negative	0.3	2/4/2021	10:58:45
16716 Fire House Ln.	21	Garage (Interior)	Room	Floor	Concrete	-	13.3	mg/cm2	Positive	0.4	2/4/2021	10:59:17
16716 Fire House Ln.	22	Garage (Interior)	Room	Floor	Concrete	-	12.7	mg/cm2	Positive	0.3	2/4/2021	10:59:55
16716 Fire House Ln.	23	Garage (Interior)	Door	---	Metal	A	0	mg/cm2	Negative	0.3	2/4/2021	11:00:36
16716 Fire House Ln.	24	Garage (Interior)	Door	---	Metal	A	0.2	mg/cm2	Negative	0.3	2/4/2021	11:00:43
16716 Fire House Ln.	25	Garage (Interior)	Door	---	Metal	A	0.1	mg/cm2	Negative	0.3	2/4/2021	11:00:53
16716 Fire House Ln.	26	Garage (Interior)	Door	---	Metal	A	0.1	mg/cm2	Negative	0.3	2/4/2021	11:01:02
16716 Fire House Ln.	27	Garage (Interior)	Door	---	Metal	A	0.1	mg/cm2	Negative	0.3	2/4/2021	11:01:17
16716 Fire House Ln.	28	Side Hallway	Door	---	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	11:01:57
16716 Fire House Ln.	29	Side Hallway	Door	---	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	11:02:26
16716 Fire House Ln.	30	Side Hallway	Room	Wall	Drywall	D	-0.1	mg/cm2	Negative	0.3	2/4/2021	11:03:12
16716 Fire House Ln.	31	Side Hallway	Room	Wall	Drywall	D	0.1	mg/cm2	Negative	0.3	2/4/2021	11:03:25
16716 Fire House Ln.	32	1st Flr Bathroom	Room	Wall	Metal	D	0	mg/cm2	Negative	0.3	2/4/2021	11:03:50
16716 Fire House Ln.	33	1st Flr Bathroom	Room	Wall	Metal	B	0	mg/cm2	Negative	0.3	2/4/2021	11:04:28
16716 Fire House Ln.	34	1st Flr Bathroom	Room	Wall	Metal	B	-0.2	mg/cm2	Negative	0.3	2/4/2021	11:04:55
16716 Fire House Ln.	35	1st Flr Bathroom	Room	Floor	Concrete	-	0.2	mg/cm2	Negative	0.3	2/4/2021	11:06:13
16716 Fire House Ln.	36	1st Flr Bathroom	Room	Floor	Concrete	-	-0.1	mg/cm2	Negative	0.3	2/4/2021	11:06:24

XRF Analytical Data

BGES, INC

Job	No.	Room	Structure	Member	Substrate	Wall	Result	Units	Result	3 SD	Date	Time
16716 Fire House Ln.	37	Storage Room	Room	Wall	Drywall	-	-0.1	mg/cm2	Negative	0.3	2/4/2021	11:07:54
16716 Fire House Ln.	38	Storage Room	Door	Frame	Drywall	-	0.1	mg/cm2	Negative	0.3	2/4/2021	11:08:19
16716 Fire House Ln.	39	Room 1	Window	Casing	Wood	-	0.1	mg/cm2	Negative	0.3	2/4/2021	11:09:20
16716 Fire House Ln.	40	Room 1	Window	Sill	Wood	B	0	mg/cm2	Negative	0.3	2/4/2021	11:09:51
16716 Fire House Ln.	41	Room 2	Window	Sill	Wood	B	-0.1	mg/cm2	Negative	0.3	2/4/2021	11:10:42
16716 Fire House Ln.	42	Room 2	Window	Sill	Wood	B	-0.1	mg/cm2	Negative	0.3	2/4/2021	11:11:01
16716 Fire House Ln.	43	Room 2	Door	Jamb	Wood	B	0	mg/cm2	Negative	0.3	2/4/2021	11:11:38
16716 Fire House Ln.	44	Room 2	Door	Jamb	Wood	B	0	mg/cm2	Negative	0.3	2/4/2021	11:11:49
16716 Fire House Ln.	45	utility closet	Door	Jamb	Metal	B	0.5	mg/cm2	Negative	0.2	2/4/2021	11:13:09
16716 Fire House Ln.	46	Room 3	Door	Casing	Metal	B	0.6	mg/cm2	Negative	0.2	2/4/2021	11:47:10
16716 Fire House Ln.	47	Room 3	Room	Wall	Drywall	A	0.1	mg/cm2	Negative	0.3	2/4/2021	11:48:07
16716 Fire House Ln.	48	Room 3	Room	Wall	Drywall	D	0.1	mg/cm2	Negative	0.3	2/4/2021	11:48:26
16716 Fire House Ln.	49	Room 3	Room	Ceiling	Drywall	D	0	mg/cm2	Negative	0.3	2/4/2021	11:48:43
16716 Fire House Ln.	50	Room 3	Door	Casing	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	11:50:10
16716 Fire House Ln.	51	Room 3	Door	Casing	Metal	C	0.1	mg/cm2	Negative	0.3	2/4/2021	11:50:21
16716 Fire House Ln.	52	Room 3	Window	Sill	Wood	D	-0.1	mg/cm2	Negative	0.3	2/4/2021	11:50:45
16716 Fire House Ln.	53	Room 3	Window	Casing	Wood	D	-0.1	mg/cm2	Negative	0.3	2/4/2021	11:51:03
16716 Fire House Ln.	54	Room 4	Door	---	Metal	D	0.1	mg/cm2	Negative	0.3	2/4/2021	11:52:02
16716 Fire House Ln.	55	Room 4	Door	---	Metal	D	0.1	mg/cm2	Negative	0.3	2/4/2021	11:52:10
16716 Fire House Ln.	56	Room 4	Door	---	Metal	D	-0.1	mg/cm2	Negative	0.3	2/4/2021	11:52:22
16716 Fire House Ln.	57	Room 4	Door	Frame	Metal	D	-0.2	mg/cm2	Negative	0.3	2/4/2021	11:53:52
16716 Fire House Ln.	58	Room 4	Door	Frame	Metal	D	0.1	mg/cm2	Negative	0.3	2/4/2021	11:53:59
16716 Fire House Ln.	59	Room 5	Window	Frame	Metal	D	0.1	mg/cm2	Negative	0.3	2/4/2021	11:55:02
16716 Fire House Ln.	60	Room 5	Window	Frame	Metal	D	0.1	mg/cm2	Negative	0.3	2/4/2021	11:55:09
16716 Fire House Ln.	61	Room 5	Room	Wall	Drywall	D	0.1	mg/cm2	Negative	0.3	2/4/2021	11:55:31
16716 Fire House Ln.	62	Room 5	Room	Wall	Drywall	D	0.6	mg/cm2	Negative	0.2	2/4/2021	12:00:35
16716 Fire House Ln.	63	Room 6	Room	Wall	Drywall	D	0.1	mg/cm2	Negative	0.3	2/4/2021	12:01:34
16716 Fire House Ln.	64	Room 6	Room	Wall	Drywall	D	0.6	mg/cm2	Negative	0.3	2/4/2021	12:02:19
16716 Fire House Ln.	65	Room 6	Room	Wall	Drywall	D	0	mg/cm2	Negative	0.3	2/4/2021	12:02:27
16716 Fire House Ln.	66	Room 6	Room	Wall	Drywall	D	0	mg/cm2	Negative	0.3	2/4/2021	12:02:36
16716 Fire House Ln.	67	Room 6	Room	Wall	Drywall	D	0.2	mg/cm2	Negative	0.3	2/4/2021	12:02:46
16716 Fire House Ln.	68	Room 6	Room	Wall	Drywall	D	0	mg/cm2	Negative	0.3	2/4/2021	12:02:54
16716 Fire House Ln.	69	Room 6	Room	Wall	Drywall	D	0.1	mg/cm2	Negative	0.3	2/4/2021	12:03:03
16716 Fire House Ln.	70	Room 6	Room	Wall	Drywall	D	0.1	mg/cm2	Negative	0.3	2/4/2021	12:03:13
16716 Fire House Ln.	71	Room 6	Room	Wall	Drywall	D	0	mg/cm2	Negative	0.3	2/4/2021	12:03:22
16716 Fire House Ln.	72	Bathroom 2	Room	Wall	Drywall	B	0.1	mg/cm2	Negative	0.3	2/4/2021	12:05:19
16716 Fire House Ln.	73	Bathroom 2	Room	Wall	Drywall	A	0.1	mg/cm2	Negative	0.3	2/4/2021	12:05:39
16716 Fire House Ln.	74	Bathroom 2	Room	Wall	Drywall	C	0.1	mg/cm2	Negative	0.3	2/4/2021	12:06:02
16716 Fire House Ln.	75	Room 8	Room	Wall	Metal	C	0.7	mg/cm2	Negative	0.2	2/4/2021	12:07:59
16716 Fire House Ln.	76	Room 8	Room	Wall	Metal	C	0.5	mg/cm2	Negative	0.3	2/4/2021	12:08:12
16716 Fire House Ln.	77	Room 8	Room	Wall	Metal	C	0.6	mg/cm2	Negative	0.2	2/4/2021	12:08:22
16716 Fire House Ln.	78	Room 8	Room	Wall	Metal	C	-0.1	mg/cm2	Negative	0.3	2/4/2021	12:08:32

XRF Analytical Data

BGES, INC

Job	No.	Room	Structure	Member	Substrate	Wall	Result	Units	Result	3 SD	Date	Time
16716 Fire House Ln.	79	Room 8	Room	Wall	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	12:08:40
16716 Fire House Ln.	80	Room 8	Room	Wall	Metal	C	0.1	mg/cm2	Negative	0.3	2/4/2021	12:08:57
16716 Fire House Ln.	81	Room 8	Room	Wall	Metal	C	0.1	mg/cm2	Negative	0.3	2/4/2021	12:09:22
16716 Fire House Ln.	82	House	Room	Wall	Metal	C	-0.1	mg/cm2	Negative	0.3	2/4/2021	12:31:46
16716 Fire House Ln.	83	House	Room	Wall	Metal	C	0.1	mg/cm2	Negative	0.3	2/4/2021	12:31:53
16716 Fire House Ln.	84	House	Room	Wall	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	12:32:05
16716 Fire House Ln.	85	House	Room	Wall	Metal	C	0.1	mg/cm2	Negative	0.3	2/4/2021	12:32:15
16716 Fire House Ln.	86	House	Room	Wall	Metal	C	0.2	mg/cm2	Negative	0.3	2/4/2021	12:32:27
16716 Fire House Ln.	87	House	Room	Wall	Metal	C	0.8	mg/cm2	Negative	0.2	2/4/2021	12:32:39
16716 Fire House Ln.	88	House	Room	Wall	Metal	C	0.7	mg/cm2	Negative	0.2	2/4/2021	12:38:31
16716 Fire House Ln.	89	House	Room	Wall	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	12:38:47
16716 Fire House Ln.	90	House	Room	Wall	Metal	C	0.7	mg/cm2	Negative	0.2	2/4/2021	12:38:58
16716 Fire House Ln.	91	House	Room	Wall	Metal	C	-0.1	mg/cm2	Negative	0.3	2/4/2021	12:39:24
16716 Fire House Ln.	92	House	Room	Wall	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	12:39:37
16716 Fire House Ln.	93	House	Room	Wall	Metal	C	0.1	mg/cm2	Negative	0.3	2/4/2021	12:39:56
16716 Fire House Ln.	94	House	Room	Wall	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	12:40:04
16716 Fire House Ln.	95	House	Room	Wall	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	12:40:30
16716 Fire House Ln.	96	House	Room	Wall	Metal	C	-0.1	mg/cm2	Negative	0.3	2/4/2021	12:40:48
16716 Fire House Ln.	97	House	Room	Wall	Metal	C	0.7	mg/cm2	Negative	0.2	2/4/2021	12:41:03
16716 Fire House Ln.	98	House	Room	Wall	Metal	C	0.9	mg/cm2	Negative	0.2	2/4/2021	12:41:17
16716 Fire House Ln.	99	House	Room	Wall	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	12:41:48
16716 Fire House Ln.	100	House	Room	Wall	Metal	C	0.7	mg/cm2	Negative	0.2	2/4/2021	12:41:56
16716 Fire House Ln.	101	House	Room	Wall	Metal	C	0.1	mg/cm2	Negative	0.3	2/4/2021	12:42:21
16716 Fire House Ln.	102	House	Room	Wall	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	12:42:32
16716 Fire House Ln.	103	House	Room	Wall	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	12:42:54
16716 Fire House Ln.	104	House	Room	Wall	Metal	C	0.1	mg/cm2	Negative	0.3	2/4/2021	12:44:08
16716 Fire House Ln.	105	House	Room	Wall	Metal	C	0	mg/cm2	Negative	0.3	2/4/2021	12:44:17
16716 Fire House Ln.	106	House	Room	Wall	Metal	C	-0.2	mg/cm2	Negative	0.3	2/4/2021	12:44:25
16716 Fire House Ln.	-	Calibration	-	-	-	-	1	mg/cm2	Positive	0.2	2/4/2021	13:46:14
16716 Fire House Ln.	-	Calibration	-	-	-	-	1.1	mg/cm2	Positive	0.2	2/4/2021	13:46:33
16716 Fire House Ln.	-	Calibration	-	-	-	-	1.1	mg/cm2	Positive	0.2	2/4/2021	13:46:50
16716 Fire House Ln.	-	Calibration	-	-	-	-	0	mg/cm2	Negative	0.3	2/4/2021	13:47:11
16716 Fire House Ln.	-	Calibration	-	-	-	-	0.1	mg/cm2	Negative	0.3	2/4/2021	13:47:19
16716 Fire House Ln.	-	Calibration	-	-	-	-	0	mg/cm2	Negative	0.3	2/4/2021	13:47:36

Company Heuresis Corp.
 Model Pb200i
 Type XRF Lead Paint Analyzer
 Serial Num. 1905
 App Version Pb200i-4.1-11



EMSL Analytical, Inc.

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EMSL Order: 092101780

Customer ID: BGES62

Customer PO:

Project ID:

Attention: Brian Braunstein
BGES, Inc.
1042 East 6th Avenue
Anchorage, AK 99501

Phone: (907) 696-0237

Fax: (907) 644-2901

Received Date: 02/09/2021 8:45 AM

Analysis Date: 02/15/2021

Collected Date: 02/04/2021

Project: ER FIRE

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AS01 <small>092101780-0001</small>	BATHROOM 1 - TSI	Pink Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
AS02-Wallboard <small>092101780-0002</small>	BATHROOM 1 WALL BC - WALL MATERIAL	Black/Yellow Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
AS02-Mastic <small>092101780-0002A</small>	BATHROOM 1 WALL BC - WALL MATERIAL	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS02-Drywall <small>092101780-0002B</small>	BATHROOM 1 WALL BC - WALL MATERIAL	Brown/White Fibrous Heterogeneous	20% Cellulose 2% Glass	70% Gypsum 8% Non-fibrous (Other)	None Detected
AS03 <small>092101780-0003</small>	BATHROOM 1 - CEILING TILE	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
AS04 <small>092101780-0004</small>	BATHROOM 1 SINK - SINK CAULKING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS05-Carpet <small>092101780-0005</small>	OFFICE 1 - CARPET/MASTIC	Gray Fibrous Homogeneous	95% Synthetic	5% Non-fibrous (Other)	None Detected
AS05-Mastic <small>092101780-0005A</small>	OFFICE 1 - CARPET/MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS06-Cove Base <small>092101780-0006</small>	OFFICE 1 - COVEBASE+ MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS06-Mastic <small>092101780-0006A</small>	OFFICE 1 - COVEBASE+ MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS07-Drywall <small>092101780-0007</small>	OFFICE 1 WALL AD - WALL MATERIAL	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (Other)	None Detected
AS07-Joint Compound <small>092101780-0007A</small>	OFFICE 1 WALL AD - WALL MATERIAL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS08 <small>092101780-0008</small>	OFFICE 1 - TSI	Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
AS09-Drywall <small>092101780-0009</small>	OFFICE 2 WALL B - WALL MATERIAL	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (Other)	None Detected
AS09-Texture <small>092101780-0009A</small>	OFFICE 2 WALL B - WALL MATERIAL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS10 <small>092101780-0010</small>	OFFICE 2 - TSI	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected

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EMSL Order: 092101780
Customer ID: BGES62
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AS11 <i>092101780-0011</i>	OPEN OFFICE - WALL - MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS12 <i>092101780-0012</i>	OPEN OFFICE - CEILING TILE	Gray/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
AS13-Insulation <i>092101780-0013</i>	OPEN OFFICE - TSI	Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
AS13-Wrap <i>092101780-0013A</i>	OPEN OFFICE - TSI	White/Silver Fibrous Homogeneous	60% Cellulose 15% Glass	25% Non-fibrous (Other)	None Detected
AS14-Linoleum <i>092101780-0014</i>	HALL 1 - FLOOR LINOLEUM/MASTIC	Gray Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
AS14-Mastic <i>092101780-0014A</i>	HALL 1 - FLOOR LINOLEUM/MASTIC	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
AS15-Linoleum <i>092101780-0015</i>	KITCHEN - FLOOR LINOLEUM/MASTIC	Gray Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
AS15-Mastic <i>092101780-0015A</i>	KITCHEN - FLOOR LINOLEUM/MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS16-Drywall <i>092101780-0016</i>	KITCHEN - WALL CB - WALL MATERIAL	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (Other)	None Detected
AS16-Joint Compound <i>092101780-0016A</i>	KITCHEN - WALL CB - WALL MATERIAL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS17 <i>092101780-0017</i>	KITCHEN - CEILING TILE	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
AS18-Insulation <i>092101780-0018</i>	KITCHEN - SMALLER PIPE - TSI	Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
AS18-Wrap <i>092101780-0018A</i>	KITCHEN - SMALLER PIPE - TSI	White/Silver Fibrous Homogeneous	60% Cellulose 10% Glass	30% Non-fibrous (Other)	None Detected
AS19-Insulation <i>092101780-0019</i>	KITCHEN- LARGER PIPE - TSI	Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
AS19-Wrap <i>092101780-0019A</i>	KITCHEN- LARGER PIPE - TSI	White/Silver Fibrous Homogeneous	60% Cellulose 10% Glass	30% Non-fibrous (Other)	None Detected
AS20-Carpet <i>092101780-0020</i>	APD ROOM - CARPET/MASTIC	Gray Fibrous Homogeneous	95% Synthetic	5% Non-fibrous (Other)	None Detected
AS20-Mastic <i>092101780-0020A</i>	APD ROOM - CARPET/MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS21-Drywall <i>092101780-0021</i>	APD ROOM WALL - WALL MATERIAL	Brown/White Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
AS21-Joint Compound <i>092101780-0021A</i>	APD ROOM WALL - WALL MATERIAL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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EMSL Order: 092101780
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AS22-Cove Base <small>092101780-0022</small>	APD ROOM - COVEBASE/ MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS22-Mastic <small>092101780-0022A</small>	APD ROOM - COVEBASE/ MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS23-Insulation <small>092101780-0023</small>	BELL TOWER - VENT - TSI	Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
AS23-Wrap <small>092101780-0023A</small>	BELL TOWER - VENT - TSI	White/Silver Fibrous Homogeneous	60% Cellulose 10% Glass	30% Non-fibrous (Other)	None Detected
AS24-Insulation <small>092101780-0024</small>	BELL TOWER - HEATER - TSI	Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
AS24-Wrap <small>092101780-0024A</small>	BELL TOWER - HEATER - TSI	White/Silver Fibrous Homogeneous	60% Cellulose 10% Glass	30% Non-fibrous (Other)	None Detected
AS25-Insulation <small>092101780-0025</small>	EVIDENCE ROOM - TSI	Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
AS25-Wrap <small>092101780-0025A</small>	EVIDENCE ROOM - TSI	White/Silver Fibrous Homogeneous	60% Cellulose 10% Glass	30% Non-fibrous (Other)	None Detected
AS26-Drywall <small>092101780-0026</small>	EVIDENCE ROOM - WALL AD - WALL MATERIAL	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (Other)	None Detected
AS26-Joint Compound <small>092101780-0026A</small>	EVIDENCE ROOM - WALL AD - WALL MATERIAL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS27-Insulation <small>092101780-0027</small>	ENGINE BAY - GREEN PIPE - TSI	Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
AS27-Wrap <small>092101780-0027A</small>	ENGINE BAY - GREEN PIPE - TSI	White/Silver Fibrous Homogeneous	60% Cellulose 10% Glass	30% Non-fibrous (Other)	None Detected
AS28-Insulation <small>092101780-0028</small>	ENGINE BAY - YELLOW PIPE - TSI	Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
AS28-Wrap <small>092101780-0028A</small>	ENGINE BAY - YELLOW PIPE - TSI	White/Silver Fibrous Homogeneous	60% Cellulose 10% Glass	30% Non-fibrous (Other)	None Detected
AS29-Insulation <small>092101780-0029</small>	ENGINE BAY - VENT - TSI	Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
AS29-Wrap <small>092101780-0029A</small>	ENGINE BAY - VENT - TSI	White/Silver Fibrous Homogeneous	60% Cellulose 10% Glass	30% Non-fibrous (Other)	None Detected
AS30-Drywall <small>092101780-0030</small>	ENGINE BAY - CEILING MATERIAL	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (Other)	None Detected
AS30-Joint Compound <small>092101780-0030A</small>	ENGINE BAY - CEILING MATERIAL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS31 <small>092101780-0031</small>	ENGINE BAY - IN WALL @ CEILING - TSI	Pink Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AS32-Rubber Membrane <i>092101780-0032</i>	ROOF 1 - ROOFING	Black Fibrous Homogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected
AS32-Fiberboard <i>092101780-0032A</i>	ROOF 1 - ROOFING	Brown/Black Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
AS33-Rubber Membrane <i>092101780-0033</i>	ROOF 2 - ROOFING	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS33-Fiberboard <i>092101780-0033A</i>	ROOF 2 - ROOFING	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
AS33-Foam <i>092101780-0033B</i>	ROOF 2 - ROOFING	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS34-Rubber Membrane <i>092101780-0034</i>	ROOF 3 - ROOFING	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS34-Fiberboard <i>092101780-0034A</i>	ROOF 3 - ROOFING	Black Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
AS35 <i>092101780-0035</i>	MTNC ROOM SMALL PIPE - TSI	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS36-Insulation <i>092101780-0036</i>	MTNC ROOM MD PIPE - TSI	Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
AS36-Wrap <i>092101780-0036A</i>	MTNC ROOM MD PIPE - TSI	White/Black Fibrous Homogeneous	60% Cellulose 10% Glass	30% Non-fibrous (Other)	None Detected
AS37 <i>092101780-0037</i>	OUTBACK PIPE WRAP - TSI	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AS38 <i>092101780-0038</i>	ENGINE BAY - RED PIPE - TSI	Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected

Analyst(s)

Jadda Moffett (66)

Cecilia Yu, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from: 02/15/2021 13:37:49



EMSL Analytical, Inc

464 McCormick Street, San Leandro, CA 94577

Phone/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com>

sanleandrolab@emsl.com

EMSL Order:	092101780
CustomerID:	BGES62
CustomerPO:	
ProjectID:	

Attn: Brian Braunstein BGES, Inc. 1042 East 6th Avenue Anchorage, AK 99501	Phone: (907) 644-2900 Fax: (907) 644-2901 Received: 2/9/2021 08:45 AM Analysis Date: 3/11/2021 Collected: 2/4/2021
Project: ER FIRE	

Test Report: Polarized Light Microscopy (PLM) - Point Count Performed by EPA 600/R-93/116 Method with Gravimetric Reduction and 1000 Point Count

SAMPLE ID	DESCRIPTION	APPEARANCE	(% Matrix Organic Acid)		NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
AS14-Mastic 092101780-0014A	HALL 1 - FLOOR LINOLEUM/MA STIC	Black Non-Fibrous Homogeneous	41.5	0.0		58.5 Non-fibrous (other)	<0.1 Chrysotile

Analyst(s)
Craig Nixon (1)

Cecilia Yu, Laboratory Manager
or other approved signatory

Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.1%. EMSL Analytical Inc suggests that samples reported as <0.1% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc. bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0

Initial report from 03/11/2021 09:15:07

APPENDIX C
BGES' PERSONNEL CERTIFICATIONS



1310 E 66th Avenue, Suite 2- Anchorage, AK 99518 - 907.332.0456

Certificate of Training

This is to certify that

Lisa Vitale

Has Attended and Successfully Completed
**Building Inspector Initial
24 Hour Course**



This course was accredited by the IDEM and is in compliance with TSCA Title II and State of Indiana under 326 IAC 18-2.

Certificate Number: TBI24-221-15123

Expiration Date: 2/3/2022

*Alan Caldwell
Training Division Manager*

2/3/2021

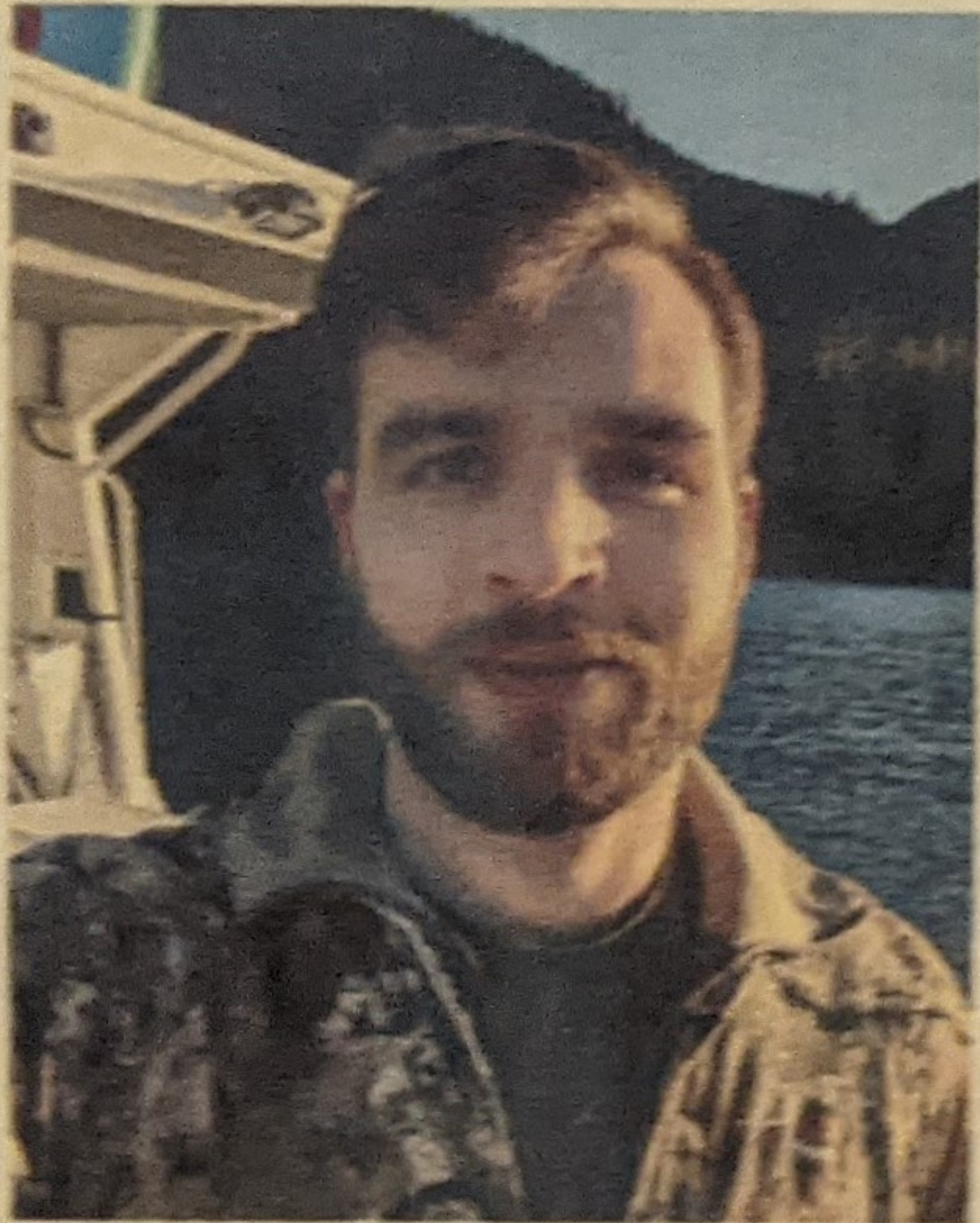
Exam Date:

2/1/2021

Course Date:

United States Environmental Protection Agency

This is to certify that



Carson S Kent

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires March 02, 2024

A handwritten signature in black ink, appearing to read "Adrienne Priselac".

Adrienne Priselac, Manager, Toxics Office

Land Division

LBP-R-I219617-1

Certification #

February 17, 2021

Issued On





1310 E 66th Avenue, Suite 2- Anchorage, AK 99518 - 907.332.0456

Certificate of Training

This is to certify that

Carson Kent

Has Attended and Successfully Completed
**Building Inspector Refresher
4 Hour Course**



This course is fully accredited by the Alabama Department of Environmental Management (ADEM) in compliance with TSCA Title II.

Certificate Number: TBI4-321-15188

Expiration Date: 3/4/2022

Alan Caldwell
Training Division Manager

3/4/2021

Exam Date:

03/04/2021

Course Date: