HAZARDOUS BUILDING MATERIALS SURVEY
25951 and 26035 Williamson Lane
Former Fish Processing Facility and Associated Structures
Kasilof, Alaska 99610

Prepared for:

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Division of Parks & Outdoor Recreation,
Design and Construction Section
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ACRONYMS AND ABBREVIATIONS

ACBM	Asbestos-Containing Building Materials
ACM	Asbestos Containing Materials
AHERA	Asbestos Hazard Emergency Response Act
Category I	Asbestos containing packings, gaskets, resilient floor covering and asphalt roofing products containing more than 1% asbestos.
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
DPOR	Division of Parks and Outdoor Research
DNR	Department of Natural Resources
EMI	Environmental Management Inc.
EPA	Environmental Protection Agency
HBMS	Hazardous Building Material Survey
HUD	Department of Housing and Urban Development
IATL	International Asbestos Testing Laboratories
LBP	Lead-Based Paint
mg/cm^2	milligrams per centimeters squared
NESHAP	National Emission Standard for Hazardous Air Pollutants
NIOSH	National Institute of Occupational Safety and Health
NVLAP	National Voluntary Laboratory Accreditation Program
OSHA	Occupational Safety and Health Agency
PACBM	Presumed Asbestos Containing Building Material
PCBs	Polychlorinated Biphenyls
PLM	Polarized Light Microscopy
PPE	Personal Protective Equipment
RACM	Regulated Asbestos-Containing Material
RRP	Renovation, Repair and Painting
sq. ft.	square feet
TCLP	Toxicity Characteristic Leaching Procedure
TSI	Thermal System Insulation

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EXECUTIVE SUMMARY

This report presents the results of Environmental Management, Inc.'s (EMI) Hazardous Building Materials Survey (HBMS) performed on June 17, 2016 on six structures located at 25951 and 26035 Williamson Lane in Kasilof, Alaska. EMI conducted the HBMS under contract with Alaska Department of Natural Resources (DNR), Division of Parks and Outdoor Recreation (DPOR).

A total of 55 asbestos samples (84 layers) were collected. Subsequently, asbestos containing material (ACM) was identified in seven (7) of the 55 samples. See Table 1 and Appendix C for a complete summary of the laboratory results.

Laboratory analyses indicated asbestos to be present above 1% in the following building materials and locations:

- Grey/White Caulk — Fish Processing: Freezer Pad/Bottom
- White/Clear Caulk — Fish Processing: Freezer Pad/Bottom
- White Joint Compound — Cabin: Throughout Gypsum Wall System
- Grey Insulation — Cabin: Basement Chimney
- Brown/Grey Vinyl Sheet Flooring — Cabin: Basement Laundry and Bathroom
- Tan/Grey Vinyl Sheet Flooring — Cabin: Pantry

Lead-Based Paint (LBP) concentrations were measured from 146 data recordings taken with an X-Ray Florescence meter (XRF) on painted surfaces; 10 calibration readings were also recorded. LBP was identified 11 of the surfaces screened. See Appendix D for a complete summary of LBP results. LBP is defined as paint with 1.0 milligrams of lead per square centimeter (mg/cm2) or 0.5% lead by weight. The following painted surfaces met this definition:

Cabin:

- Exterior Window Header (wood; white)
- Exterior Window Trim (wood; brown)
- Interior Hall Door (wood, brown)
- Interior Kitchen Wall Tile (porcelain, glaze)
- Interior Kitchen Door Jamb (wood, white)
- Interior Bath Door (wood, white)
- Interior Pantry Wall (wood, paneling)
- Interior Pantry Wall (wood, paneling)

- Interior 2nd Floor Wall (wood, tan)
- Interior 2nd Floor Wall (wood, tan)
- Basement Door (wood, white)

Ballasts, fluorescent lamps and bulbs, old electrical wires, mechanical motors, freezers, fans and other mechanized equipment were observed inside various structures. These materials are potentially hazardous or contain potentially hazardous substances, and if removed must be handled and disposed of according to federal, state and local regulations.

HAZARDOUS BUILDING MATERIALS SURVEY
25951 and 26035 Williamson Lane
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1.0 PROJECT OVERVIEW

On June 17, 2016 EMI conducted this Hazardous Building Material Survey on six structures located at 25951 and 26035 Williamson Lane in Kasilof, Alaska. The survey included inspection and data collection for asbestos-containing materials (ACM), lead-based paint (LBP), and other hazardous building materials. Subsurface sampling was not included in the scope of work for this project. A comprehensive surface by surface LBP inspection was not performed. Destructive sampling of the single family cabin to be renovated was not performed. EMI conducted this HBMS under contract with Alaska Department of Natural Resources (DNR), Division of Parks and Outdoor Recreation (DPOR).

Qualified and experienced personnel with current Asbestos Hazard Emergency Response Act (AHERA) Building Inspector and Title X Lead Risk Assessor certifications in accordance with U.S. Environmental Protection Agency (EPA) regulations conducted the inspection. Matt Cox of EMI performed the HBMS asbestos and lead inspection/assessment work. The following parties and points of contact are also associated with the project:

Project Manager:
Larry Helgeson, P.E., EMI
Office: 907-272-9336

AHERA Asbestos Inspector and EPA/HUD Lead Risk Assessor:
Matthew Cox, EMI
Office: 907-272-9336

Client Representative:
Kirk Louthan, DPOR
Office: 907-269-8542

This report has been prepared by the staff of EMI for exclusive use by the Client, DPOR, and its designees. Neither EMI, nor any staff member assigned to the investigation has any interest or contemplated interest, financial or otherwise, in the subject or surrounding properties, or in any entity which owns, leases, or occupies the subject or surrounding properties or which may be responsible for environmental issues identified during the course of this investigation, and has no personal bias with respect to the parties involved.

2.0 PROJECT APPROACH AND PROCEDURES

For this HBMS the following structures were inspected for asbestos-containing materials (ACM), lead-based paint (LBP), and other hazardous building materials:

- 25951 Williamson Lane, Kasilof, Alaska,
    1. A-Frame Structure
    2. Wood Pole Barn
- 26035 Williamson Lane, Kasilof Alaska
    1. Fish Processing Facility
    2. Two wood Sheds
    3. Single Family Cabin

Since it was not scheduled for demolition a more limited sampling was performed on the single family cabin. No destructive attempts were made to find hidden suspect materials.

2.1 Asbestos Inspection Method

The asbestos survey was performed in compliance with EPA Asbestos Hazard Emergency Response Act (AHERA) standards, Occupational Safety and Health Administration's (OSHA) sampling and building inspection standards set forth in 29 Code of Federal Regulations (CFR) 1910, 29 CFR 1926, 40 CFR 61, and 40 CFR 763. Materials containing above 1% asbestos detected in any single sample are defined as ACM even if other samples of the same material are found to be asbestos free.

The on-site asbestos inspection included the following elements:

a) Kenai Peninsula Borough building schematics were hand annotated to show sample locations.
b) Bulk samples of suspected ACM were collected using proper methods and techniques to ensure collection of materials from all building material layers.
c) Samples were placed in individual, sealed zip-lock bags. The samples were labeled prior to lab shipment.
d) The location of each sample and a brief description (i.e. color, use, etc.) was recorded on a field sample log with the location also noted on drawings.
e) Chain of custody documentation was completed and the samples prepared and packaged for laboratory handling. Samples were submitted to an EPA-approved laboratory, for polarized light microscopy (PLM) analysis.

2.2 Lead-Based Paint Inspection Method

The LBP testing methods meet the requirements of the EPA and the Department of Housing and Urban Development (HUD) to identify if the paint is considered LBP. LBP is defined as any paint or other coating with lead concentrations greater than 1 mg/cm2, or 0.5% (mass of lead per mass of material) by laboratory analysis, per Title X of the 1992 Housing and Community Development Act. Paint with lower concentrations of lead may be a health hazard or OSHA compliance concern if mishandled or disturbed by cutting, torching, or grinding. A Niton XLp 303 XRF was used to screening for the presence of LBP on representative surfaces.

2.3 Other Hazardous Building Materials

The structures were visually inspected for other hazardous building materials. The inspection included inventorying building materials such as florescent light fixtures with mercury vapor bulbs, mercury heating switches, radioactive fire exit signs, and PCB ballasts.

2.4 Project Laboratory

The project laboratory used for asbestos analysis was International Asbestos Testing Laboratories (IATL) of Mt. Laurel, NJ, an accredited National Voluntary Laboratory Accreditation Program (NVLAP) laboratory. Collected materials samples were analyzed using PLM in accordance with EPA guidance.

3.0 SURVEY RESULTS

The HBMS field work was performed on June 17, 2016. The survey was conducted in accordance with relevant CFR regulatory provisions for commercial/residential buildings and was documented by photographs, field notes and figures.

Data recorded during the HBMS has been segregated into the following three groups:

- Suspect materials that may be ACM,
- Paints and coatings suspected of being LBP and
- Other hazardous building materials

3.1 Asbestos

A total of 55 asbestos samples (84 layers) were collected. ACM was identified in seven (7) of the 55 samples (see Table 1 and the laboratory results in Appendix C). Data results indicate the following building materials contain asbestos at concentrations greater than 1%.

<u>ACM Building Materials (see Table 1, Appendix A and Appendix C for more details)</u>

Fish Processing Facility	Estimated Quantity of ACBM
• Grey/White Caulk (category II)	<1000 sq. ft.
• White/Clear Caulk (category II)	<1000 sq. ft.

Single Family Cabin	Estimated Quantity of ACBM
• White Joint Compound (category II)	<4000 sq. ft.
• Grey Insulation (RACM)	<100 sq. ft.
• Brown/Grey Vinyl Sheet Flooring(category II)	<500 sq. ft.
• Tan/Grey Vinyl Sheet Flooring (category II)	<500 sq. ft.

Note: White Joint Compound ACBM quantity is a calculation of the gypsum wallboard system.

A composite sample of the Gypsum Wallboard system was analyzed, which included the joint compound. The result for the composite sample was “trace”, indicating asbestos was detected, but at a concentration less than 1%. Since the result is <1%, EPA regulations do not apply including those regulations pertaining to disposal. EPA’s requirement for a 10-day notification still applies even though RACM is not present. OSHA Worker protection regulations also still apply, as OSHA does not recognize composite sampling. Composite sampling of joint compound is only allowed under the EPA when it is used as “integral component” of the wall system (used for covering seams and screw heads).

If joint compound is used for decorative texture or similar purposes it is not considered an integral component of the wall system, but as an add-on material which needs to be analyzed and classified independently. Joint compound used as wall texture was not observed during this inspection. However, if joint compound used as an add-on material is identified, EPA regulations will apply to those materials/locations.

Non-ACM Building Materials (see Table, Appendix A and Appendix C for more details)

The results of the asbestos survey found the following building materials NOT to contain asbestos at the locations sampled:

Black Caulk
Black Mastic
Black Roof Material
Black Tar
Black Tar Paper
Blue Carpet
Blue Cove Base
Blue Foam
Blue/Grey Carpet
Brown Cove Base
Brown Fill
Brown Mastic
Brown Paper
Brown Rubber
Brown/Black Wrap
Brown/Black/Pink Wrap / Insulation
Clear Caulk
Clear/Yellow Caulk
Green/Yellow Padding
Grey Cementitious
Grey/Brown Sheetrock
Off-White Mastic
Off-White Tape
Off-White/Tan/Grey Vinyl Sheet Flooring
Off-White/White Vinyl Sheet Flooring
Silver/Tan Metal/ Paper
Tan Insulation
Tan Mastic
Tan Mastic / Paper
Tan Mastic/Leveling Compound
Tan Vinyl Sheet Flooring
Tan/Brown/Black Mastic/Tar Paper
Tan/Off-White Vinyl Sheet Flooring
Tan/Silver Wrap
Tan/White Mastic

White Caulk
White Joint Compound (A-Frame)
White Non-Fibrous
White/Brown Sheetrock
White/Brown Wallboard
Yellow Foam
Yellow Mastic
Yellow Mastic
Yellow/Off-White Vinyl Sheet Flooring
Yellow/Tan Mastic

Hand annotated bulk sample location figures are included in Appendix A as well as ACBM location figures. The complete laboratory results are included in Appendix C. In addition to the materials listed above, the following materials should be assumed to potentially contain asbestos if encountered during demolition or renovation: old electrical panel partitions, old electrical breaker wires, damp proofing materials, fire rated walls and doors, internal components of mechanical equipment (i.e. boilers, generators, fans, HVACs motors, etc.), and any other undocumented materials. Any hidden/undocumented building materials not represented in Table 1 should be assumed to contain asbestos until sampled sufficiently. Any identified materials similar to the above identified ACM located anywhere throughout the same functional space should be managed and handled as containing asbestos.

3.2 Lead-Based Paint

XRF readings were taken from representative painted surfaces. A total 146 XRF data readings and 10 calibration readings were collected from painted surfaces throughout the structures. See the complete LBP XRF Data Table in Appendix D for specific locations. LBP was identified on the following surfaces:

Single Family Cabin:

- Exterior Window Header (wood; white)
- Exterior Window Trim (wood; brown)
- Interior Hall Door (wood, brown)
- Interior Kitchen Wall Tile (porcelain, glaze)
- Interior Kitchen Door Jamb (wood, white)
- Interior Bath Door (wood, white)
- Interior Pantry Wall (wood, paneling)
- Interior Pantry Wall (wood, paneling)
- Interior 2nd Floor Wall (wood, tan)
- Interior 2nd Floor Wall (wood, tan)
- Basement Door (wood, white)

No LBP was identified on any of the other five structures.

3.3 Other Hazardous Building Materials

Structure	PCB Ballast	Mercury Bulbs
A-Frame	1 ballast with "No PCB's label;	2 total 4 foot fluorescent tubs
Pole Barn	1 ballast with "No PCB's label	2 total 4 foot fluorescent tubs
Fish Processing	14 ballasts total without PCB placard or labeled "No PCBs". All ballasts may contain PCBs.	28 total 4 foot fluorescent tubs 2 total 8 foot fluorescent tubs 6 total 24 inch incandescent bulbs
Two Sheds	None	None
Single Family Cabin	4 light fixtures with ballasts	8 total 4 foot fluorescent tubs

Other hazardous material observed during the HBMS are two freezer units that may contain Freon for the roof mounted cooling fans located on the west side of the fish processing facility.

4.0 CONCLUSION AND RECOMMENDATIONS

This report provides a list of hazardous building materials found herein and referenced surveyed locations. Comprehensive results and documentation are included in Appendices A through E. Based on survey findings and in accordance with regulatory requirements, the following recommendations address handling and disposal of the identified materials.

4.1 Asbestos

This report provides a list of asbestos containing building materials found herein and referenced surveyed locations. **Friable ACM was identified in this survey.** The term "friable" is a general description for ACM that is likely to release fibers if it is disturbed. The term "non-friable ACM" refers to ACM where the asbestos fibers are bound in a stiff matrix, such as vinyl, asphalt, or cement, and consequently unlikely to release fibers unless the matrix is damaged. Any friable hidden building materials or materials that will be rendered friable by planned activities that are not represented in this sampling effort should be assumed to be ACM until classification is verified by a qualified person. All friable ACM is regulated and needs to be handled accordingly.

The presence of asbestos in buildings is not a health hazard unless the asbestos fibers are freed from their matrix and become airborne (i.e. capable of being inhaled or ingested). Friable materials present the greatest hazard. Prior to any demolition the ACM should be removed by properly trained Alaska/EPA licensed and certified asbestos contractors using proper work procedures to minimize disturbances and fiber releases in order to protect workers and occupants. EPA must be notified in accordance with National Emission Standard for Hazardous Air Pollutants (NESHAP) guidance before commencement of demolition or abatement activities. This can include individual residential structures if they have been acquired and are part of a large project. See Appendix B for a summary of regulatory requirements.

To ensure the protection of personnel and the environment, all hazardous materials should be removed and recycled or disposed of as a separate waste stream from the general construction debris, if practical. All ACM is required to be placed in a permitted landfill authorized to take asbestos.

4.2 Lead-Based Paint

EPA defines LBP as paint with lead concentrations greater than 1 mg/cm^2 or 0.5% by weight, while OSHA worker protection standards are applicable whenever the presence of lead is detected. As noted, lead-based paint was identified on painted surfaces that were screened (see Section 3.2 and Appendix D). LBP does not present a health hazard unless disturbed, increasing the risk of exposure. Removal procedures that generate an airborne source (i.e. inhalation) and possible ingestion source may present a health risk and/or hazardous waste. Such procedures would require special precautions and compliance with relevant federal, state, and local regulations. Therefore, proper, cautionary work procedures should be observed and implemented to minimize disturbance and dust generation and protect workers and occupants.

4.3 Hazardous Material Handling and Disposal

To ensure the protection of personnel and the environment, all hazardous materials should be removed and recycled or disposed of as a separate waste stream from the general construction debris, if practical. If LBP debris is included with any waste, that waste stream should be tested following the TCLP procedure to confirm it is not hazardous waste. If it is determined to be hazardous waste per the criteria outlined in 40 CFR 261, the material must be managed and disposed of as RCRA waste. Freon used for industrial or commercial purposes must be properly disposed within accordance of federal and state regulations. No venting the refrigerants should occur when disposing of the material.

EPA must be notified in accordance with National Emission Standard for Hazardous Air Pollutants (NESHAP) guidance before commencement of demolition or abatement activities. If ACM and lead are to remain in specific building locations during demolition, special demolition disturbance procedures will be required. See Appendix B for a summary of regulatory requirements.

5.0 SIGNATURE AND QUALIFICATIONS

Environmental Management, Incorporated (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 HBMS 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.

Matthew R. Cox
Environmental Professional

Table 1: ACM and Non-ACM Materials

Sample I.D.	Material Description	Sample Location	Result (%)
ACM Materials			
17777-27	Grey/White Caulk	Ext N - Fish - 010 Freezer Bottom	PC 1.6
17777-28	White/Clear Caulk	Ext N - Fish - 010 Freezer Bottom	PC 2.8
17777-43	White Joint Compound	Basement - Staircase From	PC 1.3
17777-43	Composite	Basement - Staircase From	Trace
17777-44	Grey Insulation	Basement - Chimney	10
17777-45	Brown/Grey Vinyl Sheet Flooring	Basement - Laundry Room	15
17777-47	Tan/Grey Vinyl Sheet Flooring	Pantry - Closet Flowers	20
17777-50	Brown/Grey Vinyl Sheet Flooring	Bath - Laundry Room	20
Non-ACM Materials			
17777-01	Black Tar	Exterior S - A Frame Chimney	None Detected
17777-02	Black Tar Paper	Exterior S - A Frame Roof	None Detected
17777-03	Black Tar Paper	Exterior N - A Frame Roof	None Detected
17777-04	Blue Carpet	LR - A Frame 1st Fl	None Detected
17777-04	Tan Mastic	LR - A Frame 1st Fl	None Detected
17777-05	White/Brown Sheetrock	LR - A Frame 1st Fl	None Detected
17777-06	White/Brown Sheetrock	LR - A Frame 1st Fl Ceiling	None Detected
17777-07	Grey/Brown Sheetrock	LR - A Frame 1st Fl Fireplace	None Detected
17777-08	Tan Vinyl Sheet Flooring	Bath - A Frame 1st	None Detected
17777-08	Yellow Mastic	Bath - A Frame 1st	None Detected
17777-09	White Non-Fibrous	Bath - A Frame 1st Shower Surround	None Detected
17777-09	Yellow/Tan Mastic	Bath - A Frame 1st Shower Surround	None Detected
17777-09	Clear Caulk	Bath - A Frame 1st Shower Surround	None Detected
17777-10	Tan Mastic/Leveling Compound	Hall - A Frame 1st	None Detected
17777-11	Tan Mastic/Leveling Compound	Hall - A Frame 1st	None Detected
17777-12	Off-White/Tan/Grey Vinyl Sheet Flooring	Kitchen - A Frame 1st	None Detected
17777-12	Tan Mastic	Kitchen - A Frame 1st	None Detected
17777-13	White Joint Compound	Staircase Entry - A Frame Loft	None Detected
17777-14	Blue/Grey Carpet	Loft Rm 1 - A Frame Loft	None Detected
17777-14	Tan Mastic / Paper	Loft Rm 1 - A Frame Loft	None Detected
17777-14	Green/Yellow Padding	Loft Rm 1 - A Frame Loft	None Detected
17777-15	White/Brown Sheetrock	Loft Rm 1 Closet - A Frame Loft	None Detected
17777-15	White Joint Compound	Loft Rm 1 Closet - A Frame Loft	None Detected
17777-15	Composite	Loft Rm 1 Closet - A Frame Loft	None Detected
17777-16	White/Brown Sheetrock	Loft Rm 1 Window - A Frame Loft	None Detected
17777-17	Tan/Silver Wrap	Ext E - Fish	None Detected
17777-18	Brown Mastic	Ext S - Fish	None Detected
17777-19	Black Roof Material	Ext W - Fish - Office Roof	None Detected
17777-20	Black Roof Material	Ext W - Fish - Cooker Roof Attic	None Detected
17777-21	Black Roof Material	Ext W - Fish - Meat 1	None Detected
17777-21	Black Roof Material	Ext W - Fish - Meat 1	None Detected
17777-22	Black Roof Material	Ext W - Fish - Meat 2	None Detected
17777-22	Black Roof Material	Ext W - Fish - Meat 2	None Detected
17777-23	Black Tar Paper	Ext N - Fish - Meat 2	None Detected
17777-24	Clear Caulk	Ext N - Fish - Meat 2 Wall	None Detected
17777-24	Black Roof Material	Ext N - Fish - Meat 2 Wall	None Detected
17777-25	Tan/White Mastic	Ext N - Fish - Inside Cooler Wall	None Detected
17777-26	Yellow Foam	Ext N - Fish - Foundation	None Detected

Table 1: ACM and Non-ACM Materials

Sample I.D.	Material Description	Sample Location	Result (%)
17777-26	Grey Cementitious	Ext N - Fish - Foundation	None Detected
17777-28	Yellow Foam	Ext N - Fish - 010 Freezer Bottom	None Detected
17777-29	Black Caulk	Utility Rm - Fish - Roof Stack	None Detected
17777-30	Blue Foam	Meat 1 - Fish - Freezer	None Detected
17777-30	Tan Mastic	Meat 1 - Fish - Freezer	None Detected
17777-31	Tan Mastic	Meat 2 - Fish - Freezer	None Detected
17777-32	Clear/Yellow Caulk	Office - Fish - Wall	None Detected
17777-33	White Caulk	Cooler - Fish - Wall	None Detected
17777-34	Clear/Yellow Caulk	Cooler - Fish - Wall	None Detected
17777-35	Brown/Black/Pink Wrap / Insulation	Cooler - Fish - Wall	None Detected
17777-36	Brown Paper	Cooler - Fish - Wall	None Detected
17777-37	Brown/Black Wrap	Cooler/Utility - Fish - Wall	None Detected
17777-38	Clear/Yellow Caulk	Cooler/Utility - Fish - Wall	None Detected
17777-38	Silver/Tan Metal/ Paper	Cooler/Utility - Fish - Wall	None Detected
17777-39	Brown Fill	Ext W - Cabin - Ext Wall	None Detected
17777-40	Tan Insulation	Ext N - Cabin - Ext Wall	None Detected
17777-41	White Caulk	2nd Floor - E Rm - Window	None Detected
17777-42	Brown Rubber	Basement - Staircase Step	None Detected
17777-42	Black Mastic	Basement - Staircase Step	None Detected
17777-42	Tan Mastic	Basement - Staircase Step	None Detected
17777-43	White/Brown Sheetrock	Basement - Staircase From	None Detected
17777-43	Off-White Tape	Basement - Staircase From	None Detected
17777-46	Tan Vinyl Sheet Flooring	Kitchen	None Detected
17777-46	Yellow Mastic	Kitchen	None Detected
17777-47	Yellow/Off-White Vinyl Sheet Flooring	Pantry - Closet Flowers	None Detected
17777-47	Off-White Mastic	Pantry - Closet Flowers	None Detected
17777-47	Tan/Brown/Black Mastic/Tar Paper	Pantry - Closet Flowers	None Detected
17777-48	Tan/Off-White Vinyl Sheet Flooring	Pantry	None Detected
17777-48	Yellow Mastic	Pantry	None Detected
17777-49	Brown Cove Base	Bath - Cabin	None Detected
17777-49	Off-White Mastic	Bath - Cabin	None Detected
17777-51	White/Brown Sheetrock	NE Room - Office Room	None Detected
17777-52	White/Brown Wallboard	NE Room - Office Room	None Detected
17777-53	White/Brown Wallboard	NE Room - Office Room	None Detected
17777-54	Blue Cove Base	Entry - Cabin Front Entry	None Detected
17777-54	Tan Mastic	Entry - Cabin Front Entry	None Detected
17777-55	Off-White/White Vinyl Sheet Flooring	Entry - Cabin Front Entry	None Detected
17777-55	Tan Mastic	Entry - Cabin Front Entry	None Detected
Note: PC - Point Count			

APPENDIX A

Sample Location and ACBM Figures

Fish Processing Facility

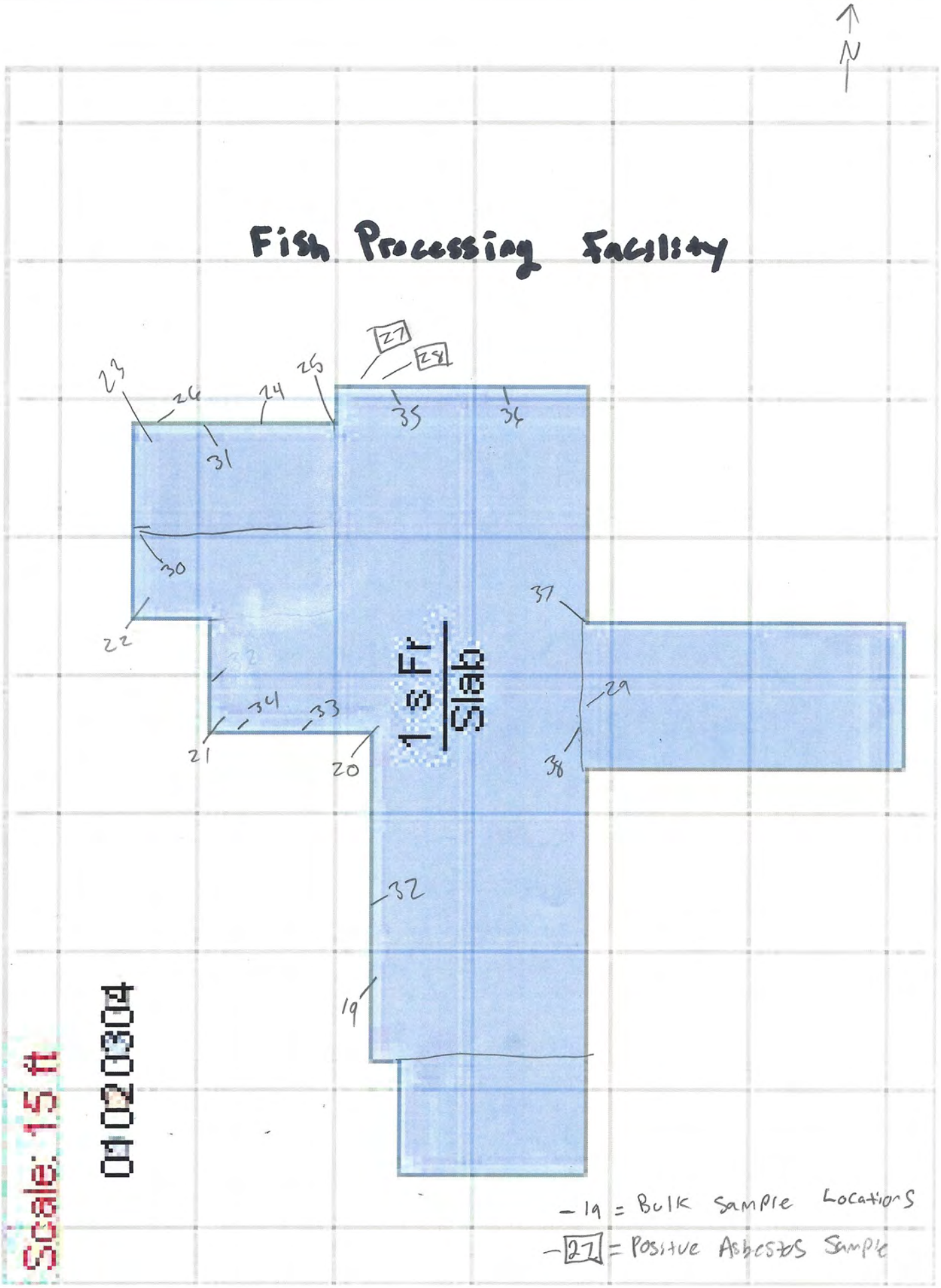


Figure 1A

Fish Processing Facility

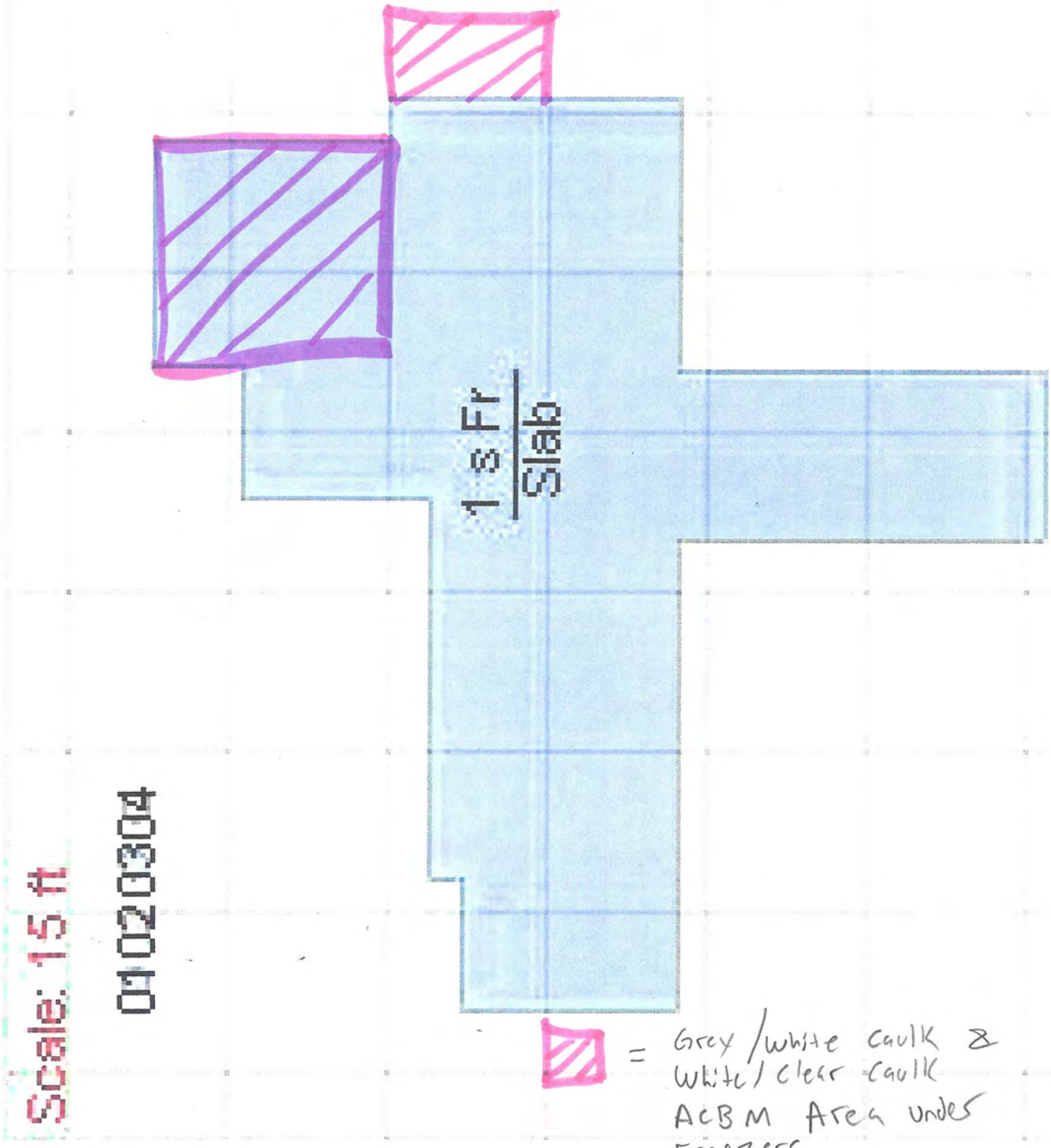


Figure 1B

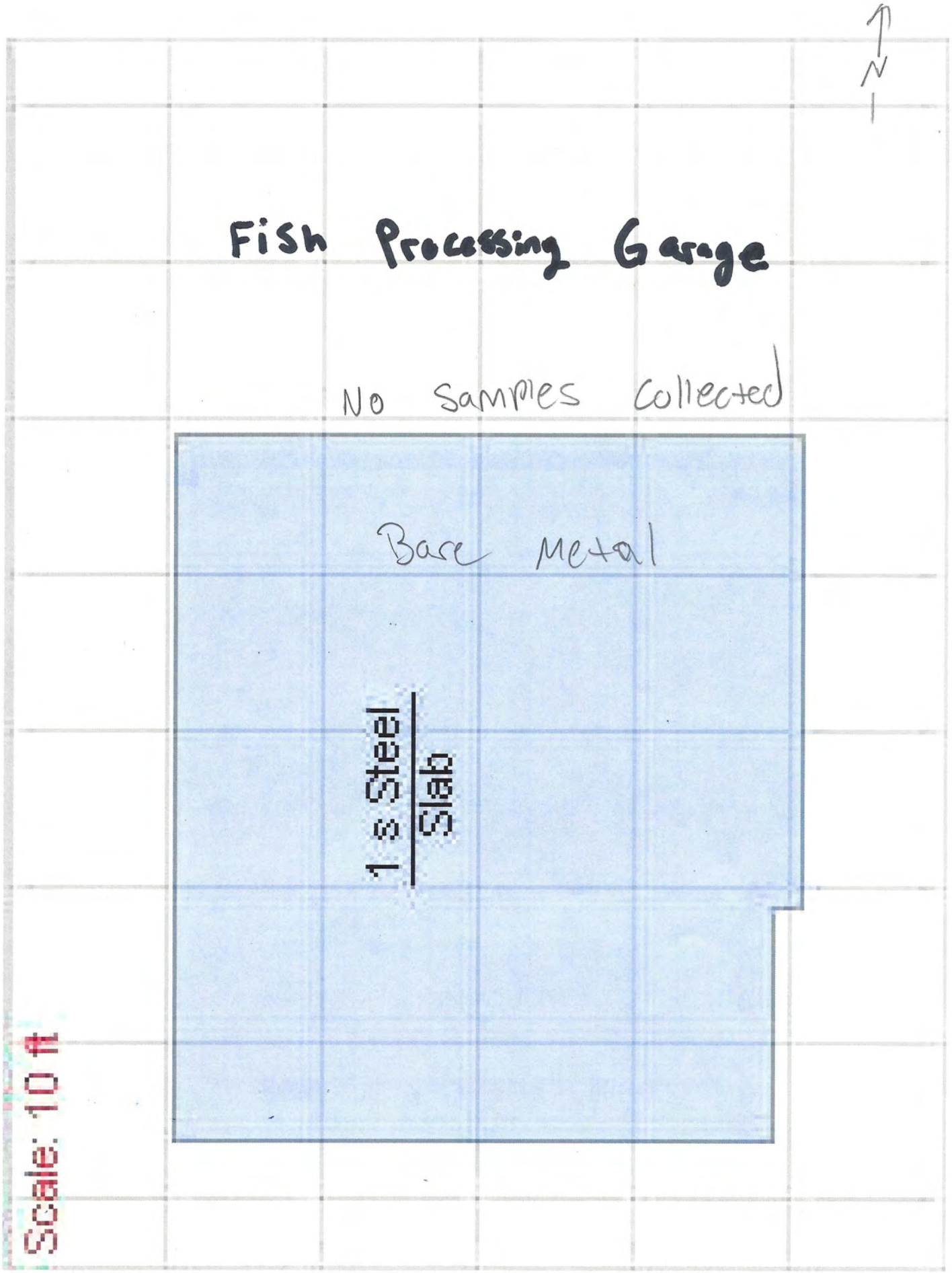
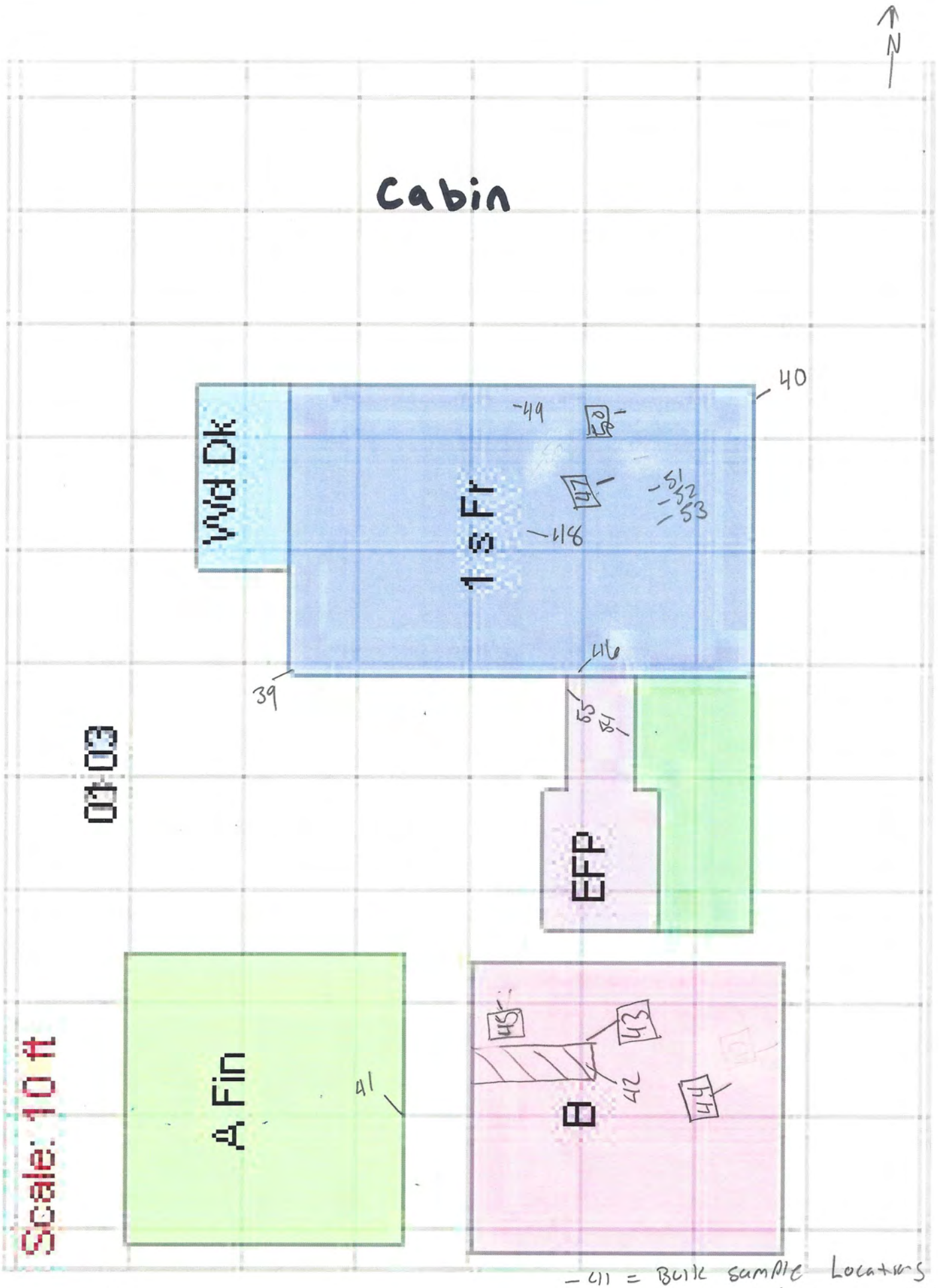

Scale: 10 ft
1 ≤ Steel Slab
Bare Metal
No samples collected
Fish Processing Garage
N

Figure 2



- 41 = Bulk sample Locations
- 44 = positive Asbestos sample

Figure 3A

Cabin

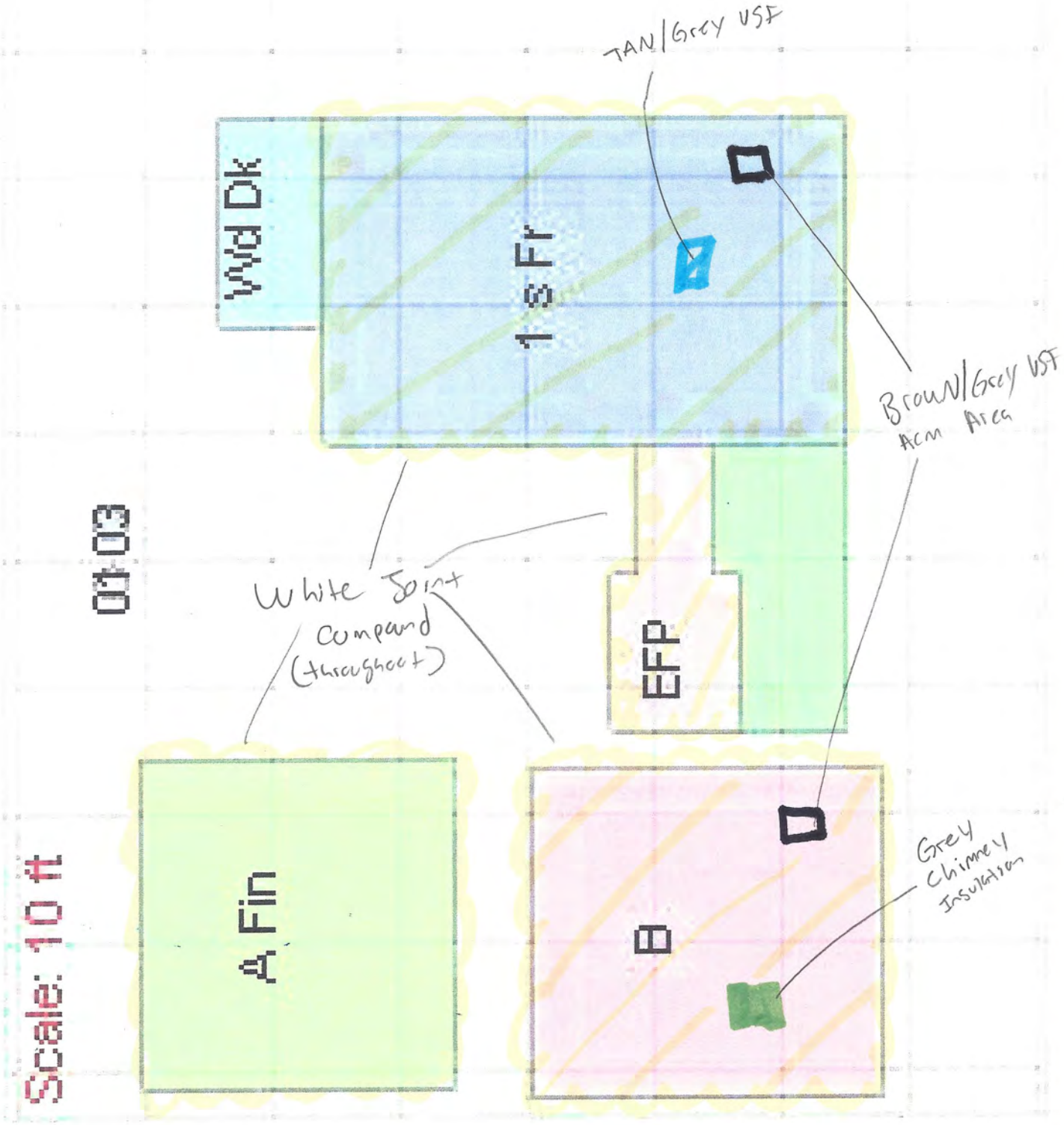


Figure 3B

A-Frame

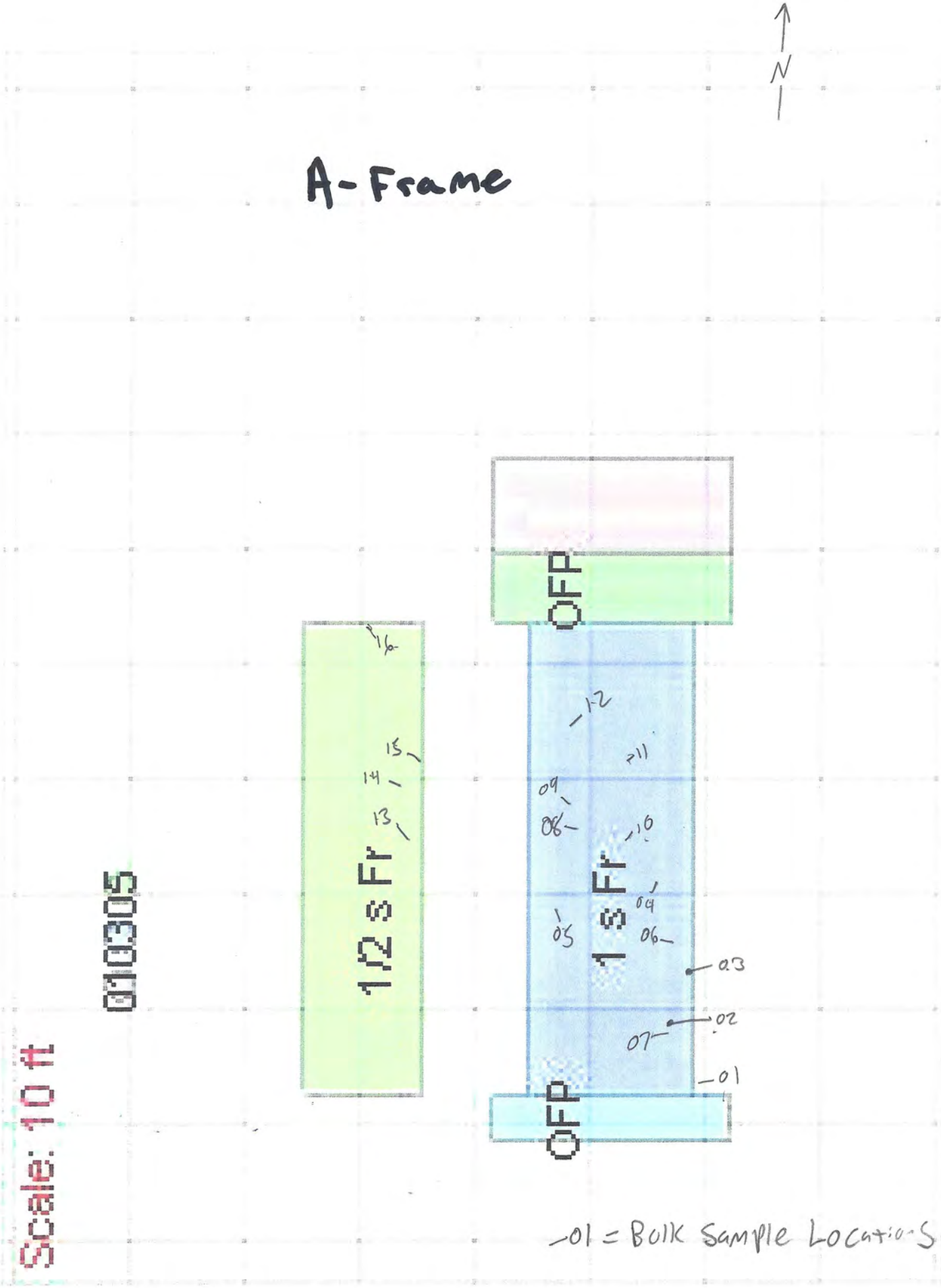


Figure 4

APPENDIX B

Asbestos Regulatory Summary

Asbestos Regulatory Summary

1.0 Alaskan Asbestos Construction Standard Summary

The State of Alaska has adopted Federal OSHA asbestos regulations regarding worker protection. The certification of workers, supervisors and air monitoring technicians is covered under 8 Alaskan Code 61.600-790. Persons performing, directly supervising, or monitoring asbestos abatement work in Alaska must be certified by the state of Alaska. Alaska defines asbestos abatement work as any Class I or II activities. See Section 2.0 for a summary of Federal OSHA asbestos regulations. Note: In Alaska all ACM must be disposed of in accordance with the requirements in 18 AAC 60.

2.0 Federal OSHA – Asbestos Construction Standard Summary (29 CFR 1926.1101)

The construction standard regulates work which involves demolition, removal, alteration, repair, maintenance, installation, cleanup, transportation, disposal, and storage of ACM. This standard was formerly designated 1926.58 redesigned as 1926.1101 and last amendment issued August 24, 2006. Highlights of this standard follow:

- The permissible exposure level (PEL) is 0.1 f/cc as an 8-hour TWA.
- OSHA classified construction activity according the descending degree of risk. Class I work presents the greatest risk potential and Class IV, the lowest.
    - Class I asbestos work means activities involving the removal of thermal system insulation (TSI), surfacing ACM, and presumed asbestos-containing material (PACM).
    - Class II asbestos work means activities involving the removal of ACM which is not Class I. This includes, but is not limited to, wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastics.
    - Class III asbestos work means repair and maintenance operations, where ACM are likely to be disturbed. OSHA has eliminated the term “small-scale short duration projects” but some SSSD projects will fit into this category.
    - Class IV asbestos work means maintenance and custodial activities to clean up dust, waste and debris resulting from Class I, II and III activities.
- Before work subject to this standard is preformed, employers and building owners must identify the presence, location, and quantity of ACM and PACM at the worksite. PACM is defined as thermal system insulation and surfacing material found in buildings built no later than 1980.
    - At any time, an employer/building owner may demonstrate that PACM does not contain asbestos using one of the following:
        - Having a completed inspection according to the requirement of AHERA (40 CFR Part 763, Subpart E);
        - Preforming tests of the material and analysis of the material according to 40 CFR 763.86;
        - The employer/building owner may demonstrate that flooring material including the associated mastic and backing does not contain asbestos, by a determination of an industrial hygienist based upon recognized analytical techniques showing that the material is not ACM.
- Employers must designate a “competent person” who has the qualifications and authority for ensuring worker health and safety.
- On multi-employer worksites, the employer who establishes a regulated area must inform other employers on the site of the nature project, the requirements for regulated areas, and the precautions taken to protect employees onsite.

- The building owners must post asbestos notification signs at the entrance to mechanical rooms or areas in which employees reasonably can be expected to enter and which contain ACM or PACM.
- The following control methods must be utilized regardless of level of exposure(except roofing):
    - Use HEPA equipped vacuum cleaners to collect debris and dust.
    - Wet methods, except when infeasible.
    - Prompt clean-up and proper disposal in leak tight containers.
- The following control methods must be utilized for compliance with the PEL and excursion limit:
    - Local HEPA-filtered exhaust ventilation
    - Enclosure or isolation of processes
    - Ventilation of the regulated area using system with HEPA filters
- Prohibitions include: high-speed disc saws, compressed air, dry sweeping, shoveling or other dry cleanup of asbestos-containing dust and debris and employee rotation.

3.0 U.S. Environmental Protection Agency Regulations (40 CFR 763)

The model accreditation plan and sampling protocols establishing the minimum number of samples for various types of suspect materials are specified in 40 CFR 763. In the U.S. Environmental Protection Agency (USEPA) document, *Guidance for Controlling Asbestos-Containing Materials in Buildings*, EPA 560/5-85-024, June 1985, which is applicable to all asbestos removal operations, USEPA has recommended 0.01 f/cc, the limit of reliable quantification, as clearance limit (after and abatement action) for airborne fiber concentrations as determined by phase contrast microscopy (PCM). *Note: EPA has issued interpretive guidance for joint compound that is ACM. While OHSA still requires the locations of the ACM joint compound to be identified so appropriate control measures and personal protection can be used to protect workers, EPA allows the drywall system to be considered non-ACM if composite samples of the drywall system shows that the drywall system is <1% asbestos.*

4.0 USEPA National Emission Standards for Hazardous Air Pollutants (40 CFR 61)

The USEPA National Emission Standards for Hazardous Air Pollutants (NESHAP) Asbestos Regulations (40 CFR 61, Subpart M) set standards for asbestos mills, manufacturing, demolitions and renovations, spraying, fabricating, insulating materials, and waste disposal. NESHAP regulations must be followed during any maintenance or renovation activities that might disturb ACM. NESHAP regulations are administered by E.P.A.'s Region 10 Office in Seattle, Washington.

NESHAP 40 CFR 61, Subpart A and M, as revised on September 18, 2003, must also be followed during any maintenance, renovation, or demolition activities that might disturb the ACM. This includes notification of E.P.A.'s Region 10 Office at least 10 working days before the activity begins as determined by the type of activity and quantity of ACM involved in the activity. NESHAP defines the following categories of (ACM):

- Regulated asbestos-containing material (RACM) means (a) an friable asbestos material, (b) Category I ACM that has become friable, (c) Category I ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II ACM that has a high probability of becoming crumbled, pulverized, or reduced to powder by the forces expected to act on the material during the course of the renovation or demolition operations.
- Category I nonfriable ACM means asbestos-containing (>1%) packings, gaskets, resilient floor covering and asphalt roofing products.
- Category II nonfriable ACM means all other ACM that is nonfriable.
- Note: Friable means when the material is dry it can be crumbled, pulverized, or reduced to powder by hand pressure.

APPENDIX C

IATL Asbestos Laboratory Results

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

CERTIFICATE OF ANALYSIS

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

Client: ENV164

Report Date: 6/28/2016
Report No.: 512705 - PLM
Project: Kasilof HBMS
Project No.: 17777

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5962291
Client No.: 17777-01
Description: Black Tar
Facility:
Location: Exterior S - A Frame Chimney

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962292
Client No.: 17777-02
Description: Black Tar Paper
Facility:
Location: Exterior S - A Frame Roof

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 80 Cellulose
Percent Non-Fibrous Material: 20

Lab No.: 5962293
Client No.: 17777-03
Description: Black Tar Paper
Facility:
Location: Exterior N - A Frame Roof

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 80 Cellulose
Percent Non-Fibrous Material: 20

Lab No.: 5962294
Client No.: 17777-04
Description: Blue Carpet
Facility:
Location: LR - A Frame 1st Fl

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 90 Synthetic
Percent Non-Fibrous Material: 10

Lab No.: 5962294(L2)
Client No.: 17777-04
Description: Tan Mastic
Facility:
Location: LR - A Frame 1st Fl

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962295
Client No.: 17777-05
Description: White/Brown Sheetrock
Facility:
Location: LR - A Frame 1st Fl

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 12 Cellulose
Percent Non-Fibrous Material: 88

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

Date Received: 6/21/2016
Date Analyzed: 6/28/2016 4:02:39 AM
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Project No.: 17777

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5962296
Client No.: 17777-06
Description: White/Brown Sheetrock
Facility:
Location: LR - A Frame 1st Fl Ceiling

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
10 Cellulose

Percent Non-Fibrous Material:
90

Lab No.: 5962297
Client No.: 17777-07
Description: Grey/Brown Sheetrock
Facility:
Location: LR - A Frame 1st Fl Fireplace

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
18 Cellulose
2 Fibrous Glass

Percent Non-Fibrous Material:
80

Lab No.: 5962298
Client No.: 17777-08
Description: Tan Vinyl Sheet Flooring
Facility:
Location: Bath - A Frame 1st

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
18 Cellulose
2 Fibrous Glass

Percent Non-Fibrous Material:
80

Lab No.: 5962298(L2)
Client No.: 17777-08
Description: Yellow Mastic
Facility:
Location: Bath - A Frame 1st

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 5962299
Client No.: 17777-09
Description: White Non-Fibrous
Facility:
Location: Bath - A Frame 1st Shower Surround

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 5962299(L2)
Client No.: 17777-09
Description: Yellow/Tan Mastic
Facility:
Location: Bath - A Frame 1st Shower Surround

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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

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Client: ENV164

Report Date: 6/28/2016
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Project: Kasilof HBMS
Project No.: 17777

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5962299(L3)
Client No.: 17777-09
Description: Clear Caulk
Facility:
Location: Bath - A Frame 1st Shower Surround

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962300
Client No.: 17777-10
Description: Tan Mastic/Leveling Compound
Facility:
Location: Hall - A Frame 1st

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962301
Client No.: 17777-11
Description: Tan Mastic/Leveling Compound
Facility:
Location: Hall - A Frame 1st

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962302
Client No.: 17777-12
Description: Off-White/Tan/Grey Vinyl Sheet Flooring
Facility:
Location: Kitchen - A Frame 1st

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 20 Cellulose
Percent Non-Fibrous Material: 80

Lab No.: 5962302(L2)
Client No.: 17777-12
Description: Tan Mastic
Facility:
Location: Kitchen - A Frame 1st

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962303
Client No.: 17777-13
Description: White Joint Compound
Facility:
Location: Staircase Entry - A Frame Loft

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

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

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Report Date: 6/28/2016
Report No.: 512705 - PLM
Project: Kasilof HBMS
Project No.: 17777

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5962304
Client No.: 17777-14
Description: Blue/Grey Carpet
Facility:
Location: Loft Rm 1 - A Frame Loft

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 90 Synthetic
Percent Non-Fibrous Material: 10

Lab No.: 5962304(L2)
Client No.: 17777-14
Description: Tan Mastic / Paper
Facility:
Location: Loft Rm 1 - A Frame Loft

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 50 Cellulose
Percent Non-Fibrous Material: 50

Lab No.: 5962304(L3)
Client No.: 17777-14
Description: Green/Yellow Padding
Facility:
Location: Loft Rm 1 - A Frame Loft

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962305
Client No.: 17777-15
Description: White/Brown Sheetrock
Facility:
Location: Loft Rm 1 Closet - A Frame Loft

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 12 Cellulose
Percent Non-Fibrous Material: 88

Lab No.: 5962305(L2)
Client No.: 17777-15
Description: White Joint Compound
Facility:
Location: Loft Rm 1 Closet - A Frame Loft

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962305(L3)
Client No.: 17777-15
Description: Composite
Facility:
Location: Loft Rm 1 Closet - A Frame Loft

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 10 Cellulose
Percent Non-Fibrous Material: 90

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

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Report Date: 6/28/2016
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Project No.: 17777

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5962306
Client No.: 17777-16
Description: White/Brown Sheetrock
Facility:
Location: Loft Rm 1 Window - A Frame Loft

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 12 Cellulose
Percent Non-Fibrous Material: 88

Lab No.: 5962307
Client No.: 17777-17
Description: Tan/Silver Wrap
Facility:
Location: Ext E - Fish

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 85 Cellulose
Percent Non-Fibrous Material: 15

Lab No.: 5962308
Client No.: 17777-18
Description: Brown Mastic
Facility:
Location: Ext S - Fish

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962309
Client No.: 17777-19
Description: Black Roof Material
Facility:
Location: Ext W - Fish - Office Roof

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 20 Fibrous Glass
Percent Non-Fibrous Material: 80

Lab No.: 5962310
Client No.: 17777-20
Description: Black Roof Material
Facility:
Location: Ext W - Fish - Cooker Roof Attic

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 25 Fibrous Glass
Percent Non-Fibrous Material: 75

Lab No.: 5962311
Client No.: 17777-21
Description: Black Roof Material
Facility:
Location: Ext W - Fish - Meat 1

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 25 Fibrous Glass
Percent Non-Fibrous Material: 75

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

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Report Date: 6/28/2016
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Project: Kasilof HBMS
Project No.: 17777

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5962311(L2)
Client No.: 17777-21
Description: Black Roof Material
Facility:
Location: Ext W - Fish - Meat 1

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 50 Fibrous Glass
Percent Non-Fibrous Material: 50

Lab No.: 5962312
Client No.: 17777-22
Description: Black Roof Material
Facility:
Location: Ext W - Fish - Meat 2

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 20 Fibrous Glass
Percent Non-Fibrous Material: 80

Lab No.: 5962312(L2)
Client No.: 17777-22
Description: Black Roof Material
Facility:
Location: Ext W - Fish - Meat 2

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 40 Fibrous Glass
Percent Non-Fibrous Material: 60

Lab No.: 5962313
Client No.: 17777-23
Description: Black Tar Paper
Facility:
Location: Ext N - Fish - Meat 2

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 80 Fibrous Glass
Percent Non-Fibrous Material: 20

Lab No.: 5962314
Client No.: 17777-24
Description: Clear Caulk
Facility:
Location: Ext N - Fish - Meat 2 Wall

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962314(L2)
Client No.: 17777-24
Description: Black Roof Material
Facility:
Location: Ext N - Fish - Meat 2 Wall

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 15 Cellulose
Percent Non-Fibrous Material: 85

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

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Client: ENV164

Report Date: 6/28/2016
Report No.: 512705 - PLM
Project: Kasilof HBMS
Project No.: 17777

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5962315
Client No.: 17777-25
Description: Tan/White Mastic
Facility:
Location: Ext N - Fish - Inside Cooler Wall

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962316
Client No.: 17777-26
Description: Yellow Foam
Facility:
Location: Ext N - Fish - Foundation

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962316(L2)
Client No.: 17777-26
Description: Grey Cementitious
Facility:
Location: Ext N - Fish - Foundation

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962317
Client No.: 17777-27
Description: Grey/White Caulk
Facility:
Location: Ext N - Fish - 010 Freezer Bottom

Percent Asbestos: ***PC 1.6*** *Chrysotile*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 98.4

Lab No.: 5962318
Client No.: 17777-28
Description: White/Clear Caulk
Facility:
Location: Ext N - Fish - 010 Freezer Bottom

Percent Asbestos: ***PC 2.8*** *Chrysotile*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 97.2

Lab No.: 5962318(L2)
Client No.: 17777-28
Description: Yellow Foam
Facility:
Location: Ext N - Fish - 010 Freezer Bottom

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

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

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Project No.: 17777

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5962319
Client No.: 17777-29
Description: Black Caulk
Facility:
Location: Utility Rm - Fish - Roof Stack

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 10 Fibrous Glass
Percent Non-Fibrous Material: 90

Lab No.: 5962320
Client No.: 17777-30
Description: Blue Foam
Facility:
Location: Meat 1 - Fish - Freezer

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962320(L2)
Client No.: 17777-30
Description: Tan Mastic
Facility:
Location: Meat 1 - Fish - Freezer

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962321
Client No.: 17777-31
Description: Tan Mastic
Facility:
Location: Meat 2 - Fish - Freezer

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962322
Client No.: 17777-32
Description: Clear/Yellow Caulk
Facility:
Location: Office - Fish - Wall

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962323
Client No.: 17777-33
Description: White Caulk
Facility:
Location: Cooler - Fish - Wall

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

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

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Project No.: 17777

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5962324
Client No.: 17777-34
Description: Clear/Yellow Caulk
Facility:
Location: Cooler - Fish - Wall

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962325
Client No.: 17777-35
Description: Brown/Black/Pink Wrap / Insulation
Facility:
Location: Cooler - Fish - Wall

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 40 Cellulose, 10 Mineral Wool
Percent Non-Fibrous Material: 50

Lab No.: 5962326
Client No.: 17777-36
Description: Brown Paper
Facility:
Location: Cooler - Fish - Wall

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 98 Cellulose
Percent Non-Fibrous Material: 2

Lab No.: 5962327
Client No.: 17777-37
Description: Brown/Black Wrap
Facility:
Location: Cooler/Utility - Fish - Wall

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 60 Cellulose
Percent Non-Fibrous Material: 40

Lab No.: 5962328
Client No.: 17777-38
Description: Clear/Yellow Caulk
Facility:
Location: Cooler/Utility - Fish - Wall

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962328(L2)
Client No.: 17777-38
Description: Silver/Tan Metal/ Paper
Facility:
Location: Cooler/Utility - Fish - Wall

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 30 Cellulose
Percent Non-Fibrous Material: 70

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

Date Received: 6/21/2016
Date Analyzed: 6/28/2016 4:02:39 AM
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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

CERTIFICATE OF ANALYSIS

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

Client: ENV164

Report Date: 6/28/2016
Report No.: 512705 - PLM
Project: Kasilof HBMS
Project No.: 17777

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5962329
Client No.: 17777-39
Description: Brown Fill
Facility:
Location: Ext W - Cabin - Ext Wall

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 5 Cellulose
Percent Non-Fibrous Material: 95

Lab No.: 5962330
Client No.: 17777-40
Description: Tan Insulation
Facility:
Location: Ext N - Cabin - Ext Wall

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 85 Hair
Percent Non-Fibrous Material: 15

Lab No.: 5962331
Client No.: 17777-41
Description: White Caulk
Facility:
Location: 2nd Floor - E Rm - Window

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962332
Client No.: 17777-42
Description: Brown Rubber
Facility:
Location: Basement - Staircase Step

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962332(L2)
Client No.: 17777-42
Description: Black Mastic
Facility:
Location: Basement - Staircase Step

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962332(L3)
Client No.: 17777-42
Description: Tan Mastic
Facility:
Location: Basement - Staircase Step

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

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

Date Received: 6/21/2016
Date Analyzed: 6/28/2016 4:02:39 AM
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

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

Client: ENV164

Report Date: 6/28/2016
Report No.: 512705 - PLM
Project: Kasilof HBMS
Project No.: 17777

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5962333
Client No.: 17777-43
Description: White/Brown Sheetrock
Facility:
Location: Basement - Staircase From

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
15 Cellulose

Percent Non-Fibrous Material:
85

Lab No.: 5962333(L2)
Client No.: 17777-43
Description: White Joint Compound
Facility:
Location: Basement - Staircase From

Percent Asbestos:
PC 1.3 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.7

Lab No.: 5962333(L3)
Client No.: 17777-43
Description: Off-White Tape
Facility:
Location: Basement - Staircase From

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
90 Cellulose

Percent Non-Fibrous Material:
10

Lab No.: 5962333(L4)
Client No.: 17777-43
Description: Composite
Facility:
Location: Basement - Staircase From

Percent Asbestos:
PC Trace *Chrysotile*

Percent Non-Asbestos Fibrous Material:
30 Cellulose

Percent Non-Fibrous Material:
70

Lab No.: 5962334
Client No.: 17777-44
Description: Grey Insulation
Facility:
Location: Basement - Chimney

Percent Asbestos:
10 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
40 Mineral Wool

Percent Non-Fibrous Material:
50

Lab No.: 5962335
Client No.: 17777-45
Description: Brown/Grey Vinyl Sheet Flooring
Facility:
Location: Basement - Laundry Room

Percent Asbestos:
15 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
10 Cellulose

Percent Non-Fibrous Material:
75

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

Date Received: 6/21/2016
Date Analyzed: 6/28/2016 4:02:39 AM
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

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

Client: ENV164

Report Date: 6/28/2016
Report No.: 512705 - PLM
Project: Kasilof HBMS
Project No.: 17777

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5962336
Client No.: 17777-46
Description: Tan Vinyl Sheet Flooring
Facility:
Location: Kitchen

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
15 Cellulose

Percent Non-Fibrous Material:
85

Lab No.: 5962336(L2)
Client No.: 17777-46
Description: Yellow Mastic
Facility:
Location: Kitchen

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 5962337
Client No.: 17777-47
Description: Yellow/Off-White Vinyl Sheet Flooring
Facility:
Location: Pantry - Closet Flowers

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
15 Cellulose
5 Fibrous Glass

Percent Non-Fibrous Material:
80

Lab No.: 5962337(L2)
Client No.: 17777-47
Description: Off-White Mastic
Facility:
Location: Pantry - Closet Flowers

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 5962337(L3)
Client No.: 17777-47
Description: Tan/Grey Vinyl Sheet Flooring
Facility:
Location: Pantry - Closet Flowers

Percent Asbestos:
20 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
5 Cellulose

Percent Non-Fibrous Material:
75

Lab No.: 5962337(L4)
Client No.: 17777-47
Description: Tan/Brown/Black Mastic/Tar Paper
Facility:
Location: Pantry - Closet Flowers

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
70 Cellulose

Percent Non-Fibrous Material:
30

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

Date Received: 6/21/2016
Date Analyzed: 6/28/2016 4:02:39 AM
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

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

Client: ENV164

Report Date: 6/28/2016
Report No.: 512705 - PLM
Project: Kasilof HBMS
Project No.: 17777

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5962338
Client No.: 17777-48
Description: Tan/Off-White Vinyl Sheet Flooring
Facility:
Location: Pantry

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
10 Cellulose
5 Fibrous Glass

Percent Non-Fibrous Material:
85

Lab No.: 5962338(L2)
Client No.: 17777-48
Description: Yellow Mastic
Facility:
Location: Pantry

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 5962339
Client No.: 17777-49
Description: Brown Cove Base
Facility:
Location: Bath - Cabin

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 5962339(L2)
Client No.: 17777-49
Description: Off-White Mastic
Facility:
Location: Bath - Cabin

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 5962340
Client No.: 17777-50
Description: Brown/Grey Vinyl Sheet Flooring
Facility:
Location: Bath - Laundry Room

Percent Asbestos:
20 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
80

Lab No.: 5962341
Client No.: 17777-51
Description: White/Brown Sheetrock
Facility:
Location: NE Room - Office Room

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
12 Cellulose

Percent Non-Fibrous Material:
88

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

Date Received: 6/21/2016
Date Analyzed: 6/28/2016 4:02:39 AM
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

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

Client: ENV164

Report Date: 6/28/2016
Report No.: 512705 - PLM
Project: Kasilof HBMS
Project No.: 17777

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5962342
Client No.: 17777-52
Description: White/Brown Wallboard
Facility:
Location: NE Room - Office Room

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 25 Cellulose
Percent Non-Fibrous Material: 75

Lab No.: 5962343
Client No.: 17777-53
Description: White/Brown Wallboard
Facility:
Location: NE Room - Office Room

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 25 Cellulose
Percent Non-Fibrous Material: 75

Lab No.: 5962344
Client No.: 17777-54
Description: Blue Cove Base
Facility:
Location: Entry - Cabin Front Entry

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962344(L2)
Client No.: 17777-54
Description: Tan Mastic
Facility:
Location: Entry - Cabin Front Entry

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 5962345
Client No.: 17777-55
Description: Off-White/White Vinyl Sheet Flooring
Facility:
Location: Entry - Cabin Front Entry

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 15 Cellulose
Percent Non-Fibrous Material: 85

Lab No.: 5962345(L2)
Client No.: 17777-55
Description: Tan Mastic
Facility:
Location: Entry - Cabin Front Entry

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

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

Date Received: 6/21/2016
Date Analyzed: 6/28/2016 4:02:39 AM
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Environmental Management Inc.	**Report Date:**	6/28/2016
	206 E. Fireweed LaneSuite 201	**Report No.:**	512705 - PLM
	Anchorage AK 99503	**Project:**	Kasilof HBMS
		Project No.:	17777
Client:	ENV164		

Appendix to Analytical Report

Customer Contact: Matt Cox
Analysis: US EPA 600, R93-116

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

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: cdavis@iatl.com
iATL Account Representative: Pete Lesniak
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

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

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

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

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

Information Pertinent to this Report:

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

Certifications:

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

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

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

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

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

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

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Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Environmental Management Inc.	**Report Date:**	6/28/2016
	206 E. Fireweed LaneSuite 201	**Report No.:**	512705 - PLM
	Anchorage AK 99503	**Project:**	Kasilof HBMS
		Project No.:	17777
Client:	ENV164		

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

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

Disclaimers / Qualifiers:

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

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

Recommendations for Vermiculite Analysis:

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

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

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

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

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

1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

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

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

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

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

LOQ, Limit of Quantitation estimates for mass and volume analyses.
*With advance notice and confirmation by the laboratory.
**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

iATL INTERNATIONAL
Asbestos Testing Laboratories

9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
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Chain of Custody

–Bulk Asbestos –

Contact Information

Client Company:	EMI	**Project Number:**	17777
Office Address:	206. E. Fireweed Lane Suite 201	**Project Name:**	Kasilof HBMS
City, State, Zip:	Anchorage AK 99501	**Primary Contact:**	Matt Cox
Fax Number:	(907) 272-4159	**Office Phone:**	(907) 272-9336
Email Address:	mcox@emi-alaska.com	**Cell Phone:**	

PLM Instructions:

- ■ PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- ☐ PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- ☐ PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- ☐ PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- ☐ PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- ☐ TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009

E-MAILED
Jun 6 '16

- ■ PLM: Point Counting
  - ☐ PC: via ELAP 198.1
  - ■ PC: 400 Points
  - ☐ PC: 800 Points *
  - ☐ PC: 1600 Points *
- ■ PLM: Instructions for Multi-Layered Samples
  - ■ Analyze and Report All Separable Layers per EPA 600
  - ■ Report Composite for Drywall Systems per NESHAP
  - ☐ Report All Layers and Composite Where Applicable
  - ☐ Only Analyze and Report Specifically Noted Layer
- ☐ PLM: Analyze Until Positive (Positive Stop)
  - ☐ AUP: by Homogenous Area as Noted
  - ☐ AUP: by Material Type as Noted
- ☐ PLM: NOB via 198.6
  - ☐ PLM: Friable via EPA 600 2.3
  - ☐ If <1% by PLM, to TEM via 198.4 *
  - ☐ If <1% by PLM, Hold for Instructions
- ☐ PLM: Non-Building Material*,** (Dust, Wipe, Tape)
  - ☐ Soil or Vermiculite Analysis*
  - ☐ CARB 435

Special Instructions: _____

** Additional charge and turnaround may be required* *** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory*

Turnaround Time

Preliminary Results Requested Date: _____ Specific date / time ☐ Verbal ☐ Email ☐ Fax

☒ 10 Day ☐ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day* ☐ 12 Hour** ☐ 6 Hour** ☐ RUSH**

* End of ~~next~~ business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

Chain of Custody

Relinquished (Name/Organization):	Matt Cox / EMI	Date: 6/2/16	Time: 0826
Received (Name / iATL):		Date:	Time:
Sample Login (Name / iATL):	kelo 62316	Date:	Time:
Analysis(Name(s) / iATL):	CS 6-28-16	Date:	Time:
QA/QC Review (Name / iATL):	[illegible]	Date: 6-28-16	Time:
Archived / Released: _____	QA/QC InterLAB Use: _____	Date:	Time:

RECEIVED
JUN 21 2016

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ASBESTOS TESTING LABORATORIES

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Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Sample Log

–Bulk Asbestos –

Client: EMI Project: 17777 Kasilof HBMS

Sampling Date/Time: 06/17/16 - 1030 – 1230

Bulk Asbestos Sample Log

Client Sample #	iATL #	Location/Description	Notes
17777-01	5962291	Exterior (S): Black tar	A-Frame Chimney penetration
-02	5962292	Exterior (S): Black tar paper	A-Frame Roof: 2 layers
-03	5962293	Exterior (N): Black tar paper	" "
-04	5962294	L.R.: Tan Mastic/Blue Carpet	A-Frame 1st FL
-05	5962295	L.R.: Gypsum wall Board	" "
-06	5962296	L.R.: Gypsum wallBoard	A-Frame 1st FL Ceiling
-07	5962297	L.R.: Cement Board gray	A-Frame 1st FL Fireplace
-08	5962298	Bath: Off-white VSF w/tan Mastic	A-Frame 1st
-09	5962299	Bath: Tan Mastic/White Caulk	A-Frame 1st Shower Surround
-10	5962300	Hall: Tan Mastic	A-Frame 1st
-11	5962301	"	"
-12	5962302	Kitchen: Gray VSF w/tan Mastic	" "
-13	5962303	Staircase Entry: White Joint compound	A-Frame Loft
-14	5962304	Loft Rm 1: Tan Mastic/Tan Paper Clear glue	
-15	5962305	Loft Rm 1 Closet: Gypsum wallboard Joint compound	
17777-16	5962306	Loft Rm 1 Window: Gypsum wallboard	

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Sample Log

–Bulk Asbestos –

Client: EMI Project: 17777 Kasilof HBMS

Sampling Date/Time: 6/17/16 - 1400 - 1600

Bulk Asbestos Sample Log

Client Sample #	iATL #	Fish Processing Location/Description	Notes
17777-17	5962307	Ext.(E): Silver paper/silver caulk/red caulk	Fish: Metal siding Backing
-18	5962308	Ext.(S): Brown mastic	Fish: Foam Insulation
-19	5962309	Ext.(W): Black paper/tar/shingle	Fish: Office Roof
-20	5962310	Ext.(W): " "	Fish: Cooler Roof (Attic)
-21	5962311	Ext.(W): " "	Fish: Meat 1
-22	5962312	Ext.(W): " "	Fish: Meat 2
-23	5962313	Ext.(N): " "	" "
-24	5962314	Ext.(N): Black tar/clear caulk.	Fish: Meat 2 Wall
-25	5962315	Ext.(N): Black mastic/Tan mastic	Fish: Inside cooler Wall Blue foam
-26	5962316	Ext.(N): Tan caulk/black cementitious	Fish: Insulation white foam.
-27	5962317	Ext.(N): White caulk	Fish: All freezer bottom
-28	5962318	Ext.(N): White caulk/Tan caulk/Black caulk	" "
-29	5962319	Utility Rm: Black caulk/tape	Fish: Roof stack
-30	5962320	Meat 1: Tan caulk	Fish: Blue foam Freezer Insulation
-31	5962321	Meat 2: Tan caulk	Fish: " "
17777-32	5962322	Office: Clear caulk	Fish: Wall Flashing.

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Asbestos Testing Laboratories

9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Sample Log

–Bulk Asbestos –

Client: EMI Project: 17777 Kasilof HBMS

Sampling Date/Time: 6/17/16 – 1600 to 1840

Bulk Asbestos Sample Log

Client Sample #	iATL #	Location/Description	Notes
17777 - 33	5962323	Coolers: white caulk	Fish: wall
-34	5962324	Coolers: Clear caulk	
-35	5962325	Coolers: Black paper (UG)	
-36	5962326	Coolers: Tan paper	
-37	5962327	Coolers/utility: Silver/Black papers	
-38	5962328	Cooler/utility: clear caulk/ tan paper glue	
-39	5962329	Ext (W): Pink fibers Block	Cabin: Ext. wall packing
-40	5962330	Ext: (W): Tan pink Insulate	Cabin: " "
-41	5962331	2nd Floor: White mastic	E. Rm: window
-42	5962332	Basement: Brown USF/ Black mastic Tan caulk	Staircase step
-43	5962333	Basement: Gypsum wallboard	Staircase from
-44	5962334	Basement: ~~Gray~~ Gray packing	Chimney
-45	5962335	Basement: Gray USF	Laundry Rm Brown
-46	5962336	Kitchen: Gray USF Tan mastic	Square pattern with Brown lines
-47	5962337	Pantry: Yellow USF/Gray USF Black mastic/Tan mastic	Closet floors:
17777-48	5962338	Pantry: Silver USF/Tan mastic	Same as -46

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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Sample Log

–Bulk Asbestos –

Client: EMI Project: 17777 Kasilof HBMS

Sampling Date/Time: 6/17/16 -1600 to 1640

Bulk Asbestos Sample Log

Client Sample #	iATL #	Location/Description	Notes
17777-49	5962339	Bath: Brown CB white glue	Cabin
50	5962340	Bath: Brown VSF/tan mastic	Same as -45
51	5962341	NE Room: Gypsum wall board	Brick Bed/office Room w/wood plank floor
52	5962342		
53	5962343		
54	5962344	Entry: Blue CB/tan mastic	Cabin Front Entry
17777-55	5962345	Entry: white VSF/tan mastic	
56			
57			
58			
59			
60			

APPENDIX D

XRF Lead Results Data Table

Header: HBMS XRF Lead Testing
Assessment Date: June 17, 2016
Former Fish Processing Plant and Associated Structures -26035 Williamson Lane, Kasilof, AK 99610
A-Frame Cabin -25951 Williamson Lane, Kasilof, AK 99610

Inspector Signature_____

No.	Site	Room	Side	Substrate	Component	Feature	Color	Results	PbC	PbC Error
1	Inst. Calibration								4.3	0
2	Calibration							**Positive**	1.2	0.2
3	Calibration							**Positive**	1.2	0.1
4	Calibration							**Positive**	1.1	0.1
5	A-Frame	Pole Barn	N	Wood	Doorway	Door	White	Negative	< LOD	0.1
6	A-Frame	Pole Barn	N	Wood	Doorway	Door	White	Negative	< LOD	0.14
7	A-Frame	Exterior	E	Metal	Roof	Fascia	Green	Negative	< LOD	0.03
8	A-Frame	Exterior	E	Wood	Deck	Landing	Stain	Negative	< LOD	0.06
9	A-Frame	Exterior	E	Wood	Doorway	Door	Stain	Negative	< LOD	0.09
10	A-Frame	Exterior	E	Wood	Doorway	Frame	Brown	Negative	< LOD	0.05
11	A-Frame	Kitchen	N	Sheetrock	Wall	Mid. Wall	Red	Negative	< LOD	0.03
12	A-Frame	Hall	Down	Wood	Wall	Floor	Red	Negative	< LOD	0.11
13	A-Frame	Bath	W	Sheetrock	Wall	Mid. Wall	White	Negative	< LOD	0.03
14	A-Frame	Living	Up	Sheetrock	Wall	Ceiling	White	Negative	< LOD	0.05
15	A-Frame	Living	N	Wood	Wall	Mid. Wall	Paneling	Negative	< LOD	0.03
16	A-Frame	Living	W	Wood	Doorway	Door	Stain	Negative	< LOD	0.03
17	A-Frame	Living	W	Wood	Doorway	Trim	Brown	Negative	< LOD	0.06
18	A-Frame	Living	W	Metal	Window	Sash	Black	Negative	< LOD	0.03
19	A-Frame	Loft	W	Metal	Doorway	Door	Grey	Negative	< LOD	0.03
20	A-Frame	Loft	W	Wood	Doorway	Door	Stain	Negative	< LOD	0.03
21	A-Frame	Loft	E	Sheetrock	Wall	Mid. Wall	Teal	Negative	< LOD	0.03
22	A-Frame	Loft	E	Wood	Window	Sash	Teal	Negative	< LOD	0.03
23	A-Frame	Loft	S	Sheetrock	Wall	Mid. Wall	Tan	Negative	< LOD	0.03
24	Processing Shed (s)	Exterior	A	Wood	Doorway	Frame	Blue	Negative	< LOD	0.03
25	Processing Shed (s)	Exterior	A	Wood	Ext. Wall	Siding	White	Negative	< LOD	0.04
26	Processing Shed (s)	Exterior	D	Wood	Ext. Wall	Siding	White	Negative	< LOD	0.04
27	Processing Shed (s)	Exterior	D	Wood	Window	Sill	Blue	Negative	< LOD	0.03
28	Processing Shed (s)	Exterior	D	Wood	Ext. Wall	Lwr. Trim	White	Negative	< LOD	0.03
29	Processing Shed (s)	Exterior	B	Wood	Roof	Rafter Tail	Blue	Negative	< LOD	0.03
30	Processing Shed (e)	Exterior	A	Wood	Doorway	Door	White	Negative	< LOD	0.03
31	Processing Shed (e)	Exterior	A	Wood	Doorway	Frame	Blue	Negative	< LOD	0.05
32	Processing Shed (e)	Exterior	B	Wood	Roof	Rafter Tail	Blue	Negative	< LOD	0.03
33	Processing Shed (e)	Exterior	B	Wood	Ext. Wall	Siding	White	Negative	< LOD	0.04
34	Processing Shed (e)	Exterior	B	Wood	Ext. Wall	Lwr. Trim	Grey	Negative	< LOD	0.03
35	Processing Shed (e)	Exterior	D	Wood	Roof	Rafter Tail	Blue	Negative	< LOD	0.09
36	Processing Facility	Exterior	S	Metal	Ext. Wall	Siding	Tan	Negative	< LOD	0.04
37	Processing Facility	Exterior	S	Metal	Ext. Wall	Trim	Brown	Negative	< LOD	0.03
38	Processing Facility	Exterior	S	Wood	Roof	Fascia	Brown	Negative	< LOD	0.03
39	Processing Facility	Exterior	S	Wood	Roof	Rafter Tail	Brown	Negative	< LOD	0.03
40	Processing Facility	Exterior	S	Wood	Ext. Wall	Siding	Brown	Negative	< LOD	0.03
41	Processing Facility	Exterior	S	Wood	Roof	Fascia	Blue	Negative	< LOD	0.05
42	Processing Facility	Exterior	S	Wood	Roof	Rafter Tail	White	Negative	< LOD	0.03
43	Processing Facility	Exterior	W	Wood	Doorway	Frame	White	Negative	< LOD	0.03
44	Processing Facility	Exterior	W	Wood	Roof	Rafter Tail	Blue	Negative	< LOD	0.03
45	Processing Facility	Exterior	W	Metal	Ext. Wall	Siding	White	Negative	< LOD	0.07
46	Processing Facility	Exterior	S	Metal	Roof	Fascia	Blue	Negative	< LOD	0.07
47	Processing Facility	Exterior	N	Metal	Ext. Wall	Siding	White	Negative	< LOD	0.22
48	Processing Facility	Exterior	N	Wood	Ext. Wall	Siding	Red	Negative	< LOD	0.04
49	Processing Facility	Exterior	E	Wood	Ext. Wall	Siding	White	Negative	< LOD	0.03
50	Processing Facility	Exterior	E	Wood	Deck	Landing	Blue	Negative	< LOD	0.04

Header: HBMS XRF Lead Testing
Assessment Date: June 17, 2016
Former Fish Processing Plant and Associated Structures -26035 Williamson Lane, Kasilof, AK 99610
A-Frame Cabin -25951 Williamson Lane, Kasilof, AK 99610

Inspector Signature_____

No.	Site	Room	Side	Substrate	Component	Feature	Color	Results	PbC	PbC Error
51	Processing Facility	Exterior	E	Wood	Deck	Post	Blue	Negative	< LOD	0.22
52	Processing Facility	Exterior	E	Wood	Doorway	Jamb	White	Negative	< LOD	0.03
53	Processing Facility	Exterior	E	Wood	Ext. Wall	Back Siding	White	Negative	< LOD	0.03
54	Processing Facility	Exterior	E	Metal	Ext. Wall	Siding	Tan	Negative	< LOD	0.03
55	Processing Facility	Exterior	E	Wood	Bay Door	Jamb	White	Negative	< LOD	0.03
56	Processing Facility	Exterior	E	Wood	Bay Door	Door	White	Negative	< LOD	0.03
57	Processing Facility	Warm Storage	N	Metal	Wall	Mid. Wall	Tan	Negative	< LOD	0.03
58	Processing Facility	Garage	E	Wood	Doorway	Frame	White	Negative	< LOD	0.03
59	Processing Facility	Garage	E	Metal	Support Beam	Beam	Grey	Negative	< LOD	0.03
60	Processing Facility	Garage	W	Wood	Doorway	Header	Blue	Negative	< LOD	0.03
61	Processing Facility	Storage #1	Up	Wood	Wall	Ceiling	White	Negative	< LOD	0.03
62	Processing Facility	Storage #2	Up	Wood	Wall	Ceiling	White	Negative	< LOD	0.03
63	Processing Facility	Office Area	W	Metal	Doorway	Door	White	Negative	< LOD	0.04
64	Processing Facility	Office Area	Up	Wood	Wall	Ceiling	White	Negative	< LOD	0.04
65	Processing Facility	Freezer Stage	Up	Wood	Wall	Ceiling	White	Negative	< LOD	0.15
66	Processing Facility	Freezer Stage	S	Wood	Wall	Upr. Wall	White	Negative	< LOD	1.69
67	Processing Facility	Freezer Stage	S	Metal	Electric Box	Box	White	Negative	< LOD	0.03
68	Processing Facility	Freezer Stage	E	Wood	Wall	Mid. Wall	White	Negative	< LOD	0.03
69	Processing Facility	Freezer Stage	E	Wood	Doorway	Frame	White	Negative	< LOD	0.03
70	Processing Facility	Meat #1	W	Wood	Wall	Mid. Wall	White	Negative	< LOD	0.1
71	Processing Facility	Meat #1	W	Metal	Doorway	Door	White	Negative	< LOD	0.43
72	Processing Facility	Meat #2	W	Metal	Doorway	Door	White	Negative	< LOD	0.03
73	Processing Facility	Meat #2	W	Metal	Wall	Mid. Wall	White	Negative	< LOD	0.03
74	Processing Facility	Utilities Area	E	Metal	Wall	Mid. Wall	White	Negative	< LOD	0.56
75	Processing Facility	Utilities Area	E	Wood	Doorway	Frame	White	Negative	< LOD	0.03
76	Processing Facility	Utilities Area	W	Wood	Wall	Upr. Wall	White	Negative	< LOD	0.03
77	Processing Facility	Utilities Area	W	Wood	Doorway	Jamb	White	Negative	< LOD	0.03
78	Processing Facility	Bath	S	Wood	Doorway	Door	White	Negative	< LOD	0.04
79	Processing Facility	Bath	Down	Concrete	Wall	Floor	Brown	Negative	< LOD	0.03
80	Processing Facility	Bath	N	Wood	Wall	Mid. Wall	White	Negative	< LOD	0.03
81	Processing Facility	Bath	Up	Wood	Wall	Ceiling	White	Negative	< LOD	0.03
82	Calibration							**Positive**	1.1	0.1
83	Inst. Calibration								4.4	0
84	Calibration							**Positive**	1.2	0.2
85	Calibration							**Positive**	1	0.1
86	Calibration							**Positive**	1	0.1
87	Cabin	Exterior	E	Wood	Window	Sill	White	Negative	< LOD	0.06
88	Cabin	Exterior	E	Wood	Window	Frame	White	Negative	< LOD	0.39
89	Cabin	Exterior	E	Wood	Deck	Landing	Red	Negative	< LOD	0.05
90	Cabin	Exterior	E	Wood	Doorway	Jamb	White	Negative	< LOD	0.04
91	Cabin	Exterior	E	Wood	Roof	Fascia	White	Negative	< LOD	0.11
92	Cabin	Exterior	E	Wood	Ext. Wall	Siding	Brown	Negative	< LOD	0.46
93	**Cabin**	**Exterior**	**E**	**Wood**	**Window**	**Header**	**White**	**Positive**	**< LOD**	**1.66**
94	Cabin	Exterior	E	Wood	Roof	Rafter Tail	White	Negative	< LOD	0.48
95	Cabin	Exterior	E	Wood	Roof	Soffit	White	Negative	< LOD	0.04
96	Cabin	Exterior	E	Wood	Window	Header	White	Negative	< LOD	0.6
97	Cabin	Exterior	S	Wood	Window	Frame	White	Negative	< LOD	0.03
98	Cabin	Exterior	S	Wood	Ext. Wall	Skirting	Brown	Negative	< LOD	0.04
99	Cabin	Exterior	S	Wood	Window	Frame	White	Negative	< LOD	0.04
100	Cabin	Exterior	S	Wood	Window	Sill	White	Negative	< LOD	0.75

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Assessment Date: June 17, 2016
Former Fish Processing Plant and Associated Structures -26035 Williamson Lane, Kasilof, AK 99610
A-Frame Cabin -25951 Williamson Lane, Kasilof, AK 99610

Inspector Signature_____

No.	Site	Room	Side	Substrate	Component	Feature	Color	Results	PbC	PbC Error
101	**Cabin**	**Exterior**	**S**	**Wood**	**Window**	**Trim**	**Brown**	**Positive**	**2.1**	**0.8**
102	Cabin	Exterior	S	Wood	Ext. Wall	Foundation	Brown	Negative	0.29	0.13
103	Cabin	Exterior	W	Wood	Ext. Wall	Log Siding	Stain	Negative	< LOD	0.3
104	Cabin	Exterior	W	Wood	Window	Header	White	Negative	< LOD	0.47
105	Cabin	Exterior	W	Wood	Window	Lwr. Frame	White	Negative	< LOD	0.65
106	Cabin	Exterior	W	Wood	Deck	Landing	Brown	Negative	< LOD	0.04
107	Cabin	Exterior	N	Wood	Window	Sash	White	Negative	< LOD	0.6
108	Cabin	Exterior	N	Wood	Window	Frame	White	Negative	< LOD	0.46
109	Cabin	Exterior	N	Wood	Window	Sash	White	Negative	< LOD	0.22
110	Cabin	Exterior	N	Wood	Window	Frame	White	Negative	< LOD	0.14
111	Cabin	Exterior	N	Wood	Window	Frame	White	Negative	< LOD	0.1
112	Cabin	Office	Up	Sheetrock	Wall	Ceiling	White	Negative	< LOD	0.03
113	Cabin	Hall	W	Wood	Window	Sill	White	Negative	< LOD	0.32
114	Cabin	Hall	N	Wood	Doorway	Jamb	Brown	Negative	< LOD	0.51
115	**Cabin**	**Hall**	**N**	**Wood**	**Doorway**	**Door**	**Brown**	**Positive**	**1.7**	**0.6**
116	Cabin	Kitchen	S	Wood	Window	Sill	Stain	Negative	< LOD	0.36
117	**Cabin**	**Kitchen**	**W**	**Concrete**	**Wall**	**Tile**	**White**	**Positive**	**1.7**	**0.6**
118	Cabin	Kitchen	N	Wood	Doorway	Frame	Brown	Negative	< LOD	0.08
119	**Cabin**	**Kitchen**	**E**	**Wood**	**Doorway**	**Jamb**	**White**	**Positive**	**< LOD**	**3**
120	Cabin	Room 1	E	Wood	Window	Sill	White	Negative	0.5	0.2
121	Cabin	Room 1	S	Wood	Window	Sash	White	Negative	< LOD	0.63
122	Cabin	Room 1	Up	Sheetrock	Wall	Ceiling	White	Negative	< LOD	0.03
123	Cabin	Room 1	N	Sheetrock	Wall	Upr. Wall	Paper	Negative	< LOD	0.11
124	Cabin	Room 1	N	Wood	Wall	Mid. Wall	Paper	Negative	< LOD	0.03
125	Cabin	Room 1	N	Wood	Doorway	Jamb	White	Negative	< LOD	0.6
126	Cabin	Room 2	Down	Wood	Wall	Floor	Brown	Negative	< LOD	0.27
127	Cabin	Room 2	Up	Sheetrock	Wall	Ceiling	White	Negative	< LOD	0.03
128	Cabin	Room 2	S	Wood	Doorway	Door	White	Negative	< LOD	0.64
129	Cabin	Room 2	W	Wood	Wall	Lwr. Wall	White	Negative	< LOD	0.45
130	Cabin	Room 2	N	Wood	Window	Sill	White	Negative	< LOD	0.43
131	Cabin	Room 2	E	Wood	Window	Sash	White	Negative	< LOD	0.3
132	Cabin	Room 2	E	Sheetrock	Wall	Mid. Wall	Paper	Negative	< LOD	0.03
133	Cabin	Bath	E	Concrete	Wall	Trim	White	Negative	< LOD	0.1
134	**Cabin**	**Bath**	**S**	**Wood**	**Doorway**	**Door**	**White**	**Positive**	**4.3**	**2.6**
135	Cabin	Bath	Up	Sheetrock	Wall	Ceiling	White	Negative	< LOD	0.03
136	**Cabin**	**Pantry**	**E**	**Wood**	**Wall**	**Mid. Wall**	**Paneling**	**Positive**	**1.8**	**0.8**
137	**Cabin**	**Pantry**	**N**	**Wood**	**Wall**	**Upr. Wall**	**Paneling**	**Positive**	**2.1**	**1**
138	Cabin	Living	E	Wood	Doorway	Jamb	Brown	Negative	< LOD	0.04
139	Cabin	Living	E	Wood	Wall	Mid. Wall	Peach	Negative	< LOD	0.04
140	Cabin	Living	S	Wood	Window	Sill	Brown	Negative	< LOD	0.26
141	Cabin	Living	W	Wood	Window	Sill	Brown	Negative	< LOD	0.16
142	Cabin	Staircase	N	Wood	Wall	Handrail	Brown	Negative	< LOD	0.06
143	Cabin	Staircase	N	Wood	Window	Sill	White	Negative	< LOD	0.33
144	Cabin	Staircase	N	Sheetrock	Wall	Mid. Wall	White	Negative	< LOD	0.03
145	Cabin	2nd Floor	E	Wood	Window	Sash	White	Negative	< LOD	0.03
146	Cabin	2nd Floor	Up	Sheetrock	Wall	Ceiling	White	Negative	< LOD	0.03
147	Cabin	2nd Floor	N	Wood	Wall	Lwr. Wall	White	Negative	< LOD	0.09
148	Cabin	2nd Floor	W	Wood	Window	Casing	White	Negative	< LOD	0.04
149	Cabin	2nd Floor	Up	Wood	Wall	Mid. Wall	White	Negative	< LOD	0.03
150	Cabin	2nd Floor	S	Wood	Wall	Upr. Wall	White	Negative	< LOD	0.31

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Inspector Signature_____

No.	Site	Room	Side	Substrate	Component	Feature	Color	Results	PbC	PbC Error
151	**Cabin**	**2nd Floor**	**S**	**Wood**	**Wall**	**Lwr. Wall**	**Tan**	**Positive**	**1**	**0.2**
152	**Cabin**	**2nd Floor**	**S**	**Wood**	**Wall**	**Lwr. Wall**	**Tan**	**Positive**	**2**	**0.7**
153	**Cabin**	**Basement**	**S**	**Wood**	**Doorway**	**Door**	**White**	**Positive**	**2.3**	**1.3**
154	Cabin	Basement	S	Wood	Staircase	Step	Red	Negative	< LOD	0.18
155	Cabin	Basement	S	Wood	Wall	Upr. Wall	Blue	Negative	< LOD	0.05
156	Calibration							**Positive**	1.1	0.1

APPENDIX E

Inspectors Certifications

ENVIRONMENTAL
MANAGEMENT
INCORPORATED

Certificate of Training

T - 25817 - 4904
Certificate Number

This is to certify that

Matthew R. Cox

has satisfactorily completed 4 hours

of

EPA/AHERA Inspector Refresher

In Accordance With 40 CFR Part 763 Subpart E

Class Start Date: 11/12/2015 *Class End Date: 11/12/2015*

Glenn Hasburgh, IH	*11/12/2015*	*11/12/2016*	*Stuart M. Jacques*
	Exam Date	*Cert. Exp. Date*	*Director*

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

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