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September 14, 2026

ADDENDUM NO. 1

This Addendum and attachments consists of: 339 Page(s)

TO: All ASD Plan Holders

SUBJECT: ITB 2027-801 Ursa Major Elementary School Replacement ITB-1-Demolition

DUE DATE: Prior to 2:00 p.m., Local Time October 1, 2026

The following additions, corrections and changes are hereby made to the subject Invitation to Bid.

1. **REPLACE** Table of Contents, consisting of 3 pages, in its entirety with attached Table of Contents, identified as Addendum No. 1, consisting of 3 pages.
2. **REPLACE** Section 02 26 00, Hazardous Materials Assessment, consisting of 333 pages, in its entirety with attached Section 02 26 00, Hazardous Materials Assessment, identified as Addendum No. 1, consisting of 332 pages.
3. **REPLACE** Section 02 41 00, Demolition, consisting of 3 pages, in its entirety with attached Section 02 41 00, Demolition, identified as Addendum No. 1, consisting of 3 pages.

The following clarifications, questions and answers are provided for your use in responding to the subject Invitation to Bid:

- Q1:** UMES ITB-1 Drawings R2, G002, Drawing Indices, Section 1997 Ursa Major Elementary School Addition, lists Sheet E5-4 twice.
A1: The 1997 Exhibit Drawings have E5-4 as "Elec One-Lines" **REMOVE** E5-4 "Elec Details".
- Q2:** In the 1997 Drawings, sheet A-40 is missing.
A2: Yes A-40 is a missing sheet. It still shows on the drawing index, but should be noted that there is no sheet A-40 in the asbuilts, ie. the 1997 exhibit drawings.

All other terms and conditions remain the same.

Note to Bidders: This Addendum must be signed and returned with your bid or acknowledged where indicated in Section 00300, Bid Form. Failure to do so may cause your bid to be non-responsive.

Contractor Name: _____

Authorized Representative Signature: _____

Name and Title (please print): _____

END OF ADDENDUM

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HAZARDOUS MATERIALS ASSESSMENT

PART 1. GENERAL

1.01 SECTION INCLUDES

- A. The Hazardous Materials Assessment for the proposed construction is included with these Contract Documents.

1.02 USE OF INFORMATION

- A. The Hazardous Materials Assessment is provided for the Contractor's information and use in the planning and performance of work in areas containing hazardous or potentially hazardous materials as outlined in Paragraph 1.03.
 - 1. The information provided in the Hazardous Materials Assessment is based on samples collected in various locations of the building. Thus, the Owner and/or its Representative cannot guarantee or warrant that actual conditions encountered might not vary from the information presented in these reports.
 - 2. The data reported in the Hazardous Materials Assessment is accurate to the best of the Owner's and its Representative's knowledge. The requirements contained in these specifications and in the relevant state and federal regulations pertaining to the performance of work in areas containing hazardous or potentially hazardous materials provide guidance for the contractor for performance of work in these areas. The Owner and its Representative disclaim all responsibility for the Contractor's erroneous conclusions regarding the information presented in these reports; the requirements contained in these specifications; and the requirements of applicable state and federal regulations pertaining to performance of work in these areas.
 - 3. The Contractor shall be responsible for obtaining additional information if Contractor deems it necessary to carry out the work.
- B. It is highly recommended that the contractor visit the site to acquaint themselves with existing conditions.
- C. Attached Hazardous Materials Assessment

1.03 HAZARDOUS MATERIALS NOTIFICATION:

- A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on architectural, structural, mechanical and electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

HAZARDOUS MATERIALS ASSESSMENT

URSA MAJOR ELEMENTARY SCHOOL REPLACEMENT

ANCHORAGE, ALASKA

Surveyed
February 13 – 19, 2025
June 6, 2025

Report Date
July 13, 2026

EHS-ALASKA, INC.
ENGINEERING, HEALTH & SAFETY CONSULTANTS
11901 BUSINESS BLVD., SUITE 208
EAGLE RIVER, ALASKA 99577-7701

**HAZARDOUS MATERIALS ASSESSMENT
URSA MAJOR ELEMENTARY SCHOOL REPLACEMENT**

ANCHORAGE, ALASKA

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Appendix F	Lead Analyzer Test Results
Appendix G	Drawings of Sample Locations

**HAZARDOUS MATERIALS ASSESSMENT
URSA MAJOR ELEMENTARY SCHOOL REPLACEMENT
ANCHORAGE, ALASKA**

OVERVIEW

Ursa Major Elementary School, located in Anchorage, Alaska, was surveyed for the presence of asbestos-containing materials (ACM), and other potentially hazardous materials as a part of the design services for the Ursa Major Elementary School Replacement Project at the school for the Anchorage School District. The survey also provided a "good faith" inspection for hazardous materials that may be disturbed during the demolition. The proposed work includes the disturbance, demolition, removal and disposal of lead-containing paints and/or lead-containing materials that is incidental to the demolition project. Mr. Travis W. Hubbard and Mr. Fisher G. Gandel of EHS-Alaska, Inc. (EHS-Alaska) conducted the inspections in February and April 2025, and Mr. Gandel also conducted the soil screening for PCB's in June 2025. It will be the contractor's responsibility to take this baseline data, to identify and quantify all potentially hazardous materials and to conduct hazardous materials removal and disposal in compliance with all regulatory requirements. This assessment includes data from previous inspections of the facility.

A. GENERALIZED REQUIREMENTS FOR HAZARDOUS MATERIALS

Potentially hazardous materials have been identified in Ursa Major Elementary School that will be affected by the proposed demolition. Those materials include asbestos, lead, polychlorinated bi-phenyls (PCBs), mercury, and radioactive materials. Not all materials were tested for potentially hazardous components, other potentially hazardous materials, including those exterior to the building, such as contamination from underground fuel tanks may be present, but are not part of this report.

Buildings or portions of buildings that were constructed prior to 1978 which are residences, or contain day care facilities, kindergarten classes or other activities frequently visited by children under 6 years of age are classified as *child occupied facilities* for work that disturbs or removes lead-based paints. All work which is NOT classified as "minor repair and maintenance activities" (as defined by the regulations), that takes place in the "*child occupied*" portions of facilities must comply with the requirements of 40 CFR 745. Although originally constructed in 1952, this building is not currently classified as a *child occupied facility* and therefore the requirements of 40 CFR 745 are not applicable. See lead testing results and location drawings for additional information.

The removal and disposal of potentially hazardous materials are highly regulated, and it is anticipated that removal and disposal of asbestos, lead and chemical hazards will be conducted by a subcontractor to the general contractor who is qualified for such removal. It is anticipated that the general contractor and other trades will be able to conduct their work using engineering controls and work practices to control worker exposure and to keep airborne contaminants out of occupied areas of the building. Refer to Section 01 35 45, Airborne Contaminant Control.

Settled and concealed dusts in areas not subject to routine cleaning are present throughout the building, including the roof, and inside and on top of architectural, mechanical, electrical, and structural elements, and those dusts are assumed to contain regulated air contaminants. This should not be read to imply that there is an existing hazard to building occupants (normal occupants of the building as opposed to construction workers working in the affected areas). However, depending on the specific work items involved and on the means and methods employed when working in the affected areas, construction workers could be exposed to regulated air contaminants from those dusts in excess of the OSHA Permissible Exposure Limits (PELs).

The settled and concealed dusts were examined by an EPA Certified Building Inspector but were not sampled. The inspector determined that the dusts are not "asbestos debris" from an asbestos-containing building material (ACBM). Based on similar sampling from similar buildings, the inspector also determined

that the dusts are unlikely to contain more than one percent (1%) asbestos by weight, and therefore are not an asbestos-containing material (ACM). Reference 40 CFR 763.83.

"Awareness training" (typically 2 hours) and possibly respiratory protection will be required for all Contractor Personnel who will be disturbing the dusts. The extent of the training and protective measures will depend upon the airborne concentrations measured during air monitoring of the contractors work force, which depends on the means and methods employed to control the dusts. The air monitoring may be discontinued following a "negative exposure assessment" showing that worker exposures are below the OSHA permissible exposure limits for the type of work and means and methods employed. Previous air monitoring from similar jobs with similar conditions may be used as historical data to establish a "negative exposure assessment".

B. BUILDING DESCRIPTION

Ursa Major Elementary School was originally constructed in 1952. In 1984 an addition was constructed near what is now the south side of the Library. That project also included construction of new rooms and remodeling of existing rooms in the same area. In 1997 two major additions were constructed on the south side of the school. During that project, areas of the existing building configurations and finishes were removed, replaced, or reconstructed, however, very little work was done throughout much of the original building.

There have been various documented upgrades throughout the years which include:

A 1955 project that refinished a former stairwell in the MPR; a 1964 project that converted a second floor classroom into a music room; a 1965 Water Meter Installation; a 1970 Remodeling Project that made various typically minor changes throughout the school; a 1978 Remodeling Project that installed a sprinkler system and improved fire resistivity to various components throughout the school, along with other minor changes; a 1982 project that constructed a hockey rink and supporting equipment; a 1984 HVAC Improvements Project that replaced the unit ventilators throughout the school; the 1984 Library Addition; a 1984 project that installed intercoms and related equipment throughout the school; a 1984 project that included renovation of rooms now labeled 149, 150, 151, 151A, 151B, 153, and 154; a 1988 project that refinished the floors in the Gym (now MPR Rm 117) and MPR (now rooms around the Art Rm (Rooms 178, 179, 180, 181), the MPR Stage and associated stairs; a 1988 Ventilation Modifications Project that added exhaust systems to select first and second floor toilet rooms along with new unit ventilators in adjacent rooms; a 1991 Life Safety Upgrades Project that made various minor changes to select areas of the first and second floors; a 1994 project that installed an elevator and related equipment; the 1997 Addition Project; a 1991 Domestic Water Upgrades Project that replaced most of the original domestic water piping; a 2002 project that added computer data lines in areas of the building; a 2002 project that replaced window walls throughout much of the original portions of the school was reportedly delayed and was redesigned and constructed in 2005; a 2003 project that constructed a Boiler and Generator Building to the east of the building and made changes to the existing equipment within the building to accommodate the new systems; and a 2012 Fire Alarm Upgrades project.

Additional project information was found in the archives of EHS-Alaska which include: a 1988 project which reportedly removed portions of the asbestos-containing Thermal System Insulation (TSI) in the Mechanical Room; a 1991 project which made emergency repairs to a leaking pipe under the MPR stage; destructive roof investigations were performed in 1995 but the documentation was not clear to the purpose of the investigations and no sampling was performed; a 2002 project that cleaned ducts in the building; a 2004 project that upgraded door hardware throughout the building; a 2009 "Energy Conservation Measures" project that replaced light fixtures in portions of the school; a 2012 project that replaced the flooring finishes in the Nurse's Room; and a 2014 project that replaced the stairwell on the northeast side of the building. The removal of asbestos-containing TSI from the utilidors under the 1952 era was not documented.

It is anticipated that other changes may have occurred that were either undocumented or the documentation was lost, such as for maintenance activities.

The two-story building has a concrete slab on grade foundation throughout all eras, and the original 1952

era has reinforced cast in place concrete floors, walls, ceilings, and roof deck. Other portions of the building are a mixture of concrete block or wood frame construction.

Floors were typically finished with vinyl floor tiles or carpet. Ceramic floor tiles were noted in the restrooms, and sheet vinyl was typically found in classroom restrooms. Various types of flooring were noted in the school, including a poured rubber floor in the Gym.

Interior partitions throughout the building were typically of wood framed construction. Walls were typically finished with gypsum board. Because of the various upgrades to finishes throughout the original portions of the building, many of the walls are expected to be a combination of older walls with asbestos-containing joint compound and newer walls with non-asbestos-containing joint compound. Glued-on acoustic wall panels were typically found in the older classrooms, and various wainscot finishes were noted throughout the school. Cement asbestos board was found on the walls of the second floor fan room on the east side of the building. Ceramic wall tiles were typically found in the restrooms.

Older classrooms typically had glued-on acoustic ceiling tiles. Isolated areas of gypsum board ceilings were observed. Otherwise, ceilings typically had lay-in ceiling tiles throughout the building. Older plaster ceilings were found above the lay-in ceiling in some areas.

The original portions of the exterior of the school typically had painted concrete walls. Split face CMU and Exterior Finish Insulation System were found on the exterior of the 1984 Library Addition. The exterior of the 1997 additions were a mixture of differing types of concrete walls and corrugated metal siding.

The original 1952 era built-up roof was shown as being covered by another built-up roof during the 1997 additions. A metal snow drift displacement roof was constructed over the original built-up roof on the south side of the 1952 era during the 1997 addition of the Gymnasium. The original 1984 addition EPDM-style roof was removed and replaced with a built-up roof in 1997. The 1997 era roofs were of built-up construction.

The entire school was originally heated by steam from the Fort Richardson steam system, but an exterior boiler building was added in 2003. The heat piping, roof drain piping, and the domestic water piping in the original building had asbestos-containing insulation on piping runs and at the fittings and were located above the ceiling and often concealed inside of the walls. The asbestos-containing insulation was removed from the majority of the utilidor piping and heating piping. Portions of the asbestos-containing insulation on the original domestic water piping has also been removed. Asbestos-containing insulation is assumed to be present at abandoned piping from heating, plumbing, and roof drain piping in concealed locations. Older piping from each of these systems inside of walls and above the ceiling on the second floor is known to be insulated with asbestos-containing insulation.

The building was heated by a variety of heating systems. Classrooms were heated by cabinet unit ventilators and had window mounted exhaust fans in addition to a central, ducted exhaust system. The MPR, gymnasium, art room, stage area, and the IMC and adjacent workrooms were heated by separate ducted, hydronic fan-coil heating and ventilation systems. The kitchen area was serviced by a suspended cabinet unit heater and separate exhaust system. The accessible heating and domestic water piping was typically re-insulated with fiberglass. Older piping inside walls and above the ceiling, as well as the heating piping under the cabinets on the second floor was known to be insulated with asbestos-containing insulation.

Refer to copies of the original mechanical drawings which are included as reference drawings in the drawing package for additional information on the locations and types of piping that had or have asbestos-containing insulation.

C. SAMPLING AND ANALYSIS

1. Asbestos-Containing Materials

The following tables include sampling from different previous projects, and may include data from different portions of the building. Material Codes, like FT-1 for Floor Tile style 1, will change between the various projects, and readers should refer to the material descriptions rather than the Material Codes.

The survey included sampling of suspect ACM materials that had not been sampled in prior asbestos surveys, or samples of materials where previous sampling had been inconsistent. Refer to the AHERA asbestos management plan available for review in the Anchorage School District offices for information on previous sampling which is not included in this report. Additional testing of materials pertinent to the project, including asbestos and lead was conducted and is included in this report.

The samples were analyzed for the presence of asbestos using polarized light microscopy (PLM), analysis, as recommended by EPA, to determine the composition of suspected ACMs (EPA method 600/R-93/116). Only materials containing more than 1% total asbestos were classified as "asbestos-containing" based on EPA and OSHA criteria. Samples analyzed to have less than 10% asbestos were "point-counted" by the laboratory for more accuracy. Samples listed as having a "Trace by Point Count" had asbestos fibers found in the material, but the fibers were not present at the counting grids. Table 1 in Part D below contains a summary list of the asbestos bulk samples and the applicable results.

EPA regulations under 40 CFR 763 require the use of PLM to determine whether or not a material contains asbestos. While PLM analysis does a good job for most materials, it does have some limitations. Fibers may be undetectable if their small size prevents visibility under a standard optical microscope, or if they are bound in an organic matrix to the point that the fibers are obscured. At the discretion of the building inspector and the client, some types of samples may be analyzed or re-analyzed by what is called Transmission Electron Microscopy for Non-Friable Organically Bound (TEM NOB) materials. TEM NOB analysis was not done for this project.

Field survey data sheets and laboratory reports of the bulk samples are included in Appendix A. Drawings showing sample locations are included as Appendix G.

2. Lead-Containing Materials

Nearly all surfaces in the building were coated with paint and most surfaces had been repainted. EHS-Alaska tested representative paints throughout the affected areas of the building using a SciAps X-550 Pb X-Ray Fluorescence (XRF) lead paint analyzer (Serial # 01052 with firmware version 2.6.1.4). Previous testing was conducted with a Heuresis Pb200i, Niton XLp-300A, NITON XLI303AW and NITON XL309. The lead testing conducted was not a Lead-Based Paint Inspection or Screening as defined by Department of Housing and Urban Development (HUD) or EPA regulations, but was done to test surfaces that may be representative of those likely to be affected by this project. If surfaces and materials other than those tested are identified, the Contractor shall test and treat appropriately. Refer to the Lead Analyzer Test Results Table in Appendix D that identifies the surfaces tested, and the results. All surfaces affected by this project may not have been tested and therefore additional sampling may be required to refute the presence of lead-containing materials regulated by 29 CFR 1926.62.

Refer to the Lead Analyzer Test Results Table in Appendix F that identifies the surfaces tested, and the results. All surfaces affected by this project may not have been tested and therefore additional sampling may be required to refute the presence of lead-containing materials regulated by 29 CFR 1926.62

EPA and HUD have defined lead-based paint as any paint or other surface coating that contains lead equal to or in excess of 1.0 milligram per square centimeter (mg/cm²) or 0.5 percent by weight. XRF results are classified as positive (lead is present at 1.0 mg/cm² or greater), negative (less than 1.0 mg/cm² of lead was present) or inconclusive (the XRF could not make a conclusive positive or negative determination). Tests that were invalid due to operator error are shown as void tests.

A Performance Characteristic Sheets (PCS) for the SciAps X-550 Pb, Pb200i, Niton XLp-300A, NITON XLI303AW and NITON XL309 are available upon request. The PCS data provides supplemental information to be used in conjunction with Chapter 7 of the "HUD Guidelines". Performance parameters

provided in the PCS are applicable when operating the instrument using the manufacturer's instructions and the procedures described in Chapter 7 of the "HUD Guidelines". The instrument was operated in accordance with manufacturer's instructions and Chapter 7 of the HUD Guidelines. No substrate correction is required for these instruments. There is no inconclusive classification for this instrument when using the 1.0 mg/cm² threshold.

3. Testing of Paints and Sealants for PCB's

Representative paint and sealant samples were collected from Ursa Major Elementary School and analyzed for total PCBs. Samples of paint were collected by scraping the paint down to bare substrate, or by cutting out a portion of the sealants. Samples were analyzed for total PCBs by EMSL Analytical, Inc, 200 Route 130 North, Cinnaminson, New Jersey. Results of the total PCB analysis for each sample was used to determine if the dried paint or sealants are considered PCB bulk product waste. Field Survey Data Sheets and Lab results are included in Appendix D. Drawings showing sample locations is provided in Appendix G. Refer to discussions below for assumed PCB-containing building materials in all eras of the school, except for the 2003 Boiler/Generator Building.

4. Screening of Soils for PCB's

Because of the presence of low concentrations of PCB's in the exterior paints of the older section of the school, EHS-Alaska was requested to collect representative soil samples around the perimeter of the Ursa Major Elementary School and analyzed for total PCBs. The sampling was NOT done as part of a spill investigation or site characterization effort, but was done to provide additional information about potential PCB's in the soil surrounding the school. Soil samples were collected on June 6, 2025 and typically taken from an approximately 1 square foot area, with 5 sub-samples taken from the 4 corners, and center of the area where the overlying grass layer was removed. The sub-samples were typically taken from the upper level of the soil. The soil samples were analyzed for PCBs by Alliance Technical Group, 3600 Fremont Avenue N, in Seattle, Washington. Field Survey Data Sheets and Lab results are included in Appendix D. Drawings showing sample locations are provided in Appendix G.

D. SURVEY RESULTS

1. Asbestos-Containing Materials

The following tables include sampling from different previous projects, and may include data from different portions of the building. Material Codes, like FT-1 for Floor Tile style 1, will change between the various projects, and readers should refer to the material descriptions rather than the Material Codes.

The following Table 1A includes samples taken in April 2025 as verification samples. Asbestos field survey data sheets and laboratory reports are included in Appendix A. Refer to Appendix G for sample locations.

TABLE 1A

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UMES250416-A01	Black, tarry, pliable, speaker box acoustic mastic	Classroom 130, inside metal speaker box housing located at northeast side of the classroom. P10T	None Detected
UMES250416-A02	Troweled on brittle black wall mastic and tan rigid wall mastic	Room 180, northwest side of room adjacent to metal door frame. Between painted plywood and gypsum wallboard. P23T	None Detected
UMES250416-A03	Off-white plaster	Corridor at Room 180, beneath carpet wall covering and gypsum wallboard on concrete. P31T	None Detected

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
The testing method used (polarized light microscopy [PLM]) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation should be made by quantitative transmission electron microscopy (TEM).			

The following Table 1B lists the samples taken in February 2025 throughout the building, but mainly in the 1997 era, and the results of the laboratory analysis. Asbestos field survey data sheets and laboratory reports are included as Appendix A. Refer to Appendix G for sample locations.

TABLE 1B

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UMES2502-A01	Light Brown Wainscot Mastic	North corner of front entrance vestibule, beneath white raised 2" square pattern plastic wainscot. P-73T	None Detected
UMES2502-A02	FT-4; 9x9" Dark Maroon Floor Tile, Black FT Mastic, Yellow Carpet Mastic	Office 101, near wall, left of doorway to Room 108, where dividing wall was previously removed. P-88T	FT – 6% Chrysotile, YM – ND, BM- ND
UMES2502-A03	FT-1; 12x12" White Floor Tile w/ Monodirectional Grey, Lt. Grey, and Lt. Pink Smears, Yellow FT Mastic, Off-white Leveling Compound	Office 101, near wall, left of doorway to Room 108, where dividing wall was previously removed. P-89T	All 3 Layers None Detected
UMES2502-A04	SV-1; Lt. Blue/Green Sheet Vinyl w/ White & Dk. Green Specks, Yellow Mastic, SV-2; Tan Sheet Vinyl w/ White Streaks, Black Mastic	Office Bathroom 107, South Corner. P-96T	All 4 Layers None Detected
UMES2502-A05	SV-3; Off-white Sheet Vinyl w/ Small Red & Black Specks, Tan Mastic	Kitchen 115, a few feet west of the double door entrance. P-178T	Both Layers None Detected
UMES2502-A06	SV-4; White Sheet Vinyl w/ Blue & Pink & Brown Pebble Pattern, Dk. Yellow Mastic	Kitchen Office 116, adjacent to the doorway. P-173T	Both Layers None Detected
UMES2502-A07	Acoustic Plaster Wall Coating	MPR 117, on top half of northwest concrete wall, within GWB soffit. Right of kitchen doors. P-210T	2 % Chrysotile
UMES2502-A08	Acoustic Plaster Wall Coating	MPR 117, on top half of northwest concrete wall, within GWB soffit. At access panel. P-214T	2 % Chrysotile
UMES2502-A09	CB-3; 6" Lt. Lavender Cove Base, Clear CB Mastic	Stage 121, from corner left of southeast double doors. P-237T	Both Layers None Detected
UMES2502-A10	Joint Compound ('95 Era)	Stage 121, from corner left of southeast double doors, behind cove base. P-237T	None Detected
UMES2502-A11	Off-white Carpet Mastic (CPT-3; Black Woven Short-shag)	Stage 121, from corner left of southeast double doors. P-237T	None Detected

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UMES2502-A12	FT-1; 12x12" White Floor Tile w/ Monodirectional Grey, Lt. Grey, and Lt. Pink Smears, Yellow Mastic	Stage Storage 123, from right of doorway. P-242T	Both Layers None Detected
UMES2502-A13	Cream Stair Riser Mastic	Stage 121, northwest stairway, beneath riser. P-244T	None Detected
UMES2502-A14	Off-white/Clear Stair Tread Mastic	Stage 121, northwest stairway, beneath tread. P-244T	Both Layers None Detected
UMES2502-A15	WT-1; Tan Perlite Wall Texture	Corridor 1002, west wall, where corner of bathroom extrudes. P-246T	None Detected
UMES2502-A16	Red & Yellow Nose Trim Mastics	Stage 121, at edge of stage on east side, beneath trim. P-247T	Both Layers None Detected
UMES2502-A17	Yellow Carpet Mastic (CPT-3; Black Woven Short-shag)	Corridor 1003, left of door to Classroom 130. P-266T	None Detected
UMES2502-A18	Joint Compound, GWB ('95 Era)	Classroom 130, southern corner under CB, left of door to exterior. P-267T	Both Layers None Detected
UMES2502-A19	FT-9; 12x12" Non-skid Grey Floor Tile w/ Black Specks and Small 1/2" Square Pattern, Yellow Mastic	Classroom 130, from tiled area in front of exterior door. P-269T	Both Layers None Detected
UMES2502-A20	LCT-3; 2x4' Lay-in Ceiling Tile w/ Random 1/8" Pinholes & Straight Edges	Classroom 130, from ceiling a few feet left of door to hallway. P-272	None Detected
UMES2502-A21	Grey Sink Undercoating	Classroom 127, from sink on southeast wall. P-307T and P-312T	None Detected
UMES2502-A22	SV-5; Tan Sheet Vinyl w/ Grey, White, and Orange Specks, Yellow Mastic	Bathroom 127A, right of doorway. P-314T	Both Layers None Detected
UMES2502-A23	Tan Wall Panel Mastic	Bathroom 130A, from northwest wall beneath white raised 2" square pattern paneling. P-318T	None Detected
UMES2502-A24	Tan Spray-on Fireproofing (SOFP)	Library 141, above ceiling near southeast wall. P-326T	None Detected
UMES2502-A25	Tan Spray-on Fireproofing (SOFP)	Library 141, above ceiling just northwest of south corner. P-328T	None Detected
UMES2502-A26	Tan Spray-on Fireproofing (SOFP)	Library 141, above ceiling at midpoint between central column and southwest wall, where SOFP begins. P-331T	None Detected
UMES2502-A27	CB-4; 4" Lt. Brown Cove Base, Black CB Mastic	Library 141, from column at midpoint of southwest wall. P-339T	None Detected
UMES2502-A28	WT-2; White Orange Peel Wall Texture	Library 141, from column at midpoint of southwest wall. P-340T	None Detected
UMES2502-A29	Joint Compound, GWB ('82 Era)	Library 141, from left corner of southwest column and wall. P-342T	Both Layers None Detected

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SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UMES2502-A30	Orange & Black Carpet Mastics (CPT-4)	Library 141, right of southwest column, from floor that was '52 era. P-384T	None Detected
UMES2502-A31	Yellow Wall Carpet Mastic	Library 141, from southeast wall column, under wall carpet. P-388T	None Detected
UMES2502-A32	Yellow Carpet Mastic (CPT-4)	Library 141, left of southeast wall column, from floor that was '82 era. P-389T	None Detected
UMES2502-A33	Yellow Carpet Mastic (CPT-4)	Library Room 142, near southeast wall, from floor that was '52 era. P- 395T	None Detected
UMES2502-A34	Joint Compound ('82 Era)	Library 141, from northwest wall above doorway and lay-in ceiling. P- 404T	None Detected
UMES2502-A35	SV-6; Sheet Vinyl w/ Brown & Tan Pebble Pattern, Black Mastic, Tan Mastic	Library Room 144, in front of doorway. P-406T	20 % Chrysotile
UMES2502-A36	WT-2; White Orange Peel Wall Texture	Library 141, from northwest wall, a few feet right of doorway. P-408T	None Detected
UMES2502-A37	Ceramic FT Grout	Restroom 137, just past entrance vestibule. P-433T	None Detected
UMES2502-A38	SV-4; White Sheet Vinyl w/ Blue & Pink & Brown Pebble Pattern	Classroom 151, at threshold to hallway. P-500T	Both Layers None Detected
UMES2502-A39	Tan Utilidor Insulation Fiber Board, Black Hot Mop Tar	Basement 38, at west utilidor entrance. P-565T	Both Layers None Detected
UMES2502-A40	Olive Gasket on Heating Pipe Flange	Basement 35, north corner, at utilidor entrance. P-568T	Both Layers None Detected
UMES2502-A41	Wall Plaster, Skim Coat	Classroom 213, northeast wall. P-250F	Both Layers None Detected
UMES2502-A42	Ceiling Plaster, Skim Coat	Corridor 1200, above ceiling, where era changes from '52 to '95, near left double doors. P-1019T	Both Layers None Detected
UMES2502-A43	CB-2; 6" Black Rubber Cove Base, Tan Mastic	Corridor 1200, across from left edge of double doors, at column. P-1020T	Both Layers None Detected
UMES2502-A44	Yellow Carpet Mastic (CPT-3; Black Woven Short-shag)	Corridor 1200, across from left edge of double doors, beneath column. P- 1020T	None Detected
UMES2502-A45	White Duct Seam Sealant Tape	Gym Fan Room 286, from major duct near ladder. P-271F	None Detected
UMES2502-A46	Joint Compound, GWB ('95 Era)	Gym Office 188, west corner. P-1036T	Both Layers None Detected
UMES2502-A47	FT-1; 12x12" White Floor Tile w/ Monodirectional Grey, Lt. Grey, and Lt. Pink Smears, Yellow Mastic	Gym Office 188, west corner. P-1037T	Both Layers None Detected

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SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UMES2502-A48	Brown Wall Panel Mastic	Gym 184, from northeast wall near doors, behind fiberglass-reinforced paneling. P-1051T	None Detected
UMES2502-A49	CB-5; 4" Gray Cove Base, Tan Mastic	Generator Room, south wall. P-277F	Both Layers None Detected
UMES2502-A50	Brick Red Firestop	Generator Room, northeast corner, high up at wall penetration for piping. P-279F	None Detected
UMES2502-A51	Off-white Pliable Seam Sealant	Generator Room, at edge of outside air louver at East side. P-1135T	None Detected
UMES2502-A52	Joint Compound (~'04 Era)	Generator Room, northeast corner, high up beneath wall penetration for piping. P-280F	None Detected
UMES2502-A53	Off-White Duct Mastic	Generator Room, adhering fiberglass insulation to metal duct. P-1147T	None Detected
UMES2502-A54	Joint Compound (~'04 Era)	Boiler Room, southwest corner. P-285F	None Detected
UMES2502-A55	Tan/Yellow Penetration Sealant	Boiler Room, southeast corner, high up at penetration for piping. P-1147T	None Detected
UMES2502-A56	Joint Compound (~'04 Era)	Boiler Room, west wall, above sink. P-288F	None Detected
UMES2502-A57	Mint Green Gasket, on Heating Return Pipe	Boiler Room, on west (back) side of boiler #1. P-1151T	None Detected
UMES2502-A58	White/Yellow Rope Gasket at Smoke Box to Boiler Joint	Boiler room, on west (back) side of boiler #2 P-1160T	None Detected
UMES2502-A59	Mint Green Gasket on Flange of Glycol Supply	Boiler Room, from piping to the right of boiler #3, close to sink. P-291F	None Detected
UMES2502-A60	Black Flange Gasket	Boiler Room Exterior, left of the double doors at the exterior vertical piping. P-1164T	None Detected
UMES2502-A61	Tan Pliable Door Frame Sealant	Boiler Room Exterior, between frame and wall of main double doors. P-1163T	None Detected
UMES2502-A62	White Seam Sealant	Tool Shed, at edge of plywood roof deck. P-1168T	None Detected
UMES2502-A63	Mineral Cap Rolled Roofing	Tool Shed, corner of roof. P-1167T	None Detected
UMES2502-A64	Gray Seam Sealant	School Exterior, at the corner of Office 101, between metal window trim and concrete. P-1182T	None Detected
UMES2502-A65	Black Window Frame Gasket	School Exterior, middle of Office 101's window, between glass and framing. P-1184T	None Detected

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UMES2502-A66	Grey Pliable Window Frame Sealant	School Exterior, at west corner of Classroom 153, between metal frame and concrete. P-1192T	None Detected
UMES2502-A67	Grey Pliable Concrete Seam Sealant	School Exterior, at middle of Classroom 153's windows, where concrete sill sections connect. P-1194T	None Detected
UMES2502-A68	White Pliable Door Frame Seam Sealant	School Exterior, outside Vestibule 1101, between metal door frame and concrete. P-1210T	Grey Sealant - 7 % Chrysotile, White Sealant - ND
UMES2502-A69	Grey Pliable Window Frame Sealant	School Exterior, at corner of Classroom 157 and Library 141, between frame and concrete. P-1248T	None Detected
UMES2502-A70	Dark Grey Window Frame Sealant	School Exterior, Kindergarten 130, left side, between window frame and concrete. P-1258T	None Detected
The testing method used (polarized light microscopy [PLM]) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation should be made by quantitative transmission electron microscopy (TEM).			

Table 1C includes samples taken in June 2022 related to proposed seismic repairs, and the results of the laboratory analysis. Note, some of these materials may have been removed by the previous project, but are included here to illustrate similar materials from the eras of construction. Asbestos field survey data sheets and laboratory reports are included in Appendix A. Refer to Appendix G for sample locations.

TABLE 1C

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UM0622-A01	White joint compound, appears to be thick skim coat	First Floor Room 102: North corner of room above suspended ceiling at old pipe chase, on gypsum wall board. Photo 17 JHL	Both Layers None Detected
UM0622-A02	Gypsum wall board, older	First Floor Room 102: North corner of room above suspended ceiling at old pipe chase, gypsum wall board. Photo 18 JHL	None Detected
UM0622-A03	White joint compound	First Floor Room 102: North corner of room above suspended ceiling at new pipe chase, on gypsum wall board. Photo 19 JHL	None Detected
UM0622-A04	Gypsum wall board, newer	First Floor Room 102: North corner of room above suspended ceiling at new pipe chase, gypsum wall board. Photo 19 JHL	None Detected
UM0622-A05	White 12" x 12" smooth-face fiberglass ceiling tile	First Floor Room 102: North corner of room above drop ceiling, directly adhered to bottom side of concrete decking. Photo 24 JHL	Both Layers None Detected

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SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UM0622-A06	Hard dark brown ceiling tile mastic to Sample A05 **ignore fiberglass, same as sample A05**	First Floor Room 102: North corner of room above drop ceiling, adhering fiberglass ceiling tile to the bottom side of the concrete decking. Photo 24 JHL	None Detected
UM0622-A07	2' x 4' lay in ceiling tile with beveled edges, 4" squares, 1/4 to 1/2-inch fissures, and 1/8 to 1/16-inch holes	First Floor Room 102: Typical ceiling tile throughout room on screwed-in ceiling grid. Photo 27 JHL	None Detected
UM0622-A08	6" black vinyl cove base; cream cove base mastic	Second Floor Classroom 235: Southwest quadrant of room adhered to marlite wall board. Photo 15 RAF	Both Layers None Detected
UM0622-A09	Hard dark brown cove base mastic; dark brown marlite	Second Floor Classroom 235: Southwest quadrant of room, remnant mastic under black cove base to marlite wall board. Photo 15 RAF	Both Layers None Detected
UM0622-A10	White 1' x 2' smooth-face fiberglass wall tile	Second Floor Classroom 235: West corner of room adhered to unfinished gypsum wall board with dark brown mastic. Photo 37 JHL	Both Layers None Detected
UM0622-A11	Hard dark brown wall tile mastic to sample A10 **ignore fiberglass, same as sample A10**	Second Floor Classroom 235: West corner of room adhering fiberglass wall tile to gypsum wall board. Photo 37 JHL	None Detected
UM0622-A12	White 12" x 12" smooth-face fiberglass ceiling tile	Second Floor Classroom 235: West corner of room directly adhered to unfinished gypsum board with dark brown mastic. Photo 38 JHL	None Detected
UM0622-A13	Hard dark brown ceiling tile mastic to sample A12 **ignore fiberglass, same as sample A12**	Second Floor Classroom 235: West corner of room adhering fiberglass ceiling tile to unfinished gypsum board. Photo 39 JHL	None Detected
UM0622-A14	Unfinished gypsum board	Second Floor Classroom 235: West corner of room under fiberglass ceiling tile. Photo 41 JHL	None Detected
UM0622-A15	Hard grey floor tile, (can't tell size); with black mastic; with sticky cream carpet mastic	Second Floor Classroom 235: South quadrant of room underneath blue short shag carpet, at transition strip to rubber flooring, adhered to concrete with black mastic. Photos 16-18 RAF	FT = 5.8% Chrysotile, Black Mastic = 1.2% Chrysotile, Cream Mastic = ND
UM0622-A16	Sticky cream carpet mastic	Second Floor Classroom 235: south quadrant of room adhering blue short shag carpet to grey floor tile. Photo 46 JHL	None Detected
UM0622-A17	White joint compound; gypsum wall board, newer	Second Floor Mechanical Room 236: South wall of mechanical room at new patch in wall, unfinished gypsum wall board. Photo 57 JHL	Both Layers None Detected

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UM0622-A18	White joint compound; gypsum wall board, older	Second Floor Mechanical Room 236: East wall of mechanical room at older gypsum wall board wall. Photo 59 JHL	JC = 1.5% Chrysotile, GWB = ND
UM0622-A19	Maroon floor tile (can't tell size); with tarry black mastic	Second Floor Mechanical Room 236: East wall of mechanical room at door threshold, underneath 12" x 12" beige birch bark floor tile, adhered to concrete with black mastic. Photo 77 JHL	FT = 6.1% Chrysotile, Black Mastic = Trace
UM0622-A20	White 12" x 12" smooth-face fiberglass ceiling tile	Second Floor Corridor 2000: Adjacent to classroom 225 above drop ceiling. Photo 75 JHL	None Detected
UM0622-A21	Hard dark brown ceiling tile mastic to sample A20 **ignore fiberglass, same as sample A20**	Second Floor Corridor 2000: Adjacent to classroom 225 above drop ceiling, adhering fiberglass ceiling tile to gypsum board. Photo 75 JHL	None Detected
UM0622-A22	Gypsum wall board	Second Floor Corridor 2000: Adjacent to classroom 225 above suspended ceiling, gypsum wall board. No Photo #	None Detected
UM0622-A23	Cream 12"x12" birch bark floor tile; hard brown mastic	Second Floor Corridor 2000: Adjacent to classroom 223, above and adhered to Sample A24. Photo 78 JHL	Both Layers None Detected
UM0622-A24	Maroon floor tile; with tarry black mastic (bottom); with hard brown mastic (top)	Second Floor Corridor 2000: Adjacent to classroom 223 underneath Sample A23, adhered to concrete with black mastic. Photo 78 JHL	FT = 6.1 % Chrysotile, Black Mastic = ND
UM0622-A25	Tan pliable mastic for faux 2" x 2" marlite wall tile	Second Floor Corridor 2000: Adjacent to classroom 223 adhering marlite wall panel to plywood substrate. Photo 79 JHL	None Detected
UM0622-A26	6" flexible beige cove base; pliable cream cove base mastic	Second Floor Corridor 2000: Adjacent to classroom 223 adhered to marlite wall panel with cream mastic. Photo 80 JHL	Both Layers None Detected
UM0622-A27	White joint compound; gypsum wall board	Second Floor Corridor 2000: Adjacent to classroom 223 above suspended ceiling, gypsum board. Photo 68 RAF	JC = 1.3% Chrysotile
UM0622-A28	White joint compound	Second Floor Corridor 2000: Adjacent to classroom 224, white skim coat under wall carpet, on metal nosing. Photo 85 JHL	None Detected
UM0622-A29	Soft cream wall carpet mastic	Second Floor Corridor 2000: Adjacent to classroom 224 adhering wall carpet to skim coat over marlite. Photo 81 JHL	None Detected
UM0622-A30	Dark brown marlite wall board; white joint compound skim coat	Second Floor Corridor 2000: Adjacent to classroom 224 under wall carpet and over gypsum wall board. Photo 86 JHL	Both Layers None Detected

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SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UM0622-A31	Gypsum wall board	Second Floor Corridor 2000: Adjacent to classroom 224 under marlite wall board. Photo 86 JHL	None Detected
UM0622-A32	Green 9" x 9" floor tile; with tarry black mastic (bottom); with sticky cream carpeted mastic (top)	Second Floor Classroom 223: At threshold to room, underneath blue short shag carpet and adhered to concrete with black mastic. Photo 69 RAF	FT = 5.7% Chrysotile, Both Mastics = ND
UM0622-A33	Tarry black floor tile mastic	Second Floor Classroom 213: Left of door to classroom, adhering brown floor tile to concrete. Photo 95 JHL	None Detected
UM0622-A34	Brown floor tile; with sticky cream carpet mastic **ignore black mastic, same as sample A33**	Second Floor Classroom 213: Left of door to classroom, underneath blue short shag carpet adhered to concrete with black mastic. Photo 95 JHL	FT = 4.8% Chrysotile, Mastic = ND
UM0622-A35	White plaster finish coat **ignore hard brown mastic, same as sample A36**	Second Floor Classroom 213: Left of door to classroom, finish coat over scratch coat, brown mastic for cove base. Photo 95 JHL	None Detected
UM0622-A36	6" flexible dark brown cove base; pliable brown cove base mastic	Second Floor Classroom 213: Left of door to classroom, adhered to white plaster finish coat with brown mastic. Photo 95 JHL	Both Layers None Detected
UM0622-A37	White plaster finish coat; grey scratch coat	Second Floor Classroom 213: North side of classroom, plaster finish and scratch coat over concrete. Photo 97 JHL	None Detected
UM0622-A38	White plaster finish coat, grey scratch coat	Second Floor Classroom 212: South corner of classroom, plaster finish and scratch coat over concrete. Photo 78 RAF	Both Layers None Detected
UM0622-A39	Plywood with paint and nail hole patch	Second Floor Classroom 212: South corner of classroom, painted wood trim over plaster. Photo 78 RAF	None Detected
UM0622-A40	Tan rubber flooring; hard tan mastic, hard grey leveling compound	Second Floor Classroom 212: Southeast quadrant of classroom at carpet transition strip to rubber floor, over concrete. Photo 79 RAF	Tan Flooring = ND, FT = 4.6% Chrysotile, Mastic = ND
UM0622-A41	Soft cream wall carpet mastic; gypsum wall board; white joint compound	Stairwell 210: South quadrant of stairwell, wall carpet adhered with cream adhesive, over gypsum wall board. Photo 90 RAF	Both Layers None Detected
UM0622-A42	Sandy texture, white coating on concrete	Stairwell 210: South quadrant of stairwell, at short wall/ledge on concrete. Photo 91 RAF	None Detected
UM0622-A43	Sandy texture, white coating on concrete	Corridor 1000 & Corridor 1002: North wall adjacent to stairwell 210, on concrete. Photo 119 JHL:	None Detected
UM0622-A44	Soft cream wall carpet mastic	Corridor 1002: Northeast wall towards corridor 1000 adjacent to MPR 117, adhering wall carpet to joint compound. Photo 120 JHL	None Detected

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SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UM0622-A45	White joint compound	Corridor 1002: Northeast wall towards corridor 1000 adjacent to MPR 117, on metal nosing over gypsum board. Photo 122 JHL	None Detected
UM0622-A46	White joint compound; gypsum wall board	Corridor 1002: Northeast wall towards corridor 1000 adjacent to MPR 117, gypsum wall board on metal stud. Photo 122 JHL	Both Layers None Detected
UM0622-A47	Hard brown wall tile mastic and remnant fiberglass wall tile	First Floor Room 150: North wall of room 150 above suspended ceiling, holding fiberglass wall tile to concrete. Photo 96 RAF	None Detected
UM0622-A48	White joint compound; gypsum wall board	First Floor Room 150: North wall of room 150 above suspended ceiling, gypsum board furred over concrete. Photo 96 RAF	Both Layers None Detected
UM0622-A49	2' x 4' 3/8" and smaller random circular pattern fissures, "galaxy" pattern with flat edge lay in ceiling tile	First Floor Room 150: Typical ceiling tile throughout room on nailed-in ceiling grid. Photo 105 RAF	None Detected
UM0622-A50	Hard white "fix all"; with sticky cream carpet mastic	First Floor Room 150: At threshold to room, under multicolored short shag carpet over concrete. Photo 107 RAF	Both Layers None Detected
UM0622-A51	Light brown 9" x 9" floor tile; with tarry black mastic (bottom); with sticky cream carpet mastic (top)	First Floor Room 150: South quadrant of room, under multicolored short shag carpet, adhered to concrete with black mastic. Photo 106 RAF	FT = 5.3% Chrysotile, Black Mastic = Trace
UM0622-A52	Soft cream wall carpet mastic	First Floor Vestibule 1001: Northwest wall of vestibule, adhering wall carpet to joint compound. Photo 123 JHL	None Detected
UM0622-A53	White joint compound **ignore cream mastic, same as A52**	First Floor Vestibule 1001: Northwest wall of vestibule, white skim coat under wall carpet over marlite board. Photo 124 JHL	None Detected
UM0622-A54	Dark brown marlite wall board; white joint compound	First Floor Vestibule 1001: Northwest wall of vestibule, under wall carpet and over gypsum wall board. Photo 124 JHL	Both Layers None Detected
UM0622-A55	Gypsum wall board **ignore dark brown marlite wall board, same as A54**	First Floor Vestibule 1001: Northwest wall of vestibule, gypsum board under marlite. Photo 125 JHL	None Detected
UM0622-A56	Tarry black (probably remnant) flooring mastic	First Floor Vestibule 1001: Southwest quadrant of vestibule, adhering multicolored short shag carpet to concrete. Photo 128 JHL	1.2 % Chrysotile
UM0622-A57	6" flexible beige cove base; with pliable tan and light brown cove base mastics	First Floor Vestibule 1001: Southwest wall of vestibule, adhered to marlite wall panel with tan mastic. Photo 130 JHL	Both Layers None Detected

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SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UM0622-A58	Gypsum wall board	First Floor Vestibule 1001: Southwest wall of vestibule, gypsum wall board. Photo 132 JHL	Both Layers None Detected
UM0622-A59	Fluffy grey spray-on fireproofing	First Floor Library 141: Center of room near structural column above suspended ceiling on steel beam. Photo 156 JHL	None Detected
UM0622-A60	Hard dark brown remnant wall tile mastic; with remnant fiberglass from wall tile	First Floor Library 141: Center of room near structural column above suspended ceiling on unfinished gypsum wall board. Photo 158	None Detected
UM0622-A61	Fluffy gray spray-on fireproofing	First Floor Library 141: Center of room near structural column above suspended ceiling on wood framing. Photo 160 JHL	None Detected
UM0622-A62	Gypsum wall board, older	First Floor Library 141: Center of room near structural column above suspended ceiling, remnant unfinished gypsum wall board. Photo 161 JHL	None Detected
UM0622-A63	6" flexible beige cove base; with pliable cream cove base mastic; with tarry black carpet mastic; with white joint compound	First Floor Library 141: Center of room on south side of structural column, under wall carpet on gypsum board. Photo 118-119 RAF	All Layers = None Detected
UM0622-A64	White joint compound; gypsum wall board	First Floor Library 141: Center of room on south side of structural column, under wall carpet. Photo 120 RAF	JC = None Detected, GWB None Detected
UM0622-A65	Hard grey leveling compound; hard brown carpet mastic, with remnant tarry black mastic	First Floor Library 141: Center of room on south side of structural column, under blue short shag carpet, over concrete. Photo 121 RAF	All Layers = None Detected
UM0622-A66	White joint compound; gypsum wall board	First Floor Corridor 1100: Adjacent to classroom 154, above suspended ceiling, gypsum wall board. Photo 123 RAF	JC = 1.7% Chrysotile
UM0622-A67	Greenish Gray 9"x9" floor tile; with tarry black mastic **ignore tan mastic, same as A68**	First Floor Corridor 1100: Adjacent to room 141 at southeast jog in wall, underneath beige birch bark floor tile and adhered to concrete with black mastic. Photo 167 JHL	FT = 0.25% Chrysotile, Black Mastic = 1.2%
UM0622-A68	Beige 12"x12" birch bark floor tile; with hard tan mastic	First Floor Corridor 1100: Adjacent to room 141 at southeast jog in wall, adhered to 9"x9" green floor tile with tan mastic. Photo 166 JHL	Both Layers None Detected
UM0622-A69	White joint compound	First Floor Corridor 1100: Adjacent to room 141 at southeast jog in wall, behind plywood on gypsum wall board. Photo 168 JHL	None Detected
UM0622-A70	Gypsum wall board	First Floor Corridor 1100: Adjacent to room 141 at southeast jog in wall, gypsum wall board behind plywood. Photo 168 JHL	Both Layers None Detected

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UM0622-A71	6" flexible beige cove base; with pliable cream cove base mastic	First Floor Corridor 1100: Adjacent to room 141 at southeast jog in wall, cove base adhered to marlite wall panel with cream mastic. Photo 170 JHL	Both Layers None Detected
UM0622-A72	Brown rubber flooring; with hard brown mastic	First Floor Classroom 157: North corner of room at transition from carpet to rubber floor, rubber floor adhered to green 9"x9" floor tile with brown mastic. Photo 140 RAF	Both Layers None Detected
UM0622-A73	Green 9"x9" floor tile; with tarry black mastic **ignore tan mastic, same as A72**	First Floor Classroom 157: North corner of room at transition from carpet to rubber floor, floor tile adhered to concrete with black mastic. Photo 140 RAF	FT = 6.8% Chrysotile, Black Mastic = ND
The testing method used (polarized light microscopy [PLM]) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation should be made by quantitative transmission electron microscopy (TEM).			

Table 1D includes samples taken in July 2022 in areas affected by the seismic investigation work and the results of the laboratory analysis. Note, some of these materials may have been removed by the previous project, but are included here to illustrate similar materials from the eras of construction. Asbestos field survey data sheets and laboratory reports are included in Appendix A. Refer to Appendix G for sample locations.

TABLE 1D

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UM72922-A01	Red and light tan joint filler, plus plaster scratch coat	Room 150, East wall, lower left hand side at crack. Photos 8 & 9	All Layers = None Detected
UM72922-A02	Red and light tan joint filler	Room 150, East wall, upper right hand side at crack. Photos 10, 13 & 14	Both Layers None Detected
UM72922-A03	Light tan joint filler	Room 179, North wall, middle of wall. Photo 20	None Detected
UM72922-A04	Greenish tan mastic, likely to wood furring strip	Room 179, North wall, middle of wall. Photos 21 & 22	None Detected
UM72922-A05	Black tarry waterproofing on concrete	Room 179, North wall, left side of wall. Photo 23	6.7% Chrysotile
UM72922-A06	Possibly hot mop tar, adhering cork to concrete, more shiny	Room 236, South wall to the right of the ductwork. Photo 36	None Detected
UM72922-A07	Possibly waterproofing tar, dull finish	Room 236, South wall to the right of the ductwork. Photos 37 & 38	10% Chrysotile
The testing method used (polarized light microscopy [PLM]) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation should be made by quantitative transmission electron microscopy (TEM).			

Table 1E includes samples taken in April 2014 in areas affected by the exterior stair replacement work and the results of the laboratory analysis. Note, some of these materials may have been removed by the previous project, but are included here to illustrate similar materials from the eras of construction. Asbestos field survey data sheets and laboratory reports are included in Appendix A. Refer to Appendix G for sample locations.

TABEL 1E

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UM0414-A01	Grey gasket for light fixture	From light fixture at bottom of stairs – Photo 29	None Detected
UM0414-A02	Brown mastic for cement board	From top of exterior 2nd floor wall at damaged area adjacent to stairs – Photo 30	None Detected
UM0414-A03	Black sealant for missing trim piece	From top of exterior 2nd floor wall at damaged area adjacent to stairs – Photo 31	None Detected
UM0414-A04	Grey cement board	From top of exterior 2nd floor wall at damaged area adjacent to stairs – Photo 32	30% Chrysotile
The testing method used (polarized light microscopy [PLM]) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation should be made by quantitative transmission electron microscopy (TEM).			

Table 1F includes samples taken in November 2005 in areas affected by the window replacement work and the results of the laboratory analysis. Note, some of these materials may have been removed by the previous project, but are included here to illustrate similar materials from the eras of construction. Asbestos field survey data sheets and laboratory reports are included in Appendix A. Refer to Appendix G for sample locations. Three other samples from the window replacement project were taken by Central Environmental Inc. in June 2003, and Appendix A has the chain of custody and laboratory results, but there are no sample locations for those samples.

TABEL 1F

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UM1104-A1	Black water proofing below window sill on concrete	Room 220, below window sill 11:36 AM	10 % Chrysotile
UM1104-A2	Brown mastic under type 1 ceiling tile	Room 220, adjacent to windows 12:00 PM	None Detected
UM1104-A3	12 x 12 smooth ceiling tile - fiberglass matrix - Type 1	Room 220, adjacent to windows 4:40 PM	None Detected
UM1104-A4	Grey window caulking	Room 200, around windows	1.6 % Chrysotile
UM1104-A5	Grey window caulking	Room 220, around windows	Not Analyzed Assumed same as A4
UM1104-A6	12 x 24 smooth ceiling tile - fiberglass matrix - Type 2	Room 224, SE corner on wall by window and molding - 4:51 PM	None Detected
UM1104-A7	Brown mastic under type 2 ceiling tile	Room 224, SE corner on wall by window and molding	None Detected
UM1104-A8	White type 1 ceiling tile	Room 224, adjacent to windows 4:51 PM	None Detected
UM1104-A9	Brown mastic under type 1 ceiling tile	Room 224, adjacent to windows	None Detected
UM1104-A10	White type 1 ceiling tile	Room 157, adjacent to windows 4:45 PM	None Detected
UM1104-A11	Brown mastic under type 1 ceiling tile	Room 157, adjacent to windows	None Detected
UM1104-A12	Type 2 ceiling tile	Room 157, SW wall by molding 4:46 PM	None Detected

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UM1104-A13	Brown mastic under type 2 tile	Room 157, SW wall by molding	None Detected
UM1104-A14	Type 2 ceiling tile	Room 164, NE wall by window and molding - 4:48 PM	None Detected
UM1104-A15	Brown mastic under type 2 tile	Room 164, NE wall by window and molding	None Detected
UM1104-A16	Type 2 ceiling tile	Room 165, SE wall by molding 4:50 PM	None Detected
UM1104-A17	Brown mastic under type 2 tile	Room 165, SE wall by molding	None Detected
UM1104-A18	Type 1 ceiling tile	Room 165, adjacent to windows 4:50 PM	None Detected
UM1104-A19	Brown mastic under type 1 tile	Room 165, adjacent to windows	None Detected
UM1104-A20	Brown mastic under type 1 tile	Room 118, under old tile above drop ceiling	None Detected
UM1104-A21	Type 1 ceiling tile	Room 118, old tile above drop ceiling	None Detected
UM1104-A22	Brown mastic under ceramic tile	Room 170, East wall above drop ceiling	None Detected
UM1104-A23	Green texture scraped off painted concrete ceiling	Room 170, above drop ceiling	2.0 % Chrysotile
UM1104-A24	Black marlite mastic	Room 207, behind door trim 4:34 PM	None Detected
UM1104-A25	Brown fibrous wall insulation	Room 220, in wall below windows	None Detected
The testing method used (polarized light microscopy [PLM]) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation should be made by quantitative transmission electron microscopy (TEM).			

Table 1G includes samples taken in March 2004 in areas affected by the door replacement work and the results of the laboratory analysis. Note, some of these materials may have been removed by the previous project, but are included here to illustrate similar materials from the eras of construction. Asbestos field survey data sheets and laboratory reports are included in Appendix A. Refer to Appendix G for sample locations.

TABLE 1G

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UM-A01	Brown Paper Insulation	Door 121 – Style 10 – Music Room	None Detected
UM-A02	Brown Paper Insulation	Door 124A – Style 9 – Music Room	None Detected
UM-A03	Yellow Fiberglass Insulation	Door 173 – Style 12 – Custodial Closet	None Detected
UM-A04	White Fibrous Insulation	Door 01 – Style 13 – Basement Storage Room	40% Chrysotile
The testing method used (polarized light microscopy [PLM]) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation should be made by quantitative transmission electron microscopy (TEM).			

Table 1H includes samples taken in April 2002 related to a duct cleaning project and the results of the laboratory analysis. Note, some of these materials may have been removed by the previous project, but are included here to illustrate similar materials from the eras of construction. Asbestos field survey data sheets and laboratory reports are included in Appendix A. Refer to Appendix G for sample locations.

TABLE 1H

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UJ4502-A01	Gray/pink sink undercoating	Classroom 223	None Detected
UJ4502-A02	Sprayed on Fireproofing	North IMC, Small Room	None Detected
UJ4502-A03	Brown ceiling tile mastic	NW quadrant of IMC, Old ceiling above lay-in ceiling tile	None Detected
UJ4502-A04	Sprayed on Fireproofing	NE quadrant of IMC, above lay-in ceiling tile	None Detected
UJ4502-A05	Sprayed on Fireproofing	Center of IMC on East side	None Detected
UJ4502-A06	Black cement asbestos board mastic	Fan Room with AHU-3, NE Corridor	None Detected
UJ4502-A07	Clock housing mastic	E Kindergarten Room	None Detected
UJ4502-A08	Gray duct sealant	Return air duct, Stage, Fan duct above ceiling	None Detected
UJ4502-A09	Black sound lining mastic	MPR AHU Discharge Plenum	None Detected
UJ4502-A10	Gray duct sealant	Exhaust Fan duct in MPR Fan Room	None Detected
UJ4502-A11	Gray clock housing mastic	Clock speaker box in Gym	None Detected
UJ4502-A12	Gray duct sealant	Art Room Air Handling Unit, return duct	None Detected
The testing method used (polarized light microscopy [PLM]) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation should be made by quantitative transmission electron microscopy (TEM).			

Table 1J includes samples taken in April 2001 in areas affected by the work and the results of the laboratory analysis. Note, some of these materials may have been removed by the previous project, but are included here to illustrate similar materials from the eras of construction. Asbestos field survey data sheets and laboratory reports are included in Appendix A. Refer to Appendix G for sample locations.

TABLE 1J

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UJ41001-A01	12"x12" Tan floor tile with gray and white streaks (FT-1) with tan mastic	Rm. 110, center of E. wall	Tile-None Detected Mastic-None Detected
UJ41001-A02	Tan mastic on marlite	Rm. 109 under sinks on S. wall	None Detected
UJ41001-A03	Sand stone sheet vinyl with red specks (SV-1)	Rm. 109, N. side of double doors to Cafeteria	None Detected
UJ41001-A04	Gray sink undercoat	Rm. 109 sink on W. wall	None Detected
UJ41001-A05	Light brown cove base mastic	Rm. 106, W. side of door	None Detected
UJ41001-A06	Beige sheet vinyl with minute white streaks (SV-2) with mastic	Rm. 106, W. side of door	Vinyl-None Detected Mastic-None Detected
UJ41001-A07	Dark brown cove base mastic	Rm. 106, W. side of door	None Detected
UJ41001-A08	Brown glued-on ceiling tile mastic	Rm. 101, SE corner of room	None Detected
UJ41001-A09	12"x12" Flat white glued on ceiling tile (GCT-1)	Rm. 101, SE corner of room	None Detected

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SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
UJ41001-A10	2'x4' Lay-in ceiling tile with 5" squares (LCT-1)	Rm. 101, SE corner of room	None Detected
UJ41001-A11	GCT-1	Rm. 114, 1 foot inside door to corridor	None Detected
UJ41001-A12	Brown glued-on ceiling tile mastic	Rm. 114, 1 foot inside door to corridor	None Detected
UJ41001-A13	2'x4' Lay-in ceiling tile with random 3/4" fissures and dots (LCT-2)	Rm. 114, 1 foot inside door to corridor	None Detected
UJ41001-A14	12"x24" Glued-on ceiling tile with 1 1/2" aligned fissures and dots (GCT-2)	Rm. 118, NW corner of room	None Detected
UJ41001-A15	Brown glued-on ceiling tile mastic	Rm. 118, NW corner of room	None Detected
UJ41001-A16	12"x12" Glued-on ceiling tile with 1 1/2" aligned fissures and dots (GCT-3)	Rm. 124, 10 feet from S. wall, center of room	None Detected
UJ41001-A17	Tar paper (brown)	S. first floor restroom pipe chase, S. wall, W. end	None Detected
UJ41001-A18	Plaster base	S. first floor restroom pipe chase, S. wall, W. end	None Detected
UJ41001-A19	Black tar paper	S. first floor restroom pipe chase, S. wall, W. end	None Detected
UJ41001-A20	LCT-2	Boys' S. restroom, 1 st floor, E. end at angle center of room	None Detected
UJ41001-A21	Black cork mastic	Above Janitor Closet, N. restroom above attic entrance	None Detected
UJ41001-A22	Cream and light gray mosaic sheet vinyl with green and brown specks (SV-3)	Rm. 114, S. side of door to corridor	None Detected
UJ41001-A23	Black fiberboard mastic	S.E. utilidor 10 feet S. of basement entrance, E. wall	None Detected
UJ41001-A24	LCT-1	Rm. 104, 5 feet N. of outside corner of closet	None Detected
UJ41001-A25	LCT-1	Rm. 103 center of room	None Detected
UJ41001-A26	LCT-2	SW corner of intersection of corridors 100 and 111	None Detected
UJ41001-A27	GCT-1	Rm. 201 over shelf area by door, center of shelf area 2 feet from wall	None Detected
UJ41001-A28	GCT-2	Rm. 201 over shelf area by door, center of shelf on soffit	None Detected
UJ41001-A29	GCT-2	Rm. 124, SW corner of room	None Detected
UJ41001-A30	GCT-3	S. end of W. set of light fixtures	None Detected
UJ41001-A31	GCT-3	S. end of E. set of light fixtures	None Detected
UJ41001-A32	White Joint compound	Room 111B Center of East wall	None Detected
UJ41001-A33	White Joint compound	Room 118B Center of East wall	None Detected
The testing method used (polarized light microscopy [PLM]) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation should be made by quantitative transmission electron microscopy (TEM).			

Table 1K includes samples taken in May 1991 in areas affected by the work and the results of the laboratory analysis. Note, some of these materials may have been removed by the previous project, but are included here to illustrate similar materials from the eras of construction. Asbestos field survey data sheets and laboratory reports are included in Appendix A. No sample location drawings are available for these samples.

TABLE 1K

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
MAA-01	Gypsum, Mud, Tape	Hallway, wall by office	2% Chrysotile
MAA-02	Gypsum, Mud	West vestibule	2% Chrysotile
MAS-03	12" x 12" Ceiling Tile	Teachers' lounge above stove	None Detected
MAS-04	12" x 24" Wall Tile	Classroom at soffit	None Detected
MAS-05	Yellow / Brown Mastic	Teachers' lounge ceiling	None Detected
MAR-06	Roof Tar and Patch	Roof above TL near vent	10% Chrysotile
The testing method used (polarized light microscopy [PLM]) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation should be made by quantitative transmission electron microscopy (TEM).			

Other older testing data from 1988, 1994, 1995 and 1996 are included in Appendix A, but are not copied here. Most of that older testing does not have sample location drawings. Previous testing, partially included here, identified asbestos-containing hard and chalky "MAG" pipe insulation on the heat system piping, asbestos-containing corrugated paper "AIRCELL" pipe insulation on domestic water and roof drain piping, along with asbestos-containing floor tiles and black mastics throughout the original 1952 building.

The following materials have been found to contain asbestos in this or previous surveys, or were assumed to contain asbestos.

1. Spray on ("popcorn") green ceiling texture and overspray above ceiling in first floor bathrooms in the 1952 era (confirmed asbestos-containing).
2. Acoustic plaster wall coating in MPR 117 on top half of northwest concrete wall within gypsum wallboard soffit (confirmed asbestos-containing).
3. Joint compound in gypsum wallboard systems on the ceilings and walls in the 1952 era (confirmed asbestos-containing).
4. Cement asbestos board (CAB) in the 1952 era fan rooms and at exterior exit stair (confirmed asbestos-containing).
5. Tan, chip pattern sheet vinyl flooring and mastics in library room 144 and 144A in the 1952 era (confirmed asbestos-containing).
6. Black flooring mastic in the 1952 era, located throughout, some of the original asbestos floor tiles have been removed (confirmed asbestos).
7. Various colors of 9" x 9" vinyl asbestos tile in the 1952 era covered in many areas with carpeting or a second layer of 12" x 12" vinyl composition tiles (confirmed asbestos).
8. Door sealants in the 1952 era. (confirmed asbestos).
9. Remnants of window sealants in the 1952 era (confirmed asbestos-containing).
10. Flange gaskets on piping (assumed asbestos-containing) in all eras.
11. Tarry sound lining in clock/speaker boxes and ceiling mounted speaker boxes of 1952 era (confirmed ACM).
12. Fire door insulation of one door in the 1952 era (confirmed asbestos-containing).
13. Tarry damp-proofing at foundations throughout all eras (assumed ACM, and assumed to contain PCB's).
14. Interior tarry damp-proofing sealant at interior side of all exterior concrete walls and underside of the roof of the 2nd floor in the original 1952 era (confirmed asbestos-containing and confirmed to contain PCB's).
15. Built-Up roofing throughout all eras (confirmed in the 1952 era, assumed asbestos-containing in the 1984 and 1997 era).

16. Roof patch tars throughout all eras (confirmed asbestos-containing).
17. Sealants and patching tars of metal roofing (assumed asbestos-containing).
18. Pipe insulation in the 1952 era (confirmed asbestos-containing, most removed).
19. "Mag" and "Aircell" or other asbestos-containing insulation on active and abandoned direct-bury pipe insulation (assumed asbestos-containing).
20. Buried cold water piping, and roof drain and/or storm water piping, assumed to be asbestos-cement, "Transite" piping (assumed asbestos-containing).

The effects of the above asbestos-containing materials on the proposed renovation are discussed below.

"Popcorn Ceiling" Sprayed-On Acoustic Texture

An acoustic texture, commonly called a "Popcorn Ceiling" was sprayed on the concrete ceiling in Bathroom 170. Because it was applied by spray, there will be overspray from the "Popcorn Ceiling" on other building elements in the vicinity of the "Popcorn Ceiling". The "Popcorn Ceiling" was in good condition and is considered friable. The "Popcorn Ceiling" will typically become friable during disturbance or removal, and is RACM and is required to be removed prior to demolition.

Sprayed-On Acoustic Plaster Wall Coating

An acoustic plaster wall coating was sprayed on the top half of the northwest concrete wall of MPR 117. The material was covered with a gypsum board soffit. Because it was applied by spray, there will be overspray on other building elements in the vicinity of the wall coating. The acoustic plaster wall coating was in good condition and is considered friable. The material will be removed by this project and will remain friable during disturbance or removal, and is RACM and is required to be removed prior to demolition.

Joint Compound

Joint compound on gypsum board walls, soffits and ceilings throughout the 1952 era of the building was asbestos-containing. No asbestos has been detected in the gypsum board. Joint compound was in good condition and is not considered friable unless damaged. The joint compound will be removed by this project. Gypsum wall board with asbestos-containing joint compound may be left in place during building demolition, but the debris that includes the gypsum wall board are required to be packaged and disposed of at a landfill permitted to accept non-friable asbestos wastes.

Cement Asbestos Board

The walls of Fan Room 207 are covered with cement asbestos board. The board is in good condition and is not friable. The cement asbestos board materials will be partially removed by this project. The cement asbestos panels are in good condition and are not friable in their present condition but is considered RACM and is required to be removed prior to demolition.

Sheet Vinyl Flooring

Tan, chip pattern, sheet vinyl flooring and mastics in Room 144 and 144A were asbestos containing. The sheet vinyl's will be removed by this project. The sheet vinyls are in good condition and are not friable in their present condition but are RACM and is required to be removed prior to demolition.

Floor Tile and Mastic

Various colors of 9" x 9" vinyl floor tiles and black flooring mastic throughout the 1952 era contain asbestos and are covered in many areas with carpeting or a second layer of 12" x 12" vinyl composition tiles. The floor tiles and mastics were mostly in good condition with a few localized areas of damage. Typically, vinyl asbestos floor tiles would become friable due to the forces of demolition, and are typically removed prior to demolition. The asbestos-containing mastics may remain in place during demolition, if the mastics do not become friable from the forces of demolition. If the mastic is left in place, all debris (including the concrete flooring) are required to be packaged and disposed of at a landfill permitted to accept non-friable asbestos wastes. The tile and mastic was not currently friable, and will be removed by this project. Refer to PCB discussion.

Door, Window and Penetration Sealants

The sealants at penetrations through the outer walls had an asbestos-containing sealant, including around door and window frames, as well as other penetrations in the 1952 era. The sealants are assumed to be not friable and in good condition, and are not quantified, as they will be removed with the remainder of the walls, windows or doors. The sealants and glazing compounds will be removed by this project. Refer to PCB discussion.

Flange Gaskets and Valve Packing

Due to their age, gaskets and valve packing on mechanical equipment throughout the buildings, but mostly in mechanical and fan rooms are assumed to be asbestos-containing. These materials are difficult to sample without disassembly of equipment and consequently limited sampling was performed. These materials were in good condition but may become friable during removal for replacement. The gaskets and packings will be removed by this project.

Speaker/Clock Housing Coatings

Coatings on the interior of speaker and clock housings in classrooms and in speaker housings in hallways of the 1952 era contained chrysotile asbestos. This material was in good condition and was not friable and will be removed by this project.

Door Insulation

Metal door in the basement was insulated with asbestos-containing insulation. The metal door and the door to the electrical room are assumed to be of the same construction and therefore contain asbestos insulation. The doors will be removed by this project.

Exterior Foundation Wall Damp-proofing Coating

The foundation waterproofing of all eras is assumed to contain asbestos. The coatings are assumed to be not friable and in good condition. The tarry coatings will be removed along with the concrete by this project. Refer to PCB discussion.

Interior Damp-proofing Coating

The black tarry coating at the interior side of exterior concrete walls and the second-floor ceiling of the 1952 era is asbestos-containing. The inside of the exterior walls and ceilings were also typically insulated with a cork insulation that was held in place by a hot-mop tar that did not contain asbestos. Removing the cork will likely also remove parts of the asbestos-containing damp proofing. The coatings are not friable and in good condition. The tarry coatings will be removed along with the concrete by this project. Refer to PCB discussion.

Roofing Material

Built-up roofs over the 1952 era flat roof section are assumed to contain asbestos. These materials are not friable and are generally in good condition and will be removed by this project. Roofing materials are typically not friable, and may remain in place during demolition, if the roofing does not become friable from the forces of demolition. If the roofing is left in place during demolition, all debris which include assumed asbestos-containing roofing materials are required to be packaged and disposed of at a landfill permitted to accept non-friable asbestos wastes. Refer to PCB discussion.

Roofing Patching Tars and Sealants

Patching tars and sealants of all eras are assumed to be present at flashings, vents, and other equipment penetrating the roofing and contains asbestos. The roofing materials will be removed by this project. If the roofing is left in place during demolition, all debris which include assumed asbestos-containing roofing materials are required to be packaged and disposed of at a landfill permitted to accept non-friable asbestos wastes. Refer to PCB discussion.

Metal Roofing Sealants and Patching Tars

There is a metal, snow displacement roof over part of Room 181, the Art Room along with other metal roofs at the entrance and stairs. Sealants at the metal roof seams, flashing, and patching tars, etc. are assumed to contain asbestos. The roofing materials will be removed by this project. If the roofing is left in place

during demolition, all debris which include assumed asbestos-containing roofing materials are required to be packaged and disposed of at a landfill permitted to accept non-friable asbestos wastes. The Contractor is encouraged to sample the metal roofing sealants, flashing and patching tars to determine if they contain asbestos. Refer to PCB discussion.

Pipe Insulation

All visible piping inspected in the project areas were insulated with fiberglass insulation due to previous abatement projects or piping replacement projects, or newer construction. Steam, condensate, heating water supply and return, hot, cold, and hot water return domestic water piping and roof drain piping in the 1952 era of the school was previously identified to have asbestos-containing "Mag" and "Aircell" pipe insulation, and asbestos-containing "hard fitting" insulation at the valves, fittings, drain bowls, etc. Portions of the original 1952 piping was concealed above ceilings and walls in some areas, and underneath the classroom cabinets of the second floor. The heating and domestic water piping in the utilidors underneath the school has previously been "abated", but remnants of asbestos-containing insulation are assumed to be present at the pipe fittings, and where the piping penetrates the "ceiling" or walls of the utilidors. There are also original steam and condensate piping that extended beyond the utilidors and was called out to be direct-buried underneath the floor slab "in tile". Those heating system pipes are assumed to have asbestos-containing insulation inside of the "tile" enclosure. There were also seven kindergarten and first grade classrooms on the 1st floor which were originally fitted with loops of steam piping that was encased inside of the concrete floor slab. Those heating loops were shown on the "As-Built" drawings as not having any insulation, although ancillary piping above and below the floor are assumed to have asbestos-containing pipe insulation. As part of the pre-demolition removal of all RACM from the building, follow all piping runs into concealed spaces, and conduct demolition of concealing finishes and materials to inspect for, and remove all asbestos-containing pipe insulation. Refer to the original "As-Built" drawings included in the Contract Drawings, which show the original proposed locations of the piping systems. Note that the piping may have actually been installed in a different location than what was shown.

Abandoned Buried Pipe Insulation

The building was previously served with steam and condensate from the Base Steam distribution system, and the buried piping exterior to the building was abandoned in place, and the capped ends of the piping can be seen in the Basement mechanical room. That piping was typically direct-buried and has been found to contain asbestos at other locations on Base. The abandoned steam and condensate outside of the building is assumed to have asbestos-containing insulation and shall be removed and capped as shown on the Civil drawings.

Buried Asbestos-Cement Piping.

The building was previously served with cold water from the Base water distribution system, and the buried piping exterior to the building is assumed to be constructed with asbestos-cement or "Transite" piping and to also be insulated with asbestos-containing pipe insulation. The roof drain and/or storm water system piping is also assumed to be constructed with asbestos-cement or "Transite" piping. The cold water, roof drain and/or storm water piping outside of the building with asbestos-containing components shall be removed and capped as shown on the Civil drawings.

2. Asbestos in Dusts

The settled and concealed dusts were previously examined by an EPA Certified Building Inspector but no samples for asbestos in dusts were authorized for this project, but was sampled in the past. Based on their visual inspection and experience from similar buildings, the inspector determined that the typical settled and concealed dusts are not "asbestos debris" from an asbestos-containing building material (ACBM). Based on similar sampling from similar buildings, the inspector also determined that the dusts are unlikely to contain more than one percent (1%) asbestos by weight, and therefore are not an asbestos-containing material (ACM).

Dust Sampling for Asbestos

The following Table 2A lists the dust samples for asbestos taken in April 2002, and the results of the laboratory analysis using ASTM D5755. Dust sample field survey data sheets and laboratory reports are included as Appendix B. Refer to Appendix G for sample locations.

TABLE 2A

SAMPLE NO.	BUILDING AREA / LOCATION	RESULTS ASBESTOS St./cm² *
UJ4502-D01	CUV In Classroom 165	None Detected
UJ4502-D02	CUV, Fan Housing Classroom 223	None Detected
UJ4502-D03	Exhaust Duct from Classroom 228	None Detected
UJ4502-D04	Return Air Duct on North Side of IMC	22,200.0 Chrysotile & Actinolite
UJ4502-D05	Last Supply Duct at NW of IMC	14,800.0 Chrysotile
UJ4502-D06	RA Duct at NW of MPR	481,000.0 Chrysotile
UJ4502-D07	Fan Housing Supply Side	49,300.0 Chrysotile
UJ4502-D08	AHU-3; MPR Supply Downstream of Heat	185,000.0 Chrysotile
UJ4502-D09	RA & OA Mix Plenum Gym Unit	4,930.0 Chrysotile
UJ4502-D10	Gym Unit Supply at Fan	22,200.0 Chrysotile
UJ4502-D11	Art Room AHU RA Upstream of Filters	9,870.0 Chrysotile
UJ4502-D12	Art Room AHU Supply at Fan	59,200.0 Chrysotile

* The St./cm² results by ASTM D5755 and D5756 are not directly comparable due to differences in sample preparation. The D5756 results are primarily meant to determine the weight percentage. Refer to discussion in Part E below.

The following Table 2B lists the dust samples for asbestos taken in November 2004, and the results of the laboratory analysis using ASTM D5756. Dust sample field survey data sheets and laboratory reports are included as Appendix B. Refer to Appendix G for sample locations.

TABLE 2B

SAMPLE NUMBER	DESCRIPTION	LOCATION	RESULTS ASBESTOS St./cm² *	RESULTS PERCENTAGE ASBESTOS
UM1104-D1	Dust on metal, 10cm x 10cm	Room 118, on light fixture in NE corner of office.	34,000.0 Chrysotile	0.00077%
UM1104-D2	Dust on metal, 10cm x 10cm	Room 170, on light fixture on South end of room	31,000.0 Chrysotile	0.014%
UM1104-D3	Dust on metal, 10cm x 10cm	Room 207, on top of fresh air intake	180,000.0 Chrysotile	0.0017%

* The St./cm² results by ASTM D5755 and D5756 are not directly comparable due to differences in sample preparation. The D5756 results are primarily meant to determine the weight percentage. Refer to discussion in Part E below.

3. Lead-Containing Materials

Lead-Testing

EHS-Alaska tested paint and other materials throughout the affected areas of the building using a SciAps XRF lead paint analyzer. Previous lead testing in the building used a Heuresis Pb200i, Niton XLp-300A, NITON XLI303AW and NITON XL309 XRF lead paint analyzers. Lead in paints tested varied from a trace amount to 0.5019 mg/cm². Lead in other materials tested varied from a trace amount to 0.0719 mg/cm². Refer to the Lead Analyzer Test Results Table in Appendix F that identifies the surfaces tested, and the results. The Lead Test Locations are shown in the Drawings in Appendix G.

Paints

There were varying lead contents found in the paints, based on what surfaces they are on, with most surfaces containing little lead (but are still classified as lead-containing materials by OSHA). The highest levels of lead were found on structural members and miscellaneous steel, with lower levels on walls and other painted surfaces, and lowest levels on pre-finished materials.

Lead based paints (paint containing more than 1.0 mg/cm² of lead) were identified in the project on one wooden door frame in classroom 213 and at exterior concrete window stoops however, it is anticipated that other components which are hidden, concealed, or otherwise not tested may be painted with lead-based paint. Lead was detected at very low levels in most of the painted floor, wall and ceiling surfaces. XRF testing is not able to "prove" that "no" lead exists in the paint. Low levels of lead found by XRF testing does not mean that the paints are free of lead, the paints may contain lead. At least an initial exposure determination of potential worker exposures for all disturbance of lead-containing materials is required unless laboratory analysis shows that there is zero detectable lead in the materials being disturbed (which requires special analysis). However, these paints may not present a hazard to occupants or workers performing renovation or demolition if lead-safe work practices are followed.

Ceramic Wall Tile and Glazing

Raised concentrations of lead were found in the glazing of ceramic plumbing fixtures and tiles. The concentrations of lead in ceramic glazing compounds should not be compared to lead-based paint criteria, as the glazing is inherently less likely to cause lead to be present in dusts or on surfaces, where it can be ingested. Lead in ceramic tile glazing has been known to result in worker exposures above the OSHA permissible exposure limit for workers performing renovation or demolition, and lead-safe work practices should be implemented, including regulated areas and HEPA filtered exhausts to control the possible spread of lead dusts. All ceramic tiles and fixtures in the facility should be assumed to contain lead.

Metallic Lead in Batteries, Pipe Solder and Flashing

Metallic lead items identified in the building included lead soldering at the sheet metal roof flashings, lead solder at copper piping, and poured lead sealants at bell and spigot joints of waste and vent piping and lead acid batteries in emergency lights and other battery backup equipment. The metallic lead materials are to be removed prior to demolition, and should be recycled or disposed of as hazardous waste.

Lead Dusts

The settled and concealed dusts were examined but no samples for lead in dusts were authorized for this project. Based on their visual inspection and similar sampling from similar buildings, the inspector also determined that the dusts are likely to have measurable concentrations of lead in the dusts.

Portions of the dusts in the building have been previously sampled for lead content. The following Table 3A lists the lead dust samples taken in November 2004, and the results of the laboratory analysis. Lead Dust field survey data sheets and laboratory reports are included as Appendix C. Refer to Appendix G for sample locations.

TABLE 3A

SAMPLE NUMBER	DESCRIPTION	LOCATION	RESULTS LEAD/SF µg/ft²
UM1104-LD1	Dust on metal, 10cm x 10cm	Room 118, on light fixture in NE corner of office.	36.0 µg/ft ²
UM1104-LD2	Dust on metal, 10cm x 10cm	Room 170, on light fixture on South end of room	80.0 µg/ft ²
UM1104-LD3	Dust on metal, 10cm x 10cm	Room 207, on top of fresh air intake	170.0 µg/ft ²
UM1104-LD4	Field Blank	Field Blank	<10 µg/ft ²

4. PCB-Containing Materials

Light Ballasts

Older fluorescent lights typically have PCB-containing ballasts. PCB-containing ballasts in fluorescent lights were banned in 1978, but manufacturers were allowed to use up existing stocks, and lights may have been reused from other facilities. The survey included examination of what were considered to be representative light fixtures, but not all fixtures were able to be accessed. All lights shall be inspected during removal. Unless ballasts were marked "No PCBs," they must be assumed to contain PCBs and must be disposed of as a hazardous waste when removed for disposal. The fluorescent light fixtures will be removed prior to demolition.

Older HID lights may have PCB-containing ballasts. Due to height restrictions and sealed ballast enclosures, the HID fixtures were not able to be accessed. All HID lights shall be inspected during removal or relocation. If ballasts are not marked "No PCBs," we suggest contacting the manufacturer of the lights to determine if the ballasts contain PCB's, or assume that they contain PCB's and be disposed of as a hazardous waste. HID light fixtures with assumed PCB-containing ballasts will be removed prior to demolition.

PCB Bulk Products

Representative paint and sealant samples were collected from Ursa Major Elementary School, but that sampling was not exhaustive, and for bidding purposes, all waste streams from all eras of the building are assumed to have detectable quantities of PCB's, except for the Boiler/Generator building built in 2003. The Contractor is encouraged to sample building materials, especially from the 1997 or later eras of construction to minimize the volume of wastes that will need to be shipped to the Lower 48 for disposal.

The following Table 4A summarizes the PCB Bulk samples taken February 2025 by EHS-Alaska, Inc. Field Survey Data Sheets and Lab results are included in Appendix D. A drawing showing sample locations is provided in Appendix G.

TABLE 4A

SAMPLE NUMBER	MATERIAL	LOCATION	TOTAL PCB CONCENTRATION
UMES2506-PCB01	White, Green, and Pink Paint Layers, GWB	Office 102, 1952 Era, northwest wall. P-180F	19.5 ppm
UMES2506-PCB02	Off-white Paint, GWB	Library 141, 1984 Era, Southeast wall beneath windows. P-411T	1.2 ppm
UMES2506-PCB03	Dark Red Paint	Basement 35, 1952 Era, on concrete floor in front of stairs. P-213F	15 ppm
UMES2506-PCB04	Black Tarry Sprayed-on Dampproofing. (Note: Contains Asbestos)	Mechanical 207, 1952 Era, southeast wall near corner. P-220F	100 ppm

SAMPLE NUMBER	MATERIAL	LOCATION	TOTAL PCB CONCENTRATION
UMES2506-PCB05	Hot Mop Tar (Note: May Contain Asbestos)	Blower Room 236, 1952 Era, southeast wall, on spray-on DP and concrete. P-242F	11 ppm
UMES2506-PCB06	Beige Frame Sealant	Generator Building Exterior, 2004 construction, east wall, from between ventilation slats metal frame and CMUs. P-288F	None Detected
UMES2506-PCB07	Black Rubber Window Frame Gasket	School Exterior, 2005 window replacement, Office 101's windows, from between metal window frame and glass. P-185T	None Detected
UMES2506-PCB08	Grey Window Frame Sealant	School Exterior, 2005 window replacement, Classroom 153's windows, between metal frame and concrete column. P-297F	5.6 ppm
UMES2506-PCB09	Tan, Green, and Yellow Paint Layers	School Exterior, 1952 Era, from middle of Classroom 153's windowsill. P-1197T	540 ppm
UMES2506-PCB10	Pliable White Door Seam Sealant	School Exterior, 1952 Era, outside Vestibule 1101, between metal door frame and concrete. P-1212T	None Detected
UMES2506-PCB11	White, Pink Paint Layers	School Exterior, 1997 Era, north wall of Gym 184 near eastern corner. P-301F	None Detected
UMES2506-PCB12	Dk. Grey Window Frame Sealant	School Exterior, 1997 Era, Kindergarten 130, left side, between window frame and concrete. P-1260T	None Detected
UMES2506-PCB13	White, Pink, Green, and Yellow Paint Layers	School Exterior, 1984 ERA, south corner of Library 141, off of extruding column where the finish is smooth. P-303F	None Detected
Total PCB's listed herein includes the sum of all congeners of PCB's. Refer to the laboratory reports for the concentrations of the various congeners of PCBs found in the samples.			

Two of the samples had PCB concentrations above 50 ppm which would be classified by the EPA as PCB Bulk Product Wastes. Five samples contained more than 1 ppm PCBs detected but had concentrations of PCB's that were less than 50 ppm. Six samples had no detectable concentrations of PCB's. For bidding purposes, all waste streams from all eras of the building are assumed to have detectable quantities of PCB's, except for the Boiler/Generator building built in 2003. The Contractor is encouraged to sample building materials, especially from the 1997 or later eras of construction to minimize the volume of wastes that will need to be shipped to the Lower 48 for disposal. Refer to Regulatory Constraints discussion below for more information.

Soil Sampling for PCB's

Limited soil samples adjacent to the building were collected from around Ursa Major Elementary School. As described above, the soil samples were taken for screening purposes, were typically taken within 3 feet of the building exterior, and were a composite of the upper layer of soil, typically beneath the upper grass or wood chip layer.

The following Table 4B summarizes the soil samples taken June 2025 by EHS-Alaska, Inc. Field Survey Data Sheets and Lab results are included in Appendix D. A drawing showing sample locations is provided in Appendix G.

TABLE 4B

SAMPLE NUMBER	MATERIAL	LOCATION	TOTAL PCB CONCENTRATION
UMES2506-PCB01	Soil	North side of the building at Room 111.	0.108 ppm
UMES2506-PCB02	Soil	Planter box north of the main entrance at Office 101.	0.0302 ppm
UMES2506-PCB03	Soil	West side of the building at Room 154.	0.0646 ppm
UMES2506-PCB04	Soil	West side of the building at Room 174.	0.0377 ppm
UMES2506-PCB05	Soil	South side of the building at Room 178.	0.0907 ppm
UMES2506-PCB06	Soil	South side of the gymnasium at Room 185.	None Detected
UMES2506-PCB07	Soil	East side of the building at Room 165.	0.210 ppm
UMES2506-PCB08	Soil	East side of the building at Room 157.	0.512 ppm
UMES2506-PCB09	Soil	East side of the building at Room 127.	0.0512 ppm
UMES2506-PCB10	Soil	North side of the building at Room 117 MPR.	None Detected

All of the PCB soil samples contained less than 1 part per million of PCB's but at detectable levels. EHS-Alaska recommends that the Contractor discuss with Environmental Consultants who specialize in soil contamination to determine if additional sampling and/or characterization of the soils on site should be conducted.

5. Mercury-Containing Materials

Fluorescent Lamps

Fluorescent lamps use mercury to excite the phosphor crystals that coat the inside of the lamp. These lamps contain from 15 to 48 milligrams of mercury depending on their age and manufacturer. The Fluorescent light fixtures will be removed prior to the demolition.

High Intensity Discharge Lamps

High Intensity Discharge (HID) lamps use mercury and sodium vapors in the lamp, and also typically have lead-containing solders at the bases. These lamps contain varying amounts of mercury depending on their age and manufacturer. HID light fixtures will be removed prior to the demolition.

Rubber Flooring

3M Brand Tartan Track or Gym Flooring and other rubber floors installed during the 1970s up through the mid 1990's often contained a mercury catalyst. Some types of rubber flooring with mercury have been identified which were installed in the early 2000's. The rubber flooring was typically installed in gymnasiums, locker rooms, gym storage, restrooms and on tracks. The mercury content of this type of flooring varies, as does the amount of degradation that has occurred over time and therefore the extent to which mercury can be leached from the flooring. The rubber flooring on the 1997 Gymnasium was tested for mercury and found to contain 170 mg/kg of mercury when tested for Total Mercury using EPA method 7471B. According to industry data, mercury content below 1 mg/kg is an indication that mercury catalyst was not used on the rubber flooring. The flooring was re-tested using EPA Method 1311 using the Toxic Characteristic Leaching Procedure (TCLP) test to determine if the rubber flooring would be considered a hazardous waste for disposal.

The TLCP test result was 6.3 mg/l, which is higher than the EPA's 0.2 mg/l limit for the flooring to be considered non-hazardous. The rubber flooring in Ursa Major Elementary School must be treated as hazardous waste because it fails the RCRA Toxicity Characteristics Leaching Procedure (TCLP) test which limits mercury to 0.2 mg/L.

Disposal of mercury containing waste requires additional treatment if the total mercury present in the rubber flooring is equal to or greater than 260 mg/kg. If at or above 260 mg/kg of total mercury the waste must be incinerated by a special process to remove and capture the mercury before final disposal. The rubber

flooring in Ursa Major Elementary School contained 170 mg/kg of mercury, and all flooring wastes shall be disposed of as hazardous wastes, but is not a “High Mercury” hazardous waste that would require incineration. Because there are no hazardous waste landfills in the state of Alaska, this means the waste must be shipped to the lower 48.

Rubber Flooring field survey data sheets and laboratory reports are included as Appendix E. Refer to Appendix G for sample location. The following Table 5A lists the Rubber Flooring sample taken in February 2025, and the results of the laboratory analysis.

TABLE 5A – TOTAL MERCURY & TCLP SAMPLE SUMMARY

SAMPLE NUMBER	MATERIAL	LOCATION	MERCURY CONTENT **
UMES2502-M01 TCLP Extraction	Representative Rubber Flooring, light green & gray	Gym 184, east corner adjacent to office doorway. P224F	**TCLP Mercury, 6.3 mg/L
UMES2502-M01	Representative Rubber Flooring, light green & gray	Gym 184, east corner adjacent to office doorway. P224F	**Total Mercury, 170 mg/kg

**EPA limits: TCLP Mercury - 0.2 mg/L. Waste materials containing above this level must be treated as hazardous waste. Total mercury content equal to or greater than 260 mg/kg are in the High Mercury Subcategory of hazardous waste and require special treatment prior to disposal.

All mercury-containing items being removed by this project are required to be disposed of as hazardous waste or recycled.

6. Other Hazardous Materials

Smoke Detectors

Several radioactive smoke detectors were found in the demolition area. Radioactive items removed by this project are required to be disposed of as hazardous waste or recycled.

Hydraulic Elevator

There was a Hydraulic Elevator in the Administration area, which is required to be removed prior to demolition. The hydraulic fluids shall be removed and properly disposed of prior to disposal of the metallic portions, or the entire unit may be reused or recycled by the contractor. Soils at the Hydraulic elevator shall be tested by the Contractor for potential contamination.

Household Chemicals

Common household chemicals, including quantities of cleaners, disinfectants, floor or furniture wax were present in the building. These loose containers were present in the janitors closets primarily and will be disposed of by the contractor. These chemicals may also be utilized or recycled by the contractor for other projects. There has been extensive damage to the building, furnishings and stored items. All materials shall be inspected, categorized and disposed of by this Contract.

Soil Contamination

The scope of work for EHS-Alaska, Inc. did not include investigation of soils for petroleum or other contaminations.

Refrigerants

Refrigerators, freezers, ice machines and water coolers were identified in the building that may contain ozone depleting refrigerants. There was also an “Air Dryer” at the air compressor that uses ozone depleting refrigerants. Air conditioning units may also be present. Ozone depleting substances (ODS) are regulated by the EPA and must be removed by certified technicians prior to equipment disposal.

Heat Transfer Fluids

The existing heating and cooling system is assumed to contain heat transfer fluids, including glycol or other

boiler treatment chemicals. Any heat transfer fluids removed from the heating system shall be recovered, tested and properly disposed of or recycled for other projects. The heating and cooling system will be removed as part of the demolition.

E. REGULATORY CONSTRAINTS

1. Asbestos-Containing Materials

The Federal Occupational Safety and Health Administration (29 CFR 1926.1101) and the State of Alaska Department of Labor (8 AAC 61) have promulgated regulations requiring testing for airborne asbestos fibers; setting allowable exposure limits for workers potentially exposed to airborne asbestos fibers; establishing contamination controls, work practices, and medical surveillance; and setting worker certification and protection requirements. These regulations apply to all workplace activities involving asbestos-containing materials.

The EPA regulations, 40 CFR 61, Subpart M of the National Emission Standards for Hazardous Air Pollutants (NESHAP), established procedures for handling ACM during removal and disposal. The NESHAP regulations address three categories of ACM in a building being demolished:

1. Friable, or regulated ACM (RACM) which must be removed from a building before the building is demolished
2. Category I non-friable ACM (resilient flooring, asphalt roofing products, packing and gaskets)
3. Category II non-friable ACM (non-friable ACM other than Category I ACM).

If allowed by the disposal site, the EPA allows Category I and II non-friable ACM to remain in a building during demolition if: (1) Category I ACM is not in poor condition and is not friable and (2) the probability is low that Category II ACM will become crumbled, pulverized or reduced to powder during demolition. The condition of the ACM and method of demolition will generally determine if Category I and II non-friable ACM may be left in the building during demolition. This EPA standard also requires that no visible emissions be generated from the ACM during removal and transportation and does not allow intentional burning of any building containing ACM.

The EPA regulations require an owner (or the owner's contractor) to notify the EPA of asbestos removal operations and to establish responsibility for the removal, transportation, and disposal of asbestos-containing materials.

The disposal of asbestos waste is regulated by the EPA, the Alaska Department of Environmental Conservation, and the disposal site operator. Wastes being transported to the disposal site must be sealed in leak tight containers prior to disposal and must be accompanied by disposal permits and waste manifests.

2. Dusts with Asbestos

All of the dust samples taken at Ursa Major Elementary School through the years have contained less than 1 percent asbestos. The concentrations of asbestos structures per unit area of dust analyzed by ASTM D5756 are not directly comparable to the majority of dust sampling literature which use ASTM D5755 analysis due to differences in sample preparation. Both types of analysis include ultrasonic treatment to separate asbestos from interfering particulates. However, the D5756 method includes a much longer ultrasonication step that tends to break down the larger asbestos structures, such as bundles or groups of asbestos fibers into more simple, individual asbestos fibers to allow more accurate estimations of the weight of the fibers. That has a tendency to "create" multiple asbestos structures out of what was originally a single asbestos structure. Area concentrations for samples analyzed by ASTM D5756 for weight percentage may have a higher concentration than if the same sample was analyzed by ASTM D5755. This should not have any effect on the weight percentage results, as no asbestos structures are actually "created", but are just more finely divided. The structures per unit area results from ASTM D5756 analysis are given as a courtesy by the laboratory, and should be used as a general comparison of relative concentrations, and not compared to the ASTM D5755 analysis results or the indications of "background",

"medium" or "high" concentrations as discussed below and in the published literature on the implications of asbestos in dusts. The differences between the two types of analysis will depend on the relative sizes of the asbestos structures present in the dusts. If the dust has mostly single fibers, there would not be much effect. If the dust has bundles, clusters or matrixes of asbestos present, the concentration of structures per unit area may be reported as much higher by ASTM D5756 analysis than if it was analyzed by ASTM D5755.

Concentrations of asbestos in dust are considered to be at "background" levels when the concentrations are between 1,000 to 10,000 St./cm² when analyzed by ASTM D5755. Background levels for a particular location will depend on many factors, including whether or not asbestos occurs naturally in soils in the area. Concentrations greater than approximately 100,000 St./cm² are considered to have a higher likelihood of causing an exposure to asbestos fibers when the settled dusts are disturbed. Concentrations between 10,000 and 100,000 St./cm² lie in a median range. In all cases, the possible airborne concentrations of asbestos will depend on the type of disturbance, the quantity of dust that is disturbed, and the volume of the area into which the dust is made airborne.

D5755-Area Concentration Samples

The asbestos in dust concentrations found in sampling at Ursa Major Elementary School ranged from None Detected to 481,000.0 St./cm² when analyzed by ASTM D5755. "High" concentrations were found in 4 samples from Ursa Major Elementary School. The highest concentration was found in a return air duct at the northwest side of the MPR. Eight of the fifteen ASTM D5755 samples contained what is considered "medium" concentrations of asbestos and three samples were reported as None Detected.

Likely sources of asbestos in dusts include natural occurrences of asbestos

The types of asbestos found included chrysotile and actinolite forms of asbestos. 11 samples contained only chrysotile. One sample contained chrysotile and actinolite. Because actinolite has not been identified in bulk samples taken of materials within the school, that form of asbestos may have come from natural occurrences of asbestos in an outside source, such as rock or ore deposits, which appear to be common in Alaska.

Because the type of disturbance, concentration of asbestos in the dusts, quantity of dust disturbed, cohesiveness of the dusts and room sizes will change, the airborne asbestos levels expected during the project will depend on the contractor's means and methods of conducting the work. The mere presence of asbestos in the dusts does not necessarily imply that a "hazard" exists which would require the use of specially trained workers to "abate" the "hazard". All dusts will likely be required to be removed from the areas where asbestos-containing materials are being removed (abatement areas) in order to achieve clearances. The dusts in the other areas are to be controlled so as to limit worker exposures and prevent contamination of occupied areas of the building.

There is no established correlation between settled or adhered dusts with measurable concentrations of asbestos and airborne concentrations. The definition in the OSHA regulations of asbestos-containing materials as those materials that contain 1 percent or more asbestos by weight, apply to cohesive materials and not to dusts. The OSHA regulations are essentially "performance based", if workers are exposed above the permissible exposure limits, then all of the requirements in the regulations become effective.

3. Lead-Containing Materials

The EPA Standard 40 CFR 745, Lead-Based Paint Poisoning Prevention in Certain Residential Structures, defines lead-based paint hazards and regulates lead based paint activities in target housing and child-occupied facilities. The requirements of this regulation include training certification, pre-work notifications, work practice standards and record keeping. Areas in facilities built before 1978 that are typically classified as child occupied facilities may include but are not limited to: residential homes, day care facilities, preschools, kindergarten classrooms, restrooms, multipurpose rooms, cafeterias, gyms, libraries and other areas routinely used by children under 6 years of age. New training requirements for Firms (Contractors) and Renovators (Workers) became effective on April 22, 2010, and the revised dust-lead clearance levels

became effective on January 13, 2025. The building is not currently classified as a child occupied facility, therefore the requirements of 40 CFR 745 do not apply.

Federal OSHA (29 CFR 1926.62) and the State of Alaska (8 AAC Chapter 61) have promulgated regulations that apply to all construction work where employees may be exposed to lead. The disturbance of any surfaces painted with lead-containing paint requires lead-trained personnel, personnel protective procedures, and air monitoring until exposure levels can be determined. If initial monitoring verifies that the work practices being used are not exposing workers, monitoring and protection procedures may be relaxed. Experience has shown that some paints in most buildings will contain low concentrations of lead and disturbance of those paints are still regulated under the OSHA lead standard, 29 CFR 1926.62. Low levels, or "none detected" levels of lead found by XRF testing does not mean that the paints are free of lead, the paints may contain lead, and OSHA regulations apply during any disturbance of measurable amounts of lead present in paints.

Because the type of disturbance, quantity of lead dusts, cohesiveness of the dusts and room sizes will change, the airborne lead levels expected during the project will depend on the contractor's means and methods of conducting the work. The mere presence of lead in the dusts does not necessarily imply that a "hazard" exists which would require the use of specially trained workers to "abate" the "hazard". As a comparison, "clearance" lead dust concentrations established at the conclusion of a "lead abatement project" in child occupied facilities, are required to be $<5.0 \mu\text{g}/\text{ft}^2$ for floors, $<40.0 \mu\text{g}/\text{ft}^2$ for window sills, and $<100.0 \mu\text{g}/\text{ft}^2$ for window troughs, and $<40 \mu\text{g}/\text{ft}^2$ for porch floors.

The dust sampled in the building contained from $<36.0 \mu\text{g}/\text{ft}^2$ to $170.0 \mu\text{g}/\text{ft}^2$, however, none of the samples were taken at the floors, window sills, or window troughs, but were taken in areas that were typically inaccessible, and are unlikely to be disturbed during normal occupancy. The highest concentration found was in Room 207 on top of a fresh air intake. No portions of Ursa Major Elementary School would be currently classified as a "Child Occupied Facility".

There is no established correlation between settled or adhered lead dust concentrations and airborne concentrations. The OSHA regulations are essentially "performance based", if workers are exposed above the permissible exposure limits, then all of the requirements in the regulations become effective.

The EPA requires that actual construction or demolition debris that contains lead or lead-containing paint or other heavy metals be tested using the TCLP test to determine if the waste must be treated as hazardous waste. All federal, state and local standards regulating lead and lead-containing wastes are required to be followed during the renovation or demolition of portions of this building. Lead-acid batteries and other batteries are classified by the EPA as Universal Wastes. The EPA encourages that all Universal Wastes be recycled in accordance with 40 CFR 273, or in the case of lead-acid batteries, in accordance with 40 CFR 266, subpart G.

If the TCLP tests done on the waste stream(s) that are produced by the contractor are found to contain more than 5.0 mg/liter or 5.0 ppm of lead, they are classified as hazardous wastes, then those waste stream(s) will have to be packaged for shipping and disposal in accordance with hazardous waste and transportation regulations. Because there are no hazardous waste landfills in Alaska, this report assumes that any hazardous waste disposal would take place in Seattle or elsewhere in the Pacific Northwest.

4. PCB-Containing Materials

The EPA has promulgated regulations (40 CFR Part 761) that cover the proper handling and disposal of PCB-containing materials. PCB-containing "Bulk Product" materials (defined by the EPA as Bulk Products that contain more than 50 ppm PCBs) were found by this survey in black tarry dampproofing on the interior side of exterior concrete walls of the original 1952 build and the exterior paint of the original 1952 building. Five of the thirteen samples of paints and sealants in the building at Ursa Major Elementary School were found to contain low concentrations (more than 1 ppm, but less than 50 ppm) of PCBs that are not classified by the EPA as PCB containing materials at all. Those materials with low concentrations of PCBs included materials that were likely to have been manufactured after PCB's were "banned" in 1979. Six of the thirteen

samples had no detectable concentrations of PCB's.

Materials containing PCB's at any detectable concentrations are not allowed to be disposed of in Alaska Landfills under current Alaska Department of Conservation landfill permits, which exceeds the EPA regulations for disposal of PCB Bulk Products. The EPA regulates liquid PCBs differently from non-liquid materials, such as PCB Bulk Products.

For bidding purposes, all waste streams from all eras of the building are assumed to have detectable quantities of PCB's, except for the Boiler/Generator building built in 2003.

Bulk product wastes that contain PCBs at 50 ppm or greater are regulated by the EPA, however, even at concentrations higher than 50 ppm, (such as found by this survey), PCB bulk products are allowed by the EPA to be disposed of at municipal or non municipal, non-hazardous waste landfill because the PCBs in bulk products are not likely to leach out of the solid material. The following citation of 40 CFR 761.62(b) illustrates this: *"Disposal in solid waste landfills. (1) Any person may dispose of the following PCB bulk product waste in a facility permitted, licensed, or registered by a State as a municipal or non-municipal non-hazardous waste landfill: (i) Plastics (such as plastic insulation from wire or cable; radio, television and computer casings; vehicle parts; or furniture laminates); preformed or molded rubber parts and components; applied dried paints, varnishes, waxes or other similar coatings or sealants; caulking; Galbestos; non-liquid building demolition debris; or non-liquid PCB bulk product waste from the shredding of automobiles or household appliances from which PCB small capacitors have been removed (shredder fluff). (ii) Other PCB bulk product waste, sampled in accordance with the protocols set out in subpart R of this part, that leaches PCBs at <10 µg/L of water measured using a procedure used to simulate leachate generation."*

On October 24, 2012, EPA issued a Memorandum on the proposed reinterpretation of the PCB bulk product waste definition noting that building materials or substrates that are *"coated or serviced with PCB Bulk Product Waste (e.g., caulk, paint, mastic, sealants) at the time of designation of disposal are to be managed as a PCB bulk product waste, even if the PCBs have migrated from the overlying bulk product waste into the substrate, provided there is no other source of PCB contamination on or in the substrate."*

The EPA's 2012 Memorandum included the requirement that the potentially contaminated substrate (such as concrete or bricks or wood) be identified as PCB bulk product waste, prior to the material being designated as wastes, otherwise those materials would be classified as PCB remediation wastes, and be required to be disposed of at an EPA permitted hazardous waste landfill. If PCBs have migrated out of the PCB bulk product into the soils, then any soils containing more than 1 ppm, those soils are considered PCB remediation wastes and are subject to the cleanup and disposal requirements of 40 CFR 761.61.

The Anchorage Regional Landfill Policy prohibits the disposal of PCB waste with detectable concentrations of PCB's. State of Alaska regulation 18 AAC 60.025 prohibits the disposal of materials that contain a hazardous substance in concentrations that exceed the applicable soil cleanup levels in 18 AAC 75.341 (Table B1 or B2) in unlined landfills. This regulation is being applied to lead-based paint and PCB-containing building materials (PCB Bulk Products) in renovation or demolition projects by the Alaska Department of Environmental Conservation (ADEC). Although we believe this is outside of the intent of the regulation, there are currently no options for disposal of PCB Bulk Product waste with measurable concentrations of PCB's in Alaska.

Since EPA regulations would allow disposal of PCB bulk products at essentially unlimited concentrations, it is recommended that additional coordination with local landfills be conducted to determine if at least the PCB bulk product wastes that contain less than 50 ppm be allowed to be disposed of at a local landfill, since they likely already have millions of tons of wastes that are likely classified as PCB bulk product wastes disposed of in their landfills.

Under 40 CFR 761.62 any person disposing of PCB bulk product waste in a waste management facility that does not have a commercial PCB storage or disposal approval must provide written notice to the facility a

minimum of 15 days in advance of the first shipment. Content of the required notice is specified in 40 CFR 761.62.

Screening sampling of the soils surrounding the building was conducted and eight of the ten samples had detectable concentrations of PCB's, but all 8 had concentrations that were less than 1 part per million. EHS-Alaska recommends that an Environmental Consultant who specializes in soil contamination review the soil sampling and help determine if additional sampling and/or site characterization should be conducted.

Workers who remove or handle PCB-containing or PCB-contaminated materials or who transport or dispose of PCB wastes must be trained and certified in hazardous waste operations and emergency response (HAZWOPER) as required by 29 CFR 1910.120 and the State of Alaska Department of Labor (8 AAC 61). The Department of Transportation under 49 CFR Parts 100-199 regulates the marking, packaging, handling and transportation of hazardous materials. All federal, state and local standards regulating PCBs and PCB waste must be followed during this project.

5. Mercury-Containing Materials

Thermostats and mercury-containing lamps are classified by the EPA as Universal Wastes. The EPA encourages that all Universal Wastes be recycled in accordance with 40 CFR 273. Mercury and mercury-containing products are considered hazardous waste if TCLP testing of the waste for mercury confirms the mercury content to be greater than the EPA criteria of 0.2 mg/l.

The rubber flooring on the gym floor was tested for mercury and found to contain 170 mg/kg of mercury. A Toxicity Characteristic Leaching Procedure (TCLP) test of the flooring material found 6.3 mg/l of mercury, which means that the mercury flooring wastes must be disposed of as hazardous waste.

According to the EPA RCRA land disposal restrictions (LDR), which prohibit land disposal of hazardous wastes and contaminated soils that contain mercury unless the waste or soil is treated to meet specific standards or stringent criteria associated with the regulatory variances that are associated with the LDRs standards. EPA has established different sets of LDR standards for mercury-containing hazardous wastes versus mercury contaminated soils. The LDR standards for wastes are based on the physical form of the waste that requires treatment and the total mercury content. The LDRs categorize mercury wastes as low mercury wastes, high mercury wastes, or elemental mercury wastes. The results of the lab analysis confirm that the Ursa Major gym floor is classified as low mercury waste, but is still classified as a hazardous waste.

6. Other Hazardous Materials

Refrigerants

Refrigerators, freezers, ice machines, and water coolers were present in the kitchen area that are scheduled for removal. "Air Dryer" systems were present in the basement area that are scheduled for removal. Typically, refrigeration systems with ODS shall be maintained in order to prevent discharge of ODS. Systems that are to be removed, or dismantled shall have refrigerants containing ODS recovered and disposed of or recycled in accordance with 40 CFR 82.

Chemical Hazards

The EPA has promulgated regulations (40 CFR Parts 260 to 299 amongst others) that cover the proper handling and disposal of waste chemicals, including listed wastes, which are ignitable, corrosive, reactive, toxic, or an acute hazardous waste or wastes that exhibit the characteristics of toxicity. All construction workers who are required to remove or handle chemical hazards or to transport or dispose of chemical wastes shall be trained and certified as required by the U.S. Department of Labor (29 CFR 1910.120) and the State of Alaska Department of Labor (8 AAC 61). Transportation of chemical hazards are regulated by Department of Transportation regulations under 49 CFR Parts 171 to 178 amongst others.

Waste heat transfer fluids (such as used heating system glycol or other circulating heating fluids) are a potentially hazardous waste and are required to be TCLP tested prior to disposal to determine if the fluids

are classified as hazardous or non-hazardous waste per the EPA's RCRA regulations governing hazardous wastes. According to a study performed by the University of Northern Iowa, standard TCLP analysis using ICP SW 6010 testing procedures commonly report levels of Arsenic and Selenium over regulatory thresholds due to interferences in the matrix. That report concluded that additional analysis should be performed to refute the presence of Arsenic or Selenium over the regulatory levels by either mass spectrometry using method SW 6020, or by graphite furnace using method SW 7060. Some heat transfer fluids may also contain potentially hazardous additives that modify the properties of the fluids for use in a particular system. It is recommended that the contractor consult with the persons responsible for maintaining the system to determine if any additives that may be potentially hazardous were used in the system to further determine disposal requirements.

Radioactive Materials

Smoke detectors were present in the project area that may contain a radioactive material. If the detectors are of the ionization type they typically contain a small amount of Americium. When removed prior to demolition, the detectors should be returned to the owner for reuse or returned to the manufacturer for disposal or recycling. There are no licensed disposal facilities for radioactive wastes in Alaska.

F. RECOMMENDATIONS

1. Asbestos-Containing Materials

The asbestos-containing materials identified in the building are typically in intact condition and are classified as both friable and non-friable ACM. All asbestos-containing materials that will be disturbed by the demolition are required to be removed by trained asbestos workers. Refer to Section 02 82 33 Removal and Disposal of Asbestos Containing Materials.

2. Dusts with Asbestos

Dusts with measurable concentrations of asbestos are assumed to be present, but are not classified as asbestos-containing materials, or as debris from asbestos-containing materials. Workers disturbing dusts are required to have hazard communication training in accordance with OSHA regulations, but are not required to receive 40 hours of training, which is required for asbestos workers. The contractor will need to choose means and methods to control worker exposures to airborne contaminants. At least an initial exposure assessment or data from previous air monitoring is needed to show that worker exposures are maintained below the OSHA permissible exposure limits (PELs). Refer to Section 01 35 45 Airborne Contaminant Control.

3. Lead-Containing Materials

Federal OSHA (29 CFR 1926.62) and the State of Alaska (8 AAC Chapter 61) have promulgated regulations that apply to all construction work where employees may be exposed to lead, including disturbance of paints with low concentrations of lead.

Worker exposure to lead may be able to be controlled below the OSHA permissible exposure limit if proper engineering controls and procedures are used during renovation. Lead is a potentially hazardous waste and the EPA requires that all wastes that contains lead be tested to determine if they must be treated as hazardous waste. A TCLP test of the waste stream(s) produced by the Contractor's means and methods are required to be performed to determine if those wastes will be classified as hazardous or non-hazardous. Refer to Section 01 35 45 Airborne Contaminant Control and Section 02 83 33 Removal and Disposal of Materials Containing Lead.

4. PCB-Containing Materials

If any PCB-containing ballasts are discovered, and they are removed or replaced, they will need to be removed, handled, packaged and disposed of in accordance with all regulations. Refer to Section 02 84 18 Removal and Disposal of Chemical Hazards.

As stated above, PCB Bulk Products containing more than 50 ppm have been identified at 1 sample of damp proofing and 1 sample of exterior paint at Ursa Major Elementary School, and paints and sealants with concentrations of PCBs that are less than 50 ppm were found in all but 6 of the rest of the 13 samples taken. The Contractor is encouraged to sample building materials, especially from the 1997 or later eras of construction to minimize the volume of wastes that will need to be shipped to the Lower 48 for disposal. It is recommended that additional coordination and negotiation be conducted with local landfill operators to encourage them to allow the disposal of at least the materials that contain less than 50 ppm. Refer to Section 02 84 18 Removal and Disposal of Chemical Hazards.

5. Mercury-Containing Materials

Mercury-containing materials scheduled for removal or replacement will need to be removed, handled, packaged and disposed of in accordance with all regulations. If mercury-containing lamps and thermostats are handled and disposed of in accordance with the Universal Waste Regulations, no TCLP test is required. If the Contractor chooses to perform a TCLP test of fluorescent lamps, the test shall be conducted in accordance with the requirements of ANSI/NEMA Standard Procedure for Fluorescent Lamp Sample Preparation and Toxicity Characteristic Leaching Procedure, C78.LL 1256-2003 or latest version. Refer to Section 02 84 18 Removal and Disposal of Chemical Hazards.

6. Other Hazardous Materials

Radioactive materials scheduled for removal or replacement will need to be removed, handled, packaged and disposed of in accordance with all regulations. Refer to Section 02 84 18 Removal and Disposal of Chemical Hazards.

Refrigeration units with ODS scheduled for removal will need to be removed, handled, packaged and disposed of in accordance with all regulations. Refer to Section 02 84 18 Removal and Disposal of Chemical Hazards.

The hydraulic elevator and all fluids shall be removed and properly disposed of in accordance with all regulations and the requirements of the disposal site. Refer to Section 02 84 18 Removal and Disposal of Chemical Hazards.

The common household chemicals and stored materials that are the responsibility of the contractor shall be properly disposed of in accordance with all regulations and the requirements of the disposal site. These chemicals may alternatively be utilized or recycled by the contractor. Refer to Section 02 84 18 Removal and Disposal of Chemical Hazards.

Heat transfer fluids will need to be removed, handled, packaged and disposed of in accordance with all regulations. Refer to Section 02 84 18 Removal and Disposal of Chemical Hazards.

G. LIMITATIONS

The conclusions and recommendations contained in this report are based upon professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted environmental consulting and engineering standards and practices and are subject to the following inherent limitations:

1. Accuracy of Information

The laboratory reports utilized in this assessment were provided by the accredited laboratories cited in this report. Although the conclusions, opinions, and recommendations are based in part, on such information, our services did not include the verification of accuracy or authenticity of such reports. Should such information provided be found to be inaccurate or unreliable, EHS-Alaska, Inc. reserves the right to amend or revise its conclusions, opinions, and/or recommendations.

2. Site Conditions

This survey is not intended to be utilized as the sole design document for abatement. This survey was conducted while the site was both occupied and unoccupied. All inspections were performed with furniture, equipment and/or stored items in place. The scope of work for this survey did not include identification of all potentially hazardous materials that may be present at this site, and was limited to the scope of work agreed upon with our client. Although a concerted effort was made to identify those common hazardous materials likely to be affected by this project, some hazardous materials may have been hidden by furniture, equipment or stored items and may not have been identified. The survey investigated representative materials and items, such as lights and mechanical components. Variations may occur between materials and items that appear to be the same, but are actually of different construction or materials. Other asbestos-containing or potentially hazardous materials may be present in the facilities that were concealed by structural members, walls, ceilings or floor coverings, or in materials where testing was not conducted.

3. Changing Regulatory Constraints

The regulations concerning hazardous materials are constantly changing, including the interpretations of the regulations by the local and national regulating agencies. Should the regulations or their interpretation be changed from our current understanding, EHS-Alaska, Inc. reserves the right to amend or revise its conclusions, opinions, and/or recommendations.

APPENDIX A

Asbestos Bulk Sample Field Survey Data Sheets and Laboratory Reports



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e-mail • ehslabs@ehs-alaska.com

PROJECT NO: 8193-03	PROJECT NAME: Ursa Major Demo & Replacement	FACILITY: Ursa Major Elementary School	COLLECTION DATE: 04/16/2025
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CHAIN OF CUSTODY RECORD							
ANALYSIS REQUESTED:	☒ PLM BULK	☐ PLM DUST	☐ TEM BULK	TYPE:	TURNAROUND:	DISPOSAL:	QUANTITY
	☐ LEAD DUST	☐ LEAD TCLP	☐ LEAD PPM	☒ ASBESTOS	RUSH	NORMAL	3
	☐ TEM MICROVAC DUST (ASTM 5756)			☐ LEAD			
COLLECTED BY (signature) Travis W. Hubbard PRINTED NAME 00006140 / 0-935 CERT# AHERA# SHIPPING METHOD Hand Deliver John Lamont COURIER (signature) DATE/TIME 04/17/2025 1230				Alaska Asbestos Lab SELECTED LABORATORY SAMPLES ACCEPTED BY 4-17-25 DATE/TIME ANALYST'S SIGNATURE DATE 4-17-25			
SPECIAL INSTRUCTIONS / COMMENTS: LAB: RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA, INC. See sample location drawing for more detailed explanation of exact locations. 90 asbestos							

FIELD SURVEY DATA			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION. (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
UMES250416-A01	Black, tarry, pliable, speaker box acoustic mastic	Classroom 130, inside metal speaker box housing located at northeast side of the classroom. P10T	None Detected
UMES250416-A02	Troweled on brittle black wall mastic and tan rigid wall mastic	Room 180, northwest side of room adjacent to metal door frame. Between painted plywood and gypsum wallboard. P23T	None Detected Both Layers
UMES250416-A03	Off-white plaster	Corridor at Room 180, beneath carpet wall covering and gypsum wallboard on concrete. P31	None Detected
END	END	END	

Alaska Asbestos Laboratory

Bulk Asbestos Analysis by PLM

3633 Parsons Avenue Anchorage, Alaska 99508

Client: EHS Alaska, Inc.

Client Project #: 8193-03

AAL Project #: 25-0427

11901 Business Blvd. Suite 208

Collection Date: 04/16/25

Report #: B25-0427

Eagle River, AK 99577

Collected By: Client

Report Date: 04/17/25

Project Name/Location: Ursa Major Demo & Replacement

Date Received: 04/17/25

Date Analyzed: 04/17/25

Sample Count: 3

Report By: J. Hicklin

Received By: J. Hicklin

Analysis By: J. Hicklin

Layer Count: 4

TAT: Rush

Client ID #	AAL ID #	Location: Classroom 130, Inside Metal Speaker Box-Northeast Side of Classroom				Layer 1 of 1	
UMES250416-A01	B25-0603	Non-Asbestos Components				Asbestos	
Material	Color	Homogenous	Misc. Non-Fibrous	%	Non-Asbestos Fibrous	%	Type
Mastic	Black	Yes	Total Non-Fibrous	99.90	Cellulose	0.10	Non-Detect
Comment: Black, Tarry, Pliable, Speaker Box Acoustic Mastic					Total Non-Asbestos Fibrous	0.10	Total Asbestos Non-Detect

Client ID #	AAL ID #	Location: Room 180, NW Side of Room Adjacent to Metal Door Frame				Layer 1 of 2	
UMES250416-A02	B25-0604A	Non-Asbestos Components				Asbestos	
Material	Color	Homogenous	Misc. Non-Fibrous	%	Non-Asbestos Fibrous	%	Type
Mastic	Black	Yes	Total Non-Fibrous	99.90	Cellulose	0.10	Non-Detect
Comment: Troweled-on Brittle, Black Wall Mastic and Tan Rigid Wall Mastic					Total Non-Asbestos Fibrous	0.10	Total Asbestos Non-Detect

Client ID #	AAL ID #	Location: Room 180, NW Side of Room Adjacent to Metal Door Frame				Layer 2 of 2	
UMES250416-A02	B25-0604B	Non-Asbestos Components				Asbestos	
Material	Color	Homogenous	Misc. Non-Fibrous	%	Non-Asbestos Fibrous	%	Type
Mastic	Tan	Yes	Total Non-Fibrous	98.00	Cellulose	2.00	Non-Detect
Comment:					Total Non-Asbestos Fibrous	2.00	Total Asbestos Non-Detect

Client ID #	AAL ID #	Location: Corridor at Room 180, Beneath Carpet Wall Covering and GWB on Concrete				Layer 1 of 1	
UMES250416-A03	B25-0605	Non-Asbestos Components				Asbestos	
Material	Color	Homogenous	Misc. Non-Fibrous	%	Non-Asbestos Fibrous	%	Type
Plaster	Off-White	Yes	Total Non-Fibrous	96.00	Cellulose	4.00	Non-Detect
Comment: Off-White Plaster					Total Non-Asbestos Fibrous	4.00	Total Asbestos Non-Detect

Please Note:

1. All quantitation of material in this report is based on a Calibrated Visual Estimate and not weight, unless otherwise noted. Calibrated Visual Estimate's are an accepted method of quantitation by the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos analysis by PLM.
2. Methods authorized by NVLAP do not include analysis of materials where the asbestos content is not consistently distributed throughout the material. Examples would include: soil, debris, vermiculite insulation, etc. However, under some circumstances, such as a small amount of material present, further sample reduction/homogenization is not practical and PLM can be appropriate. AAL will work with clients to determine the best analytical methods for the sample. Transmission Electron Microscopy (TEM) is also an available analytical option.

Methods: EPA 600/R-93/116 and EPA-40 CFR Appendix E to Subpart E of Part 763. AAL will use either method as directed by the client and/or as indicated by the sample material.

Reporting Limit: Less than 1% asbestos content by Calibrated Visual Estimate using PLM

Regulatory Limit: Greater than 1% asbestos content per the EPA

This analytical report relates only to the samples analyzed (as delivered). This report may not be reproduced, except in full, without written approval by Alaska Asbestos Laboratory (AAL). AAL makes no warranty (either direct or implied) as to the accuracy or content of any materials or information submitted by the client in preparing and presenting analytical results. The interpretation and regulatory compliance in regards to any analytical results are the sole responsibility of the client. Any information reported, in addition to analytical findings, is for informational purposes only. AAL does not provide any consultation for remediation of regulated materials. Unless otherwise noted, all samples were received in acceptable condition and suitable for analysis. The EPA recommends all non-friable organically bound materials (NOB), such as vinyl floor tiles, found not to contain asbestos by PLM analysis, be further analyzed by Transmission Electron Microscopy (TEM).

Alaska Asbestos Laboratory

Bulk Asbestos Analysis by PLM

3633 Parsons Avenue Anchorage, Alaska 99508

AAL Project #: 25-0427

Report #: B25-0427

Client Project #: 8193-03

Report Date: 04/27/25

Information provided by the client may include, but is not limited to: client ID's (sample numbers), sample locations, sample descriptions (listed as material on report), collection/sampling information sheets including location(s)/drawings/maps. AAL assumes no liability for any missing or non-submitted information and, at its sole discretion, reserves the right to supplement or add industry standard designations or other information to the analytical report.



Approved By: Joel Hicklin
Joel Hicklin, Laboratory Manager

Date: 04/27/2025



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PROJECT NO: 8193	PROJECT NAME: Ursa Major Demo & Replacement	FACILITY: Ursa Major Elementary School	COLLECTION DATE: 02/13-19/25
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CHAIN OF CUSTODY RECORD							
ANALYSIS REQUESTED:	☒ PLM BULK	☐ PLM DUST	☐ TEM BULK	TYPE:	TURNAROUND:	DISPOSAL:	QUANTITY:
	☐ LEAD DUST	☐ LEAD TCLP	☐ LEAD PPM	☒ ASBESTOS	5 DAYS	NORMAL	70
	☐ TEM MICROVAC DUST (ASTM 5756)			☐ LEAD			

COLLECTED BY (signature): <i>Travis W. Hubbard</i> Travis W. Hubbard & Fisher G. Gandel PRINTED NAME 00006140 / 0-935 & 20241023 / T-31317-45276 CERT# AHERA# FedEx SHIPPING METHOD 7722 3969 4688 COURIER (signature): <i>[Signature]</i> DATE/TIME: 02/24/25 11:00 AM	Eurofins BET SELECTED LABORATORY SAMPLES ACCEPTED BY DATE/TIME ANALYST'S SIGNATURE DATE	SPECIAL INSTRUCTIONS / COMMENTS: LAB: RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA, INC. See sample location drawing for more detailed explanation of exact locations.
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FIELD SURVEY DATA			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION (COLOR, MATERIAL, TYPE, LAYERS, RELIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
UMES2502-A01	Light Brown Wainscot Mastic	North corner of front entrance vestibule, beneath white raised 2" square pattern plastic wainscot. P-73T	None Detected
UMES2502-A02	FT-4; 9x9" Dark Maroon Floor Tile, Black FT Mastic, Yellow Carpet Mastic	Office 101, near wall, left of doorway to Room 108, where dividing wall was previously removed. P-88T	FT-6% Chrysotile YM-None Detected SM-None Detected
UMES2502-A03	FT-1; 12x12" White Floor Tile w/ Monodirectional Grey, Lt. Grey, and Lt. Pink Smears. Yellow FT Mastic, Off-white Leveling Compound	Office 101, near wall, left of doorway to Room 108, where dividing wall was previously removed. P-89T	All 3 Layers None Detected
UMES2502-A04	SV-1; Lt. Blue/Green Sheet Vinyl w/ White & Dk. Green Specks, Yellow Mastic. SV-2; Tan Sheet Vinyl w/ White Streaks, Black Mastic	Office Bathroom 107, South Corner. P-96T	All 4 Layers None Detected
UMES2502-A05	SV-3; Off-white Sheet Vinyl w/ Small Red & Black Specks, Tan Mastic	Kitchen 115, a few feet west of the double door entrance. P-178T	Both Layers None Detected
UMES2502-A06	SV-4; White Sheet Vinyl w/ Blue & Pink & Brown Pebble Pattern, Dk. Yellow Mastic	Kitchen Office 116, adjacent to the doorway. P-173T	Both Layers None Detected
UMES2502-A07	Acoustic Plaster Wall Coating	MPR 117, on top half of northwest concrete wall, within GWB soffit. Right of kitchen doors. P-210T	2% Chrysotile



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PROJECT NO:	PROJECT NAME:	FACILITY:	COLLECTION DATE:
8193	Ursa Major Demo & Replacement	Ursa Major Elementary School	02/13-19/25
FIELD SURVEY DATA			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION (COLOR, MATERIAL TYPE, LAYERS, FINISH)	LOCATION/COMMENTS (INCLUDING PHOTO REF.)	RESULTS FOR EHS-ALASKA USE ONLY
UMES2502-A08	Acoustic Plaster Wall Coating	MPR 117, on top half of northwest concrete wall, within GWB soffit. At access panel. P-214T	20% Chrysotile
UMES2502-A09	CB-3; 6" Lt. Lavender Cove Base, Clear CB Mastic	Stage 121, from corner left of southeast double doors. P-237T	Both Layers None Detected
UMES2502-A10	Joint Compound ('95 Era)	Stage 121, from corner left of southeast double doors, behind cove base. P-237T	None Detected
UMES2502-A11	Off-white Carpet Mastic (CPI-3; Black Woven Short-shag)	Stage 121, from corner left of southeast double doors. P-237T	None Detected
UMES2502-A12	FT-1; 12x12" White Floor Tile w/ Monodirectional Grey, Lt. Grey, and Lt. Pink Smears, Yellow Mastic	Stage Storage 123, from right of doorway. P-242T	Both Layers None Detected
UMES2502-A13	Cream Stair Riser Mastic	Stage 121, northwest stairway, beneath riser. P-244T	None Detected
UMES2502-A14	Off-white/Clear Stair Tread Mastic	Stage 121, northwest stairway, beneath tread. P-244T	Both Layers None Detected
UMES2502-A15	WT-1; Tan Perlite Wall Texture	Corridor 1002, west wall, where corner of bathroom extrudes. P-246T	None Detected
UMES2502-A16	Red & Yellow Nose Trim Mastics	Stage 121, at edge of stage on east side, beneath trim. P-247T	Both Layers None Detected
UMES2502-A17	Yellow Carpet Mastic (CPT-3; Black Woven Short-shag)	Corridor 1003, left of door to Classroom 130. P-266T	None Detected
UMES2502-A18	Joint Compound, GWB ('95 Era)	Classroom 130, southern corner under CB, left of door to exterior. P-267T	Both Layers None Detected
UMES2502-A19	FT-9; 12x12" Non-skid Grey Floor Tile w/ Black Specks and Small 1/2" Square Pattern, Yellow Mastic	Classroom 130, from tiled area in front of exterior door. P-269T	Both Layers None Detected
UMES2502-A20	LCT-3; 2x4' Lay-in Ceiling Tile w/ Random 1/8" Pinholes & Straight Edges	Classroom 130, from ceiling a few feet left of door to hallway. P-272	None Detected
UMES2502-A21	Grey Sink Undercoating	Classroom 127, from sink on southeast wall. P-307T and P-312T	None Detected



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PROJECT NO:	PROJECT NAME:	FACILITY:	COLLECTION DATE:
8193	Ursa Major Demo & Replacement	Ursa Major Elementary School	02/13-19/25
FIELD SURVEY DATA			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION COMMENTS (INCLUDING PHOTO REF)	RESULTS FOR EHS-ALASKA USE ONLY
UMES2502-A22	SV-5: Tan Sheet Vinyl w/ Grey, White, and Orange Specks, Yellow Mastic	Bathroom 127A, right of doorway P-314T	Both Layers None Detected
UMES2502-A23	Tan Wall Panel Mastic	Bathroom 130A, from northwest wall beneath white raised 2" square pattern paneling, P-318T	None Detected
UMES2502-A24	Tan Spray-on Fireproofing (SOPP)	Library 141, above ceiling near southeast wall, P-326T	None Detected
UMES2502-A25	Tan Spray-on Fireproofing (SOPP)	Library 141, above ceiling just northwest of south corner, P-328T	None Detected
UMES2502-A26	Tan Spray-on Fireproofing (SOPP)	Library 141, above ceiling at midpoint between central column and southwest wall, where SOPP begins, P-331T	None Detected
UMES2502-A27	CB-4; 4" Lt. Brown Cove Base, Black CB Mastic	Library 141, from column at midpoint of southwest wall, P-339T	Both Layers None Detected
UMES2502-A28	WT-2; White Orange Peel Wall Texture	Library 141, from column at midpoint of southwest wall, P-340T	None Detected
UMES2502-A29	Joint Compound, GWB ('82 Era)	Library 141, from left corner of southwest column and wall, P-342T	Both Layers None Detected
UMES2502-A30	Orange & Black Carpet Mastics (CPT-4)	Library 141, right of southwest column, from floor that was '52 era, P-384T	None Detected
UMES2502-A31	Yellow Wall Carpet Mastic	Library 141, from southeast wall column, under wall carpet, P-388T	None Detected
UMES2502-A32	Yellow Carpet Mastic (CPT-4)	Library 141, left of southeast wall column, from floor that was '82 era, P-389T	None Detected
UMES2502-A33	Yellow Carpet Mastic (CPT-4)	Library Room 142, near southeast wall, from floor that was '52 era, P-395T	None Detected
UMES2502-A34	Joint Compound ('82 Era)	Library 141, from northwest wall above doorway and lay-in ceiling, P-404T	None Detected
UMES2502-A35	SV-6: Sheet Vinyl w/ Brown & Tan Pebble Pattern, Black Mastic, Tan Mastic	Library Room 144, in front of doorway, P-406T	20% Cinnositol

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



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PROJECT NO	PROJECT NAME:	FACILITY:	COLLECTION DATE:
8193	Ursa Major Demo & Replacement	Ursa Major Elementary School	02/13-19/25
FIELD SURVEY DATA			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION & COMMENTS (INCLUDING PHOTO REF)	RESULTS FOR EHS-ALASKA USE ONLY
UMES2502-A36	WT-2; White Orange Peel Wall Texture	Library 141, from northwest wall, a few feet right of doorway. P-408T	None Detected
UMES2502-A37	Ceramic FT Grout	Restroom 137, just past entrance vestibule. P-433T	None Detected
UMES2502-A38	SV-4; White Sheet Vinyl w/ Blue & Pink & Brown Pebble Pattern	Classroom 151, at threshold to hallway. P-500T	Both Layers None Detected
UMES2502-A39	Tan Utilidor Insulation Fiber Board, Black Hot Mop Tar	Basement 38, at west utilidor entrance. P-565T	Both Layers None Detected
UMES2502-A40	Olive Gasket	Basement 35, north corner, at utilidor entrance. P-568T	Both Layers None Detected
UMES2502-A41	Wall Plaster, Skim Coat	Classroom 213, northeast wall. P-250F	Both Layers None Detected
UMES2502-A42	Ceiling Plaster, Skim Coat	Corridor 1200, above ceiling, where era changes from '52 to '95, near left double doors. P-1019T	Both Layers None Detected
UMES2502-A43	CB-2; 6" Black Rubber Cove Base, Tan Mastic	Corridor 1200, across from left edge of double doors, at column. P-1020T	Both Layers None Detected
UMES2502-A44	Yellow Carpet Mastic (CPT-3; Black Woven Short-shag)	Corridor 1200, across from left edge of double doors, beneath column. P-1020T	None Detected
UMES2502-A45	White Duct Seam Sealant Tape	Gym Fan Room 286, from major duct near ladder. P-271F	None Detected
UMES2502-A46	Joint Compound, GWB ('95 Era)	Gym Office 188, west corner. P-1036T	Both Layers None Detected
UMES2502-A47	FT-1; 12x12" White Floor Tile w/ Monodirectional Grey, Lt. Grey, and Lt. Pink Smears, Yellow Mastic	Gym Office 188, west corner. P-1037T	Both Layers None Detected
UMES2502-A48	Brown Wall Panel Mastic	Gym 184, from northeast wall near doors, behind fiberglass-reinforced paneling. P-1051T	None Detected
UMES2502-A49	CB-5; 4" Gray Cove Base, Tan Mastic	Generator Room, south wall. P-277F	Both Layers None Detected



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PROJECT NO:	PROJECT NAME:	FACILITY:	COLLECTION DATE:
8193	Ursa Major Demo & Replacement	Ursa Major Elementary School	02/13-19/25
FIELD SURVEY DATA			
EHS SAMPLE NO LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION COMMENTS (INCLUDING PHOTO REF)	RESULTS FOR EHS-ALASKA USE ONLY
UMES2502-A50	Brick Red Firestop	Generator Room, northeast corner, high up at wall penetration for piping. P-279F	None Detected
UMES2502-A51	Off-white Pliable Seam Sealant	Generator Room, at edge of east shutter doors. P-1135T	None Detected
UMES2502-A52	Joint Compound (~'04 Era)	Generator Room, northeast corner, high up beneath wall penetration for piping. P-280F	None Detected
UMES2502-A53	Off-White Duct Mastic	Generator Room, adhering fiberglass insulation to metal duct. P-1147T	None Detected
UMES2502-A54	Joint Compound (~'04 Era)	Boiler Room, southwest corner. P-285F	None Detected
UMES2502-A55	Tan Yellow Penetration Sealant	Boiler Room, southeast corner, high up at penetration for piping. P-1147T	None Detected
UMES2502-A56	Joint Compound (~'04 Era)	Boiler Room, west wall, above sink. P-288F	None Detected
UMES2502-A57	Mint Green Gasket	Boiler Room, on west (back) side of boiler #1. P-1151T	None Detected
UMES2502-A58	White/Yellow Rope Gasket	Boiler room, on west (back) side of boiler #2 P-1160T	None Detected
UMES2502-A59	Mint Green Gasket	Boiler Room, from piping to the right of boiler #3, close to sink. P-291F	None Detected
UMES2502-A60	Black Flange Gasket	Boiler Room Exterior, left of the double doors at the exterior vertical piping. P-1164T	None Detected
UMES2502-A61	Tan Pliable Door Frame Sealant	Boiler Room Exterior, between frame and wall of main double doors. P-1163T	None Detected
UMES2502-A62	White Seam Sealant	Tool Shed, at edge of plywood roof deck. P-1168T	None Detected
UMES2502-A63	Mineral Cap Rolled Roofing	Tool Shed, corner of roof. P-1167T	None Detected



EHS ALASKA
INCORPORATED

EHS-Alaska, Inc.
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(907) 694-1383 • (907) 694-1382 fax
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PROJECT NO: 8193	PROJECT NAME: Ursa Major Demo & Replacement	FACILITY: Ursa Major Elementary School	COLLECTION DATE: 02/13-19/25
FIELD SURVEY DATA			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
UMES2502-A64	Gray Seam Sealant	School Exterior, at the corner of Office 101, between metal window trim and concrete. P-1182T	None Detected
UMES2502-A65	Black Window Frame Gasket	School Exterior, middle of Office 101's window, between glass and framing. P-1184T	None Detected
UMES2502-A66	Grey Pliable Window Frame Sealant	School Exterior, at west corner of Classroom 153, between metal frame and concrete. P-1192T	None Detected
UMES2502-A67	Grey Pliable Concrete Seam Sealant	School Exterior, at middle of Classroom 153's windows, where concrete sill sections connect. P-1194T	None Detected
UMES2502-A68	White Pliable Door Frame Seam Sealant	School Exterior, outside Vestibule 1101, between metal door frame and concrete. P-1210T	Grey Sealant - 7% Avg White Sealant - ND
UMES2502-A69	Grey Pliable Window Frame Sealant	School Exterior, at corner of Classroom 157 and Library 141, between frame and concrete. P-1248T	None Detected
UMES2502-A70	Dark Grey Window Frame Sealant	School Exterior, Kindergarten 130, left side, between window frame and concrete. P-1258T	None Detected



Report for:

Travis Hubbard
EHS-Alaska, Inc.
11901 Business Blvd, Suite 208
Eagle River, AK 99577

Regarding: Eurofins Built Environment Testing East, LLC
Project: 8193 - Ursa Major ES
EML ID: 3960188

Approved by:

Dates of Analysis:
Asbestos PLM (Layer %): 03-07-2025

A handwritten signature in black ink, appearing to read "Frank Ehrenfeld".

Approved Signatory
Frank Ehrenfeld

Project SOPs: Asbestos PLM (Layer %) (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested.

Eurofins Built Environment Testing East, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.



Report for:

Travis Hubbard
EHS-Alaska, Inc.
11901 Business Blvd, Suite 208
Eagle River, AK 99577

Regarding: Eurofins Built Environment Testing East, LLC
Project: 8193 - Ursa Major ES
EML ID: 3960188

Approved by:

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Approved Signatory
Frank Ehrenfeld

Dates of Analysis:
Asbestos PLM (Layer %): 03-07-2025

Service SOPs: Asbestos PLM (Layer %) (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 101165-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

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Eurofins Built Environment Testing East, LLC
9000 Commerce Parkway, Suite B, Mount Laurel, NJ 08054
(856) 231-9449 www.eurofinsus.com/Built

Client: EHS-Alaska, Inc.
C/O: Travis Hubbard
Re: 8193 - Ursa Major ES

Date of Receipt: 02-25-2025
Date of Report: 03-07-2025

Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)
Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Sample ID # Lab-ID version	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	Comment
UMES2502-A01. Light Brown Wainscot Mastic; North Corner of Front Entrance Vestibule, beneath White Raised 2" Square Pattern Plastic Wainscot. P-73T 19672942-1	Layer 1 Light Brown Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A02. FT-4; Office 101, near Wall, Left of Doorway to Room 108, Where Dividing Wall was Previously Removed. P-88T 19672943-1	Layer 1 Maroon Floor Tile Homogeneity:Good	6% Chrysotile	94% Non-Fibrous Material	
	Layer 2 Yellow Carpet Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
	Layer 3 Black Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A03. FT-1; Office 101, near Wall, Left of Doorway to Room 108, Where Dividing Wall was Previously Removed. P-89T 19672944-1	Layer 1 White Floor Tile Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
	Layer 2 Yellow Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
	Layer 3 Off-White Leveling Compound Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A04. SV-1; Office Bathroom 107, South Corner. P-96T 19672945-1	Layer 1 Lt. Blue Sheet Flooring Homogeneity:Good	Not Detected	85% Non-Fibrous Material 15% Cellulose	A

Comments: A)Black/tan mastic layers not separable.

The total percentage of sample components shown may be greater than 100% when some components are detected at <1%.

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Sample ID # Lab-ID version	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	Comment
UMES2502-A04. SV-1; Office Bathroom 107, South Corner. P-96T 19672945-1(cont.)	Layer 2 Yellow Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	A
	Layer 3 Tan Sheet Flooring Homogeneity:Good	Not Detected	100% Non-Fibrous Material	A
	Layer 4 Black/ Tan Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	A
UMES2502-A05. SV-3; Kitchen 115, a Few Feet West of the Double Door Entrance. P-178T 19672946-1	Layer 1 Off-White Sheet Flooring Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
	Layer 2 Tan Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A06. SV-4; Kitchen Office 116, adjacent to the Doorway. P-173T 19672947-1	Layer 1 White Sheet Flooring Homogeneity:Good	Not Detected	87% Non-Fibrous Material 10% Cellulose 3% Synthetic Fibers	
	Layer 2 Yellow Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A07. Acoustic Plaster Wall Coating; MPR117, on Top Half of Northwest Concrete Walls, within GWB Soffit. Right of Kitchen Doors. P-210T 19672948-1	Layer 1 White Coating Homogeneity:Good	2% Chrysotile	88% Non-Fibrous Material 10% Cellulose	
UMES2502-A08. Acoustic Plaster Wall Coating; MPR117, on Top Half of Northwest Concrete Walls, within GWB Soffit. At Access Panel. P-214T 19672949-1	Layer 1 White Coating Homogeneity:Good	2% Chrysotile	88% Non-Fibrous Material 10% Cellulose	

Comments: A)Black/tan mastic layers not separable.

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Eurofins Built Environment Testing East, LLC

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

EMLab ID: 3960188, Page 3 of 13

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Eurofins Built Environment Testing East, LLC
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Client: EHS-Alaska, Inc.
C/O: Travis Hubbard
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Date of Receipt: 02-25-2025
Date of Report: 03-07-2025

Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)
Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Sample ID # Lab-ID version	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	Comment
UMES2502-A09. CB-3; Stage 121, from Corner Left of Southeast Double Doors. P-237T 19672950-1(cont.)	Layer 1 Mauve Cove Base Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
	Layer 2 Off-White Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A10. Joint Compound (' 95 Era); Stage 121, from Corner Left of Southeast Double Doors, behind Cove Base. P-237T 19672951-1	Layer 1 White Joint Compound Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A11. Off-White Carpet Mastic (CPT-3; Black Woven Short- Shag); Stage 121, from Corner Left of Southeast Double Doors. P-237T 19672952-1	Layer 1 Off-White Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A12. FT-1; Stage Storage 123, from Right of Doorway. P-242T 19672953-1	Layer 1 White Floor Tile Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
	Layer 2 Yellow Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A13. Cream Stair Riser Mastic; Stage 121, Northwest Stairway, beneath Riser. P-244T 19672954-1	Layer 1 Off-White Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A14. Off-White/Clear Stair Tread Mastic; Stage 121, Northwest Stairway, beneath Tread. P-244T 19672955-1	Layer 1 Gray Non-Fibrous Material (Stair Tread) Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
	Layer 2 Off-White Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A15. WT-1; Corridor 1002, West Wall, where Corner of Bathroom Extrudes. P-246T 19672956-1	Layer 1 Tan Texture Homogeneity:Good	Not Detected	100% Non-Fibrous Material	

Comments:

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Re: 8193 - Ursa Major ES

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Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)
Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Sample ID # Lab-ID version	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	Comment
UMES2502-A16. Red & Yellow Nose Trim Mastics; Stage 121, at Edge of Stage on East Side, beneath Trim. P-247T 19672957-1	Layer 1 Red Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
	Layer 2 Yellow Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A17. Yellow Carpet Mastic (CPT-3; Black Woven Short-Shag); Corridor 1003. Left of Door to Classroom 130. P-266T 19672958-1	Layer 1 Yellow Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A18. Joint Compound, GWB ('95 Era); Classroom 130, Southern Corner under CB, Left of Door Exterior. P-267T 19672959-1	Layer 1 White Drywall with Brown Paper Homogeneity:Good	Not Detected	85% Non-Fibrous Material 15% Cellulose	
	Layer 2 White Joint Compound Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A19. FT-9; Classroom 130, from Tiled Area in Front of Exterior Door. P-269T 19672960-1	Layer 1 Gray Floor Tile Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
	Layer 2 Yellow Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A20. LCT-3; Classroom 130, from Ceiling a Few Feet Left of Door to Hallway. P-272 19672961-1	Layer 1 Gray Ceiling Tile with White Surface Homogeneity:Good	Not Detected	50% Cellulose 35% Glass Fibers 15% Non-Fibrous Material	
UMES2502-A21. Grey Sink Undercoating; Classroom 127, from Sink on Southeast Wall. P-307T and P-312T 19672962-1	Layer 1 Gray Sink Undercoating Homogeneity:Good	Not Detected	90% Non-Fibrous Material 10% Cellulose	

Comments:

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Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)
Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Sample ID # Lab-ID version	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	Comment
UMES2502-A22. SV-5; Bathroom 127A, Right of Doorway. P-314T 19672963-1(cont.)	Layer 1 White/ Gray Sheet Flooring Homogeneity:Good	Not Detected	95% Non-Fibrous Material 5% Glass Fibers	
	Layer 2 Yellow Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A23. Tan Wall Panel Mastic; Bathroom 130A, from Northwest Wall beneath White Raised 2" Square Pattern Paneling. P- 318T 19672964-1	Layer 1 Tan Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A24. Tan Spray -On Fireproofing (SOPF); Library 141, above Ceiling Southeast Wall. P- 326T 19672965-1	Layer 1 Tan Fireproofing Homogeneity:Good	Not Detected	90% Non-Fibrous Material 10% Cellulose	
UMES2502-A25. Tan Spray -On Fireproofing (SOPF); Library 141, above Ceiling just Northwest f South Corner. P-328T 19672966-1	Layer 1 Tan Fireproofing Homogeneity:Good	Not Detected	90% Non-Fibrous Material 10% Cellulose	
UMES2502-A26. Tan Spray -On Fireproofing (SOPF); Library 141, above Ceiling at Midpoint between Central Column and Southwest Wall, where SOPF Begins. P-331T 19672967-1	Layer 1 Tan Fireproofing Homogeneity:Good	Not Detected	90% Non-Fibrous Material 10% Cellulose	
UMES2502-A27. CB-4; Library 141, from Column at Midpoint of Southwest Wal. P-339T 19672968-1	Layer 1 Light Brown Cove Base Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
	Layer 2 Dark Brown Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A28. WT-2; Library 141, from Column at Midpoint of Southwest Wal. P-340T 19672969-1	Layer 1 White Texture Homogeneity:Good	Not Detected	100% Non-Fibrous Material	

Comments:

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Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)
Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Sample ID # Lab-ID version	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	Comment
UMES2502-A29. Joint Compound, GWB ('82 Era); Library 141, from Left Corner of Southwest Column and Wall. P-342T 19672970-1(cont.)	Layer 1 White Drywall with Brown Paper Homogeneity:Good	Not Detected	85% Non-Fibrous Material 15% Cellulose	
	Layer 2 White Joint Compound Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A30. Orange & Black Carpet Mastics (CPT4); Library 141, Right of Southwest Column, from Floor that was '52 Era. P-384T 19672971-1	Layer 1 Black/ Tan Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	A
UMES2502-A31. Yellow Wall Carpet Mastic; Library 141, from Southwest Wall Column, under Wall Carpet. P-388T 19672972-1	Layer 1 Yellow Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A32. Yellow Carpet Mastic (CPT-4); Library 141, Left of Southeast Wall Column, from Floor that was '82 Era. P-389T 19672973-1	Layer 1 Yellow Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A33. Yellow Carpet Mastic (CPT-4); Library 142, near Southeast Wall, from Floor that was '52 Era. P-395T 19672974-1	Layer 1 Yellow Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A34. Joint Compound ('82 Era); Library 141, from Northwest Wall above Doorway and Lay-In Ceiling. P-404T 19672975-1	Layer 1 White Joint Compound Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A35. SV-6; Library 144, in Front of Doorway. P-406T 19672976-1	Layer 1 Brown Sheet Flooring Homogeneity:Good	20% Chrysotile	80% Non-Fibrous Material	B
UMES2502-A36. W-2; Library 141, from Northwest Wall, a Few Feet Right of Doorway. P-408T 19672977-1	Layer 1 White Texture Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A37. Ceramic FT Grout; Restroom 137, just Past Entrance Vestibule. P-433T 19672978-1	Layer 1 Gray Grout Homogeneity:Good	Not Detected	100% Non-Fibrous Material	

Comments: A)Mastics not separable. B)Mastic layers inseparable without cross contamination from positive sheet floor backing material.

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Sample ID # Lab-ID version	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	Comment
UMES2502-A38. SV-4; Classroom 151, at Threshold to Hallway. P-500T 19672979-1	Layer 1 White Sheet Flooring Homogeneity:Good	Not Detected	82% Non-Fibrous Material 15% Cellulose 3% Synthetic Fibers	
	Layer 2 Yellow Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A39. Tan Utilidor Insulation Fiber Board, Black Hot Mop Tar; Basement 38, at West Utilidor Entrance. P-565T 19672980-1	Layer 1 Brown Fiberboard Homogeneity:Good	Not Detected	95% Cellulose 5% Non-Fibrous Material	
	Layer 2 Black Tar Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A40. Olive Gasket; Basement 35, North Corner, at Utilidor Entrance. P-568T 19672981-1	Layer 1 Green Gasket Homogeneity:Good	Not Detected	60% Non-Fibrous Material 40% Synthetic Fibers	
	Layer 2 Dark Brown Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A41. Wall Plaster, Skim Coat; Classroom 213, Northeast Wall. P-250F 19672982-1	Layer 1 White Plaster Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
	Layer 2 Gray Plaster Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A42. Ceiling Plaster, Skim Coat; Corridor 1200, above Ceiling, where Era Changes from '52 ro '95, near Left Double Doors. P- 1019T 19672983-1	Layer 1 White Plaster Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
	Layer 2 Gray Plaster Homogeneity:Good	Not Detected	100% Non-Fibrous Material	

Comments:

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Eurofins Built Environment Testing East, LLC
9000 Commerce Parkway, Suite B, Mount Laurel, NJ 08054
(856) 231-9449 www.eurofinsus.com/Built

Client: EHS-Alaska, Inc.
C/O: Travis Hubbard
Re: 8193 - Ursa Major ES

Date of Receipt: 02-25-2025
Date of Report: 03-07-2025

Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)
Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Sample ID # Lab-ID version	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	Comment
UMES2502-A43. CB-2; Corridor 1200, across from Left Edge of Double Doors, at Column. P-1020T 19672984-1	Layer 1 Black Cove Base Homogeneity: Good	Not Detected	100% Non-Fibrous Material	
	Layer 2 Tan Mastic Homogeneity: Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A44. Yellow Carpet Mastic (CPT-3; Black Woven Short-Shag), Corridor 1200, across from Left Edge of Double Doors, beneath Column. P-1020T 19672985-1	Layer 1 Yellow Mastic Homogeneity: Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A45. White Duct Seam Sealant Tape; Gym Fan Room 286, from Major Duct near Ladder. P-271F 19672986-1	Layer 1 White Tape Homogeneity: Good	Not Detected	70% Non-Fibrous Material 30% Cellulose	
UMES2502-A46. Joint Compound, GWB (95 Era); Gym Office 188, West Corner. P-1036T 19672987-1	Layer 1 White Drywall with Brown Paper Homogeneity: Good	Not Detected	85% Non-Fibrous Material 15% Cellulose	
	Layer 2 White Joint Compound Homogeneity: Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A47. FT-1; Gym Office 188, West Corner. P-1037T 19672988-1	Layer 1 White Floor Tile Homogeneity: Good	Not Detected	100% Non-Fibrous Material	
	Layer 2 Yellow Mastic Homogeneity: Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A48. Brown Wall Panel Mastic; Gym 184, from Northeast Wall near Doors, behind Fiberglass-Reinforced Paneling. P-1051T 19672989-1	Layer 1 Brown Mastic Homogeneity: Good	Not Detected	100% Non-Fibrous Material	

Comments:

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Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)
Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Sample ID # Lab-ID version	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	Comment
UMES2502-A49. CB-5; Generator Room, South Wall. P-277F 19672990-1(cont.)	Layer 1 Gray Cove Base Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
	Layer 2 Tan Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A50. Brick Red Firestop; Generator Room, Northeast Corner, High Up at Wall Penetration for Piping. P-279F 19672991-1	Layer 1 Red Fire Stop Homogeneity:Good	Not Detected	90% Non-Fibrous Material 10% Synthetic Fibers	
UMES2502-A51. Off-White Pliable Seam Sealant; Generator Room, at Edge of East Shutter Dodors. P-1135T 19672992-1	Layer 1 Off-White Sealant Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A52. Joint Compound (~' 04 Era); Generator Room, Northeast Corner, High Up beneath Wall Penetration for Piping. P-280F 19672993-1	Layer 1 White Joint Compound Homogeneity:Good	Not Detected	100% Non-Fibrous Material	A
UMES2502-A53. Off-White Duct Mastic; Generator Room, Adhering Fiberglass Insulation to Metal Duct. P-1147T 19672994-1	Layer 1 Off-White Mastic Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A54. Joint Compound (~' 04 Era); Boiler Room, Southwest Corner. P-285F 19672995-1	Layer 1 White Joint Compound Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A55. Tan/Yellow Penetration Sealant; Boiler Room, Southeast Corner, High Up at Penetration for Piping. P-1147T 19672996-1	Layer 1 Yellow Sealant Homogeneity:Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A56. Joint Compound (~' 04 Era); Boiler Room, West Wall, above Sink. P-288F 19672997-1	Layer 1 White Joint Compound Homogeneity:Good	Not Detected	100% Non-Fibrous Material	

Comments: A)

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Ursa Major ES Replacement ITB-1-Demolition
Project 386011

EMLab ID: 3960188, Page 10 of 13

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Client: EHS-Alaska, Inc.
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Date of Receipt: 02-25-2025
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Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)
Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Sample ID # Lab-ID version	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	Comment
UMES2502-A57. Mint Green Gasket; Boiler Room, on West (Back Side of Boiler #1. P-1151T 19672998-1	Layer 1 Green Gasket Homogeneity: Good	Not Detected	50% Synthetic Fibers 40% Non-Fibrous Material 5% Glass Fibers 5% Wollastonite	
UMES2502-A58. White/Yellow Rope Gasket; Boiler Room, on West (Back Side of Boiler #2. P-1160T 19672999-1	Layer 1 Off-White Gasket Homogeneity: Good	Not Detected	98% Glass Fibers 2% Non-Fibrous Material	
UMES2502-A59. Mint Green Gasket; Boiler Room, from Piping to the Right of Boiler #3, Closet to Sink. P-291F 19673000-1	Layer 1 Green Gasket Homogeneity: Good	Not Detected	60% Non-Fibrous Material 20% Cellulose 20% Synthetic Fibers	
UMES2502-A60. Black Flange Gasket; Boiler Room Exterior, Left of the Double Doors at the Exterior Vertical Piping. P-1164T 19673001-1	Layer 1 Black Gasket Homogeneity: Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A61. Tan Pliable Door Frame Sealant; Boiler Room Exterior, between Frame and Wall of Main Double Doors. P-1163T 19673002-1	Layer 1 Tan Sealant Homogeneity: Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A62. White Seam Sealant; Tool Shed, at Edge of Plywood Roof Deck. P-1168T 19673003-1	Layer 1 White Sealant Homogeneity: Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A63. Mineral Cap Rolled Roofing; Tool Shed, Corner of Roof. P-1167T 19673004-1	Layer 1 Black/ Brown Roofing Material Homogeneity: Good	Not Detected	85% Non-Fibrous Material 15% Glass Fibers	
UMES2502-A64. Gray Seam Sealant; School Exterior, at the Corner of Office 101, between Metal Window Trim and Concrete. P-1182T 19673005-1	Layer 1 Gray Sealant Homogeneity: Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A65. Black Window Frame Gasket; School Exterior, Middle of Office 101's Window, between Glass and Framing. P-1184T 19673006-1	Layer 1 Black Gasket Homogeneity: Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A66. Grey Pliable Window Frame Sealant; School Exterior, at West Corner of Classroom 153, between Metal Frame and Concrete. P-1192T 19673007-1	Layer 1 Gray Sealant Homogeneity: Good	Not Detected	100% Non-Fibrous Material	

Comments:

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Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)
Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Sample ID # Lab-ID version	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	Comment
UMES2502-A67. Grey Pliable Concrete Seam Sealant; School Exterior, at Middle of Classroom 153' s Windows, where Concrete Sill Sections Connect. P-1194T 19673008-1	Layer 1 Gray Sealant Homogeneity: Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A68. White Pliable Door Fram Seam Sealant; School Exterior, Outside Vestibule 1101, between Metal Door Fram and Concrete. P- 1210T 19673009-1	Layer 1 White Sealant Homogeneity: Good	Not Detected	100% Non-Fibrous Material	A
	Layer 2 Dark Gray Sealant Homogeneity: Good	7% Chrysotile	93% Non-Fibrous Material	A
UMES2502-A69. Grey Pliable Window Frame Sealant; School Exterior, at Corner of Classroom 157 and Library 141, between Frame and Concrete. P-1248T 19673010-1	Layer 1 Gray Sealant Homogeneity: Good	Not Detected	100% Non-Fibrous Material	
UMES2502-A70. Dark Grey Window Frame Sealant; School Exterior, Kindergarten 130, Left Sde, between Window frame and Concrete. P- 1258T 19673011-1	Layer 1 Dark Gray Sealant Homogeneity: Good	Not Detected	100% Non-Fibrous Material	

Comments: A) Thin layer attached to white sealant.

Analyst(s): Rebecca Hargrove
Whitney Champion

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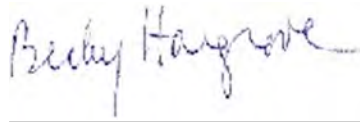
Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)
Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

PROJECT ANALYSTS AND SIGNATORY REPORT

Project Analysts



Analyst: Whitney Champion



Analyst: Rebecca Hargrove

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Eurofins Built Environment Testing East, LLC

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

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EHS-Alaska, Inc.
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PROJECT NO: 7724-01	PROJECT NAME: ASD Ursa Major Project Analysis	FACILITY: Ursa Major Elementary School	COLLECTION DATE: 06/06/22
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CHAIN OF CUSTODY RECORD							
ANALYSIS REQUESTED:	☒ PLM BULK ☐ LEAD DUST ☒ TEM MICROVAC DUST (ASTM 5756)	☐ PLM DUST ☐ LEAD TCLP	☐ TEM BULK ☐ LEAD PPM	TYPE: ☒ ASBESTOS ☐ LEAD	TURNAROUND: 2 DAYS	DISPOSAL: NORMAL	QUANTITY: 73
COLLECTED BY (signature) PRINTED NAME John Lamont 20220011 / T-30203-41066 CERT# / AHERA# FedEx SHIPPING METHOD FedEx: 7770 6731 6740 COURIER (signature) 06/08/2022 1100 am DATE/TIME		IATL SELECTED LABORATORY SAMPLES ACCEPTED BY DATE/TIME ANALYST'S SIGNATURE DATE		SPECIAL INSTRUCTIONS / COMMENTS: LAB: RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA, INC. See sample location drawing for more detailed explanation of exact locations.			

FIELD SURVEY DATA ND= NONE DETECTED			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS FOR EHS-ALASKA USE ONLY
UM0622-A01	White joint compound, appears to be thick skim coat	First Floor Room 102: North corner of room above suspended ceiling at old pipe chase, on gypsum wall board. Photo 17 JHL	BOTH LAYERS = ND
UM0622-A02	Gypsum wall board, older	First Floor Room 102: North corner of room above suspended ceiling at old pipe chase, gypsum wall board. Photo 18 JHL	ND
UM0622-A03	White joint compound	First Floor Room 102: North corner of room above suspended ceiling at new pipe chase, on gypsum wall board. Photo 19 JHL	ND
UM0622-A04	Gypsum wall board, newer	First Floor Room 102: North corner of room above suspended ceiling at new pipe chase, gypsum wall board. Photo 19 JHL	ND
UM0622-A05	White 12" x 12" smooth-face fiberglass ceiling tile	First Floor Room 102: North corner of room above drop ceiling, directly adhered to bottom side of concrete decking. Photo 24 JHL	BOTH LAYERS = ND
UM0622-A06	Hard dark brown ceiling tile mastic to Sample A05 **ignore fiberglass, same as sample A05**	First Floor Room 102: North corner of room above drop ceiling, adhering fiberglass ceiling tile to the bottom side of the concrete decking. Photo 24 JHL	ND
UM0622-A07	2' x 4' lay in ceiling tile with beveled edges, 4" squares, 1/4 to 1/2-inch fissures, and 1/8 to 1/16-inch holes	First Floor Room 102: Typical ceiling tile throughout room on screwed-in ceiling grid. Photo 27 JHL	ND
UM0622-A08	6" black vinyl cove base; cream cove base mastic	Second Floor Classroom 235: Southwest quadrant of room adhered to marlite wall board. Photo 15 RAF	BOTH LAYERS = ND



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PROJECT NO:	PROJECT NAME:	FACILITY:	COLLECTION DATE:
7724-01	ASD Ursa Major Project Analysis	Ursa Major Elementary School	06/06/22
FIELD SURVEY DATA ND= NONE DETECTED			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
UM0622-A09	Hard dark brown cove base mastic; dark brown marlite	Second Floor Classroom 235: Southwest quadrant of room, remnant mastic under black cove base to marlite wall board. Photo 15 RAF	BOTH LAYERS = ND
UM0622-A10	White 1' x 2' smooth-face fiberglass wall tile	Second Floor Classroom 235: West corner of room adhered to unfinished gypsum wall board with dark brown mastic. Photo 37 JHL	BOTH LAYERS = ND
UM0622-A11	Hard dark brown wall tile mastic to sample A10 **ignore fiberglass, same as sample A10**	Second Floor Classroom 235: West corner of room adhering fiberglass wall tile to gypsum wall board. Photo 37 JHL	ND
UM0622-A12	White 12" x 12" smooth-face fiberglass ceiling tile	Second Floor Classroom 235: West corner of room directly adhered to unfinished gypsum board with dark brown mastic. Photo 38 JHL	ND
UM0622-A13	Hard dark brown ceiling tile mastic to sample A12 **ignore fiberglass, same as sample A12**	Second Floor Classroom 235: West corner of room adhering fiberglass ceiling tile to unfinished gypsum board. Photo 39 JHL	ND
UM0622-A14	Unfinished gypsum board	Second Floor Classroom 235: West corner of room under fiberglass ceiling tile. Photo 41 JHL	ND
UM0622-A15	Hard grey floor tile, (can't tell size); with black mastic; with sticky cream carpet mastic	Second Floor Classroom 235: South quadrant of room underneath blue short shag carpet, at transition strip to rubber flooring, adhered to concrete with black mastic. Photos 16-18 RAF	FT=5.8' L CHRYSOTILE MASTIC=1.2% CHRYSOTILE CREAM=ND
UM0622-A16	Sticky cream carpet mastic	Second Floor Classroom 235: south quadrant of room adhering blue short shag carpet to grey floor tile. Photo 46 JHL	ND
UM0622-A17	White joint compound; gypsum wall board, newer	Second Floor Mechanical Room 236: South wall of mechanical room at new patch in wall, unfinished gypsum wall board. Photo 57 JHL	BOTH LAYERS = ND
UM0622-A18	White joint compound; gypsum wall board, older	Second Floor Mechanical Room 236: East wall of mechanical room at older gypsum wall board wall. Photo 59 JHL	JL=1.5% CHRYSOTILE GWB=ND
UM0622-A19	Maroon floor tile (can't tell size); with tarry black mastic	Second Floor Mechanical Room 236: East wall of mechanical room at door threshold, underneath 12" x 12" beige birch bark floor tile, adhered to concrete with black mastic. Photo 77 JHL	FT=6.1' L CHRYSOTILE TRACE @ BLACK MASTIC
UM0622-A20	White 12" x 12" smooth-face fiberglass ceiling tile	Second Floor Corridor 2000: Adjacent to classroom 225 above drop ceiling. Photo 75 JHL	ND
UM0622-A21	Hard dark brown ceiling tile mastic to sample A20 **ignore fiberglass, same as sample A20**	Second Floor Corridor 2000: Adjacent to classroom 225 above drop ceiling, adhering fiberglass ceiling tile to gypsum board. Photo 75 JHL	ND



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PROJECT NO: 7724-01	PROJECT NAME: ASD Ursa Major Project Analysis	FACILITY: Ursa Major Elementary School	COLLECTION DATE: 06/06/22
FIELD SURVEY DATA ND = NONE DETECTED			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
UM0622-A22	Gypsum wall board	Second Floor Corridor 2000: Adjacent to classroom 225 above suspended ceiling, gypsum wall board. No Photo #	ND
UM0622-A23	Cream 12"x12" birch bark floor tile; hard brown mastic	Second Floor Corridor 2000: Adjacent to classroom 223, above and adhered to Sample A24. Photo 78 JHL	BOTH LAYERS = ND
UM0622-A24	Maroon floor tile; with tarry black mastic (bottom); with hard brown mastic (top)	Second Floor Corridor 2000: Adjacent to classroom 223 underneath Sample A23, adhered to concrete with black mastic. Photo 78 JHL	FT = 6.1% CHRYSOTILE MASTIC = ND
UM0622-A25	Tan pliable mastic for faux 2" x 2" marlite wall tile	Second Floor Corridor 2000: Adjacent to classroom 223 adhering marlite wall panel to plywood substrate. Photo 79 JHL	ND
UM0622-A26	6" flexible beige cove base; pliable cream cove base mastic	Second Floor Corridor 2000: Adjacent to classroom 223 adhered to marlite wall panel with cream mastic. Photo 80 JHL	BOTH LAYERS = ND
UM0622-A27	White joint compound; gypsum wall board	Second Floor Corridor 2000: Adjacent to classroom 223 above suspended ceiling, gypsum board. Photo 68 RAF	1.3% CHRYSOTILE
UM0622-A28	White joint compound	Second Floor Corridor 2000: Adjacent to classroom 224, white skim coat under wall carpet, on metal nosing. Photo 85 JHL	ND
UM0622-A29	Soft cream wall carpet mastic	Second Floor Corridor 2000: Adjacent to classroom 224 adhering wall carpet to skim coat over marlite. Photo 81 JHL	ND
UM0622-A30	Dark brown marlite wall board; white joint compound skim coat	Second Floor Corridor 2000: Adjacent to classroom 224 under wall carpet and over gypsum wall board. Photo 86 JHL	BOTH LAYERS = ND
UM0622-A31	Gypsum wall board	Second Floor Corridor 2000: Adjacent to classroom 224 under marlite wall board. Photo 86 JHL	ND
UM0622-A32	Green 9" x 9" floor tile; with tarry black mastic (bottom); with sticky cream carpeted mastic (top)	Second Floor Classroom 223: At threshold to room, underneath blue short shag carpet and adhered to concrete with black mastic. Photo 69 RAF	FT = 5.7% CHRYSOTILE BOTH MASTIC = ND
UM0622-A33	Tarry black floor tile mastic	Second Floor Classroom 213: Left of door to classroom, adhering brown floor tile to concrete. Photo 95 JHL	ND
UM0622-A34	Brown floor tile; with sticky cream carpet mastic **ignore black mastic, same as sample A33**	Second Floor Classroom 213: Left of door to classroom, underneath blue short shag carpet adhered to concrete with black mastic. Photo 95 JHL	FT = 4.8% CHRYSOTILE MASTIC = ND



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PROJECT NO: 7724-01	PROJECT NAME: ASD Ursa Major Project Analysis	FACILITY: Ursa Major Elementary School	COLLECTION DATE: 06/06/22
FIELD SURVEY DATA <i>ND = NONE DETECTED</i>			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
UM0622-A35	White plaster finish coat **ignore hard brown mastic, same as sample A36**	Second Floor Classroom 213: Left of door to classroom, finish coat over scratch coat, brown mastic for cove base. Photo 95 JHL	<i>ND</i>
UM0622-A36	6" flexible dark brown cove base; pliable brown cove base mastic	Second Floor Classroom 213: Left of door to classroom, adhered to white plaster finish coat with brown mastic. Photo 95 JHL	<i>BOTH LAYERS = ND</i>
UM0622-A37	White plaster finish coat; grey scratch coat	Second Floor Classroom 213: North side of classroom, plaster finish and scratch coat over concrete. Photo 97 JHL	<i>ND</i>
UM0622-A38	White plaster finish coat, grey scratch coat	Second Floor Classroom 212: South corner of classroom, plaster finish and scratch coat over concrete. Photo 78 RAF	<i>BOTH LAYERS = ND</i>
UM0622-A39	Plywood with paint and nail hole patch	Second Floor Classroom 212: South corner of classroom, painted wood trim over plaster. Photo 78 RAF	<i>ND</i>
UM0622-A40	Tan rubber flooring; hard tan mastic, hard grey leveling compound	Second Floor Classroom 212: Southeast quadrant of classroom at carpet transition strip to rubber floor, over concrete. Photo 79 RAF	<i>FT = 4.6% CHRYSO TILE MASTIC = ND</i>
UM0622-A41	Soft cream wall carpet mastic; gypsum wall board; white joint compound	Stairwell 210: South quadrant of stairwell, wall carpet adhered with cream adhesive, over gypsum wall board. Photo 90 RAF	<i>BOTH LAYERS = ND</i>
UM0622-A42	Sandy texture, white coating on concrete	Stairwell 210: South quadrant of stairwell, at short wall/ledge on concrete. Photo 91 RAF	<i>ND</i>
UM0622-A43	Sandy texture, white coating on concrete	Corridor 1000 & Corridor 1002: North wall adjacent to stairwell 210, on concrete. Photo 119 JHL	<i>ND</i>
UM0622-A44	Soft cream wall carpet mastic	Corridor 1002: Northeast wall towards corridor 1000 adjacent to MPR 117, adhering wall carpet to joint compound. Photo 120 JHL	<i>ND</i>
UM0622-A45	White joint compound	Corridor 1002: Northeast wall towards corridor 1000 adjacent to MPR 117, on metal nosing over gypsum board. Photo 122 JHL	<i>ND</i>
UM0622-A46	White joint compound; gypsum wall board	Corridor 1002: Northeast wall towards corridor 1000 adjacent to MPR 117, gypsum wall board on metal stud. Photo 122 JHL	<i>BOTH LAYERS = ND</i>
UM0622-A47	Hard brown wall tile mastic and remnant fiberglass wall tile	First Floor Room 150: North wall of room 150 above suspended ceiling, holding fiberglass wall tile to concrete. Photo 96 RAF	<i>ND</i>
UM0622-A48	White joint compound; gypsum wall board	First Floor Room 150: North wall of room 150 above suspended ceiling, gypsum board furred over concrete. Photo 96 RAF	<i>BOTH LAYERS = ND</i>



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PROJECT NO: 7724-01	PROJECT NAME: ASD Ursa Major Project Analysis	FACILITY: Ursa Major Elementary School	COLLECTION DATE: 06/06/22
FIELD SURVEY DATA <i>ND = NONE DETECTED</i>			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
UM0622-A49	2' x 4' 3/8" and smaller random circular pattern fissures, "galaxy" pattern with flat edge lay in ceiling tile	First Floor Room 150: Typical ceiling tile throughout room on nailed-in ceiling grid. Photo 105 RAF	<i>ND</i>
UM0622-A50	Hard white "fix all"; with sticky cream carpet mastic	First Floor Room 150: At threshold to room, under multicolored short shag carpet over concrete. Photo 107 RAF	<i>BOTH LAYERS = ND</i>
UM0622-A51	Light brown 9" x 9" floor tile; with tarry black mastic (bottom); with sticky cream carpet mastic (top)	First Floor Room 150: South quadrant of room, under multicolored short shag carpet, adhered to concrete with black mastic. Photo 106 RAF	<i>FT = 5.3% CHRYSOTILE MASTIC = TRACE</i>
UM0622-A52	Soft cream wall carpet mastic	First Floor Vestibule 1001: Northwest wall of vestibule, adhering wall carpet to joint compound. Photo 123 JHL	<i>ND</i>
UM0622-A53	White joint compound **ignore cream mastic, same as A52**	First Floor Vestibule 1001: Northwest wall of vestibule, white skim coat under wall carpet over marlite board. Photo 124 JHL	<i>ND</i>
UM0622-A54	Dark brown marlite wall board; white joint compound	First Floor Vestibule 1001: Northwest wall of vestibule, under wall carpet and over gypsum wall board. Photo 124 JHL	<i>BOTH LAYERS = ND</i>
UM0622-A55	Gypsum wall board **ignore dark brown marlite wall board, same as A54**	First Floor Vestibule 1001: Northwest wall of vestibule, gypsum board under marlite. Photo 125 JHL	<i>ND</i>
UM0622-A56	Tarry black (probably remnant) flooring mastic	First Floor Vestibule 1001: Southwest quadrant of vestibule, adhering multicolored short shag carpet to concrete. Photo 128 JHL	<i>1.2% CHRYSOTILE</i>
UM0622-A57	6" flexible beige cove base; with pliable tan and light brown cove base mastics	First Floor Vestibule 1001: Southwest wall of vestibule, adhered to marlite wall panel with tan mastic. Photo 130 JHL	<i>BOTH LAYERS = ND</i>
UM0622-A58	Gypsum wall board	First Floor Vestibule 1001: Southwest wall of vestibule, gypsum wall board. Photo 132 JHL	<i>BOTH LAYERS = ND</i>
UM0622-A59	Fluffy grey spray-on fireproofing	First Floor Library 141: Center of room near structural column above suspended ceiling on steel beam. Photo 156 JHL	<i>ND</i>
UM0622-A60	Hard dark brown remnant wall tile mastic; with remnant fiberglass from wall tile	First Floor Library 141: Center of room near structural column above suspended ceiling on unfinished gypsum wall board. Photo 158	<i>ND</i>
UM0622-A61	Fluffy gray spray-on fireproofing	First Floor Library 141: Center of room near structural column above suspended ceiling on wood framing. Photo 160 JHL	<i>ND</i>
UM0622-A62	Gypsum wall board, older	First Floor Library 141: Center of room near structural column above suspended ceiling, remnant unfinished gypsum wall board. Photo 161 JHL	<i>ND</i>



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PROJECT NO: 7724-01	PROJECT NAME: ASD Ursa Major Project Analysis	FACILITY: Ursa Major Elementary School	COLLECTION DATE: 06/06/22
FIELD SURVEY DATA ND= NONE DETECTED			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
UM0622-A63	6" flexible beige cove base; with pliable cream cove base mastic; with tarry black carpet mastic; with white joint compound	First Floor Library 141: Center of room on south side of structural column, under wall carpet on gypsum board. Photo 118-119 RAF	ALL LAYERS = ND
UM0622-A64	White joint compound; gypsum wall board	First Floor Library 141: Center of room on south side of structural column, under wall carpet. Photo 120 RAF	JC= ND, GWB NOT DETECTED
UM0622-A65	Hard grey leveling compound; hard brown carpet mastic, with remnant tarry black mastic	First Floor Library 141: Center of room on south side of structural column, under blue short shag carpet, over concrete. Photo 121 RAF	ALL LAYERS = ND
UM0622-A66	White joint compound; gypsum wall board	First Floor Corridor 1100: Adjacent to classroom 154, above suspended ceiling, gypsum wall board. Photo 123 RAF	JC= 1.7% CHRYSO TILE GWB= ND
UM0622-A67	Greenish Gray 9"x9" floor tile; with tarry black mastic **ignore tan mastic, same as A68**	First Floor Corridor 1100: Adjacent to room 141 at southeast jog in wall, underneath beige birch bark floor tile and adhered to concrete with black mastic. Photo 167 JHL	FT= 0.25% CHRYSO TILE MASTIC= 1.2% CHRYSO TILE
UM0622-A68	Beige 12"x12" birch bark floor tile; with hard tan mastic	First Floor Corridor 1100: Adjacent to room 141 at southeast jog in wall, adhered to 9"x9" green floor tile with tan mastic. Photo 166 JHL	BOTH LAYERS = ND
UM0622-A69	White joint compound	First Floor Corridor 1100: Adjacent to room 141 at southeast jog in wall, behind plywood on gypsum wall board. Photo 168 JHL	ND
UM0622-A70	Gypsum wall board	First Floor Corridor 1100: Adjacent to room 141 at southeast jog in wall, gypsum wall board behind plywood. Photo 168 JHL	BOTH LAYERS = ND
UM0622-A71	6" flexible beige cove base; with pliable cream cove base mastic	First Floor Corridor 1100: Adjacent to room 141 at southeast jog in wall, cove base adhered to marlite wall panel with cream mastic. Photo 170 JHL	BOTH LAYERS = ND
UM0622-A72	Brown rubber flooring; with hard brown mastic	First Floor Classroom 157: North corner of room at transition from carpet to rubber floor, rubber floor adhered to green 9"x9" floor tile with brown mastic. Photo 140 RAF	BOTH LAYERS = ND
UM0622-A73	Green 9"x9" floor tile; with tarry black mastic **ignore tan mastic, same as A72**	First Floor Classroom 157: North corner of room at transition from carpet to rubber floor, floor tile adhered to concrete with black mastic. Photo 140 RAF	FT= 6.8% CHRYSO TILE MASTIC= ND
END	**END**	**END**	

ADDENDUM NO. 1
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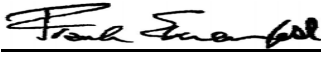
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440905 Client No.: UM0622-A01	Analyst Observation: White/Off-White Joint Compound Client Description: White Joint Compound, Appears To Be Thick Skim Coat	Location: 1st Floor Rm 102: North Corner Of Rm Above Suspended Ceiling At Old Pipe Chase, On Gypsum Wallboard. Facility: <u>Percent Non-Fibrous Material:</u> 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7440905(L2) Client No.: UM0622-A01	Analyst Observation: White Joint Compound Client Description: White Joint Compound, Appears To Be Thick Skim Coat	Location: 1st Floor Rm 102: North Corner Of Rm Above Suspended Ceiling At Old Pipe Chase, On Gypsum Wallboard. Facility: <u>Percent Non-Fibrous Material:</u> 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7440906 Client No.: UM0622-A02	Analyst Observation: Lt Tan Drywall Client Description: Gypsum Wallboard, Older	Location: 1st Floor Rm 102: North Corner Of Rm Above Suspended Ceiling At Old Pipe Chase, Gypsum Wallboard, Ph Facility: <u>Percent Non-Fibrous Material:</u> 90
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	
Note: Joint Compound not present.		
Lab No.: 7440907 Client No.: UM0622-A03	Analyst Observation: White Joint Compound Client Description: White Joint Compound	Location: 1st Floor Rm 102: North Corner Of Rm Above Suspended Ceiling At New Pipe Chase, On Gypsum Wallboard. Facility: <u>Percent Non-Fibrous Material:</u> 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Note: Drywall not present.		

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

Date Received: 6/9/2022
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Analyst: Ellen Smith

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Laboratory Director

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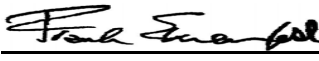
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440908 Client No.: UM0622-A04 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Lt Tan Drywall Client Description: Gypsum Wallboard, Newer <u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	Location: 1st Floor Rm 102: North Corner Of Rm Above Suspended Ceiling At New Pipe Chase, Gypsum Wallboard. Ph Facility: <u>Percent Non-Fibrous Material:</u> 90
Note: Joint Compound not present.		
Lab No.: 7440909 Client No.: UM0622-A05 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Beige Ceiling Tile Client Description: White 12x12 Smooth-Face Fiberglass Ceiling Tile <u>Percent Non-Asbestos Fibrous Material:</u> 99 Fibrous Glass	Location: 1st Floor Rm 102: North Corner Of Rm Above Drop Ceiling, Directly Adhered To Bottom Side Of Concrete Facility: <u>Percent Non-Fibrous Material:</u> 1
Lab No.: 7440909(L2) Client No.: UM0622-A05 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Off-White Covering Material Client Description: White 12x12 Smooth-Face Fiberglass Ceiling Tile <u>Percent Non-Asbestos Fibrous Material:</u> 1 Fibrous Glass	Location: 1st Floor Rm 102: North Corner Of Rm Above Drop Ceiling, Directly Adhered To Bottom Side Of Concrete Facility: <u>Percent Non-Fibrous Material:</u> 99
Lab No.: 7440910 Client No.: UM0622-A06 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Mastic Client Description: Hard Dk Brown Ceiling Tile Mastic To Sample A05 <u>Percent Non-Asbestos Fibrous Material:</u> 1 Fibrous Glass	Location: 1st Floor Rm 102: North Corner Of Rm Above Drop Ceiling, Adhering Fiberglass Ceiling Tile To The Bot Facility: <u>Percent Non-Fibrous Material:</u> 99
Lab No.: 7440911 Client No.: UM0622-A07 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Ceiling Tile Client Description: 2x4 Lay-In Ceiling Tile With Beveled Edges, 4" Squares 1/4 To 1/2" Fissures, And 1/8 To 1/16" Holes <u>Percent Non-Asbestos Fibrous Material:</u> 35 Cellulose 15 Fibrous Glass	Location: 1st Floor Rm 102: Typical Ceiling Tile Throughout Rm On Screwed-In Ceiling Grid. Photo 27 JHL Facility: <u>Percent Non-Fibrous Material:</u> 50

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 Laboratory Director

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ADDENDUM NO. 1
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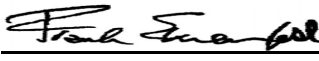
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440912 Client No.: UM0622-A08 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Black Cove Base Client Description: 6" Black Vinyl Cove Base, Cream Cove Base Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Classroom 235: SW Quadrant Of Rm Adhered To Marlite Wallboard. Photo 15 RAF Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440912(L2) Client No.: UM0622-A08 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Off-White Mastic Client Description: 6" Black Vinyl Cove Base, Cream Cove Base Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Classroom 235: SW Quadrant Of Rm Adhered To Marlite Wallboard. Photo 15 RAF Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440913 Client No.: UM0622-A09 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Mastic Client Description: Hard Dk Brown Cove Base Mastic, Dk Brown Marlite <u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	Location: 2nd Floor Classroom 235; SW Quadrant Of Rm, Remnant Mastic Under Black Cove Base to Marlite Wallboard Facility: <u>Percent Non-Fibrous Material:</u> 99
Lab No.: 7440913(L2) Client No.: UM0622-A09 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Fiberboard Client Description: Hard Dk Brown Cove Base Mastic, Dk Brown Marlite <u>Percent Non-Asbestos Fibrous Material:</u> 100 Cellulose	Location: 2nd Floor Classroom 235; SW Quadrant Of Rm, Remnant Mastic Under Black Cove Base to Marlite Wallboard Facility: <u>Percent Non-Fibrous Material:</u> None Detected
Lab No.: 7440914 Client No.: UM0622-A10 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Wall Tile Client Description: White 1x2 Smooth-Face Fiberglass Wall Tile <u>Percent Non-Asbestos Fibrous Material:</u> 98 Fibrous Glass	Location: 2nd Floor Classroom 235: West Corner Of Rm Adhered To Unfinished Gypsum Wallboard With Dk Brown Mast Facility: <u>Percent Non-Fibrous Material:</u> 2

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Laboratory Director

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ADDENDUM NO. 1
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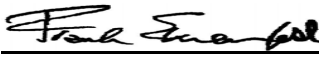
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440915 Client No.: UM0622-A11 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Mastic Client Description: Hard Dk Brown Wall Tile Mastic To Sample A10 <u>Percent Non-Asbestos Fibrous Material:</u> 2 Fibrous Glass	Location: 2nd Floor Classroom 235: West Corner Of Rm Adhering Fiberglass Wall Tile To Gypsum Wallboard. Photo Facility: <u>Percent Non-Fibrous Material:</u> 98
Lab No.: 7440916 Client No.: UM0622-A12 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Beige Ceiling Tile Client Description: White 12x12 Smooth-Face Fiberglass Ceiling Tile <u>Percent Non-Asbestos Fibrous Material:</u> 97 Fibrous Glass	Location: 2nd Floor Classroom 235: West Corner Of Rm Directly Adhered To Unfinished Gypsum Board With Dk Brown Facility: <u>Percent Non-Fibrous Material:</u> 3
Lab No.: 7440917 Client No.: UM0622-A13 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Mastic Client Description: Hard Dk Brown Ceiling Tile Mastic To Sample A12 <u>Percent Non-Asbestos Fibrous Material:</u> 1 Fibrous Glass	Location: 2nd Floor Classroom 235: West Corner Of Rm Adhering Fiberglass Ceiling Tile To Unfinished Gypsum Boa Facility: <u>Percent Non-Fibrous Material:</u> 99
Lab No.: 7440918 Client No.: UM0622-A14 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Lt Tan Drywall Client Description: Unfinished Gypsum Board <u>Percent Non-Asbestos Fibrous Material:</u> 13 Cellulose	Location: 2nd Floor Classroom 235: West Corner Of Rm Under Fiberglass Ceiling Tile. Photo 41 JHL Facility: <u>Percent Non-Fibrous Material:</u> 87
Note: Joint Compound not present.		
Lab No.: 7440919 Client No.: UM0622-A15 <u>Percent Asbestos:</u> PC 5.8 Chrysotile	Analyst Observation: Olive Floor Tile Client Description: Hard Grey Floor Tile, (Can't Tell Size); With Black Mastic; With Sticky Cream Carpet Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Classroom 235: South Quadrant Of Rm Underneath Blue Short Shag Carpet, At Transiting Strip Facility: <u>Percent Non-Fibrous Material:</u> 94.2

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Date Received: 6/9/2022
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ADDENDUM NO. 1
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CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440919(L2) Client No.: UM0622-A15	Analyst Observation: Black Mastic Client Description: Hard Grey Floor Tile, (Can't Tell Size); With Black Mastic; With Sticky Cream Carpet Mastic	Location: 2nd Floor Classroom 235: South Quadrant Of Rm Underneath Blue Short Shag Carpet, At Transiting Strip Facility: Percent Non-Fibrous Material: 97.8
Percent Asbestos: <i>PC 1.2 Chrysotile</i>	Percent Non-Asbestos Fibrous Material: 1 Cellulose	
Lab No.: 7440919(L3) Client No.: UM0622-A15	Analyst Observation: Off-White Mastic Client Description: Hard Grey Floor Tile, (Can't Tell Size); With Black Mastic; With Sticky Cream Carpet Mastic	Location: 2nd Floor Classroom 235: South Quadrant Of Rm Underneath Blue Short Shag Carpet, At Transiting Strip Facility: Percent Non-Fibrous Material: 100
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: None Detected	
Lab No.: 7440920 Client No.: UM0622-A16	Analyst Observation: Off-White/Grey Mastic/Leveling Compound Client Description: Sticky Cream Carpet Mastic	Location: 2nd Floor Classroom 235: South Quadrant Of Rm Adhering Blue Short Shag Carpet To Grey Floor Tile. Ph Facility: Percent Non-Fibrous Material: 100
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: None Detected	
Lab No.: 7440921 Client No.: UM0622-A17	Analyst Observation: Lt Tan Drywall Client Description: White Joint Compound, Gypsum Wallboard, Newer	Location: 2nd Floor Mechanical Rm 236: South Wall Of Mechanical Rm At New Patch In Wall, Unfinished Gypsum Wal Facility: Percent Non-Fibrous Material: 80
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: 20 Cellulose	
Lab No.: 7440921(L2) Client No.: UM0622-A17	Analyst Observation: White Joint Compound Client Description: White Joint Compound, Gypsum Wallboard, Newer	Location: 2nd Floor Mechanical Rm 236: South Wall Of Mechanical Rm At New Patch In Wall, Unfinished Gypsum Wal Facility: Percent Non-Fibrous Material: 100
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: None Detected	

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Date Received: 6/9/2022
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Laboratory Director

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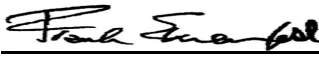
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440922 Client No.: UM0622-A18 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Lt Tan Drywall Client Description: White Joint Compound, Gypsum Wallboard, Older <u>Percent Non-Asbestos Fibrous Material:</u> 20 Cellulose	Location: 2nd Floor Mechanical Rm 236: East Wall Of Mechanical Rm At Older Gypsum Wallboard Wall. Photo 59 JHL Facility: <u>Percent Non-Fibrous Material:</u> 80
Lab No.: 7440922(L2) Client No.: UM0622-A18 <u>Percent Asbestos:</u> <i>PC 1.5 Chrysotile</i>	Analyst Observation: Off-White Joint Compound Client Description: White Joint Compound, Gypsum Wallboard, Older <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Mechanical Rm 236: East Wall Of Mechanical Rm At Older Gypsum Wallboard Wall. Photo 59 JHL Facility: <u>Percent Non-Fibrous Material:</u> 98.5
Lab No.: 7440923 Client No.: UM0622-A19 <u>Percent Asbestos:</u> <i>PC 6.1 Chrysotile</i>	Analyst Observation: Brown Floor Tile Client Description: Maroon Floor Tile (Can't Tell Size); With Tarry Black Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Mechanical Rm 236: East Wall Of Mechanical Rm At Door Threshold, Underneath 12x12 Beige Bi Facility: <u>Percent Non-Fibrous Material:</u> 93.9
Lab No.: 7440923(L2) Client No.: UM0622-A19 <u>Percent Asbestos:</u> <i>PC Trace Chrysotile</i>	Analyst Observation: Black Mastic Client Description: Maroon Floor Tile (Can't Tell Size); With Tarry Black Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Mechanical Rm 236: East Wall Of Mechanical Rm At Door Threshold, Underneath 12x12 Beige Bi Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440924 Client No.: UM0622-A20 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Beige Ceiling Tile Client Description: White 12x12 Smooth-Face Fiberglass Ceiling Tile <u>Percent Non-Asbestos Fibrous Material:</u> 98 Fibrous Glass	Location: 2nd Floor Corridor 2000: Adj To Classroom 225 Above Drop Ceiling. Photo 75 JHL Facility: <u>Percent Non-Fibrous Material:</u> 2

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

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 Laboratory Director

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



9000 Commerce Parkway Suite B
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CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440925 Client No.: UM0622-A21 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Mastic Client Description: Hard Dk Brown Ceiling Tile Mastic To Sample A20 <u>Percent Non-Asbestos Fibrous Material:</u> 1 Fibrous Glass	Location: 2nd Floor Corridor 2000: Adj To Classroom 225 Above Drop Ceiling, Adhering Fiberglass Ceiling Tile T Facility: <u>Percent Non-Fibrous Material:</u> 99
Lab No.: 7440926 Client No.: UM0622-A22 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Lt Tan Drywall Client Description: Gypsum Wallboard <u>Percent Non-Asbestos Fibrous Material:</u> 20 Cellulose	Location: 2nd Floor Corridor 2000: Adj To Classroom 225 Above Suspended Ceiling, Gypsum Wallboard. No Photo # Facility: <u>Percent Non-Fibrous Material:</u> 80
Note: Joint Compound not present.		
Lab No.: 7440927 Client No.: UM0622-A23 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Off-White Floor Tile Client Description: Cream 12x12 Birch Bark Floor Tile, Hard Brown Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Corridor 2000: Adj To Classroom 223, Above And Adhered To Sample A24. Photo 78 JHL Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440927(L2) Client No.: UM0622-A23 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Mastic Client Description: Cream 12x12 Birch Bark Floor Tile, Hard Brown Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Corridor 2000: Adj To Classroom 223, Above And Adhered To Sample A24. Photo 78 JHL Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440928 Client No.: UM0622-A24 <u>Percent Asbestos:</u> PC 6.1 Chrysotile	Analyst Observation: Brown Floor Tile Client Description: Maroon Floor Tile, With Tarry Black Mastic (Bottom), With Hard Brown Mastic (Top) <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Corridor 2000: Adj To Classroom 223 Underneath Sample A23, Adhered To Concrete With Black Facility: <u>Percent Non-Fibrous Material:</u> 93.9

Note: Insufficient mastic provided for analysis.

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 Analyst: Ellen Smith

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CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440929 Client No.: UM0622-A25 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Mastic Client Description: Tan Pliable Mastic For Faux 2x2 Marlite Wall Tile <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Corridor 2000: Adj To Classroom 223 Adhering Marlite Wall Panel To Plywood Substrate. Phot Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440930 Client No.: UM0622-A26 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Cove Base Client Description: 6" Flexible Beige Cove Base, Pliable Cream Cove Base Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Corridor 2000: Adj To Classroom 223 Adhered To Marlite Wall Panel With Cream Mastic. Photo Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440930(L2) Client No.: UM0622-A26 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Off-White Mastic Client Description: 6" Flexible Beige Cove Base, Pliable Cream Cove Base Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Corridor 2000: Adj To Classroom 223 Adhered To Marlite Wall Panel With Cream Mastic. Photo Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440931 Client No.: UM0622-A27 <u>Percent Asbestos:</u> PC 1.3 Chrysotile	Analyst Observation: Off-White Joint Compound Client Description: White Joint Compound, Gypsum Wallboard <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Corridor 2000: Adj To Classroom 223 Above Suspended Ceiling, Gypsum Board. Photo 68 RAF Facility: <u>Percent Non-Fibrous Material:</u> 98.7
Note: Insufficient drywall provided for analysis.		
Lab No.: 7440932 Client No.: UM0622-A28 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Joint Compound Client Description: White Joint Compound <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Corridor 2000: Adj To Classroom 224, White Skim Coat Under Wall Carpet, On Metal Nosing. P Facility: <u>Percent Non-Fibrous Material:</u> 100

Note: Drywall not present.

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CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440933 Client No.: UM0622-A29 <u>Percent Asbestos:</u> <i>None Detected</i> <u>Sample received wet</u>	Analyst Observation: Off-White Mastic Client Description: Soft Cream Wall Carpet Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Corridor 2000: Adj To Classroom 224 Adhering Wall Carpet To Skim Coat Over Marlite. Photo Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440934 Client No.: UM0622-A30 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Fiberboard Client Description: Dk Brown Marlite Wallboard, White Joint Compound Skim Coat <u>Percent Non-Asbestos Fibrous Material:</u> 100 Cellulose	Location: 2nd Floor Corridor 2000: Adj To Classroom 224 Under Wall Carpet And Over Gypsum Wallboard. Photo 86 Facility: <u>Percent Non-Fibrous Material:</u> None Detected
Lab No.: 7440934(L2) Client No.: UM0622-A30 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Joint Compound Client Description: Dk Brown Marlite Wallboard, White Joint Compound Skim Coat <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Corridor 2000: Adj To Classroom 224 Under Wall Carpet And Over Gypsum Wallboard. Photo 86 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440935 Client No.: UM0622-A31 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Lt Tan Drywall Client Description: Gypsum Wallboard <u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	Location: 2nd Floor Corridor 2000: Adj To Classroom 224 Under Marlite Wallboard. Photo 86 JHL Facility: <u>Percent Non-Fibrous Material:</u> 95
Note: Joint Compound not present.		
Lab No.: 7440936 Client No.: UM0622-A32 <u>Percent Asbestos:</u> <i>PC 5.7 Chrysotile</i>	Analyst Observation: Green Floor Tile Client Description: Green 9x9 Floor Tile, With Tarry Black Mastic (Bottom), With Sticky Cream Carped Mastic (Top) <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Classroom 223: At Threshold To Rm, Underneath Blue Short Shag Carpet And Adhered To Concre Facility: <u>Percent Non-Fibrous Material:</u> 94.3

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ADDENDUM NO. 1
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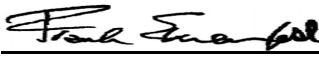
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440936(L2) Client No.: UM0622-A32	Analyst Observation: Black Mastic Client Description: Green 9x9 Floor Tile, With Tarry Black Mastic (Bottom), With Sticky Cream Carped Mastic (Top)	Location: 2nd Floor Classroom 223: At Threshold To Rm, Underneath Blue Short Shag Carpet And Adhered To Concre Facility: <u>Percent Non-Fibrous Material:</u> 99
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	
Lab No.: 7440936(L3) Client No.: UM0622-A32	Analyst Observation: Off-White Mastic Client Description: Green 9x9 Floor Tile, With Tarry Black Mastic (Bottom), With Sticky Cream Carped Mastic (Top)	Location: 2nd Floor Classroom 223: At Threshold To Rm, Underneath Blue Short Shag Carpet And Adhered To Concre Facility: <u>Percent Non-Fibrous Material:</u> 100
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7440937 Client No.: UM0622-A33	Analyst Observation: Black Mastic Client Description: Tarry Black Floor Tile Mastic	Location: 2nd Floor Classroom 213: Left Of Door To Classroom, Adhering Brown Floor Tile To Concrete. Photo 95 Facility: <u>Percent Non-Fibrous Material:</u> 100
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7440938 Client No.: UM0622-A34	Analyst Observation: Tan Floor Tile Client Description: Brown Floor Tile, With Sticky Cream Carpet Mastic	Location: 2nd Floor Classroom 213: Left Of Door To Classroom, Underneath Blue Short Shag Carpet Adhered To Con Facility: <u>Percent Non-Fibrous Material:</u> 95.2
<u>Percent Asbestos:</u> PC 4.8 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7440938(L2) Client No.: UM0622-A34	Analyst Observation: Off-White/Grey Mastic/Leveling Compound Client Description: Brown Floor Tile, With Sticky Cream Carpet Mastic	Location: 2nd Floor Classroom 213: Left Of Door To Classroom, Underneath Blue Short Shag Carpet Adhered To Con Facility: <u>Percent Non-Fibrous Material:</u> 100
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

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ADDENDUM NO. 1
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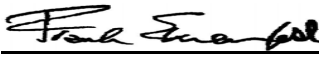
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440939 Client No.: UM0622-A35 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Plaster Client Description: White Plaster Finish Coat <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Classroom 213: Left Of Door To Classroom, Finish Coat Over Scratch Coat, Brown Mastic For Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440940 Client No.: UM0622-A36 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Black Cove Base Client Description: 6" Flexible Dk Brown Cove Base, Pliable Brown Cove Base Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Classroom 213: Left Of Door To Classroom, Adhered To White Plaster Finish Coat With Brown Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440940(L2) Client No.: UM0622-A36 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Mastic Client Description: 6" Flexible Dk Brown Cove Base, Pliable Brown Cove Base Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Classroom 213: Left Of Door To Classroom, Adhered To White Plaster Finish Coat With Brown Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440941 Client No.: UM0622-A37 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Plaster Client Description: White Plaster Finish Coat, Grey Scratch Coat <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Classroom 213: North Side Of Classroom, Plaster Finish And Scratch Coat Over Concrete. Pho Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440942 Client No.: UM0622-A38 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Plaster Client Description: White Plaster Finish Coat, Grey Scratch Coat <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Classroom 212: South Corner Of Classroom, Plaster Finish And Scratch Coat Over Concrete. P Facility: <u>Percent Non-Fibrous Material:</u> 100

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ADDENDUM NO. 1
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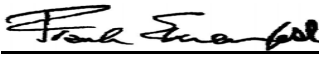
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440943 Client No.: UM0622-A39 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Wood Client Description: PLywood With Paint And Nail Hole Patch <u>Percent Non-Asbestos Fibrous Material:</u> 99 Cellulose	Location: 2nd Floor Classroom 212: South Corner Of Classroom, Painted Wood Trim Over Plaster. Photo 78 RAF Facility: <u>Percent Non-Fibrous Material:</u> 1
Lab No.: 7440944 Client No.: UM0622-A40 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Flooring Client Description: Tan Rubber Flooring, Hard Tan Mastic, Hard Grey Leveling Compound <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Classroom 212: Southeast Quadrant Of Classroom At Carpet Transition Strip To Rubber Floor, Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440944(L2) Client No.: UM0622-A40 <u>Percent Asbestos:</u> PC 4.6 Chrysotile	Analyst Observation: Olive Floor Tile Client Description: Tan Rubber Flooring, Hard Tan Mastic, Hard Grey Leveling Compound <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor Classroom 212: Southeast Quadrant Of Classroom At Carpet Transition Strip To Rubber Floor, Facility: <u>Percent Non-Fibrous Material:</u> 95.4
Note: Mastic not present.		
Lab No.: 7440945 Client No.: UM0622-A41 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Off-White Mastic Client Description: Soft Cream Wall Carpet Mastic, Gypsum Wallboard, White Joint Compound <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Stairwell 210: South Quadrant Of Stairwell, Wall Carpet Adhered With Cream Adhesive, Over Gypsum Wal Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440945(L2) Client No.: UM0622-A41 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Joint Compound Client Description: Soft Cream Wall Carpet Mastic, Gypsum Wallboard, White Joint Compound <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Stairwell 210: South Quadrant Of Stairwell, Wall Carpet Adhered With Cream Adhesive, Over Gypsum Wal Facility: <u>Percent Non-Fibrous Material:</u> 100
Note: Drywall not present.		

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Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440946 Client No.: UM0622-A42	Analyst Observation: White Coating Client Description: Sandy Texture, White Coating On Concrete	Location: Stairwell 210: South Quadrant Of Stairwell, At Short Wall/Ledge On Concrete. Photo 91 RAF Facility: Percent Non-Fibrous Material: 100
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: None Detected	
Lab No.: 7440947 Client No.: UM0622-A43	Analyst Observation: White/Grey Coating Client Description: Sandy Texture, White Coating On Concrete	Location: Corridor 1000 And Corridor 1002: North Wall Adj To Stairwell 210, On Concrete. Photo 119 JHL Facility: Percent Non-Fibrous Material: 100
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: None Detected	
Lab No.: 7440948 Client No.: UM0622-A44	Analyst Observation: Off-White Mastic Client Description: Soft Cream Wall Carpet Mastic	Location: Corridor 1002: Northeast Wall Towards Corridor 1000 Adj To MPR 117, Adhering Wall Carpet To Joint Co Facility: Percent Non-Fibrous Material: 100
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: None Detected	
Sample received wet		
Lab No.: 7440949 Client No.: UM0622-A45	Analyst Observation: White Joint Compound Client Description: White Joint Compound	Location: Corridor 1002: Northeast Wall Towards Corridor 1000 Adj To MPR 117, On Metal Nosing Over Gypsum Boar Facility: Percent Non-Fibrous Material: 100
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: None Detected	

Note: Drywall not present.

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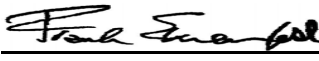
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440950 Client No.: UM0622-A46 <u>Percent Asbestos:</u> <i>None Detected</i> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected <i>Note: Drywall not present.</i>	Analyst Observation: White Joint Compound Client Description: White Joint Compound, Gypsum Wallboard <u>Percent Asbestos:</u> <i>None Detected</i> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Corridor 1002: Northeast Wall Towards Corridor 1000 Adj To MPR 117, Gypsum Wallboard On Metal Stud. Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440951 Client No.: UM0622-A47 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Mastic Client Description: Hard Brown Wall Tile Mastic And Remnant Fiberglass Wall Tile <u>Percent Asbestos:</u> <i>None Detected</i> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Rm 150: North Wall Of Rm 150 Above Suspended Ceiling, Holding Fiberglass Wall Tile To Conc Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440952 Client No.: UM0622-A48 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Lt Tan Drywall Client Description: White Joint Compound, Gypsum Wallboard <u>Percent Asbestos:</u> <i>None Detected</i> <u>Percent Non-Asbestos Fibrous Material:</u> 20 Cellulose	Location: 1st Floor Rm 150: North Wall Of Rm 150 Above Suspended Ceiling, Gypsum Board Furred Over Concrete. P Facility: <u>Percent Non-Fibrous Material:</u> 80
Lab No.: 7440952(L2) Client No.: UM0622-A48 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Joint Compound Client Description: White Joint Compound, Gypsum Wallboard <u>Percent Asbestos:</u> <i>None Detected</i> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Rm 150: North Wall Of Rm 150 Above Suspended Ceiling, Gypsum Board Furred Over Concrete. P Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440953 Client No.: UM0622-A49 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Ceiling Tile Client Description: 2x4 3/8" And Smaller Random Circular Pattern Fissures, Galaxy Pattern With Flat Edge Lay-In Ceiling <u>Percent Asbestos:</u> <i>None Detected</i> <u>Percent Non-Asbestos Fibrous Material:</u> 35 Cellulose 20 Fibrous Glass	Location: 1st Floor Rm 150: Typical Ceiling Tile Throughout Rm On Nailed-In Ceiling Grid. Photo 105 RAF Facility: <u>Percent Non-Fibrous Material:</u> 45

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

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
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CERTIFICATE OF ANALYSIS

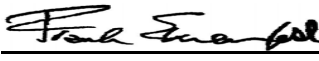
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440954 Client No.: UM0622-A50 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Off-White Mastic Client Description: Hard White Fix All, With Sticky Cream Carpet Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Rm 150: At Threshold To Rm, Under Multicolored Short Shag Carpet Over Concrete. Photo 107 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440954(L2) Client No.: UM0622-A50 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Off-White Covering Material Client Description: Hard White Fix All, With Sticky Cream Carpet Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Rm 150: At Threshold To Rm, Under Multicolored Short Shag Carpet Over Concrete. Photo 107 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440955 Client No.: UM0622-A51 <u>Percent Asbestos:</u> PC 5.3 Chrysotile	Analyst Observation: Tan Floor Tile Client Description: Lt Brown 9x9 Floor Tile, With Tarry Black Mastic (Bottom), With Sticky Cream Carpet Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Rm 150: South Quadrant Of Rm, Under Multicolored Short Shag Carpet, Adhered To Concrete Wi Facility: <u>Percent Non-Fibrous Material:</u> 94.7
Lab No.: 7440955(L2) Client No.: UM0622-A51 <u>Percent Asbestos:</u> PC Trace Chrysotile	Analyst Observation: Black Mastic Client Description: Lt Brown 9x9 Floor Tile, With Tarry Black Mastic (Bottom), With Sticky Cream Carpet Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Rm 150: South Quadrant Of Rm, Under Multicolored Short Shag Carpet, Adhered To Concrete Wi Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440956 Client No.: UM0622-A52 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Mastic Client Description: Soft Cream Wall Carpet Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Vestibule 1001: Northwest Wall Of Vestibule, Adhering Wall Carpet to Joint Compound. Photo Facility: <u>Percent Non-Fibrous Material:</u> 100

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ADDENDUM NO. 1
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Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440957 Client No.: UM0622-A53 <u>Percent Asbestos:</u> <i>None Detected</i> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected <u>Note:</u> Drywall not present.	Analyst Observation: White Joint Compound Client Description: White Joint Compound <u>Percent Asbestos:</u> None Detected <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Vestibule 1001: Northwest Wall Of Vestibule, White Skim Coat Under Wall Carpet Over Marlit Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440958 Client No.: UM0622-A54 <u>Percent Asbestos:</u> None Detected	Analyst Observation: Brown Fiberboard Client Description: Dk Brown Marlite Wallboard, White Joint Compound <u>Percent Asbestos:</u> None Detected <u>Percent Non-Asbestos Fibrous Material:</u> 100 Cellulose	Location: 1st Floor Vestibule 1001: Northwest Wall Of Vestibule, Under Wall Carpet And Over Gypsum Wallboard. Facility: <u>Percent Non-Fibrous Material:</u> None Detected
Lab No.: 7440958(L2) Client No.: UM0622-A54 <u>Percent Asbestos:</u> None Detected	Analyst Observation: White Joint Compound Client Description: Dk Brown Marlite Wallboard, White Joint Compound <u>Percent Asbestos:</u> None Detected <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Vestibule 1001: Northwest Wall Of Vestibule, Under Wall Carpet And Over Gypsum Wallboard. Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440959 Client No.: UM0622-A55 <u>Percent Asbestos:</u> None Detected	Analyst Observation: Off-White Drywall Client Description: Gypsum Wallboard <u>Percent Asbestos:</u> None Detected <u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	Location: 1st Floor Vestibule 1001: Northwest Wall Of Vestibule, Gypsum Board Under Marlite. Photo 125 JHL Facility: <u>Percent Non-Fibrous Material:</u> 90
Lab No.: 7440960 Client No.: UM0622-A56 <u>Percent Asbestos:</u> PC 1.2 Chrysotile	Analyst Observation: Black Mastic Client Description: Tarry Black (Probably Remnant) Flooring Mastic <u>Percent Asbestos:</u> None Detected <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Vestibule 1001: Southwest Quadrant Of Vestibule, Adhering Multicolored Short Shag Carpet T Facility: <u>Percent Non-Fibrous Material:</u> 98.8

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CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440961 Client No.: UM0622-A57 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Cove Base Client Description: 6" Flexible Beige Cove Base, With Pliable Tan And Lt Brown Cove Base Mastics <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Vestibule 1001: Southwest Wall Of Vestibule, Adhered To Marlite Wall Panel With Tan Mastic Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440961(L2) Client No.: UM0622-A57 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Off-White Mastic Client Description: 6" Flexible Beige Cove Base, With Pliable Tan And Lt Brown Cove Base Mastics <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Vestibule 1001: Southwest Wall Of Vestibule, Adhered To Marlite Wall Panel With Tan Mastic Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440962 Client No.: UM0622-A58 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Lt Tan Drywall Client Description: Gypsum Wallboard <u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	Location: 1st Floor Vestibule 1001: Southwest Wall Of Vestibule, Gypsum Wallboard. Photo 132 JHL Facility: <u>Percent Non-Fibrous Material:</u> 90
Note: Joint Compound not present.		
Lab No.: 7440962(L2) Client No.: UM0622-A58 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Mastic Client Description: Gypsum Wallboard <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Vestibule 1001: Southwest Wall Of Vestibule, Gypsum Wallboard. Photo 132 JHL Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440963 Client No.: UM0622-A59 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Spray-On Fireproofing Client Description: Fluffy Grey Spray-On Fireproofing <u>Percent Non-Asbestos Fibrous Material:</u> 13 Cellulose 3 Fibrous Glass	Location: 1st Floor Library 141: Center Of Rm Near Structural Column Above Suspended Ceiling On Steel Beam. Ph Facility: <u>Percent Non-Fibrous Material:</u> 84

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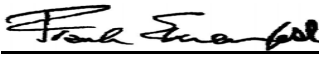
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440964 Client No.: UM0622-A60 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Mastic Client Description: Hard Dk Brown Remnant Wall Tile Mastic, With Remnant Fiberglass From Wall Tile <u>Percent Non-Asbestos Fibrous Material:</u> 1 Fibrous Glass	Location: 1st Floor Library 141: Center Of Rm Near Structural Column Above Suspended Ceiling On Unfinished Gyp Facility: <u>Percent Non-Fibrous Material:</u> 99
Lab No.: 7440965 Client No.: UM0622-A61 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Spray-On Fireproofing Client Description: Fluffy Grey Spray-On Fireproofing <u>Percent Non-Asbestos Fibrous Material:</u> 13 Cellulose 4 Fibrous Glass	Location: 1st Floor Library 141: Center Of Rm Near Structural Column Above Suspended Ceiling On Wood Framing. Facility: <u>Percent Non-Fibrous Material:</u> 83
Lab No.: 7440966 Client No.: UM0622-A62 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Lt Tan Drywall Client Description: Gypsum Wallboard, Older <u>Percent Non-Asbestos Fibrous Material:</u> 20 Cellulose	Location: 1st Floor Library 141: Center Of Rm Near Structural Column Above Suspended Ceiling, Remnant Unfinish Facility: <u>Percent Non-Fibrous Material:</u> 80
Note: Joint Compound not present		
Lab No.: 7440967 Client No.: UM0622-A63 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Cove Base Client Description: 6" Flexible Beige Cove Base, With Pliable Cream Cove Base Mastic, With Tarry Black Carpet Mastic, Wi <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Library 141: Center Of Rm On South Side Of Structural Column, Under Wall Carpet On Gypsum Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440967(L2) Client No.: UM0622-A63 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Mastic Client Description: 6" Flexible Beige Cove Base, With Pliable Cream Cove Base Mastic, With Tarry Black Carpet Mastic, Wi <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Library 141: Center Of Rm On South Side Of Structural Column, Under Wall Carpet On Gypsum Facility: <u>Percent Non-Fibrous Material:</u> 100

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CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440967(L3) Client No.: UM0622-A63	Analyst Observation: Off-White Mastic Client Description: 6" Flexible Beige Cove Base, With Pliable Cream Cove Base Mastic, With Tarry Black Carpet Mastic, Wi	Location: 1st Floor Library 141: Center Of Rm On South Side Of Structural Column, Under Wall Carpet On Gypsum Facility: Percent Non-Fibrous Material: 100
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: None Detected	
Lab No.: 7440967(L4) Client No.: UM0622-A63	Analyst Observation: Off-White Joint Compound Client Description: 6" Flexible Beige Cove Base, With Pliable Cream Cove Base Mastic, With Tarry Black Carpet Mastic, Wi	Location: 1st Floor Library 141: Center Of Rm On South Side Of Structural Column, Under Wall Carpet On Gypsum Facility: Percent Non-Fibrous Material: 100
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: None Detected	
Lab No.: 7440968 Client No.: UM0622-A64	Analyst Observation: White Joint Compound Client Description: White Joint Compound, Gypsum Wallboard	Location: 1st Floor Library 141: Center Of Rm On South Side Of Structural Column, Under Wall Carpet. Photo 120 Facility: Percent Non-Fibrous Material: 100
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: None Detected	
Note: Drywall not present.		
Lab No.: 7440969 Client No.: UM0622-A65	Analyst Observation: Grey Leveling Compound Client Description: Hard Grey Leveling Compound, Hard Brown Carpet Mastic, With Remnant Tarry Black Mastic	Location: 1st Floor Library 141: Center Of Rm On South Side Of Structural Column, Under Blue Short Shag Carpet Facility: Percent Non-Fibrous Material: 100
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: None Detected	
Lab No.: 7440969(L2) Client No.: UM0622-A65	Analyst Observation: Tan Mastic Client Description: Hard Grey Leveling Compound, Hard Brown Carpet Mastic, With Remnant Tarry Black Mastic	Location: 1st Floor Library 141: Center Of Rm On South Side Of Structural Column, Under Blue Short Shag Carpet Facility: Percent Non-Fibrous Material: 100
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: None Detected	

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CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440969(L3) Client No.: UM0622-A65 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Black Mastic Client Description: Hard Grey Leveling Compound, Hard Brown Carpet Mastic, With Remnant Tarry Black Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Library 141: Center Of Rm On South Side Of Structural Column, Under Blue Short Shag Carpet Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7440970 Client No.: UM0622-A66 <u>Percent Asbestos:</u> PC 1.7 Chrysotile	Analyst Observation: Off-White Joint Compound Client Description: White Joint Compound; Gypsum Wallboard <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Corridor 1100: Adj To Classroom 154, Above Suspended Ceiling, Gypsum Wallboard. Photo 123 Facility: <u>Percent Non-Fibrous Material:</u> 98.3
<i>Note: Insufficient drywall provided for analysis.</i>		
Lab No.: 7440971 Client No.: UM0622-A67 <u>Percent Asbestos:</u> PC 0.25 Chrysotile	Analyst Observation: Green Floor Tile Client Description: Greenish Grey 9x9 Floor Tile, With Tarry Black Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Corridor 1100: Adj To Rm 141 At Southeast Jog In Wall, Underneath Beige Birch Bark Floor T Facility: <u>Percent Non-Fibrous Material:</u> 99.75
Lab No.: 7440971(L2) Client No.: UM0622-A67 <u>Percent Asbestos:</u> PC 1.2 Chrysotile	Analyst Observation: Black Mastic Client Description: Greenish Grey 9x9 Floor Tile, With Tarry Black Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Corridor 1100: Adj To Rm 141 At Southeast Jog In Wall, Underneath Beige Birch Bark Floor T Facility: <u>Percent Non-Fibrous Material:</u> 98.8
Lab No.: 7440972 Client No.: UM0622-A68 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Lt Tan Floor Tile Client Description: Beige 12x12 Birch Bard Floor Tile, With Hard Tan Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor Corridor 1100: Adj To Rm 141 At Southeast Jog In Wall, Adhered To 9x9 Green Floor Tile Wit Facility: <u>Percent Non-Fibrous Material:</u> 100

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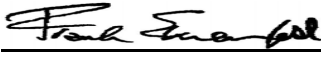
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440972(L2) Client No.: UM0622-A68	Analyst Observation: Tan Mastic Client Description: Beige 12x12 Birch Bard Floor Tile, With Hard Tan Mastic	Location: 1st Floor Corridor 1100: Adj To Rm 141 At Southeast Jog In Wall, Adhered To 9x9 Green Floor Tile Wit Facility: <u>Percent Non-Fibrous Material:</u> 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7440973 Client No.: UM0622-A69	Analyst Observation: White Joint Compound Client Description: White Joint Compound	Location: 1st Floor Corridor 1100: Adj To Rm 141 At Southeast Jog In Wall, Behind Plywood On Gypsum Wallboard. Facility: <u>Percent Non-Fibrous Material:</u> 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
<u>Note: Drywall not present.</u>		
Lab No.: 7440974 Client No.: UM0622-A70	Analyst Observation: Lt Tan Drywall Client Description: Gypsum Wallboard	Location: 1st Floor Corridor 1100: Adj To Rm 141 At Southeast Jog In Wall. Gypsum Wallboard Behind Plywood. Ph Facility: <u>Percent Non-Fibrous Material:</u> 90
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	
Lab No.: 7440974(L2) Client No.: UM0622-A70	Analyst Observation: White Joint Compound Client Description: Gypsum Wallboard	Location: 1st Floor Corridor 1100: Adj To Rm 141 At Southeast Jog In Wall. Gypsum Wallboard Behind Plywood. Ph Facility: <u>Percent Non-Fibrous Material:</u> 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7440975 Client No.: UM0622-A71	Analyst Observation: Tan Cove Base Client Description: 6" Flexible Beige Cove Base, With Pliable Cream Cove Base Mastic	Location: 1st Floor Corridor 1100: Adj To Rm 141 At Southeast Jog In Wall, Cove Base Adhered To Marlite Wall P Facility: <u>Percent Non-Fibrous Material:</u> 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

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Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7440975(L2) Client No.: UM0622-A71	Analyst Observation: Lt Tan Mastic Client Description: 6" Flexible Beige Cove Base, With Pliable Cream Cove Base Mastic	Location: 1st Floor Corridor 1100: Adj To Rm 141 At Southeast Jog In Wall, Cove Base Adhered To Marlite Wall P Facility: <u>Percent Non-Fibrous Material:</u> 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7440976 Client No.: UM0622-A72	Analyst Observation: Tan Flooring Client Description: Brown Rubber Flooring, With Hard Brown Mastic	Location: 1st Floor Classroom 157: North Corner Of Rm At Transiting From Carpet To Rubber Floor, Rubber Floor Facility: <u>Percent Non-Fibrous Material:</u> 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7440976(L2) Client No.: UM0622-A72	Analyst Observation: Tan Mastic Client Description: Brown Rubber Flooring, With Hard Brown Mastic	Location: 1st Floor Classroom 157: North Corner Of Rm At Transiting From Carpet To Rubber Floor, Rubber Floor Facility: <u>Percent Non-Fibrous Material:</u> 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7440977 Client No.: UM0622-A73	Analyst Observation: Green Floor Tile Client Description: Green 9x9 Floor Tile, With Tarry Black Mastic	Location: 1st Floor Classroom 157: North Corner Of Rm At Transiting From Carpet To Rubber Floor, Floor Tile Ad Facility: <u>Percent Non-Fibrous Material:</u> 93.2
<u>Percent Asbestos:</u> <i>PC 6.8 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7440977(L2) Client No.: UM0622-A73	Analyst Observation: Black Mastic Client Description: Green 9x9 Floor Tile, With Tarry Black Mastic	Location: 1st Floor Classroom 157: North Corner Of Rm At Transiting From Carpet To Rubber Floor, Floor Tile Ad Facility: <u>Percent Non-Fibrous Material:</u> 99
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	

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

Date Received: 6/9/2022
Date Analyzed: 06/10/2022
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 6/13/2022 2:21:54

Page 22 of 25

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 – Page 93 of 332



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

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

Appendix to Analytical Report

Customer Contact: Cali Swatowski

Method: 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

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

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: wchampion@iatl.com

iATL Account Representative: Semih Kocahasan

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
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

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

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

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



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

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 6/10/2022 Report No.: 662608 - PLM Project: ASD Ursa Major Project Analysis Project No.: 7724-01
Client: EHS511	

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

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

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

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

Disclaimers / Qualifiers:

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

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

Recommendations for Vermiculite Analysis:

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

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

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

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

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, 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. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

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% for most samples.

Dated : 6/13/2022 2:21:54

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Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 – Page 95 of 332

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



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

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Client: EHS511

Report Date: 6/10/2022
Report No.: 662608 - PLM
Project: ASD Ursa Major Project Analysis
Project No.: 7724-01

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.

*With advance notice and confirmation by the laboratory.

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

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other than SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.

EHS ALASKA
INCORPORATED

EHS-Alaska, Inc.
11901 Business Blvd., Suite 208, Eagle River, AK 99577-7701
(907) 694-1383 phone • (907) 694-1382 f
e-mail • ehsak@ehs-alaska.com
L22 1742

CHAIN OF CUSTODY RECORD/FIELD SURVEY DATA				Page <u>1</u> of <u>1</u>
FIELD COLLECTION DATE: <u>07/20/22</u>		JOB #: <u>7724</u>		BULK ANALYSIS REQUESTED: (circle) <u>PLM / TEM BULK / LEAD TCLP / LEAD PPM</u>
PROJECT NAME: <u>SEISMIC UPGRADES</u> <u>URSA MAJOR ELEMENTARY SCHOOL</u>			MATERIAL TYPE: (Circle) <u>ASBESTOS</u>	LEAD QUANTITIES: <u>4</u>
FACILITY: <u>URSA MAJOR ELEMENTARY SCHOOL</u>		DISPOSAL: <u>NORMAL</u>	TURNAROUND: <u>ASAP</u>	
SPECIAL INSTRUCTIONS: <u>CALL 907-694-1383 BOB OR JOHN w/ RESULTS</u>				
COLLECTED BY (signature) <u>John H. Lamont</u> PRINTED NAME <u>John H. Lamont</u> CERT# <u>SELF</u> AHERA# SHIPPING METHOD <u>SELF</u> COURIER (signature) <u>07/20/22</u> DATE/TIME		COMMENTS: SELECTED LABORATORY <u>Michael Azzu</u> SAMPLES ACCEPTED BY <u>7/20/22 12:45pm</u> DATE/TIME ANALYST'S SIGNATURE DATE <u>0% Asbestos</u>		
SAMPLE ID	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION / COMMENTS (INCLUDING PHOTO / XREF)	RESULTS	
1. <u>A01</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>CRISPY BLACK MASTIC</u> WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	<u>UME: 2nd FLOOR STAIRWELL @ ORIGINAL WALL BTWN CONC. CHWB</u>	<u>None Detected</u>	
2. <u>A02</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>TAR PAPER BLACK</u> WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	<u>UME: 2nd FLOOR STAIRWELL @ OG WALL BTWN LATHE & CONC.</u>	<u>None Detected</u>	
3. <u>A03</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>TAR @ SHIM BLACK</u> WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	<u>UME: 2nd FLOOR STAIRWELL @ OG WALL BTWN WOOD STUD & CONC.</u>	<u>5% Chrysotile</u>	
4. <u>A04</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>BLACK TAR @ CONC.</u> WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	<u>UME: 2nd FLOOR STAIRWELL @ OG WALL DIRECTLY ON CONC.</u>	<u>5% Chrysotile</u>	
5. MATERIAL CONDITION: GOOD FAIR POOR	WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:			
6. MATERIAL CONDITION: GOOD FAIR POOR	WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:			
7. MATERIAL CONDITION: GOOD FAIR POOR	WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:			
8. MATERIAL CONDITION: GOOD FAIR POOR	WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:			

RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA

EHS-0408

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



Lab Code: 200124-0

Bulk Sample Analysis for Asbestos

Atlas Project #: L22-1742

Client Project #: 7724

Report #: 699847

Report By: A. Streveler

Report Date: 07/20/2022

Client: EHS Alaska, Inc.
11901 Business Blvd., Ste 208
Eagle River, AK 99577

Billing Number: 24606

Collected By: Client
Collection Date: 07/20/2022
Analysis By: A. Streveler
Analysis Date: 07/20/2022
Received By: M. Auza
Received Date: 07/20/2022

TAT: Rush

Sample Count: 4 Layer Count: 4

Project Name/Location: Seismic Upgrades - Ursa Major Elementary School

Client ID #	ATLAS ID#	Location:	Homogeneous	Material	Color	Layer
A01	AB22-3314	UME: 2nd Floor Stairwell @ Original Wall Btwn Conc. GWB	Yes	Mastic	Black	1 of 1
Asbestos: None Detected						
Other Fibrous: None Detected						

Non-Fibrous Materials: 100%

Client ID #	ATLAS ID#	Location:	Homogeneous	Material	Color	Layer
A02	AB22-3315	UME: 2nd Floor Stairwell @ OG Wall Btwn Lathe & Conc.	Yes	Tar Paper	Black	1 of 1
Asbestos: None Detected						
Other Fibrous Material Fibrous %						
Cellulose 40%						

Other Fibrous Materials: 40%

Non-Fibrous Materials: 60%

Client ID #	ATLAS ID#	Location:	Homogeneous	Material	Color	Layer
A03	AB22-3316	UME: 2nd Floor Stairwell @ OG Wall Btwn Wood Stud & Conc	Yes	Tar	Black	1 of 1
Asbestos Type Asbestos %						
Chrysotile 5%						
Other Fibrous: None Detected						

% Asbestos: 5%

Non-Fibrous Materials: 95%

Client ID #	ATLAS ID#	Location:	Homogeneous	Material	Color	Layer
A04	AB22-3317	UME: 2nd Floor Stairwell @ OG Wall Directly on Conc.	Yes	Tar	Black	1 of 1
Asbestos Type Asbestos %						
Chrysotile 5%						
Other Fibrous: None Detected						

% Asbestos: 5%

Non-Fibrous Materials: 95%



Lab Code: 200124-0

Bulk Sample Analysis for Asbestos

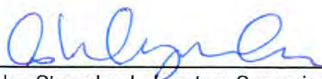
Atlas Project #: L22-1742

Client Project #: 7724

Report #: 699847

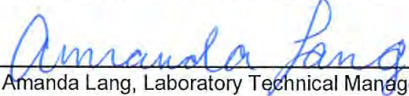
Report By: A. Streveler

Report Date: 07/20/2022


Ashley Streveler, Laboratory Supervisor

07/20/2022

Date


Amanda Lang, Laboratory Technical Manager

07/20/2022

Date

Asbestos Containing Material (ACM) Definition: >1% asbestos by weight is considered an ACM.
TRACE = Less than 1% Asbestos by weight.

The Atlas Anchorage Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP Lab Code: 200124-0) and in accordance with the recognized International Standard ISO/IEC 10725:2017. Analysis performed by: EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples or EPA Method 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials at the discretion of the client or Atlas.

Unless a point-counting method is requested and noted for the sample, all quantities reported are based on calibrated visual estimation by Polarized Light Microscopy (PLM). Non-homogenous samples will be layered for testing unless stop-positive is requested by the client or otherwise stated in the chain of custody (COC). Asbestos results are reliable within 2 significant figures.

Analysis Report generated by Atlas relates only to items tested and submitted on the COC and must not be used by clients to claim product endorsement by the National Voluntary Laboratory Accreditation Program (NVLAP) or any agency of the U.S Government. This report shall not be reproduced, except in full, without written approval of the laboratory. Conditions of samples upon receipt were acceptable unless otherwise stated.

Liability Notice: Atlas and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples.
Confidentiality Notice: The document(s) contained herein are confidential and privileged information, intended for the exclusive use of the individual or entity named above.

[illegible]



383 Industrial Way, Suite 300
Anchorage, AK 99501 (907) 258-8661
anchorage@oneatlas.com

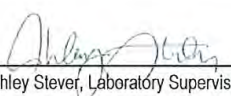


Lab Code 200124-0

PLM BULK SAMPLE ANALYSIS FOR ASBESTOS

Lab Login #:	0221791	Report #:	0221791
Atlas Job #:	1423	Report By:	A. Lang
Client Project #:	40753	Report Date:	07/26/2022
Client:	Satori Group, Inc. 1310 E. 66th Avenue, Ste 2 Anchorage AK 99518 Billing Number: 1001157	Collected By:	E. VanNortwick
		Collection Date:	07/26/2022
		Analyzed By:	A. Lang
		Date Analyzed:	07/26/2022
TAT:	RUSH	Received By:	A. Lang
Project Name/ Location:	Ursa Major ES	Received Date:	07/26/2022
	Sample Count: 1		Layer Count: 1

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
0221791-001 1423-01	Room #223 Black Mastic, Black, Homogeneous, Non-Fibrous	LAYER 1 100%			None Detected	0%
			Non-Fibrous Material	100%		
			Total % Non-Asbestos:	100.0%	Total % Asbestos:	No Asbestos Detected

Analyzed by:		07/26/2022	Approved Signatory:		07/26/2022
	Amanda Lang	Date		Ashley Stever, Laboratory Supervisor	Date

Asbestos Containing Material (ACM) Definition: >1% asbestos by weight is considered an ACM.

TRACE = Less than 1% Asbestos by weight.

The Atlas Anchorage Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP Lab Code: 200124-0) and in accordance with the recognized International Standard ISO/IEC 10725:2017. Analysis performed by: EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples or EPA Method 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials at the discretion of the client or Atlas.

Unless a point-counting method is requested and noted for the sample, all quantities reported are based on calibrated visual estimation by Polarized Light Microscopy (PLM). Non-homogenous samples will be layered for testing unless stop-positive is requested by the client or otherwise stated in the chain of custody (COC). Asbestos results are reliable within 2 significant figures.

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Liability Notice: Atlas and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples.

Confidentiality Notice: The document(s) contained herein are confidential and privileged information, intended for the exclusive use of the individual or entity named above.

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EHS-ALASKA, INC.
EHS ALASKA
INCORPORATED

EHS-Alaska, Inc.

11901 Business Blvd., Suite 208, Eagle River, AK 99577
(907) 694-1383 • (907) 694-1382 fax
e-mail • ehsak@ehs-alaska.com

PROJECT NO: 7724-01	PROJECT NAME: ASD Ursa Major Project Analysis	FACILITY: Ursa Major Elementary School	COLLECTION DATE: 07/29/22
-------------------------------	---	--	-------------------------------------

CHAIN OF CUSTODY RECORD

ANALYSIS REQUESTED:	☒ PLM BULK ☐ LEAD DUST ☐ TEM MICROVAC DUST (ASTM 5756)	☐ PLM DUST ☐ LEAD TCLP ☐ LEAD PPM	☐ TEM BULK ☐ LEAD PPM	TYPE: ☒ ASBESTOS ☐ LEAD	TURNAROUND: 8 hour rush	DISPOSAL: NORMAL	QUANTITY: 7
COLLECTED BY (signature) Robert French PRINTED NAME 1564 88IMP 0028 CERT# / AHERA# FedEx SHIPPING METHOD FedEx: 7775 3159 8440 COURIER (signature) DATE/TIME 07-30-22 1100 am				SPECIAL INSTRUCTIONS / COMMENTS: LAB: RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA, INC. See sample location drawing for more detailed explanation of exact locations. <i>70 asbestos</i>			
IATL RECEIVED SAMPLES ACCEPTED BY DATE/TIME 8-1-22 ANALYST'S SIGNATURE DATE 8-1-22							

FIELD SURVEY DATA

EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS FOR EHS-ALASKA USE ONLY
UM72922-A01 7471918	Red and light tan joint filler, plus plaster scratch coat	Room 150, East wall, lower left hand side at crack. Photos 8 & 9	None Detected Three layers
UM72922-A02 7471920	Red and light tan joint filler	Room 150, East wall, upper right hand side at crack. Photos 10, 13 & 14	None Detected Two layers
UM72922-A03 7471921	Light tan joint filler	Room 179, North wall, middle of wall. Photo 20	None Detected
UM72922-A04 7471922	Greenish tan mastic, likely to wood furring strip	Room 179, North wall, middle of wall. Photos 21 & 22	None Detected
UM72922-A05 7471923	Black tarry waterproofing on concrete	Room 179, North wall, left side of wall. Photo 23	6.7% chrysotile
UM72922-A06 7471924	Possibly hot mop tar, adhering cork to concrete, more shiny	Room 236, South wall to the right of the ductwork. Photo 36	None Detected
UM72922-A07 7471925	Possibly waterproofing tar, dull finish	Room 236, South wall to the right of the ductwork. Photos 37 & 38	10% chrysotile
END	**END**	**END**	

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



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

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 8/1/2022 Report No.: 666051 - PLM Project: ASD Ursa Major Project Analysis; Ursa Major ES Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7471919 Client No.: UM72922-A01 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Red Sealant Client Description: Red And Light Tan Joint Filler, Plus Plaster Scratch Coat <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Room 150 East Wall Lower Left Hand Side At Crack Photos 8 And 9 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7471919(L2) Client No.: UM72922-A01 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Sealant Client Description: Red And Light Tan Joint Filler, Plus Plaster Scratch Coat <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Room 150 East Wall Lower Left Hand Side At Crack Photos 8 And 9 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7471919(L3) Client No.: UM72922-A01 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Grey Cementitious Client Description: Red And Light Tan Joint Filler, Plus Plaster Scratch Coat <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Room 150 East Wall Lower Left Hand Side At Crack Photos 8 And 9 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7471920 Client No.: UM72922-A02 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Red/Tan Sealant Client Description: Red And Light Tan Joint Filler <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Room 150 East Wall Upper Right Hand Side At Crack Photos 10, 13 And 14 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7471920(L2) Client No.: UM72922-A02 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Texture Client Description: Red And Light Tan Joint Filler <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Room 150 East Wall Upper Right Hand Side At Crack Photos 10, 13 And 14 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7471921 Client No.: UM72922-A03 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Sealant Client Description: Light Tan Joint Filler <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Room 179 North Wall Middle Of Wall Photo 20 Facility: <u>Percent Non-Fibrous Material:</u> 100

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

Date Received: 8/1/2022
Date Analyzed: 08/01/2022
Signature:
Analyst: Rebecca Hargrove

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 8/1/2022 2:21:52

Page 1 of 5

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



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

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 8/1/2022 Report No.: 666051 - PLM Project: ASD Ursa Major Project Analysis; Ursa Major ES Project No.: 7724-01
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7471922 Client No.: UM72922-A04 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Mastic Client Description: Greenish Tan Mastic, Likely To Wood Furring Strip <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Room 179 North Wall Middle Of Wall Photos 21 And 22 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7471923 Client No.: UM72922-A05 <u>Percent Asbestos:</u> <i>PC 6.7 Chrysotile</i>	Analyst Observation: Black Tar Client Description: Black Tarry Waterproofing On Concrete <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Room 179 North Wall Left Side Of Wall Photo 23 Facility: <u>Percent Non-Fibrous Material:</u> 93.3
Lab No.: 7471924 Client No.: UM72922-A06 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Black Tar Client Description: Possibly Hot Mop Tar, Adhering Cork To Concrete, More Shiny <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Room 236 South Wall To The Right Of The Ductwork Photo 36 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7471925 Client No.: UM72922-A07 <u>Percent Asbestos:</u> <i>10 Chrysotile</i>	Analyst Observation: Black Tar Client Description: Possibly Waterproofing Tar, Dull Finish <u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	Location: Room 236 South Wall To The Right Of The Ductwork Photos 37 And 38 Facility: <u>Percent Non-Fibrous Material:</u> 88

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

Date Received: 8/1/2022
Date Analyzed: 08/01/2022
Signature:
Analyst: Rebecca Hargrove

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 8/1/2022 2:21:52

Page 2 of 5

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 – Page 104 of 332



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

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 8/1/2022
Report No.: 666051 - PLM
Project: ASD Ursa Major Project Analysis; Ursa
Major ES
Project No.: 7724-01

Client: EHS511

Appendix to Analytical Report

Customer Contact: Cali Swatowski

Method: 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

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

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: wchampion@iatl.com

iATL Account Representative: Semih Kocahasan

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
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

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

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

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



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

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 8/1/2022 Report No.: 666051 - PLM Project: ASD Ursa Major Project Analysis; Ursa Major ES Project No.: 7724-01
Client: EHS511	

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

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

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

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

Disclaimers / Qualifiers:

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

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

Recommendations for Vermiculite Analysis:

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

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

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

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

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, 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. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

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% for most samples.

Dated : 8/1/2022 2:21:52

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Ursa Major ES Replacement ITB-1-Demolition
Project 386011

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



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

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 8/1/2022
Report No.: 666051 - PLM
Project: ASD Ursa Major Project Analysis; Ursa
Major ES
Project No.: 7724-01

Client: EHS511

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.

*With advance notice and confirmation by the laboratory.

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

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other than SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.

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EHS ALASKA
INCORPORATED

EHS-Alaska, Inc.

11901 Business Blvd., Suite 208, Eagle River, AK 99577

(907) 694-1383 • (907) 694-1382 fax

e-mail • ehsak@ehs-alaska.com

PROJECT NO: 7297-01	PROJECT NAME: ASD Ursa Major ES Exterior Stair Replacement	FACILITY: Ursa Major Elementary School	COLLECTION DATE: 04/29/2014
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CHAIN OF CUSTODY RECORD							
ANALYSIS REQUESTED:	☒ PLM BULK ☐ LEAD DUST ☐ TEM MICROVAC DUST (ASTM 5756)	☐ PLM DUST ☐ LEAD TCLP	☐ TEM BULK ☐ LEAD PPM	TYPE: ☒ ASBESTOS ☐ LEAD	TURNAROUND: 1 DAY	DISPOSAL: NORMAL	QUANTITY: 04
COLLECTED BY (signature) Christopher Ottosen PRINTED NAME 20110972/TBI24-11-146 CERT# / AHERA# Fed Ex SHIPPING METHOD 7987 0914 7175 COURIER (signature) 4-30-14 12:30pm DATE/TIME				SPECIAL INSTRUCTIONS / COMMENTS: LAB: RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA, INC. See sample location drawing for more detailed explanation of exact locations. E-MAILED 5-1-14 5-2-14			
SELECTED LABORATORY MAY - 1 2014 SAMPLES ACCEPTED BY IATL - By [Signature] ANALYST'S SIGNATURE 5/1/14 DATE							

FIELD SURVEY DATA			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
UM0414-A01 5303232	Grey gasket for light fixture	From light fixture at bottom of stairs – Photo 29	None Detected
UM0414-A02 5303233	Brown mastic for cement board	From top of exterior 2 nd floor wall at damaged area adjacent to stairs – Photo 30	None Detected
UM0414-A03 5303234	Black sealant for missing trim piece	From top of exterior 2 nd floor wall at damaged area adjacent to stairs – Photo 31	None Detected
UM0414-A04 5303235	Grey cement board	From top of exterior 2 nd floor wall at damaged area adjacent to stairs – Photo 32	30% Chrysotile
--END--	--END--	--END--	

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



9000 Commerce Parkway, Ste B
Mount Laurel, NJ 08054
Toll Free 877-428-4285
Local: 856-231-9449
Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577-7701	Report Date: 5/1/2014 Report No: 332922 Project: ASD Ursa Major ES Project No.: 7297-01
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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5303232	Description / Location: Grey Foam Gasket			
Client No.: UM0414-A01	From Light Fixture At Bottom Of Stairs			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5303233	Description / Location: Lt.Brown Mastic; From Top Of Exterior			
Client No.: UM0414-A02	2nd FlrWallAtDamagedAreaAdj.ToStairs			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5303234	Description / Location: Grey Caulk; From Top Of Exterior			
Client No.: UM0414-A03	2nd FlrWallAtDamagedAreaAdj.ToStairs			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5303235	Description / Location: Grey Transite; From Top Of Exterior			
Client No.: UM0414-A04	2nd FlrWallAtDamagedAreaAdj.ToStairs			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
30	Chrysotile	None Detected	None Detected	70

Accreditation	NIST-NVLAP No. 101165-0	NY-DOH No. 11021	AIHA-LAP, LLC No. 100188
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This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government
This report shall not be reproduced except in full, without written approval of the laboratory.

Analytical Method:	US EPA 600/R-93/116 by Polarized Light Microscopy, (ELAP 198.1 where applicable)
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Comments: 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.

Analysis Performed By: L. Solebello

Approved By:

Date: 5/1/2014

Frank E. Ehrenfeld, III
Laboratory Director



EHS ALASKA
INCORPORATED

EHS-Alaska, Inc.

11901 Business Blvd., Suite 208, Eagle River, AK 99577-7701
(907) 694-1383 • (907) 694-1382 fax
e-mail • ehsak@ehs-alaska.com

CHAIN OF CUSTODY RECORD/FIELD SURVEY DATA			
FIELD COLLECTION DATE: 11-05-04		JOB #: 6141-01	MATERIAL TYPE ASBESTOS
PROJECT NAME: Ursa Major Window Replacement		TOTAL QUANTITIES: 25	
FACILITY: Ursa Major Elementary School		DISPOSAL: Normal	
TURNAROUND: 3-5 days			
SPECIAL INSTRUCTIONS:			
COLLECTED BY (signature) David DeMay PRINTED NAME T-9144-7551 CERT# AHERA# Federal Express SHIPPING METHOD 7921 3193 4380 COURIER (signature) 11-8-04 12:00pm DATE/TIME		IATL SELECTED LABORATORY SAMPLES ACCEPTED BY DATE/TIME ANALYST'S SIGNATURE DATE 11-16-04	
		COMMENTS: Analyze the following groups to the first positive: A2, A9, A11, A19, A20 A3, A8, A10, A18, A21 A4, A5 A6, A12, A14, A16 A7, A13, A15, A17 ND = None Detected 70% Asbestos	
SAMPLE ID	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS
UM1104-A1 2113743	Black water proofing below window sill on concrete	Room 220, below window sill 11:36 AM	10% Chrysotile
UM1104-A2 2113744	Brown mastic under type 1 ceiling tile	Room 220, adjacent to windows 12:00 PM	ND
UM1104-A3 2113745	12 x 12 smooth ceiling tile - fiberglass matrix - Type 1	Room 220, adjacent to windows 4:40 PM	ND
UM1104-A4 2113746	Grey window caulking	Room 200, around windows	1.6% Chrysotile
UM1104-A5 2113747	Grey window caulking	Room 220, around windows	Not analyzed Assumed same as A4
UM1104-A6 2113748	12 x 24 smooth ceiling tile - fiberglass matrix - Type 2	Room 224, SE corner on wall by window and molding - 4:51 PM	ND
UM1104-A7 2113749	Brown mastic under type 2 ceiling tile	Room 224, SE corner on wall by window and molding	ND
UM1104-A8 2113750	White type 1 ceiling tile	Room 224, adjacent to windows 4:51 PM	ND
UM1104-A9 2113751	Brown mastic under type 1 ceiling tile	Room 224, adjacent to windows	ND
UM1104-A10 2113752	White type 1 ceiling tile	Room 157, adjacent to windows 4:45 PM	ND

RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKAHS-9/95

CP01129104



EHS ALASKA
INCORPORATED

EHS-Alaska, Inc.

11901 Business Blvd., Suite 208, Eagle River, AK 99577-7701
(907) 694-1383 • (907) 694-1382 fax

FIELD SURVEY DATA (continued)			
PROJECT NAME: Ursa Major Window Replacement		FACILITY: Ursa Major Elementary School	
JOB NUMBER: 6141-01		DATE: November 5, 2005	COLLECTED BY: David DeMay
SAMPLE ID	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS
UM1104-A11 2113753	Brown mastic under type 1 ceiling tile	Room 157, adjacent to windows	ND
UM1104-A12 2113754	Type 2 ceiling tile	Room 157, SW wall by molding 4:46 PM	ND
UM1104-A13 2113755	Brown mastic under type 2 tile	Room 157, SW wall by molding	ND
UM1104-A14 2113756	Type 2 ceiling tile	Room 164, NE wall by window and molding - 4:48 PM	ND
UM1104-A15 2113757	Brown mastic under type 2 tile	Room 164, NE wall by window and molding	ND
UM1104-A16 2113758	Type 2 ceiling tile	Room 165, SE wall by molding 4:50 PM	ND
UM1104-A17 2113759	Brown mastic under type 2 tile	Room 165, SE wall by molding	ND
UM1104-A18 2113760	Type 1 ceiling tile	Room 165, adjacent to windows 4:50 PM	ND
UM1104-A19 2113761	Brown mastic under type 1 tile	Room 165, adjacent to windows	ND
UM1104-A20 2113762	Brown mastic under type 1 tile	Room 118, under old tile above drop ceiling	ND
UM1104-A21 2113763	Type 1 ceiling tile	Room 118, old tile above drop ceiling	ND
UM1104-A22 2113764	Brown mastic under ceramic tile	Room 170, East wall above drop ceiling	ND
UM1104-A23 2113765	Green texture scraped off painted concrete ceiling	Room 170, above drop ceiling	2.0% Chrysotile
UM1104-A24 2113766	Black marlite mastic	Room 207, behind door trim 4:34 PM	ND
UM1104-A25 2113767	Brown fibrous wall insulation	Room 220, in wall below windows	ND

IATL

International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Suite 208
Eagle River AK 99577
Report Date: 11/16/2004
Project: Ursa Major Elem; 11/5/04
Project No.: 6141-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 2113743
Client No.: UM1104-A1
Description / Location: Black Mastic
Rm 220, Below Window Sill, 11:36 AM

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90

Lab No.: 2113744
Client No.: UM1104-A2
Description / Location: Brown Mastic
Rm 220, Adjacent To Windows, 12:00 PM

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 2113745
Client No.: UM1104-A3
Description / Location: Brown/White Ceiling Tile; 12x12
Rm 220, Adjacent To Windows, 4:40 PM

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	95	Fibrous Glass	5

Lab No.: 2113746
Client No.: UM1104-A4
Description / Location: Grey Window Glazing
Rm 220, Around Windows

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.6	Chrysotile	None Detected	None Detected	PC 98.4

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Approved By:

Date: 11/16/2004

Page 1 of 7

Frank E. Ehrenfeld, III
Laboratory Director



International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Suite 208
Eagle River AK 99577

Report Date: 11/16/2004
Project: Ursa Major Elem; 11/5/04
Project No.: 6141-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 2113747 **Description / Location:** Sample Not Analyzed
Client No.: UM1104-A5

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 2113748 **Description / Location:** Tan/White Ceiling Tile, 12x24
Client No.: UM1104-A6 Rm 224, SE Corner On Wall, 4:51 PM

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Fibrous Glass	5

Lab No.: 2113749 **Description / Location:** Brown Mastic
Client No.: UM1104-A7 Rm 224, SE Corner On Wall

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 2113750 **Description / Location:** Tan/White Ceiling Tile
Client No.: UM1104-A8 Rm 224, Adjacent To Windows, 4:51 PM

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Fibrous Glass	5

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 11/16/2004

Page 2 of 7



16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Suite 208
Eagle River AK 99577

Report Date: 11/16/2004
Project: Ursa Major Elem; 11/5/04
Project No.: 6141-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 2113751	Description / Location: Brown Mastic			
Client No.: UM1104-A9	Rm 224, Adjacent To Windows			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 2113752	Description / Location: Tan/White Ceiling Tile			
Client No.: UM1104-A10	Rm 157, Adjacent To Windows 4:45 PM			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Fibrous Glass	5

Lab No.: 2113753	Description / Location: Brown Mastic			
Client No.: UM1104-A11	Rm 157, Adjacent To Windows			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 2113754	Description / Location: Tan/White Ceiling Tile			
Client No.: UM1104-A12	Rm 157, SW Wall By Molding 4:46 PM			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Fibrous Glass	5

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Performed By: B. Hargrove

Date: 11/16/2004

Page 3 of 7



16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client:	EHS Alaska Incorporated	Report Date:	11/16/2004
	11901 Business Blvd., Suite 208	Project:	Ursa Major Elem; 11/5/04
	Eagle River AK 99577	Project No.:	6141-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:	2113755	Description / Location:	Brown Mastic	
Client No.:	UM1104-A13		Rm 157, SW Wall By Molding	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.:	2113756	Description / Location:	Tan/White Ceiling Tile	
Client No.:	UM1104-A14		Rm 164, NE Wall By Window&Molding, 4:48PM	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Fibrous Glass	5

Lab No.:	2113757	Description / Location:	Brown Mastic	
Client No.:	UM1104-A15		Rm 164, NE Wall By Window & Molding	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.:	2113758	Description / Location:	Tan/White Ceiling Tile	
Client No.:	UM1104-A16		Rm 165, SE Wall By Molding, 4:50 PM	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Fibrous Glass	5

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Performed By: B. Hargrove

Date: 11/16/2004

Page 4 of 7



16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Suite 208
Eagle River AK 99577

Report Date: 11/16/2004
Project: Ursa Major Elem; 11/5/04
Project No.: 6141-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 2113759	Description / Location: Brown Mastic			
Client No.: UM1104-A17	Rm 165, SE Wall By Molding			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 2113760	Description / Location: Tan/White Ceiling Tile			
Client No.: UM1104-A18	Rm 165, Adjacent To Windows, 4:50 PM			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Fibrous Glass	5

Lab No.: 2113761	Description / Location: Brown Mastic			
Client No.: UM1104-A19	Rm 165, Adjacent To Windows			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 2113762	Description / Location: Brown Mastic			
Client No.: UM1104-A20	Rm 118, Under Old Tile Above Drop Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Performed By: B. Hargrove

Date: 11/16/2004

Page 5 of 7



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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Suite 208
Eagle River AK 99577

Report Date: 11/16/2004
Project: Ursa Major Elem; 11/5/04
Project No.: 6141-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 2113763 **Description / Location:** Tan/White Ceiling Tile
Client No.: UM1104-A21 Rm 118, Old Tile Above Drop Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Fibrous Glass	5

Lab No.: 2113764 **Description / Location:** Tan Mastic
Client No.: UM1104-A22 Rm 170, East Wall Above Drop Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 2113765 **Description / Location:** Green/Brown Ceiling Texture
Client No.: UM1104-A23 Rm 170, Above Drop Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.0	Chrysotile	None Detected	None Detected	98

Lab No.: 2113766 **Description / Location:** Brown Mastic
Client No.: UM1104-A24 Rm 207, Behind Door Trim, 4:34 PM

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Performed By: B. Hargrove

Date: 11/16/2004

Page 6 of 7



16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Suite 208
Eagle River AK 99577

Report Date: 11/16/2004
Project: Ursa Major Elem; 11/5/04
Project No.: 6141-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 2113767	Description / Location: Brown Insulation			
Client No.: UM1104-A25	Rm 220, In Wall Below Windows			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Cellulose	2

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Performed By: B. Hargrove

Date: 11/16/2004

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SURVEY FORM

CENTRAL ENVIRONMENTAL INC.

Project Number 03-12554
Project Name Ursa Major Window Replacement

700 E. 46th Ave.
Anchorage Alaska 99503
(907) 561-0125
(907) 561-0178

page 1 of 1

Sample Number	Sample Type	Homo Zone Number	Sample Description	Sample Location	Total Quantity
BIC-12554-01	TSI SM Misc	1	Window sealant	Back of school Bottom row center window	
BIC-12554-02	TSI SM Misc	1	Window sealant	Back of school 2nd row 4th window from left	
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				

Inspectors Signature Daniel Fujimoto

Date 10-19-03

WEC WHITE ENVIRONMENTAL CONSULTANTS INC.
731 I St., Suite 201, Anchorage, AK 99501- (907) 258-8661
FAX: (907) 258-8662

NVLAP
Lab #: 200124-0

Bulk Sample Analysis for Asbestos

WEC Project #: 03C-029
Client Project#: 12554

Report #: 17814
Report By: G.Slaughenhoup
Report Date: 6/20/2003

Client: Central Environmental Inc.
700 E. 46th Ave
Anchorage, AK 99503

Collection Date: 6/19/2003
Collection By: CLIENT
TAT: 24 Hour
Analysis By: G.Slaughenhoup
Analysis Date: 6/20/2003
Received By: Mahaffey
Received Date: 6/19/2003

Samples: 2 # Layers: 2

Project Name/Location: Ursa Major Window Replacement

Client ID#	WEC ID#	Location	Material	Layer
Bk-12554-01	AB03-3062	back of school, bottom row, center of window.	window sealant	1 of 1

ASBESTOS	
Chrysotile	2%

% Asbestos: 2%

% Other Fibrous Materials: <1%

% Non-Fibrous Materials: 98%

Homo-
genous
No
Color
gray

Other Fibrous Materials	
Cellulose	<1%

Client ID#	WEC ID#	Location	Material	Layer
Bk-12554-02	AB03-3063	back of school, 2nd row, 4th window from left.	window sealant	1 of 1

ASBESTOS	
Chrysotile	<1%

% Asbestos: <1%

% Other Fibrous Materials: <1%

% Non-Fibrous Materials: 99%

Homo-
genous
No
Color
gray

Other Fibrous Materials	
Cellulose	<1%

Analyst
QC

Date
Date

06-20-03
06/20/03

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

SURVEY FORM

CENTRAL ENVIRONMENTAL INC.

700 E. 46th Ave.
Anchorage Alaska 99503
(907) 561-0125
(907) 561-0178

Project Number 03-12554
Project Name Ursa Major Window Replacement

page 1 of 1

Sample Number	Sample Type	Homo Zone Number	Sample Description	Sample Location	Total Quantity
<u>BK-12554-03</u>	TSI SM <u>Misc</u>	<u>1</u>	<u>Window sealant</u>	<u>Center window top behind 1/4 round</u>	
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				
	TSI SM Misc				

Inspectors Signature David Fujimoto

Date 6/30/03

WEC WHITE ENVIRONMENTAL CONSULTANTS INC.
731 I St., Suite 201, Anchorage, AK 99501- (907) 258-8661
FAX: (907) 258-8662

NVLAP
Lab #: 200124-0

Bulk Sample Analysis for Asbestos

WEC Project #: 03C-029
Client Project#: 12554

Report #: 17860
Report By: E. Mahaffey
Report Date: 6/24/2003

Client: Central Environmental Inc.
700 E. 46th Ave
Anchorage, AK 99503

Collection Date: 6/20/2003
Collection By: CLIENT
TAT: 3 Business Days
Analysis By: B. Carroll
Analysis Date: 6/24/2003
Received By: Carroll
Received Date: 6/20/2003

Samples: 1 # Layers: 1

Project Name/Location: Ursa Major Window Replacement

Client ID# BK-12554-03	WEC ID# AB03-3070	Location Center window top behind 1/4 round.	Material Window Sealant	Layer 1 of 1
ASBESTOS		% Asbestos: 4%	Homo- genous	Color
Chrysotile	4%	% Other Fibrous Materials: 2%	No	Grey
Other Fibrous Materials		% Non-Fibrous Materials: 94%		
Cellulose	2%			

Analyst
QC

Date
Date

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EHS ALASKA
INCORPORATED

EHS-Alaska, Inc.

10928 Eagle River Road, Suite 202, Eagle River, AK 99577-8052
(907) 694-1383 • (907) 694-1382 fax
e-mail • ehsak@ehs-alaska.com

CHAIN OF CUSTODY RECORD/FIELD SURVEY DATA			
FIELD COLLECTION DATE: 3-2-04		JOB #: 5987-01	MATERIAL TYPE ASBESTOS
PROJECT NAME: ASD – Ursa Major ES Door Hardware Upgrade Asbestos Sampling		BULK ANALYSIS REQUESTED:	TOTAL QUANTITIES: 4
		☒ PLM ☐ PLM DUST ☐ TEM BULK ☐ LEAD TCLP ☐ LEAD PPM	
FACILITY: Ursa Major Elementary School		DISPOSAL: Normal	TURNAROUND: 24-hour
SPECIAL INSTRUCTIONS:			
COLLECTED BY (signature) Greg Lomax PRINTED NAME T-7959-1783 CERT# AHERA# Fed-Ex. 3/2/04 SHIPPING METHOD 191786729474 COURIER (signature) DATE/TIME		IATL SELECTED LABORATORY SAMPLES ACCEPTED BY DATE/TIME ANALYST'S SIGNATURE DATE 3/3/04 COMMENTS: MAC3/10/04 o/o Asbestos	
SAMPLE ID	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS
UM-A01 1915464	Brown Paper Insulation	Door 121 – Style 10 – Music Room	N.D.
UM-A02 1915465	Brown Paper Insulation	Door 124A – Style 9 – Music Room	N.D.
UM-A03 1915466	Yellow Fiberglass Insulation	Door 173 – Style 12 – Custodial Closet	N.D.
UM-A04 1915467	White Fibrous Insulation	Door 01 – Style 13 – Basement Storage Room	40% Chrys.

RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA HS-995

IATL

International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated

10928 Eagle River Rd. Ste 202

Eagle River AK

RECEIVED

MAR 19 2004

EHS-ALASKA, INC

Report Date: 3/13/2004

Project: ASD-UrsaMajorES;DoorUpgrade

Project No.: 5987-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 1915464

Client No.: UM-A01

Description / Location: Brown Insulation
Door 121; Style 10; Music Room

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

100

Cellulose

0

Lab No.: 1915465

Client No.: UM-A02

Description / Location: Brown Insulation
Door 124A; Style 9; Music Room

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

100

Cellulose

0

Lab No.: 1915466

Client No.: UM-A03

Description / Location: Yellow Insulation
Door 173; Style 12; Custodial Closet

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

100

Mineral Wool

0

Lab No.: 1915467

Client No.: UM-A04

Description / Location: Grey Insulation
Door 01; Style 13; Basement Storage Room

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

40

Chrysotile

45

Cellulose

15

NIST-NVLAP No. 1165

NY-DOH No. 11021

AIHA Lab No. 444

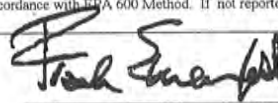
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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix. Quantification at <1% by volume is possible with this method. 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.

Analysis Performed By: T. Snyder

Approved By:



Frank E. Ehrenfeld, III
Laboratory Director

Date: 3/3/2004

Page 1 of 1

APR-04-03 10:54 AM JAMES HILL ARCHITECT 6965514 P. 05
APR-03-2003(THU) 11:18 white Environmental Consultants (F. 907 258 8662 P. 002/06

WEC WHITE ENVIRONMENTAL CONSULTANTS INC.

731 I St., Suite 201, Anchorage, AK 99501-

(907) 258-8661
FAX: (907) 258-8662

Lab #: 200124-0

Bulk Sample Analysis for Asbestos

WEC Project #: 03G-053
Client Project#:

Report #: 10272
Report By: E. Mahaffey
Report Date: 4/2/2003

Client: Jim Hill Architect
17140 Hanson St.
Eagle River, AK 99577

Collection Date: 4/1/2003
Collection By: B. O'Bray
TAT: 24 Hour
Analysis By: B. Carroll
Analysis Date: 4/2/2003
Received By: Carroll
Received Date: 4/2/2003

Samples: 1 # Layers: 1

Project Name/Location: Ursa Major Elementary

Client ID#	WEC ID#	Location	Material	Layer
053-001	AB03-1503	Window.	Apn. Weather Caulk	1 of 1
ASBESTOS		% Asbestos: 4%	Homo-	Color
Chrysotile		4%	geneu	Grey
Other Fibrous Materials		% Non-Fibrous Materials: 96%	No	
None Detected				

Analyst
QC

Date 4-2-03
Date 04-02-03

Analysis performed by EPA Method 800/R-93/116. All quantities reported are based on visual estimation by PLM, unless point-counting method is requested and noted for the sample. Test report relates only to items tested and must not be used by client to claim product endorsement by NVLAP or any agency of the U.S. Government. Test reports must not be reproduced without the approval of WEC Inc., and are subject to WEC Inc. General Terms and Conditions (see reverse).



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INCORPORATED

EHS-Alaska, Inc.
10928 Eagle River Road, Suite 202, Eagle River, AK 99577-8052
(907) 694-1383 phone • (907) 694-1382 fax
e-mail • ehsak@ehs-alaska.com

CHAIN OF CUSTODY RECORD/FIELD SURVEY DATA				Page <u>1</u> of <u>2</u>
FIELD COLLECTION DATE: <u>4-5-02</u>		JOB #: <u>5679-03</u>		BULK ANALYSIS REQUESTED: (circle) <u>PLM</u> / TEM BULK / LEAD TCLP / LEAD PPM
PROJECT NAME: <u>ASD Ursa Major Duct Ducts</u>		MATERIAL TYPE: (circle) <u>ASBESTOS</u>		TOTAL LEAD QUANTITIES: <u>12</u>
FACILITY: <u>URSA MAJOR E.S.</u>		DISPOSAL: <u>ROUTINE</u> <u>WED, 4-10-02</u> <u>TURNAROUND:</u>		
SPECIAL INSTRUCTIONS:				
COLLECTED BY (signature) <u>[Signature]</u> PRINTED NAME <u>T-7577-8</u> CERT# _____ AHERA# _____ SHIPPING METHOD <u>852987018738</u> COURIER (signature) _____ DATE/TIME _____		SELECTED LABORATORY <u>[Signature]</u> SAMPLES ACCEPTED BY <u>[Signature]</u> DATE/TIME <u>4/11/02</u> ANALYST SIGNATURE <u>[Signature]</u> DATE <u>4/11/02</u> COMMENTS: <u>W@4/22/02</u>		
SAMPLE ID	SAMPLE DESCRIPTION (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION / COMMENTS (INCLUDING PHOTO / XREF)	RESULTS	
<u>1481149</u> 1481149 MATERIAL CONDITION: GOOD FAIR POOR WATER: _____	<u>GRAY/PINK SLIC</u> <u>u/c</u> DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____	<u>CR 227</u>	<u>ND</u>	
<u>1481150</u> 1481150 MATERIAL CONDITION: GOOD FAIR POOR WATER: _____	<u>SOFP</u> DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____	<u>N. IMC, small room</u>	<u>ND</u>	
<u>1481151</u> 1481151 MATERIAL CONDITION: GOOD FAIR POOR WATER: _____	<u>BLW CEIL FIE MASTIC</u> DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____	<u>NW QUADRANT OF IMC OLD CEILING ABOVE LLT</u>	<u>ND</u>	
<u>1481152</u> 1481152 MATERIAL CONDITION: GOOD FAIR POOR WATER: _____	<u>SOFP</u> DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____	<u>NE. QUADRANT OF IMC</u>	<u>ND</u>	
<u>1481153</u> 1481153 MATERIAL CONDITION: GOOD FAIR POOR WATER: _____	<u>SOFP</u> DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____	<u>CENTER IMC ON E. SIDE</u>	<u>ND</u>	
<u>1481154</u> 1481154 MATERIAL CONDITION: GOOD FAIR POOR WATER: _____	<u>BLK CAS MASTIC</u> DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____	<u>AHU-3 FAN RM. N. E. CORNER</u>	<u>ND</u>	
<u>1481155</u> 1481155 MATERIAL CONDITION: GOOD FAIR POOR WATER: _____	<u>CLOCK HOUSING MASTIC</u> DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____	<u>E. KINDERGARDEN ROOM</u>	<u>ND</u>	
<u>1481156</u> 1481156 MATERIAL CONDITION: GOOD FAIR POOR WATER: _____	<u>Grey Duct Sealant</u> DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____	<u>Return Air Duct, Stage Fan Duct above ceiling</u>	<u>ND</u>	

RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA

EHS-10/00



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(907) 694-1383 phone • (907) 694-1382 fax
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FIELD SURVEY DATA (continued)				Page <u>2</u> of <u>2</u>
PROJECT NAME: <u>ASD Ursa Major Insty Ducts</u>		FACILITY: <u>URSA MAJOR ES</u>		
JOB NUMBER: <u>5679-03</u>		DATE: <u>4-5-02</u>	COLLECTED BY: <u>FS</u>	
SAMPLE ID	SAMPLE DESCRIPTION (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO / XREF)	RESULTS	
<u>UT4502-A09</u> <u>1481157</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>BLK SOUND LINING</u> <u>MASTIC</u> WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	<u>MFR AHU DISCHARGE</u> <u>PLENUM</u>	<u>ND</u>	
<u>UT4502-A10</u> <u>1481158</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>GRAY SEALANT</u> WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	<u>EF DUCT IN</u> <u>MFR AHU ROOM</u>	<u>ND</u>	
<u>UT4502-A11</u> <u>1481159</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>Gray Clock housing</u> <u>MASTIC</u> WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	<u>Gym Clock</u> <u>housing</u>	<u>ND</u> <u>2/19</u>	
<u>UT4502-A12</u> <u>1481160</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>Gray duct sealant</u> WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	<u>ACT RM AHU</u> <u>RETURN DUCT</u>	<u>ND</u> <u>2/19</u>	
<u>END</u>				
MATERIAL CONDITION: GOOD FAIR POOR	WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:			
MATERIAL CONDITION: GOOD FAIR POOR	WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:			
MATERIAL CONDITION: GOOD FAIR POOR	WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:			
MATERIAL CONDITION: GOOD FAIR POOR	WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:			
MATERIAL CONDITION: GOOD FAIR POOR	WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:			
MATERIAL CONDITION: GOOD FAIR POOR	WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:			
MATERIAL CONDITION: GOOD FAIR POOR	WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:			
MATERIAL CONDITION: GOOD FAIR POOR	WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:			
MATERIAL CONDITION: GOOD FAIR POOR	WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:			

IATL International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/11/2002
Project: URSA Major E.S., 4-5-02
Project No.: 5679-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.	1481149	Material Description:	Grey Fibrous	
Client No.:	UJ4502-A01	Location:	CR227	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

Lab No.	1481150	Material Description:	Tan Fibrous	
Client No.:	UJ4502-A02	Location:	N.IMC; Small Room	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	75
		5	Fibrous Glass	

Lab No.	1481151	Material Description:	Dk.Tan CT Mastic	
Client No.:	UJ4502-A03	Location:	N.W.Quadrant Of IMC Old Ceiling Above LCT	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Fibrous Glass	98

Lab No.	1481152	Material Description:	Tan Fibrous	
Client No.:	UJ4502-A04	Location:	N.E.Quadrant Of IMC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	80
		5	Fibrous Glass	

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NIST-NVLAP No. 1165

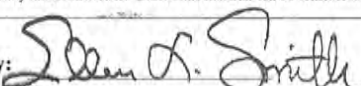
NY-DOH No. 11021

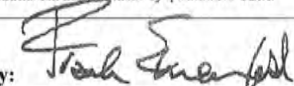
AIHA Lab No. 444

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: 
Date: APR 11 2002 Ellen L. Smith

Approved By: 

Frank E. Ehrenfeld, III
Laboratory Director



16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/23/2002
Project: URSA Major E.S., 4-5-02
Project No.: 5679-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.	1481153	Material Description:	Tan Fibrous	
Client No.:	UJ4502-A05	Location:	Center IMC On	E.Side
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	80
		5	Fibrous Glass	

Lab No.	1481154	Material Description:	Black Mastic	
Client No.:	UJ4502-A06	Location:	AHU-3 Fan Room	N.E. Corner
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

No Floor Tile

Lab No.	1481155	Material Description:	Black Mastic	
Client No.:	UJ4502-A07	Location:	E. Kindergarten Room	A/W Clock Housing
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

No Floor Tile

Lab No.	1481156	Material Description:	Grey Duct Sealant	
Client No.:	UJ4502-A08	Location:	Return Air Duct	Stage Fan Duct
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

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NIST-NVLAP No. 1165

NY-DOH No. 11021

AIHA Lab No. 444

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By:

Date: APR 11 2002
Ellen L. Smith

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/11/2002
Project: URSA Major E.S., 4-5-02
Project No.: 5679-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.	1481157	Material Description:	Black Mastic	
Client No.:	UJ4502-A09	Location:	MPR AHU Discharge	Plenum
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	7	Fibrous Glass	93

No Floor Tile

Lab No.	1481158	Material Description:	Grey Sealant	
Client No.:	UJ4502-A10	Location:	EF Duct In MPR	AHU Room
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

Lab No.	1481159	Material Description:	Black Mastic	
Client No.:	UJ4502-A11	Location:	Gym Clock Housing	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	98

No Floor Tile

Lab No.	1481160	Material Description:	Grey Sealant	
Client No.:	UJ4502-A12	Location:	Art Room AHU	Return Duct
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

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NIST-NVLAP No. 1165

NY-DOH No. 11021

AIHA Lab No. 444

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By:

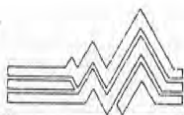
Date:

APR 11 2002

Ellen L. Smith

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director



EHS ALASKA
INCORPORATED

Engineering, Health Safety Consultants
10928 Eagle River Road, Suite 202, Eagle River, AK 99577-8052
(907) 694-1383 • (907) 694-1382 fax

PUSH

CHAIN OF CUSTODY RECORD/FIELD SURVEY DATA				Page 1 of 2
FIELD COLLECTION DATE: 4-10-01		JOB #: 5435-01		MATERIAL TYPE: (Circle) ASBESTOS LEAD
PROJECT NAME: ASD URSA MAJOR MECH. UPGRADE		BULK ANALYSIS REQUESTED: (circle) PLM / PLM DUST / TEM BULK / LEAD TCLP / LEAD PPM		
FACILITY: URSA MAJOR ELEM. SCHOOL		DISPOSAL: USUAL		TURNAROUND: SAME DAY
SPECIAL INSTRUCTIONS:				
COLLECTED BY: (signature) PRINTED NAME: ROBERT J. VAUGHN CERT# 19990096 / T-7577-12 SHIPPING METHOD: FedEx COURIER (signature) DATE/TIME: 4/11/01		SELECTED LABORATORY: IATL SAMPLES ACCEPTED BY: (signature) DATE/TIME: 4/12/2001 ANALYST'S SIGNATURE: (signature) DATE: 4/12/2001		
COMMENTS: 7/10/01/6/01				
SAMPLE ID	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS	
1. UJ41001-A01 1255667 MATL CONDITION: GOOD FAIR POOR	FT-1 12X12 TAN/WHITE STREAKS WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	ROOM 110 CENTER OF EAST WALL	ND	
2. UJ41001-A02 1255668 MATL CONDITION: GOOD FAIR POOR	TAN MASTIC ON MARLITE WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	ROOM 109 UNDER SINKS ON SOUTH WALL	ND	
3. UJ41001-A03 1255669 MATL CONDITION: GOOD FAIR POOR	SU-1 SAND STONE WITH RED SPECKS WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	ROOM 109 NORTH SIDE OF DOUBLE DOORS TO CAFETERIA	ND	
4. UJ41001-A04 1255670 MATL CONDITION: GOOD FAIR POOR	GREY SINK UNDER COAT WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	ROOM 109 SINK ON WEST WALL	ND	
5. UJ41001-A05 1255671 MATL CONDITION: GOOD FAIR POOR	LIGHT BROWN COVE BASE MASTIC WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	ROOM 106 WEST SIDE OF DOOR	ND	
6. UJ41001-A06 1255672 MATL CONDITION: GOOD FAIR POOR	SU-2 WITH MASTIC BEIGE W/ MIN. WHITE STREAKS WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	SAME AS A05	ND	
7. UJ41001-A07 1255673 MATL CONDITION: GOOD FAIR POOR	DARK BROWN COVE BASE MASTIC WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	SAME AS A05	ND	
8. UJ41001-A08 1255674 MATL CONDITION: GOOD FAIR POOR	BROWN GCT MASTIC WATER: DAMAGE POTENTIAL: (LO, MED, HI) AIR: VIBRATION: CONTACT:	ROOM 101 S.E. CORNER OF ROOM	ND	

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e-mail • ehsak@ehs-alaska.com

FIELD SURVEY DATA (continued)			Page <u>2</u> of <u>3</u>
PROJECT NAME: <u>ASD URSA MAJOR MECH. UPGRADES</u>		FACILITY: <u>URSA MAJOR ELEM. SCHOOL</u>	
JOB NUMBER: <u>5435-01</u>		DATE: <u>4-10-01</u>	COLLECTED BY: <u>Robert J. Vaughn</u>
SAMPLE ID	SAMPLE DESCRIPTION (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS
<u>UJ41001-A09</u> <u>1255675</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>GCT-1 12X12 FLAT WHITE</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>ROOM 101 S.E. CORNER OF ROOM</u>	<u>ND</u>
<u>UJ41001-A10</u> <u>1255676</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>LCT-1 2X4 W/5" SQUARES</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>SAME AS A09</u>	<u>ND</u>
<u>UJ41001-A11</u> <u>1255677</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>GCT-1</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>ROOM 114 1' INSIDE DOOR TO CORRIDOR</u>	<u>ND</u>
<u>UJ41001-A12</u> <u>1255678</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>BROWN GCT MASTIC</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>SAME AS A11</u>	<u>ND</u>
<u>UJ41001-A13</u> <u>1255679</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>LCT-2 2X4 W/RANDOM 3/4" FISS & DOTS</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>SAME AS A11</u>	<u>ND</u>
<u>UJ41001-A14</u> <u>1255680</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>GCT-2</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>ROOM 118 N.W. CORNER OF ROOM</u>	<u>ND</u>
<u>UJ41001-A15</u> <u>1255681</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>GCT - BROWN MASTIC</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>SAME AS A14</u>	<u>ND</u>
<u>UJ41001-A16</u> <u>1255682</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>GCT-3 12X12 W/ALIGNED 1/2" FISSERS & DOTS</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>ROOM 124 10' FROM SOUTH WALL CENTER OF ROOM</u>	<u>ND</u>
<u>UJ41001-A17</u> <u>1255683</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>TAR PAPER (BROWN)</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>SOUTH 1ST FLOOR REST ROOM PIPE CHASE SOUTH WALL WEST END</u>	<u>ND</u>
<u>UJ41001-A18</u> <u>1255684</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>PLASTER BASE</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>SAME AS A17</u>	<u>ND</u>
<u>UJ41001-A19</u> <u>1255685</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>BLACK TAR PAPER</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>SAME AS A17</u>	<u>ND</u>
<u>UJ41001-A20</u> <u>1255686</u> MATERIAL CONDITION: GOOD FAIR POOR	<u>LCT-2</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>BOY SOUTH REST ROOM 1ST FLOOR EAST END AT ANGLE CENTER OF ROOM</u>	<u>ND</u>



EHS-Alaska, Inc.
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FIELD SURVEY DATA (continued)			Page <u>3</u> of <u>3</u>
PROJECT NAME: <u>URSA MAJOR MECH. UPGRADES</u>		FACILITY: <u>URSA MAJOR ELEM. SCHOOL</u>	
JOB NUMBER: <u>5435-01</u>		DATE: <u>4-10-01</u>	COLLECTED BY: <u>Robert J. Uhl</u>
SAMPLE ID	SAMPLE DESCRIPTION (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS
<u>4J41001-A21</u> <u>1255687</u> MATL. CONDITION: GOOD FAIR POOR	<u>BLACK LORK MASTIC</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>ABOVE JANITOR CLOSET NORTH</u> <u>REST ROOMS ABOVE ATTIC</u> <u>ENTRANCE</u>	<u>ND</u>
<u>4J41001-A22</u> <u>1255688</u> MATL. CONDITION: GOOD FAIR POOR	<u>SV-3 CREAM + LIGHT GREY</u> <u>MOJAK W/GREEN + BROWN SPECKS</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>ROOM 114 SOUTH SIDE</u> <u>OF DOOR TO CORRIDOR</u>	<u>ND</u>
<u>4J41001-A23</u> <u>1255689</u> MATL. CONDITION: GOOD FAIR POOR	<u>BLACK FIBER BOARD MASTIC</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>SOUTH EAST UTILIDOR</u> <u>10' SOUTH OF BASEMENT</u> <u>ENTRANCE EAST WALL</u>	<u>ND</u>
<u>4J41001-A24</u> <u>1255690</u> MATL. CONDITION: GOOD FAIR POOR	<u>LCT-1</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>ROOM 104 5' NORTH</u> <u>OF OUTSIDE CORNER OF</u> <u>CLOSET</u>	<u>ND</u>
<u>4J41001-A25</u> <u>1255691</u> MATL. CONDITION: GOOD FAIR POOR	<u>LCT-1</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>ROOM 103 CENTER</u> <u>OF ROOM</u>	<u>ND</u>
<u>4J41001-A26</u> <u>1255692</u> MATL. CONDITION: GOOD FAIR POOR	<u>LCT-2</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>SOUTH WEST CORNER OF</u> <u>INTERSECTION OF CORRIDORS</u> <u>100 & 111</u>	<u>ND</u>
<u>4J41001-A27</u> <u>1255693</u> MATL. CONDITION: GOOD FAIR POOR	<u>GCT-1</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>ROOM 201 OVER SHELF</u> <u>AREA BY DOOR, CENTER</u> <u>OF SHELF AREA 2' FROM WALL</u>	<u>ND</u>
<u>4J41001-A28</u> <u>1255694</u> MATL. CONDITION: GOOD FAIR POOR	<u>GCT-2</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>ROOM 201 OVER SHELF</u> <u>AREA BY DOOR CENTER OF</u> <u>SHELF ON SOFIT WALL</u>	<u>ND</u>
<u>4J41001-A29</u> <u>1255685</u> MATL. CONDITION: GOOD FAIR POOR	<u>GCT-2</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>ROOM 124 S.W. CORNER</u> <u>OF ROOM</u>	<u>ND</u>
<u>4J41001-A30</u> <u>1255696</u> MATL. CONDITION: GOOD FAIR POOR	<u>GCT-3</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>SOUTH END OF WEST SET</u> <u>OF LIGHT FIXTURES</u>	<u>ND</u>
<u>4J41001-A31</u> <u>1255697</u> MATL. CONDITION: GOOD FAIR POOR	<u>GCT-3</u> DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>SOUTH END OF EST SET</u> <u>OF LIGHT FIXTURES</u>	<u>ND</u>
MATL. CONDITION: GOOD FAIR POOR	DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:		

IATL International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/12/2001
Project: ASD URSA Major Mech Upgrade
Project No.: 5435-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.	1255667	Material Description:	LtTan Floor Tile	
Client No.:	UJ41001-A01	Location:	FT-1;12x12;Rm110	Tan Mastic
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.	1255667	Material Description:	LtTan Floor Tile	
Client No.:	UJ41001-A01	Location:	FT-1;12x12;Rm110	Tan Mastic
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

Lab No.	1255668	Material Description:	Tan Mastic	
Client No.:	UJ41001-A02	Location:	On Marlite; Rm 109	Under Sinks; S Wall
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.	1255669	Material Description:	White Non Fibrous	
Client No.:	UJ41001-A03	Location:	SV-1;Sand Stone	Rm109 N Side DblDrs
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Fibrous Glass	98

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NIST-NVLAP No. 1165

NY-DOH No. 11021

AIHA Lab No. 444

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EHS - ALASKA, INC.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By:

Graciela Manjarres N.

Approved By:

Frank E. Ehrenfeld, III

Date: APR 12 2001

Graciela Manjarres N., AIHA-AAR 4029

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos
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CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/12/2001
Project: ASD URSA Major Mech Upgrade
Project No.: 5435-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.	1255667	Material Description:	LiTan Floor Tile	
Client No.:	UJ41001-A01	Location:	FT-1;12x12;Rm110	Tan Mastic
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.	1255667	Material Description:	LiTan Floor Tile	
Client No.:	UJ41001-A01	Location:	FT-1;12x12;Rm110	Tan Mastic
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100
	Tan Mastic			
	From Above			

Lab No.	1255668	Material Description:	Tan Mastic	
Client No.:	UJ41001-A02	Location:	On Marlite; Rm 109	Under Sinks; S Wall
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.	1255669	Material Description:	White Non Fibrous	
Client No.:	UJ41001-A03	Location:	SV-1;Sand Stone	Rm109 N Side DbIDrs
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Fibrous Glass	98

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NY-DOH No. 11021

AIHA Lab No. 444

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By:

Date: APR 12 2001

Graciela Manjarres N., AIHA-AAR 4029

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos
Testing Laboratories

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
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Report Date: 04/12/2001
Project: ASD URSA Major Mech Upgrade
Project No.: 5435-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.	1255670	Material Description:	Grey Fibrous	
Client No.:	UJ41001-A04	Location:	Sink Under Coat	Rm109; Sink On W Wall
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

Lab No.	1255671	Material Description:	Tan Mastic	
Client No.:	UJ41001-A05	Location:	Cove Base; Rm 106	W Side Of Door
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.	1255672	Material Description:	Tan Rubber	
Client No.:	UJ41001-A06	Location:	SV-2; Rm106 W Side Dr	Tan Mastic
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.	1255672	Material Description:	Tan Rubber	
Client No.:	UJ41001-A06	Location:	SV-2; Rm106 W Side Dr	Tan Mastic
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100
	Tan Mastic			
	From Above			

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Analysis Performed By:

Date: APR 12 2001 Graciela Manjarres N., AIHA-AAR 4029

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
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Report Date: 04/12/2001
Project: ASD URSA Major Mech Upgrade
Project No.: 5435-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.	1255673	Material Description:	Tan Mastic		
Client No.:	UJ41001-A07	Location:	Cove Base;Rm 106	W Side Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

Lab No.	1255674	Material Description:	Brown Mastic		
Client No.:	UJ41001-A08	Location:	GCT Mastic;Rm101	SE Corner Of Rm	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

Lab No.	1255675	Material Description:	Orange Ceiling Tile		
Client No.:	UJ41001-A09	Location:	GCT-1;12x12;Rm101	SE Corner Of Rm	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	75	Fibrous Glass	25	

Lab No.	1255676	Material Description:	Tan Ceiling Tile		
Client No.:	UJ41001-A10	Location:	LCT-1;2x4 w/5"Square	Rm 101; SE Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	45	Cellulose	25	
		30	Fibrous Glass		

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NY-DOH No. 11021

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Analysis Method: EPA 600/R-93/116

EHS - ALASKA, INC.

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Analysis Performed By: *Graciela Manjarres N.*
Date: APR 12 2001 **Graciela Manjarres N., AIHA-AAR 4029**

Approved By:

Frank E. Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos
Testing Laboratories

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CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/12/2001
Project: ASD URSA Major Mech Upgrade
Project No.: 5435-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.	1255677	Material Description:	Orange Ceiling Tile		
Client No.:	UJ41001-A11	Location:	GCT-1; Rm 114	1' Inside Dr To Corr	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	78	Fibrous Glass	22	

Lab No.	1255678	Material Description:	Brown Mastie		
Client No.:	UJ41001-A12	Location:	GCT Mastie; Rm 114	1' Inside Dr To Corr	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

Lab No.	1255679	Material Description:	Tan Ceiling Tile		
Client No.:	UJ41001-A13	Location:	LCT-2; 2x4; w/Random	3/4" Fiss & Dots; Rm 114	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	45	Cellulose	25	
		30	Fibrous Glass		

Lab No.	1255680	Material Description:	Orange Ceiling Tile		
Client No.:	UJ41001-A14	Location:	GCT-2; Rm 118	NW Corner Of Rm	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	70	Fibrous Glass	30	

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NY-DOH No. 11021

AIHA Lab No. 444

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative THM.

Analysis Performed By: Graciela Manjarres N., AIHA-AAR 4029
Date: APR 12 2001

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos
Testing Laboratories

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/12/2001
Project: ASD URSA Major Mech Upgrade
Project No.: 5435-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.	1255681	Material Description:	Brown Mastic		
Client No.:	UJ41001-A15	Location:	GCT Mastic; Rm 118 NW Corner Of Rm		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

Lab No.	1255682	Material Description:	Tan Ceiling Tile		
Client No.:	UJ41001-A16	Location:	GCT-3; 12x12; Rm 124 10' From S Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	45	Fibrous Glass	25	
		30	Cellulose		

Lab No.	1255683	Material Description:	Brown Paper		
Client No.:	UJ41001-A17	Location:	Tar Paper; South 1F Restroom Pipe Chase		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	75	Cellulose	25	

Lab No.	1255684	Material Description:	Grey Plaster		
Client No.:	UJ41001-A18	Location:	Base; South 1F Restroom Pipe Chase		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

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NY-DOH No. 11021

AIHA-AAAR No. 444

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Analysis Method: EPA 600/R-93/116

EHS - ALASKA, INC.

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N., AIHA-AAAR 4029
Date: APR 22 2001

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos
Testing Laboratories

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CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/17/2001
Project: ASD URSA Major Mech Upgrade
Project No.: 5435-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.	1255685	Material Description:	Black Tarpaper	
Client No.:	UJ41001-A19	Location:	South 1F Restroom	Pipe Chase
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	60

Lab No.	1255686	Material Description:	Tan Ceiling Tile	
Client No.:	UJ41001-A20	Location:	LCT-2; Boy South Rest	Room; 1F E End
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	45	Cellulose	25
		30	Fibrous Glass	

Lab No.	1255687	Material Description:	Black Mastic	
Client No.:	UJ41001-A21	Location:	Cork Mastic; Above	Janitor Closet North
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.	1255688	Material Description:	Tan Linoleum	
Client No.:	UJ41001-A22	Location:	SV-3; Rm 114 S Side	Of Door To Corridor
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	75
No Mastic		10	Synthetic	

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NY-DOH No. 11021

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Analysis Performed By:

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Approved By:

Frank E. Ehrenfeld

Date: APR 12 2001 Graciela Manjarres N., AIHA-AAR 4029

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CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/12/2001
Project: ASD URSA Major Mech Upgrade
Project No.: 5435-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.	1255689	Material Description:	Brown/Black Mastic		
Client No.:	UJ41001-A23	Location:	Fibrous/Fiberboard	SE Utilidor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	40	Cellulose	60	

Lab No.	1255690	Material Description:	Tan Ceiling Tile		
Client No.:	UJ41001-A24	Location:	LCT-1;Rm104;5' N	Of OS Corner Of Clst	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	45	Cellulose	25	
		30	Fibrous Glass		

Lab No.	1255691	Material Description:	Tan Ceiling Tile		
Client No.:	UJ41001-A25	Location:	LCT-1;Rm103	Center Of Rm	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	40	Cellulose	30	
		30	Fibrous Glass		

Lab No.	1255692	Material Description:	Tan Ceiling Tile		
Client No.:	UJ41001-A26	Location:	LCT-2;SW Corner Of	Intersection Of Corr	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	40	Cellulose	30	
		30	Fibrous Glass		

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NIST-NVLAP No. 1165

NY-DOH No. 11021

AIHA Lab No. 444

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

EHS - ALASKA, INC.

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: *Graciela Manjarres N.*
APR 12 2001
Date: Graciela Manjarres N., AIHA-AAR 4029

Approved By:

Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/12/2001
Project: ASD URSA Major Mech Upgrade
Project No.: 5435-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.	1255693	Material Description:	Orange Ceiling Tile		
Client No.:	UJ41001-A27	Location:	GCT-1;Rm201;Over	Shelf Area By Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	75	Fibrous Glass	25	

Lab No.	1255694	Material Description:	Orange Ceiling Tile		
Client No.:	UJ41001-A28	Location:	GCT-2;Rm201;Over	Shelf Area By Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	80	Fibrous Glass	20	

Lab No.	1255695	Material Description:	Orange Ceiling Tile		
Client No.:	UJ41001-A29	Location:	GCT-2; Rm 124	SW Corner Of Rm	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	75	Fibrous Glass	25	

Lab No.	1255696	Material Description:	Tan Ceiling Tile		
Client No.:	UJ41001-A30	Location:	GCT-3;S End Of W Set	Of Light Fixtures	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	45	Fibrous Glass	25	
		30	Cellulose		

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APR 26 2001

NIST-NVLAP No. 1165

NY-DOH No. 11021

AIHA Lab No. 444

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

EHS - ALASKA, INC.

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative NEM.

Analysis Performed By: Graciela Manjarres N., AIHA-AAR 4029
Date: APR 12 2001

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/12/2001
Project: ASD URSA Major Mech Upgrade
Project No.: 5435-01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.	1255697	Material Description:	Tan Ceiling Tile		
Client No.:	UJ41001-A31	Location:	GCT-3;S End Of E Set Of Light Fixtures		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	30	Cellulose	25	
		45	Fibrous Glass		

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APR 26 2001
EHS - ALASKA, INC.

NIST-NVLAP No. 1165

NY-DOH No. 11021

AIHA Lab No. 444

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: *Graciela Manjarres N.*

Approved By: *Frank E. Ehrenfeld, III*

Date:

APR 18 2001

Graciela Manjarres N., AIHA-AAR 4029

Frank E. Ehrenfeld, III
Laboratory Director



Solar Environmental Services, Inc.

1131 E. 76th Avenue, Suite 102
Anchorage, AK 99518
Home Page: www.alaska.net/~sesenvir/

Phone: (907) 349-7705
Fax: (907) 349-7944
E-mail: sesenvir@alaska.net

CERTIFICATE OF ANALYSIS

CLIENT: Environmental Health Sciences
ATTN: Tom Swearingen
10928 Eagle River Road, Ste. 202
Eagle River, Alaska 99577

CLIENT ORDER #: 191005
PROJECT NAME: ASD Ursa Major
PROJECT #: 5435-01
REPORT #: B2001-0074
REPORT DATE: April 19, 2001
COLLECTED BY: Client
DATE SAMPLED: April 12, 2001
DATE RECEIVED: April 13, 2001
DATE ANALYZED: April 19, 2001
ANALYZED BY: G. Torrijos

PAGE: 1 of 1

BULK ASBESTOS ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY (PLM) EPA METHOD 600-M4-82-020

LAB. #	CLIENT#	DESCRIPTION/ LOCATION/ COLOR	% ASBESTOS PRESENT	% OTHER FIBROUS MATERIALS	%NONFIBROUS MATERIALS
2001531BO0271	UJ41201-A32	Joint Compound (White)	None Detected	1-2% Fibrous Glass <1% Cellulose	98-99%
2001531BO0272	UJ41201-A33	Joint Compound (White/Lt. Pink)	None Detected	<1% Fibrous Glass <1% Cellulose	99-100%
2001531BO0272QC	UJ41201-A33QC	Quality Control	None Detected	<% Fibrous Glass <1% Cellulose	99-100%

End of Report

All quantitations are based on visual estimation unless point counting method, per NESHAP 40 CFR Part 61, is requested by client. Test report relates only to the items tested and must not be used by client to claim product endorsement by NVLAP or any Agency of the U.S. Government. Test report must not be reproduced except in full without the approval of SES and subject to SES general terms and conditions. Small asbestos fibers may be missed by PLM Method due to resolution limitations of the optical microscope. Therefore, None Detected and <1% PLM results cannot be guaranteed. Transmission Electron Microscopy (TEM) is recommended for confirmation.

REVIEWED AND APPROVED BY:

Gracita O. Torrijos, Chemist - I.H.

Date: _____

FORM# SES 1008 REVISED 6/17/98

NVLAP Accredited Laboratory
APR-19-2001 16:13

SES

AIHA - AAR - PAT Certified
98% P.01



EHS ALASKA
INCORPORATED

Engineering, Health & Safety Consultants
10928 Eagle River Road, Suite 202, Eagle River, AK 99577-8052
(907) 694-1383 • (907) 694-1382 fax

CHAIN OF CUSTODY RECORD/FIELD SURVEY DATA				Page <u>1</u> of <u>1</u>
FIELD COLLECTION DATE: <u>4-12-01</u>		JOB #: <u>5435-01</u>		MATERIAL TYPE: (circle) <u>ASBESTOS</u> LEAD
PROJECT NAME: <u>ASD - URSA MAJOR MECH. UPGRADE</u>		BULK ANALYSIS REQUESTED: (circle) <u>PLM</u> / PLM DUST / TEM BULK / LEAD TCLP / LEAD PPM		
FACILITY: <u>URSA MAJOR</u>		DISPOSAL: <u>USUAL</u>	TURNAROUND: <u>3 DAY</u>	
SPECIAL INSTRUCTIONS:				
COLLECTED BY (signature) <u>[Signature]</u> PRINTED NAME <u>ROBERT J VAUGHN</u> CERT# <u>19990096/T-2577-12</u> SHIPPING METHOD <u>Courier - Drop Box</u> COURIER (signature) <u>[Signature]</u> DATE/TIME <u>4/12/01 19:15</u>		SELECTED LABORATORY <u>SOLAR</u> SAMPLES ACCEPTED BY _____ DATE/TIME _____ ANALYST'S SIGNATURE _____ DATE _____		
COMMENTS:				
SAMPLE ID	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS	
1. <u>UJ41201-A32</u>	<u>WHITE JOINT COMPOUND</u>	<u>ROOM 111 B CENTER OF EAST WALL</u>		
MATL. CONDITION: GOOD FAIR POOR	WATER: _____ DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____			
2. <u>UJ41201-A33</u>	<u>WHITE JOINT COMPOUND</u>	<u>ROOM 118 B CENTER OF WEST WALL</u>		
MATL. CONDITION: GOOD FAIR POOR	WATER: _____ DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____			
3.				
MATL. CONDITION: GOOD FAIR POOR	WATER: _____ DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____			
4.				
MATL. CONDITION: GOOD FAIR POOR	WATER: _____ DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____			
5.				
MATL. CONDITION: GOOD FAIR POOR	WATER: _____ DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____			
6.				
MATL. CONDITION: GOOD FAIR POOR	WATER: _____ DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____			
7.				
MATL. CONDITION: GOOD FAIR POOR	WATER: _____ DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____			
8.				
MATL. CONDITION: GOOD FAIR POOR	WATER: _____ DAMAGE POTENTIAL: (LO, MED, HI) AIR: _____ VIBRATION: _____ CONTACT: _____			

****RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA**** EHS-3/2000



ALASKA
INCORPORATED

ENVIRONMENTAL HEALTH SCIENCES - ALASKA, INC.
10920 Eagle River Road, Suite 202, Eagle River, AK 99577-8052
TEL # 907-694 1383 FAX # 907-694 1382

PAGE 1 OF 1

SEE ATTACHED

CHAIN OF CUSTODY RECORD / ~~SB~~ MONITORING FIELD DATA

JOB NUMBER: 3728 PROJECT NAME: 7 BASE SCHOOLS ANALYSIS REQUESTED: (CIRCLE) PLM ~~PCM~~ - TEM - OTHER

CLIENT: DHHS AHERA REINSPECTS SAMPLE QUANTITY: 30

WORK AREA LOCATION: ELMENDORF AFB ALASKA TURNAROUND REQUESTED: 72 HOURS RESULTS MON (BY Noon)

DISPOSAL REQUIREMENTS: -

SPECIAL INSTRUCTIONS: -

SAMPLE TYPE DESIGNATIONS:
A - WORK AREA SAMPLE
B - BACKGROUND SAMPLE
C or T - CLEARANCE SAMPLE
E - ENVIRONMENTAL SAMPLE
P - PERSONAL SAMPLE
X - BLANK CASSETTE

SAMPLE #	QTY	DESCRIPTION	TIME ON	FLOW RATE	TIME OFF	FLOW RATE	AVE. FLOW	VOLUME	PUMP #	RESULTS (F/CC)
# 6	4	JFK36-01 THRU 06								
# 4	2	UJ36-01 THRU 04								
# 6	4	UN37-01 " 06								
# 3	2	AR38-01 " 03								
# 1	2	MI38-01								
# 6	2	MS38-01 " 06								
# 4	2	038-01; 0R38-02 THRU 04								
8.										

I CERTIFY THAT THE LISTED SAMPLES WERE COLLECTED AT THE STATED FACILITY.

SIGNATURE: Tony Scatonebarber PRINTED NAME: TONY SCATONEBARBER

COLLECTION DATE: 3-6 → 3-8-95

CERT. #

AHERA # T-5270-13

FIRM: EHS-AK

ROTCETER # (CALIB.): -

CASSETTE LOT #

CASSETTE TYPE: 25mm or 37mm TEM or PCM

SHIPPING METHOD: FED EX

COURIER SIGNATURE:

PRINTED NAME:

FIRM:

DATE/TIME:

LABORATORY RECEIPT DATE/TIME:

SIGNATURE:

I CERTIFY THAT THE LISTED SAMPLES HAVE BEEN ANALYZED BY ME ACCORDING TO THE PROCEDURES SPECIFIED BY LAW.

ANALYST SIGNATURE: Kellie Zito

PRINTED NAME: Kellie Zito

FIRM: R S Lee

DATE/TIME:

RELINQUISHED BY:

SIGNATURE:

PRINTED NAME:

FIRM:

DATE/TIME:

RECEIVED BY:

SIGNATURE:

PRINTED NAME:

FIRM:

DATE/TIME:

COMMENTS:

EHS FORM 3/08/94

•• RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-AI ASK ••

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00

 EHS ALASKA ENVIRONMENTAL HEALTH SCIENCES - ALASKA, INC.				FIELD SURVEY DATA SHEET		SHEET <u>1</u> OF <u>1</u>	
FACILITY: <u>URSA MAJOR ELEMENTARY</u>					JOB NO. <u>3728-05</u>		
ADDRESS: _____							
SAMPLE NUMBER	FUNCTIONAL AREA: <u>1ST FLOOR JAN CLOSET & BATH NEND</u>				LOCATION: <u>HOLE IN JAN CLOSET WALL</u>		
	HOMOGENEOUS MATL: <u>GNB</u>				TYPE: <u>MISC</u>	FRIABLE: <u>✓</u>	
X REF:	CONDITION: <u>OK</u>				ACCESS: <u>EMP</u>	REF DWG:	
	POTENTIAL: <u>(C)</u> V A W				PHOTO:	RESULTS: <u>N/D</u>	
COMMENTS: <u>HOLE CUT IN WALL</u>							
SAMPLE NUMBER	FUNCTIONAL AREA: <u>BOYS BATHROOM N. END 1ST FL</u>				LOCATION: <u>ABOVE STAIRS PIPE CHASE WALL</u>		
	HOMOGENEOUS MATL: <u>GNB</u>				TYPE: <u>MISC</u>	FRIABLE:	
X REF:	CONDITION: <u>SOME DAMAGED</u>				ACCESS: <u>PUBLIC</u>	REF DWG:	
	POTENTIAL: <u>(C)</u> V A <u>(W)</u>				PHOTO:	RESULTS: <u>N/D</u>	
COMMENTS: <u>SOME WATER DAMAGE</u>							
SAMPLE NUMBER	FUNCTIONAL AREA: <u>CLASS ROOM SPACES</u>				LOCATION: <u>CLOSET IN CLASSROOM</u>		
	HOMOGENEOUS MATL: <u>BROWN W/FISSURE 9x9 VAT</u>				TYPE: <u>MISC</u>	FRIABLE: <u>N</u>	
X REF:	CONDITION: <u>GOOD</u>				ACCESS: <u>PUBLIC</u>	REF DWG:	
	POTENTIAL: C V A W				PHOTO:	RESULTS: <u>2% CHRY</u>	
COMMENTS:							
SAMPLE NUMBER	FUNCTIONAL AREA: <u>KINDERGARTEN BATHROOMS</u>				LOCATION: <u>FLOOR</u>		
	HOMOGENEOUS MATL: <u>SHEET VINYL TAN CHIP PATTERN</u>				TYPE: <u>MISC</u>	FRIABLE: <u>N</u>	
X REF:	CONDITION: <u>GOOD</u>				ACCESS: <u>PUBLIC</u>	REF DWG:	
	POTENTIAL: <u>(C)</u> V A <u>(W)</u>				PHOTO:	RESULTS: <u>5% CHRY BACK ONLY</u>	
COMMENTS:							
SAMPLE NUMBER	FUNCTIONAL AREA:				LOCATION:		
	HOMOGENEOUS MATL:				TYPE:	FRIABLE:	
X REF:	CONDITION:				ACCESS:	REF DWG:	
	POTENTIAL: C V A W				PHOTO:	RESULTS:	
COMMENTS:							
INSPECTOR: <u>TONY SLATONBARKER</u>					DATE: <u>3-6-95</u>		
SIGNATURE: <u>Tony Slaton Barker</u>					AHERA NO.: <u>T-5270-13</u>		

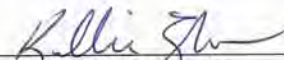
See Table 1-2 of AHERA QA Manual for key to coded entries.

EHS 992

Table I
Polarized Light Analysis Results
Project AOC503124

Asbestos														Nonasbestos				Run Date	Analyst
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material						
1526943CPL Brown cove mastic	JFK36-01	-	-	-	-	-	-	<1 Tr %	-	-	-	-	99+ %	3/9/95	KZ				
NFM: Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.														Homogeneous					
1526944CPL Brown cove mastic	JFK36-02	-	-	-	-	-	-	<1 Tr %	-	-	2 %	-	98 %	3/9/95	KZ				
NFM: Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.														Homogeneous					
1526945CPL White sheetrock	JFK36-03	-	-	-	-	-	-	3 %	-	<1 Tr %	-	-	97 %	3/9/95	KZ				
NFM: Qtz, Carb, Opaq, Gyp, Fine Grains, Misc. Part.														Homogeneous					
1526946CPL White sheetrock and joint compound	JFK36-04	<1 Tr %	-	-	-	-	-	8 %	-	1 %	-	-	91 %	3/9/95	KZ				
Layer Content:	Joint Compound: <1% Trace Chrysotile; Other Layer: <1 None Detected												Non Homogeneous						
1526947CPL White sheetrock and joint compound	JFK36-05	-	-	-	-	-	-	4 %	-	1 %	-	-	95 %	3/9/95	KZ				
NFM: Qtz, Carb, Opaq, Gyp, Mica, Fine Grains, Misc. Part.														Non Homogeneous					
1526948CPL Yellow and white wall texture	JFK36-06	-	-	-	-	-	-	<1 Tr %	-	-	-	-	99+ %	3/9/95	KZ				
NFM: Qtz, Carb, Binder, Opaq, Mica, Fine Grains, Misc. Part.														Homogeneous					
1526949CPL White sheetrock	UJ36-01	-	-	-	-	-	-	3 %	-	-	-	-	97 %	3/9/95	KZ				
NFM: Qtz, Carb, Opaq, Gyp, Fine Grains, Misc. Part.														Homogeneous					
1526950CPL White sheetrock	UJ36-02	-	-	-	-	-	-	-	-	3 %	-	-	97 %	3/9/95	KZ				
NFM: Qtz, Carb, Ver, Opaq, Gyp, Fine Grains, Misc. Part.														Homogeneous					

Authorized Signature
Date


Friday, March 10, 1995

RJ Lee Group, Inc.
Berkeley

2424 Sixth Street
Berkeley, CA 94710
Page: 1 of 5

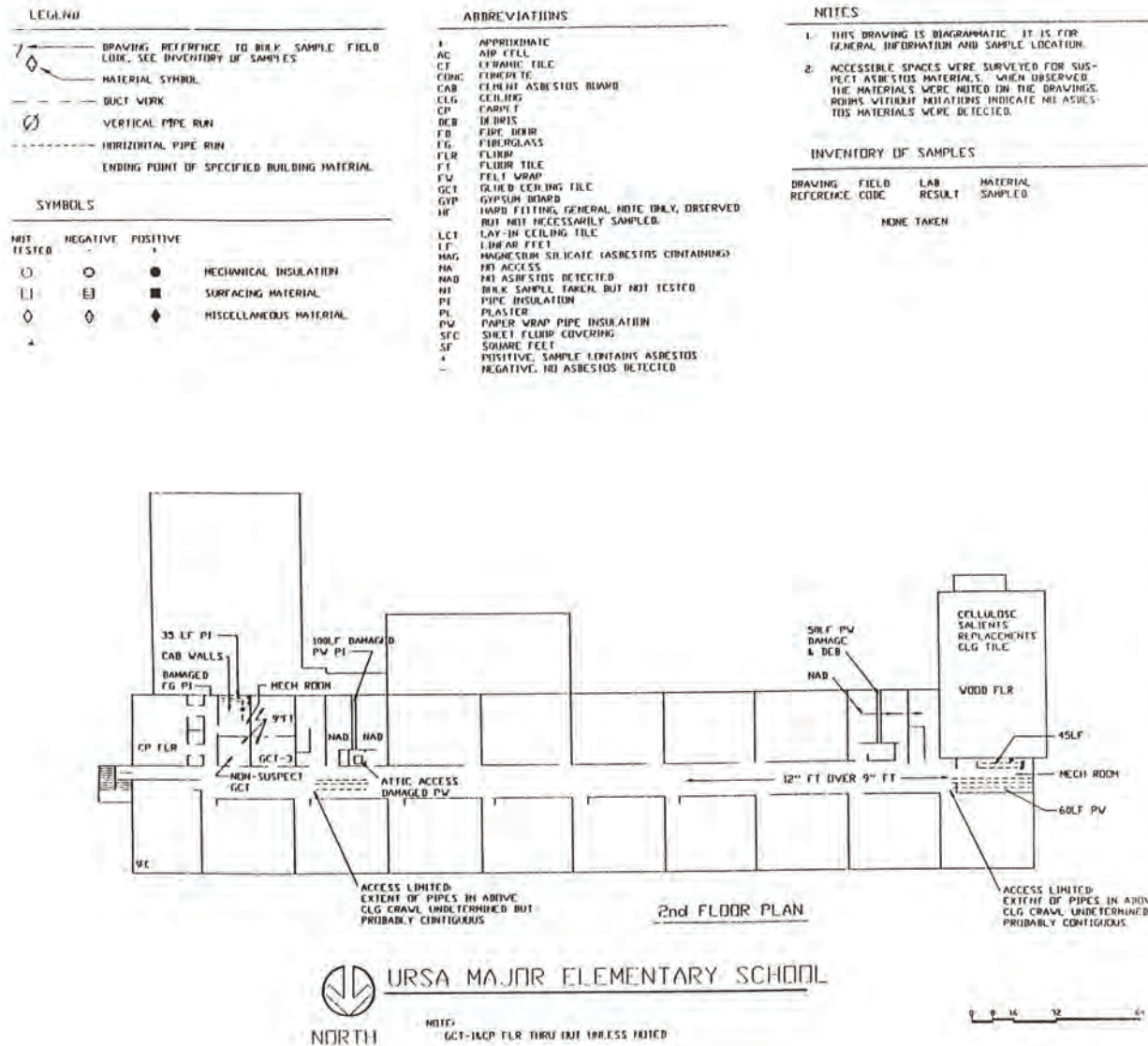
Phone (510) 486-8319
Fax (510) 486-0927

Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral	Fibrous	Synthetic	Other	NonFibrous	Run Date
									Wool	Glass	Fibers	Fibers	Material	Analyst
1526951CPL Green floor tile	UJ36-03	2 %	-	-	-	-	-	-	-	-	-	-	98 %	3/9/95
									NFM: Qtz, Carb, Binder, Opaq, F-Spar, Fine Grains, Misc. Part.				Homogeneous	KZ
1526952CPL Brown linoleum and fibrous backing	UJ36-04	5 %	-	-	-	-	-	-	-	-	-	-	95 %	3/9/95
									NFM: Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.				Homogeneous	KZ
Layer Content:	Backing: 8% Chrysotile; Other Layer: <1 None Detected												Non Homogeneous	
1526953CPL White sheetrock	UN37-01	-	-	-	-	-	-	10 %	-	-	-	-	90 %	3/9/95
									NFM: Qtz, Mag, Carb, Opaq, Gyp, Fine Grains, Misc. Part.				Homogeneous	KZ
1526954CPL Beige floor tile with brown adhesive	UN37-02	2 %	-	-	-	-	-	-	-	-	-	-	98 %	3/9/95
									NFM: Qtz, Carb, Binder, Opaq, F-Spar, Fine Grains, Misc. Part.				Homogeneous	KZ
Layer Content:	Tile: 2% Chrysotile; Other Layer: <1 None Detected												Non Homogeneous	
1526955CPL Brown cove mastic	UN37-03	-	-	-	-	-	-	-	-	-	-	-	100 %	3/9/95
									NFM: Qtz, Carb, Binder, Opaq, F-Spar, Fine Grains, Misc. Part.				Homogeneous	KZ
1526956CPL White wall plaster	UN37-04	-	-	-	-	-	-	-	-	-	-	-	100 %	3/9/95
									NFM: Qtz, Carb, Hbl, F-Spar, Opaq, Gyp, Fine Grains, Misc. Part.				Homogeneous	KZ
1526957CPL White sheetrock	UN37-05	-	-	-	-	-	-	50 %	-	<1 Tr %	-	-	50 %	3/9/95
									NFM: Qtz, Carb, Opaq, Gyp, Mica, Fine Grains, Misc. Part.				Homogeneous	KZ
1526958CPL Brown cove mastic	UN37-06	-	-	-	-	-	-	-	-	-	-	-	100 %	3/9/95
									NFM: Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.				Homogeneous	KZ

Kelli J. N.
Friday, March 10, 1995

Phone (510) 486-8319
Fax (510) 486-0927

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



2506.05
250605-2

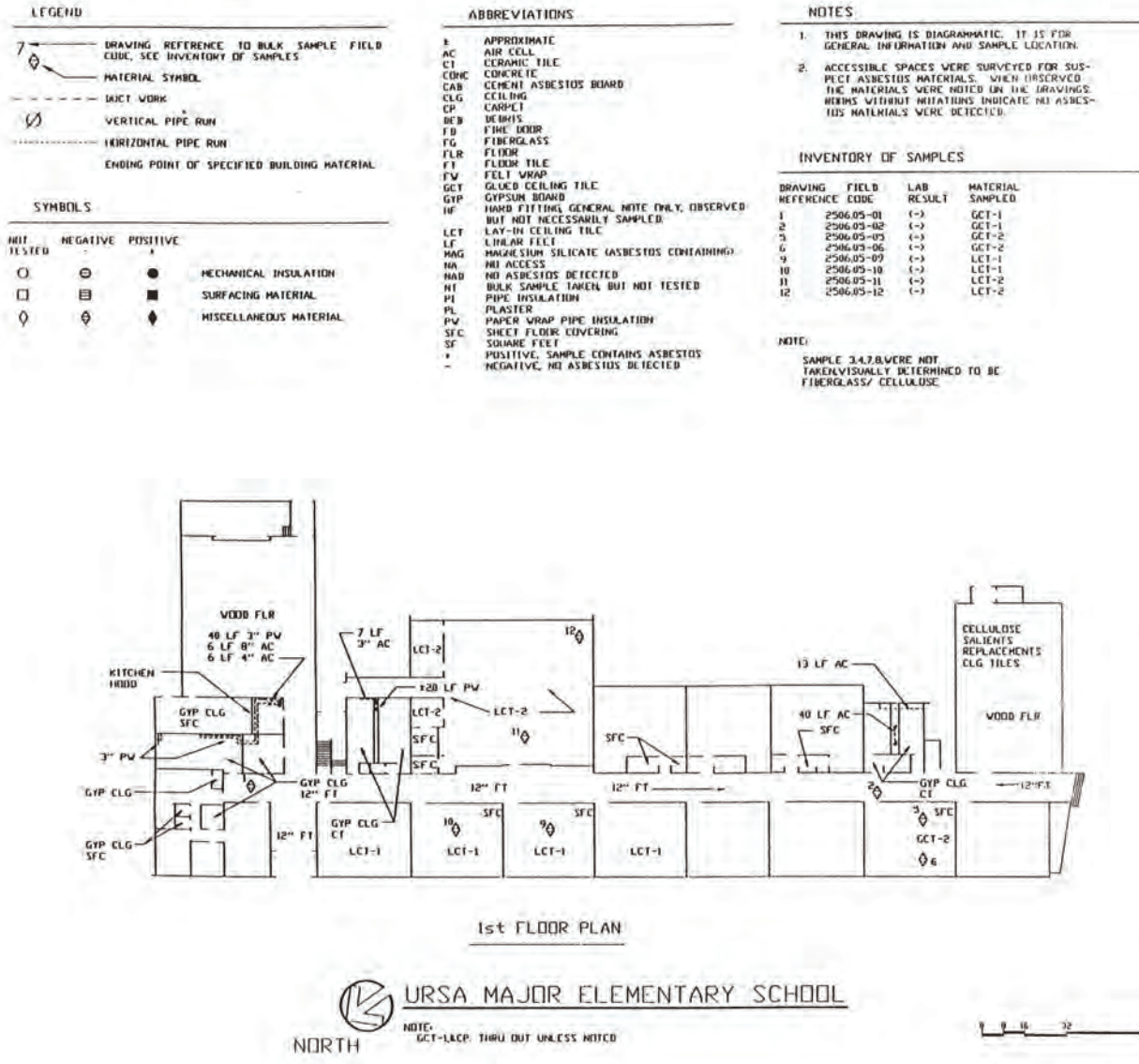
PBS
ENVIRONMENTAL
BUILDING
CONSULTANTS
INC.

1220 NW HARRISON
PORTLAND, OREGON
97205
503/248-1939

Asbestos Survey Plan Data
URSA MAJOR ELEMENTARY SCHOOL
ANCHORAGE SD

10-18-88
02 OF 03
2.2

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



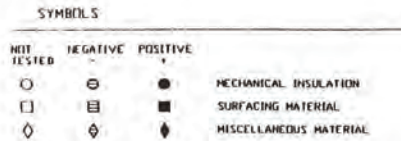
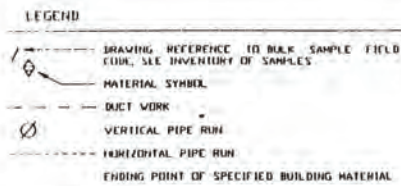
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PBS
ENVIRONMENTAL
BUILDING
CONSULTANTS
INC.

1220 SW HARRISON
PORTLAND, OREGON
97205
503/248-1939

Asbestos Survey Plan Data
URSA MAJOR ELEMENTARY
ANCHORAGE, SD

19OCT88
01 OF 03
2.1



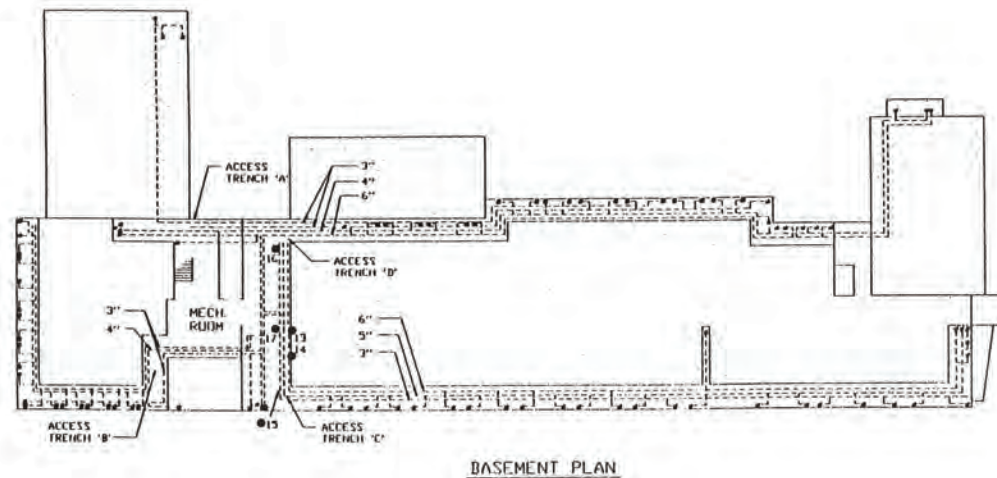
ABBREVIATIONS

A	APPROXIMATE
AC	AIR CELL
CT	CERAMIC TILE
CBIC	CERAMIC
CAB	CEMENT ASBESTOS BOARD
CLG	CEILING
CP	CARPET
DB	DOOR
FD	FIRE DOOR
FG	FIBERGLASS
FLR	FLOOR
FT	FLOOR TILE
FW	FELT WRAP
GCT	GLUED CEILING TILE
GYP	GYPSON BOARD
HF	HARD FITTING, GENERAL NOTE ONLY, OBSERVED BUT NOT NECESSARILY SAMPLED
LCT	LAY-IN CEILING TILE
LF	LINEAR FEET
MAG	MAGNESIUM SILICATE (ASBESTOS CONTAINING)
NA	NO ACCESS
NAB	NO ASBESTOS DETECTED
NI	BULK SAMPLE TAKEN, BUT NOT TESTED
PI	PIPE INSULATION
PL	PLASTER
PW	PAPER WRAP PIPE INSULATION
STC	SHEET FLOOR COVERING
ST	SQUARE FEET
+	POSITIVE, SAMPLE CONTAINS ASBESTOS
-	NEGATIVE, NO ASBESTOS DETECTED

- NOTES**
- THIS DRAWING IS DIAGNOSTIC. IT IS FOR GENERAL INFORMATION AND SAMPLE LOCATION.
 - ACCESSIBLE SPACES WERE SURVEYED FOR SUSPECT ASBESTOS MATERIALS. WHEN OBSERVED, THE MATERIALS WERE NOTED ON THE DRAWINGS. ROOMS WITHOUT NOTATIONS INDICATE NO ASBESTOS MATERIALS WERE DETECTED.

INVENTORY OF SAMPLES

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
13	2506.05-13	+	MAG
14	2506.05-14	+	MAG
15	2506.05-15	+	MAG
16	2506.05-16	+	MAG
17	2506.05-17	+	MAG



□ INDICATES UNEXCAVATED AREA - NO ACCESS

URSA MAJOR ELEMENTARY SCHOOL

NOTE: 1) AC & MAG PI THROUGHOUT, UNLESS NOTED

NORTH

0 10 20 40

2506.05
250605-1

PBS
ENVIRONMENTAL
BUILDING
CONSULTANTS
INC.

1220 SW MORRISON
PORTLAND, OREGON
97205
503/248-1939

Asbestos Survey Plan Data
URSA MAJOR ELEMENTARY SCHOOL
ANCHORAGE SD

10-18-88
03 OF 03
2.3

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



Environmental Health Sciences-Ala, Inc.
10928 Eagle River Road, Suite 202, Eagle River, AK 99577-8052
Tel # (907) 694-1383 Fax # (907) 694-1382

PAGE 1 OF 1

CHAIN OF CUSTODY RECORD / ASBESTOS SURVEY DATA SHEET

JOB NUMBER: <u>3603</u>			BULK ANALYSIS REQUESTED: <u>(PLM)</u> TEM			
PROJECT NAME: <u>URSA MAJOR ADDITION</u>			SAMPLE QUANTITY: <u>4</u>			
CLIENT: <u>KROCHINA ARCH.</u>			TURNAROUND REQUESTED: <u>24 HOUR</u>			
PROJECT LOCATION: <u>FT RICHARDSON, ANCH</u>			SPECIAL INSTRUCTIONS: <u>NEED RESULTS TUES MORN</u>			
SAMPLE ID.	MATERIAL DESCRIPTION	LOCATION OF MATERIAL (PHOTO/XREF.)	MATERIAL CONDITION	MATERIAL CATEGORY	FRIABLE	ASBESTOS CONTENT
UJA-01	BROWN COVE MASTIC OLD	SAMPLE IN WEST ENTRY FIRST FLOOR (TYP)	OK	T S (M) O	F (NF)	Y (N) ND
UJA-02	YELLOW/WHITE WINDOW CAULKING	INTERIOR CAULKING IN CLASSROOMS ETC (GLAZING)	POOR BROKEN HARD BRITTLE	T S (M) O	F (NF)	Y (N) ND
UJA-03	WHITE PLASTER	LATHE & PLASTER WALL IN PIPE CHASE BETWEEN BATHROOMS	GOOD	T S (M) O	F (NF)	Y (N) ND
UJA-04	FIBERBOARD & BLACK MASTIC	INSIDE WALLS OF UTILIDOR (EXTERIOR OF BLDG)	POOR WATER DAMAGED	T S (M) O	F (NF)	Y (N) ND
				T S M O	F NF	Y N
				T S M O	F NF	Y N
		NEED RESULTS LATE TUESDAY MORN.		T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N

FROM MONDAY MOR

Asbestos Content: Y = yes, N = no

Material Category: T = thermal system insulation, S = surfacing material, M = miscellaneous, O = other; Friability: F = friable, NF = nonfriable

I certify that the listed samples were collected at the stated facility.		Relinquished By	
SIGNATURE: <u>Tony Slaton Barker</u>		SIGNATURE:	
PRINTED NAME: <u>TONY SLATON BARKER</u>		PRINTED NAME:	
COLLECTION DATE: <u>5-13-94</u>		FIRM:	
CERT. #:	AHERA #: <u>1-5270-13</u>	DATE/TIME:	
SHIPPING METHOD: <u>HAND DELIVER</u>		Received By	
SELECTED LAB: <u>SOLAR</u>		SIGNATURE:	
COURIER SIGNATURE: <u>Tony Slaton Barker</u>		PRINTED NAME:	
PRINTED NAME: <u>TONY SLATON BARKER</u>		FIRM:	
FIRM: <u>EHS - AK</u>		DATE/TIME:	
DATE/TIME: <u>5-13-94 7:30 PM</u>		I CERTIFY THAT THE LISTED SAMPLES HAVE BEEN ANALYZED BY ME	
LABORATORY RECEIPT DATE/TIME: <u>5/16/94 @ 8:00 A</u>		ACCORDING TO THE PROCEDURES SPECIFIED BY LAW. <u>EPA 1600/R-95/116</u>	
SIGNATURE: <u>[Signature]</u>		ANALYST SIGNATURE: <u>Tony O. Barker</u>	
		PRINTED NAME: <u>TONY O. BARKER</u>	
		FIRM: <u>EHS</u>	
		DATE/TIME: <u>5/16/94 1:45 PM</u>	

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT

Division 2

Section 02 26 00

BULK SAMPLE ANALYSIS REPORT FOR ASBESTOS - LAB FORM - ANALYST COPY
POLARIZED LIGHT MICROSCOPY - PLM

24 HZ PUS4

CLIENT: EHS RELINQUISHED BY: _____ CLIENT ORDER NUMBER: _____ METHOD: PLM WITH DISPERSION
RECEIVED BY: _____ PROJECT NUMBER: 3603 STAINING/OTHER
DATE: _____ REPORT NUMBER: _____ (SPECIFY)
CONDITION: _____ REPORT DATE: _____
PROJECT: URSA MAJOR ACCEPTABLE _____ COLLECTED BY: T. SLATON-BANDER
NOT ACCEPTABLE _____ DATE SAMPLED: 5/13/94 PAGE: 1 of 2

SES LABORATORY NUMBER:		9452180 825	9453180 826	9453180 827
CLIENT ID #		UJA-01	UJA-02	UJA-03
SAMPLE LOCATION		1ST FLOOR	INTERIOR	WALL IN PIPE CHASE
ADDITIONAL INFORMATION		WEST ENTRY	CLASS ROOM	BETWEEN BATHS
		COVERASE	WINDOW	
MATERIAL DESCRIPTION:		MASTIC	CAULKING	PLASTER
GROSS SAMPLE	TEXTURE?	COARSE	COARSE	ROUGH
APPEARANCE:	SAMPLE HOMOGENOUS?	YES	YES	YES
	OBVIOUS LAYERS?	NO	NO	NO
	COLOR?	BROWN	BEIGE-GREY	LT. GRAY
	IS SAMPLE FIBROUS?	YES	YES	YES
	SAMPLE CONTAIN ASBESTOS?	N/D	N/D	N/D
TYPE AND PERCENTAGE	1. CHRYSOTILE			
OF ASBESTOS PRESENT:	2. AMOSITE			
	3. OTHER (SPECIFY)			
TOTAL PERCENT ASBESTOS PRESENT IN SAMPLE:		N/D	N/D	N/D
OTHER FIBROUS	1. FIBROUS GLASS	5-10%	4-8%	1-5%
MATERIAL PRESENT:	2. CELLULOSE	2-4%	1-5%	10-15%
(TYPE & PERCENTAGE)	3. OTHER (SPECIFY)			
PERCENTAGE OF NONFIBROUS MATERIAL PRESENT:		86-93%	89-95%	82-89%
REMARKS:				
MORPHOLOGY				
EXTINCTION				
PLEOCHROISM				
REFRACTIVE INDEX - PARALLEL & PERPENDICULAR				
BIREFRINGENCE				
SIGN OF ELONGATION				

ANALYST: Fony Odegnue DATE: 5/16/94
Form SES #1009

APPROVED BY: _____

Gracita O. Torrijos, Chemist - I.H.

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 - Page 155 of 332

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00

SES SOLAR ENVIRONMENTAL SERVICES 1131 E. 76th Avenue Ste 102, Anchorage, Alaska 99518
BULK SAMPLE A. SIS REPORT FOR ASBESTOS - LAB FORM - ANALYSIS JPY
POLARIZED LIGHT MICROSCOPY - PLM *ref HR push*

CLIENT: EHS RELINQUISHED BY: _____ CLIENT ORDER NUMBER: _____ METHOD: PLM WITH DISPERSION
RECEIVED BY: _____ PROJECT NUMBER: 5603 STAINING/OTHER
DATE: _____ REPORT NUMBER: _____ (SPECIFY)
CONDITION: _____ REPORT DATE: _____
PROJECT: CARSA WA 0012 ACCEPTABLE _____ COLLECTED BY: T SCATON BAKOL
NOT ACCEPTABLE _____ DATE SAMPLED: 5/13/94 PAGE: 2 of 2

SES LABORATORY NUMBER: 9452180 828 9453180 9453180

CLIENT ID # USA-04
SAMPLE LOCATION UTIL DOR, INSIDE **END**
ADDITIONAL INFORMATION WALL

MATERIAL DESCRIPTION: FIBER (2-1)

GROSS SAMPLE TEXTURE? COARSE
APPEARANCE: _____

SAMPLE HOMOGENEOUS? NO
OBVIOUS LAYERS? YES
COLOR? Brown / Black
IS SAMPLE FIBROUS? YES
SAMPLE CONTAIN ASBESTOS? FIBERD. N/A MASTIC N/A

TYPE AND PERCENTAGE OF ASBESTOS PRESENT:
1. CHRYSOTILE N/A
2. ANOSITE N/A
3. OTHER (SPECIFY) N/A

TOTAL PERCENT ASBESTOS PRESENT IN SAMPLE: N/A N/A

OTHER FIBROUS MATERIAL PRESENT:
(TYPE & PERCENTAGE)
1. FIBROUS GLASS _____
2. CELLULOSE 90-95 1-5%
3. OTHER (SPECIFY) _____

PERCENTAGE OF NONFIBROUS MATERIAL PRESENT: STRONG 5-10% ASPHALT 97-99%

REMARKS: _____

MORPHOLOGY _____

EXTINCTION _____

PLEOCHROISM _____

REFRACTIVE INDEX - PARALLEL & PERPENDICULAR _____

BIREFRINGENCE _____

SIGN OF ELONGATION _____

ANALYST: Rony Odagawa DATE: 5/16/94 APPROVED BY: _____

SES SOLAR ENVIRONMENTAL SERVICES

1131 E. 76TH Ave., Ste. 102, Anchorage, Ak 99518
Phone (907) 349-7705/ Fax (907) 349-7944

NVLAP

Accredited Laboratory

BULK SAMPLE ANALYSIS REPORT FOR ASBESTOS
POLARIZED LIGHT MICROSCOPY - PLM

U.S. Dept. of Commerce-NIST

CLIENT: ENVIRONMENTAL HEALTH SCIENCES-AK
ATTN: TOM SWEARINGEN, PhD, PE
10928 EAGLE RIVER RD., STE. 202
EAGLE RIVER, ALASKA 99577

CLIENT ORDER NUMBER: 191005
PROJECT NUMBER : 3603
REPORT NUMBER : 735
REPORT DATE : MAY 20, 1994
COLLECTED BY : T. SLATONBARKER
DATE SAMPLED : MAY 13, 1994

METHOD: PLM WITH
DISPERSION
STAINING

PROJECT: Ursa Major

PAGE : 1 OF 2

SES LABORATORY NUMBER:		9453180	825	9453180	826	9453180	827
CLIENT ID #	UJA-01		UJA-02		UJA-03		
SAMPLE LOCATION	1ST FLOOR WEST ENTRY		INTERIOR CLASSROOM		WALL IN PIPE CHASE		
ADDITIONAL INFORMATION	COVEBASE		WINDOW		BETWEEN BATHROOMS		
MATERIAL DESCRIPTION:		MASTIC		CAULKING		PLASTER	
GROSS SAMPLE APPEARANCE:	TEXTURE?	COARSE	COARSE	ROUGH			
	SAMPLE HOMOGENOUS?	YES	YES	YES			
	OBVIOUS LAYERS?	NO	NO	NO			
	COLOR?	BROWN	BEIGE-LIKE	LT. GRAY			
	IS SAMPLE FIBROUS?	YES	YES	YES			
	SAMPLE CONTAIN ASBESTOS?	NONE DETECTED	NONE DETECTED	NONE DETECTED			
TYPE AND PERCENTAGE OF ASBESTOS PRESENT:	1. CHRYSOTILE	NONE DETECTED	NONE DETECTED	NONE DETECTED			
	2. AMOSITE	NONE DETECTED	NONE DETECTED	NONE DETECTED			
	3. OTHER (SPECIFY)	NONE DETECTED	NONE DETECTED	NONE DETECTED			
TOTAL PERCENT ASBESTOS PRESENT IN SAMPLE:		NONE DETECTED	NONE DETECTED	NONE DETECTED			
OTHER FIBROUS MATERIAL PRESENT:	1. FIBROUS GLASS	5-10%	4-8%	1-3%			
(TYPE & PERCENTAGE)	2. CELLULOSE	2-4%	1-3%	10-15%			
	3. OTHER (SPECIFY)	NONE DETECTED	NONE DETECTED	NONE DETECTED			
PERCENTAGE OF NONFIBROUS MATERIAL PRESENT:		86-93%	89-95%	82-89%			
REMARKS:							

All quantitations are based on visual estimation unless point counting method, per NESHAP 40 CFR Part 61, is requested by client. Test report relates only to the items tested and must not be used by client to claim product endorsement by NVLAP or any Agency of the U.S. Government. Test report must not be reproduced except in full without the approval of SES and subject to SES general terms and conditions.

REVIEWED AND APPROVED BY:

Gracita O. Torrijos
Gracita O. Torrijos, Chemist - I.H.

DATE: MAY 20, 1994

FORM# SES 1008

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 - Page 157 of 332

SES SOLAR ENVIRONMENTAL SERVICES

1131 E. 76TH Ave., Ste. 102, Anchorage, Ak 99518
Phone (907) 349-7705/ Fax (907) 349-7944

NVLAP

Accredited Laboratory

BULK SAMPLE ANALYSIS REPORT FOR ASBESTOS
POLARIZED LIGHT MICROSCOPY - PLM

U.S. Dept. of Commerce-NIST

CLIENT: ENVIRONMENTAL HEALTH SCIENCES-AK
ATTN: TOM SWEARINGEN, PhD, PE
10928 EAGLE RIVER RD., STE. 202
EAGLE RIVER, ALASKA 99577

CLIENT ORDER NUMBER: 191005
PROJECT NUMBER : 3603
REPORT NUMBER : 735
REPORT DATE : MAY 20, 1994
COLLECTED BY : T. SLATONBARKER
DATE SAMPLED : MAY 13, 1994

METHOD: PLM WITH
DISPERSION
STAINING

PROJECT: URSA MAJOR

PAGE : 2 OF 2

SES LABORATORY NUMBER:		9453180	828	END OF REPORT
CLIENT ID #	UJA-04			
SAMPLE LOCATION	UTILIDOR , INSIDE			
ADDITIONAL INFORMATION	WALL			
MATERIAL DESCRIPTION:		FIBERBOARD		
GROSS SAMPLE	TEXTURE?	COARSE		
APPEARANCE:	SAMPLE HOMOGENOUS?	NO		
	OBVIOUS LAYERS?	YES		
	COLOR?	BROWN/BLACK		
	IS SAMPLE FIBROUS?	YES		
	SAMPLE CONTAIN ASBESTOS?	FIBERBD.-ND	MASTIC-ND	
TYPE AND PERCENTAGE	1. CHRYSOTILE	ND	ND	
OF ASBESTOS PRESENT:	2. ANOSITE	ND	ND	
	3. OTHER (SPECIFY)	ND	ND	
TOTAL PERCENT ASBESTOS PRESENT IN SAMPLE:		ND	ND	
OTHER FIBROUS	1. FIBROUS GLASS	ND	ND	
MATERIAL PRESENT:	2. CELLULOSE	90-95%	1-3%	
(TYPE & PERCENTAGE)	3. OTHER (SPECIFY)	ND	ND	
PERCENTAGE OF NONFIBROUS MATERIAL PRESENT:		5-10%	97-99%	
REMARKS:				

All quantitations are based on visual estimation unless point counting method, per NESHAP 40 CFR Part 61, is requested by client. Test report relates only to the items tested and must not be used by client to claim product endorsement by NVLAP or any Agency of the U.S. Government. Test report must not be reproduced except in full without the approval of SES and subject to SES general terms and conditions.

REVIEWED AND APPROVED BY:

[Signature]
Priscilla O. Horrijes, Chemist - I.H.

DATE: MAY 20, 1994

FORM# SES 1008

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 - Page 158 of 332

Environmental Health Sciences-Alaska, Inc.
10928 Eagle River Road, Suite 202, Eagle River, AK 99577-8052
Tel # (907) 694-1383 Fax # (907) 694-1382

JOB NUMBER: 3603			BULK ANALYSIS REQUESTED: (PLM) TEM			
PROJECT NAME: UPSA MAJOR ADD			SAMPLE QUANTITY: (1)			
CLIENT: KROCHINA			TURNAROUND REQUESTED: 3 DAY			
PROJECT LOCATION: FT RICH			SPECIAL INSTRUCTIONS:			
SAMPLE I.D.	MATERIAL DESCRIPTION	LOCATION OF MATERIAL (PHOTO/XREF.)	MATERIAL CONDITION	MATERIAL CATEGORY	FRIABLE	ASBESTOS CONTENT
UM-X1	WHITE JOINT COMPOUND	INTERIOR CLASSROOM SEPERATION WALLS BILINGUAL	GOOD	T (S) M O	F (NF)	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N

Asbestos Content: Y = yes N = no

Asbestos Content: Y = yes, N = no

Material Category: T = thermal system insulation, S = surfacing material, M = miscellaneous, O= other, Friability: F = friable, NF = nonfriable

I Certify that the listed samples were collected at the stated facility. SIGNATURE: <i>[Signature]</i> PRINTED NAME: TONY SLATON BARKER		Relinquished By SIGNATURE: PRINTED NAME:
COLLECTION DATE: 11-9-94		FIRM:
CERT. #:	AHERA #: T-5270-13	DATE/TIME:
SHIPPING METHOD:		Received By SIGNATURE: PRINTED NAME:
SELECTED LAB: SOLAR		FIRM:
COURIER SIGNATURE: PRINTED NAME:		DATE/TIME:
FIRM:		I CERTIFY THAT THE LISTED SAMPLES HAVE BEEN ANALYZED BY ME ACCORDING TO THE PROCEDURES SPECIFIED BY LAW. EPA 600/8-93/116
DATE/TIME:		ANALYST SIGNATURE: <i>[Signature]</i>
LABORATORY RECEIPT DATE/TIME: SES		PRINTED NAME: TONY ODSIGT
SIGNATURE: <i>[Signature]</i> 11/09/94 @ 4:49 PM		FIRM: DATE/TIME: SES 11/10/94 1:00 PM



SOLAR ENVIRONMENTAL SERVICES, INC.

1131 E. 76TH Ave., Ste. 102, Anchorage, Ak 99518
Phone (907) 349-7705/ Fax (907) 349-7944

NVLAP

Accredited Laboratory

U.S. Dept. of Commerce-NIST

BULK SAMPLE ANALYSIS REPORT FOR ASBESTOS
POLARIZED LIGHT MICROSCOPY - PLM

CLIENT: ENVIRONMENTAL HEALTH SCIENCES-AK
ATTN: TOM SWEARINGEN
10928 EAGLE RIVER RD., STE. 202
EAGLE RIVER, AK 99577

CLIENT ORDER NUMBER: 191005
PROJECT NUMBER : 3603
REPORT NUMBER : 913
REPORT DATE : NOV. 22, 1994
COLLECTED BY : T. SLATONBARKER-CLIENT
DATE SAMPLED : NOV. 9, 1994

METHOD: EPA 600/R93116
PLM WITH
DISPERSION
STAINING

PROJECT: Ursa Major Add

PAGE : 1 OF 1

SES LABORATORY NUMBER:		9453180	1665	END OF REPORT
CLIENT ID #	CN-X1			
SAMPLE LOCATION	INTERIOR CLASSROOM			
ADDITIONAL INFORMATION				
MATERIAL DESCRIPTION:		JOINT COMPOUND		
GROSS SAMPLE	TEXTURE?	COARSE		
APPEARANCE:	SAMPLE HOMOGENOUS?	NO		
	OBVIOUS LAYERS?	YES		
	COLOR?	WHITE/WHITE		
	IS SAMPLE FIBROUS?	YES		
	SAMPLE CONTAIN ASBESTOS?	NONE DETECTED		
TYPE AND PERCENTAGE OF ASBESTOS PRESENT:	1. CHRYSOTILE	NONE DETECTED		
	2. AMOSITE	NONE DETECTED		
	3. OTHER (SPECIFY)	NONE DETECTED		
TOTAL PERCENT ASBESTOS PRESENT IN SAMPLE:		NONE DETECTED		
OTHER FIBROUS MATERIAL PRESENT: (TYPE & PERCENTAGE)	1. FIBROUS GLASS	10-15%		
	2. CELLULOSE	15-20%		
	3. OTHER (SPECIFY)	NONE DETECTED		
PERCENTAGE OF NONFIBROUS MATERIAL PRESENT:		65-75%		
REMARKS:				

All quantitations are based on visual estimation unless point counting method, per NESHAP 40 CFR Part 61, is requested by client. Test report relates only to the items tested and must not be used by client to claim product endorsement by NVLAP or any Agency of the U.S. Government. Test report must not be reproduced except in full without the approval of SES and subject to SES general terms and conditions. Small asbestos fibers may be missed by PLM Method due to resolution limitations of the optical microscope. Therefore, None Detected and <1% PLM results cannot be guaranteed. Electron Microscopy is recommended for confirmation.

REVIEWED AND APPROVED BY:

[Signature]
Resrita D. Tondino, Chemist - I.H.

DATE: NOV. 22, 1994

FORM# SES 1008

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 - Page 160 of 332

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT

Division 2

Section 02 26 00

SES BULK ENVIRONMENTAL SERVICES, INC.

1131 E. 76th Ave, Ste 102, Anchorage, Alaska 99518

BULK SAMPLE ANALYSIS REPORT FOR ASBESTOS - LAB FORM - ANALYST COPY
POLARIZED LIGHT MICROSCOPY PLN - PRELIMINARY RESULTS ONLY

Rust

CLIENT: ETS RELINQUISHED BY: _____ CLIENT ORDER NUMBER: _____
RECEIVED BY: _____ PROJECT NUMBER: 3603
DATE: _____ REPORT NUMBER: _____
CONDITION: _____ REPORT DATE: _____
PROJECT: URSA MAJOR ACCEPTABLE _____ COLLECTED BY: T. SCATON BAKER
APP NOT ACCEPTABLE _____ DATE SAMPLED: 11/9/94 PAGE: 1 of 1

EPA 600/R-93/116

METHOD: PLN WITH DISPERSION

STAINING/OTHER

(SPECIFY)

SES LABORATORY NUMBER:

9492180 165

9493180

9493180

CLIENT ID #

SAMPLE LOCATION

ADDITIONAL INFORMATION

CM-XI
INTERIOR
CEILING

END

MATERIAL DESCRIPTION:

JOINT COMPOUND

GROSS SAMPLE

APPEARANCE:

TEXTURE?

22 MPSC

SAMPLE HOMOGENEOUS?

NO

OBVIOUS LAYERS?

YES

COLOR?

WHITE / WHITE

IS SAMPLE FIBROUS?

YES

SAMPLE CONTAIN ASBESTOS?

N/D

TYPE AND PERCENTAGE

OF ASBESTOS PRESENT:

1. CHRYOTILE

2. ANOSITE

3. OTHER (SPECIFY)

N/D

TOTAL PERCENT ASBESTOS PRESENT IN SAMPLE:

N/D

OTHER FIBROUS

MATERIAL PRESENT:

(TYPE & PERCENTAGE)

1. FIBROUS GLASS

2. CELLULOSE

3. OTHER (SPECIFY)

10-15%

15-20%

PERCENTAGE OF NONFIBROUS MATERIAL PRESENT:

65-75%

REMARKS:

MORPHOLOGY

EXTINCTION

PLEOCHROISM

REFRACTIVE INDEX - PARALLEL & PERPENDICULAR

BIREFRINGENCE

BIAXIAL ELONGATION

ANALYST: Long Odom DATE: 11/10/94

APPROVED BY:

Form SES 81009

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 - Page 161 of 332



Environmental Health Sciences-Alaska, Inc.
10928 Eagle River Road, Suite 202, Eagle River, AK 99577-8052
Tel # (907) 694-1383 Fax # (907) 694-1382

PAGE 1 OF 1

CHAIN OF CUSTODY RECORD / ASBESTOS SURVEY DATA SHEET

JOB NUMBER: 3603-02			BULK ANALYSIS REQUESTED: (PLM) TEM			
PROJECT NAME: Ursa Major Addition			SAMPLE QUANTITY: 1			
CLIENT: KROCHINA / ASD			TURNAROUND REQUESTED: 3 DAYS			
PROJECT LOCATION: FT RICH ANCH AK			SPECIAL INSTRUCTIONS:			
SAMPLE I.D.	MATERIAL DESCRIPTION	LOCATION OF MATERIAL (PHOTO/XREF.)	MATERIAL CONDITION	MATERIAL CATEGORY	FRIABLE	ASBESTOS CONTENT
UME-01	GREY/TAN SPRAY-ON	FIRE PROOFING ABOVE DROP CEILING IN LIBRARY ADDITION	GOOD	(T) S M O	(F) NF	Y (N) N/D
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N

Asbestos Content: Y = yes, N = no

Material Category: T = thermal system insulation, S = surfacing material, M = miscellaneous, O = other, Friability: F = friable, NF = nonfriable

I Certify that the listed samples were collected at the stated facility.		Relinquished By	
SIGNATURE: <i>[Signature]</i>		SIGNATURE:	
PRINTED NAME: TONY SLATON BARKER		PRINTED NAME:	
COLLECTION DATE: 4-20-95		FIRM:	
CERT. #:	ASHERA #: T-5270-13	DATE/TIME:	
SHIPPING METHOD: COURIER		Received By	
SELECTED LAB: SOLAR		SIGNATURE:	
COURIER SIGNATURE:		PRINTED NAME:	
PRINTED NAME:		FIRM:	
FIRM:		DATE/TIME:	
DATE/TIME:		I CERTIFY THAT THE LISTED SAMPLES HAVE BEEN ANALYZED BY ME	
LABORATORY RECEIPT DATE/TIME:		ACCORDING TO THE PROCEDURES SPECIFIED BY LAW.	
SIGNATURE:		ANALYST SIGNATURE:	
		PRINTED NAME:	
		FIRM:	
		DATE/TIME:	



SOLAR ENVIRONMENTAL SERVICES, INC.

1131 E. 76TH Ave., Ste. 102, Anchorage, Ak 99518
Phone (907) 349-7705/ Fax (907) 349-7944

NVLAP

Accredited Laboratory

U.S. Dept. of Commerce-NIST

CERTIFICATE OF ANALYSIS

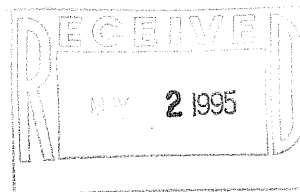
CLIENT: Environmental Health Sciences-Ak
ATTN: Tom Swearingen
10928 Eagle River Rd., Ste. 202
Eagle River, AK 99577

CLIENT ORDER#: 191005
PROJECT NAME: Ursa Major Additional
PROJECT NO: 3603-02
REPORT NO: 1042
REPORT DATE: April 28, 1995
COLLECTED BY: T. Slatonbarker-Client
DATE SAMPLED: April 20, 1995

PAGE: 1 of 1

BULK ASBESTOS ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY (PLM) EPA METHOD 600R93116

LAB.#	CLIENT#	DESCRIPTION/ LOCATION	%ASBESTOS PRESENT	%OTHER FIBROUS MATERIALS	%NONFIBROUS MATERIALS
95531BO0646	UME-01	Fire proofing; above drop ceiling in library	None Detected	5-10%Fibrous Glass 15-25%Cellulose	65-80%



All quantitations are based on visual estimation unless point counting method, per NESHAP 40 CFR Part 61, is requested by client. Test report relates only to the items tested and must not be used by client to claim product endorsement by NVLAP or any Agency of the U.S. Government. Test report must not be reproduced except in full without the approval of SES and subject to SES general terms and conditions. Small asbestos fibers may be missed by PLM Method due to resolution limitations of the optical microscope. Therefore, None Detected and <1% PLM results cannot be guaranteed. Transmission Electron Microscopy (TEM) is recommended for confirmation.

REVIEWED AND APPROVED BY:

Gracita O. Torrijos
Gracita O. Torrijos, Chemist-I.H.

Date: April 28, 1995

FORM# SES 1008 REVISED 1/10/95

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 – Page 163 of 332



SOLAR ENVIRONMENTAL SERVICES, INC.

1131 E. 76th Ave., Ste. 102, Anchorage, AK 99518 Tel: 907-349-7705 Fax: 907-349-7944

BULK SAMPLE ANALYSIS REPORT FOR ASBESTOS- LAB FORM- ANALYST COPY
POLARIZED LIGHT MICROSCOPY (PLM) EPA METHOD 600/93116

PRELIMINARY RESULTS ONLY

CLIENT: EHS

RELINQUISHED BY: CLB JT
RECEIVED BY: MD
DATE: 4/21/95
CONDITION: ✓
ACCEPTABLE:
NOT ACCEPTABLE:

CLIENT ORDER#: 3603-02
PROJECT NO.:
REPORT NO.:
REPORT DATE:
COLLECTED BY: T. Segmonian - EHS
DATE SAMPLED: 4/21/95 PAGE 1 OF 2

PROJECT: URSA MAJOR ADDITION

SES LAB NO.	95531BO 646	95531BO	95531BO	95531BO	95531BO	95531BO	95531BO
CLIENT ID NO:	44E-01						
LOCATION:							
ADDITIONAL INFORMATION:							
MATERIAL DESCRIPTION:	Fine Profiler						
GROSS SAMPLE APPEARANCE:							
TEXTURE?	coarse						
SAMPLE HOMOGENOUS?	yes						
OBVIOUS LAYERS?	NO						
COLOR?	lt. gray						
IS SAMPLE FIBROUS?	yes						
SAMPLE CONTAIN ASBESTOS?	4/0						
TYPE & % OF ASBESTOS PRESENT:							
CHRYSOPILE	✓ 4/0						
AMOSITE							
OTHER(SPECIFY)							
TOTAL % ASBESTOS PRESENT:	4/0						
OTHER FIBROUS MATERIAL PRESENT: (TYPE & %)							
FIBROUS GLASS	5-10%						
CELLULOSE	15-25%						
OTHER(SPECIFY)							
% OF NON-FIBROUS MATERIAL:	65-80% CRCO						
REMARKS:	not sample						
MORPHOLOGY	fractured						
EXTINCTION							
PLEOCHROISM							
REFRACTIVE INDEX - PARALLEL & PERPENDICULAR							
BIREFRINGENCE							
SIGN OF ELONGATION							

ANALYST: GT

DATE: 4/26/95

APPROVED BY: CHACITA G. TORRES, CHEMIST-4R

This report relates only to the items tested and must not be reproduced except in full without the approval of SES and subject to SES general terms and conditions. Small asbestos fibers may be missed by PLM Method due to the resolution limitations of the optical microscope. Therefore, None Detected and <1% PLM results cannot be guaranteed. Transmission Electron Microscopy (TEM) is recommended for confirmation.



Environmental Health Sciences-Alaska, Inc.
10928 Eagle River Road, Suite 202, Eagle River, AK 99577-8052
Tel # (907) 694-1383 Fax # (907) 694-1382

PAGE 1 OF 1

CHAIN OF CUSTODY RECORD / ASBESTOS SURVEY DATA SHEET

JOB NUMBER: 3603-01-03			BULK ANALYSIS REQUESTED: (PLM) TEM			
PROJECT NAME: Ursa Major Elem.			SAMPLE QUANTITY: 2			
CLIENT:			TURNAROUND REQUESTED: (RUSH)			
PROJECT LOCATION: Gym Storage Room			SPECIAL INSTRUCTIONS: FAX ASAP Tony SB			
SAMPLE I.D.	MATERIAL DESCRIPTION	LOCATION OF MATERIAL (PHOTO / XREF.)	MATERIAL CONDITION	MATERIAL CATEGORY	FRIABLE	ASBESTOS CONTENT
URMA. 626-M1	wall mastic - (Black) thin coat @ 4' level	Peeling	T S (M) O	F (NF)	(Y) N	10-20%
			T S M O	F NF	Y N	
			T S M O	F NF	Y N	
URMA. 626-M2	floor mastic - (Black) thin coat	under tan 12x12 VAT and red 9x9 VAT	T S (M) O	F NF	(Y) N	N/D
		Stair Landing: 7' Door 20' m2 floor sample	T S M O	F NF	Y N	
		6' mastic on floor	T S M O	F NF	Y N	
		7' door painted wall	T S M O	F NF	Y N	
		Sample	T S M O	F NF	Y N	
		plaster ~ 8' Ceiling	T S M O	F NF	Y N	
		Gym	T S M O	F NF	Y N	

Asbestos Content: Y = yes, N = no

Material Category: T = thermal system insulation, S = surfacing material, M = miscellaneous, O = other. Friability: F = friable, NF = nonfriable

I Certify that the listed samples were collected at the stated facility.

SIGNATURE: Cheryl E Yates		Relinquished By SIGNATURE:	
PRINTED NAME: Cheryl E Yates		PRINTED NAME:	
COLLECTION DATE: 6-26-95 10:45 AM		FIRM:	
CERT. #: 99	AHERA #: T673709	DATE/TIME:	
SHIPPING METHOD: Hand delivery		Received By SIGNATURE:	
SELECTED LAB: Solar Eniro		PRINTED NAME:	
COURIER SIGNATURE: C Yates as above		FIRM:	
PRINTED NAME:		DATE/TIME:	
FIRM:		I CERTIFY THAT THE LISTED SAMPLES HAVE BEEN ANALYZED BY ME ACCORDING TO THE PROCEDURES SPECIFIED BY LAW.	
DATE/TIME: 6-26-95 11:15 AM		ANALYST SIGNATURE:	
LABORATORY RECEIPT DATE/TIME: 6-26-95		PRINTED NAME:	
SIGNATURE: [Signature]			

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Chain of Custody Record

Analytical Request

Method/Parameter

Relinquished by: Cheryl E. Yates Received by: J. Torres

Print Name: Cheryl E. Yates Print Name: J. Torres

Date/Time: 6-26-98 11:15 Date/Time: 6/26/98 @ 11:17 AM

Special Instructions/Comments:

Phone:(907)349-7705 Fax (907)349-7944



SOLAR ENVIRONMENTAL SERVICES, INC.

1131 E. 76TH Ave., Ste. 102, Anchorage, Ak 99518
Phone (907) 349-7705/ Fax (907) 349-7944



Accredited Laboratory
U.S. Dept. of Commerce-NIST

CERTIFICATE OF ANALYSIS

CLIENT: Environmental Health Sciences-Ak
ATTN: Tom Swearingen
10928 Eagle River Rd., Ste. 202
Eagle River, AK 99577

CLIENT ORDER#:
PROJECT NAME: Ursa Major Elem. School
PROJECT NO: 626-M1
REPORT NO: 1068
REPORT DATE: June 14, 1995
COLLECTED BY: C. Yates-Client
DATE SAMPLED: June 26, 1995

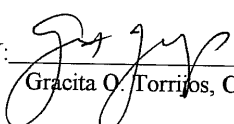
PAGE: 1 of 1

BULK ASBESTOS ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY (PLM) EPA METHOD 600R93116

LAB.#	CLIENT#	DESCRIPTION/ LOCATION	%ASBESTOS PRESENT	%OTHER FIBROUS MATERIALS	%NONFIBROUS MATERIALS
95531BO856	URMA-626-M1	Wall mastic-black thin coat at 4' level (tarry)	10-20% Chrysotile	<1% Cellulose	80-90%
95531BO857	URMA-626-M2	Floor mastic-(trowled on) tarry black thin coat	None Detected	<1% Cellulose	99-100%

All quantities are based on visual estimation unless point counting method, per NESHAP 40 CFR Part 61, is requested by client. Test report relates only to the items tested and must not be used by client to claim product endorsement by NVLAP or any Agency of the U.S. Government. Test report must not be reproduced except in full without the approval of SES and subject to SES general terms and conditions. Small asbestos fibers may be missed by PLM Method due to resolution limitations of the optical microscope. Therefore, None Detected and <1% PLM results cannot be guaranteed. Transmission Electron Microscopy (TEM) is recommended for confirmation.

REVIEWED AND APPROVED BY:


Gracita O. Torrijos, Chemist-I.H.

Date: August 7, 1995

FORM# SES 1008 REVISED 1/10/95

AUG 15 1995



SOLAR ENVIRONMENTAL SERVICES, INC.

1131 E. 76th Ave., Ste. 102, Anchorage, AK 99518 Tel: 907-349-7705 Fax: 907-349-7706

BULK SAMPLE ANALYSIS REPORT FOR ASBESTOS - LAB FORM - ANALYST COPY
POLARIZED LIGHT MICROSCOPY (PLM) EPA METHOD 600/93116
PRELIMINARY RESULTS ONLY

CLIENT: EKS

RELINQUISHED BY: _____
RECEIVED BY: _____
DATE: _____
CONDITION: _____
ACCEPTABLE: ☒ _____
NOT ACCEPTABLE: _____

CLIENT ORDER#: _____
PROJECT NO.: _____
REPORT NO.: _____
REPORT DATE: _____
COLLECTED BY: E. Jones
DATE SAMPLED: 6/26/98

PROJECT: URSA MAJOR Elem. School

SES LAB NO.	95531BO 856	95531BO 857	95531BO	95531BO	95531BO	95531BO	95531BO
CLIENT ID NO.	UAMA-626-M1	UAMA-626-M2					
LOCATION:							
ADDITIONAL INFORMATION:							
MATERIAL DESCRIPTION:	MATC	MATC	End of				
GROSS SAMPLE APPEARANCE:							
TEXTURE?	pk. like	pk. like					
SAMPLE HOMOGENOUS?	yes	yes					
OBVIOUS LAYERS?	yes	yes					
COLOR?	black	black					
IS SAMPLE FIBROUS?	yes	yes					
SAMPLE CONTAIN ASBESTOS?	yes	yes					
TYPE & % OF ASBESTOS PRESENT:							
CHRYSOITILE	10-20%						
AMOSITE							
OTHER(SPECIFY)							
TOTAL % ASBESTOS PRESENT:	10-20%						
OTHER FIBROUS MATERIAL PRESENT: (TYPE & %)							
FIBROUS GLASS	21%						
CELLULOSE							
OTHER(SPECIFY)							
% OF NON-FIBROUS MATERIAL:	80-90% pk						
REMARKS:							
MORPHOLOGY	various						
EXTINCTION	11						
PLEOCHROISM	none						
REFRACTIVE INDEX - PARALLEL & PERPENDICULAR	1.549 / 1.547						
BIREFRINGENCE	(low)						
SIGN OF ELONGATION	+						

ANALYST: gjs

DATE: 6/26/98

APPROVED BY: GRACIA G. TORILLOS, CHEMIST-LM

This report relates only to the items tested and must not be reproduced except in full without the approval of SES and subject to SES general terms and conditions. Small asbestos fibers may be missed by PLM Method due to limitations of the optical microscope. Therefore, None Detected and <1% PLM results cannot be guaranteed. Transmission Electron Microscopy (TEM) is required for definitive identification of asbestos fibers.

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT

Division 2

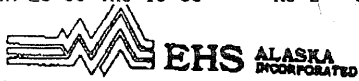
Section 02 26 00

P. 03

JUN-29-95 THU 10:36

RJ L GROUP, INC.

FAX NO. 41273 89



Environmental Health Sciences-Alaska, Inc.
10928 Eagle River Road, Suite 202, Eagle River, AK 99577-8052
Tel # (907) 694-1383 Fax # (907) 694-1382

AOC 506 647

PAGE 1 OF 1

CHAIN OF CUSTODY RECORD / ASBESTOS SURVEY DATA SHEET

JOB NUMBER: 3603-03		BULK ANALYSIS REQUESTED: (FLM) ITEM				
PROJECT NAME: Ursa Major Addition		SAMPLE QUANTITY: 1				
CLIENT: KROCHNA - ASD		TURNAROUND REQUESTED: 6 HR. ASAP				
PROJECT LOCATION: FT BELK		SPECIAL INSTRUCTIONS:				
SAMPLE I.D.	MATERIAL DESCRIPTION	LOCATION OF MATERIAL (PHOTO/XREF)	MATERIAL CONDITION	MATERIAL CATEGORY	FRIABLE	ASBESTOS CONTENT
UM628-01	YELLOW & BLACK MASTIC	BEHIND MARLITE ON GWS IN MAIN HALL 3 RD OFFICE	GOOD	T S M O	F NF	Y N
				T S M O	F NF	Y N
		* TEST YELLOW MASTIC & BLACK MASTIC SEPERATELY *		T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N

Asbestos Content: Y = yes, N = no

Material Category: T = thermal system insulation, S = surfacing material, M = miscellaneous, O = other; Friability: F = friable, NF = nonfriable

I certify that the listed samples were collected at the stated facility.

SIGNATURE: TONY SLATONBARKER
PRINTED NAME: TONY SLATONBARKER

COLLECTION DATE: 6-28-95

CERT. #: AHERA #: T-5270-13

SHIPPING METHOD: FED EX

SELECTED LAB: RJ LEE - MUNROEVILLE

COURIER SIGNATURE:
PRINTED NAME:

FIRM:

DATE/TIME:

LABORATORY RECEIPT DATE/TIME: 6-29-95 9 AM

SIGNATURE: Sean Thom

Relinquished By
SIGNATURE:
PRINTED NAME:

FIRM:

DATE/TIME:

Received By
SIGNATURE:

PRINTED NAME:

FIRM:

DATE/TIME:

I CERTIFY THAT THE LISTED SAMPLES HAVE BEEN ANALYZED BY ME ACCORDING TO THE PROCEDURES SPECIFIED BY LAW.

ANALYST SIGNATURE:

PRINTED NAME:

FIRM:
DATE/TIME:

RJ LeeGroup, Inc.

2424 Sixth St. • Berkeley, CA 94710
(510) 486-8319 • FAX (510) 486-0927

June 29, 1995

Mr. Tony Slatonbarker
Environmental Health Sciences - Alaska, Inc.
10928 Eagle River Road, Suite 202
Eagle River, AK 99577-8052

RE: PLM Standard Asbestos Analysis Results for Samples as Shown on Table I
RJLeeGroup, Inc. Job No.: AOC506647
Client P.O./Project Number: 3603-03
Client Job Name/Location: Ft Rich. - URSA MAJOR Addition

Dear Mr. Slatonbarker:

Enclosed are the results from the polarized light microscopy (PLM) asbestos analysis of the above referenced sample(s). Sample(s) were analyzed in accordance with guidelines set forth in the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples, 40 CFR, Pt. 763, Subpt. F, App. A (7-1-87) (EPA 600/M4-82-020).

Table I lists each sample identification number, gross sample description, sample location, type(s) and concentration of asbestos, type(s) and concentration of nonasbestos fibers, major components and concentration of nonfibrous material (NFM), sample run date, analyst, sample homogeneity, and a layer breakdown if applicable. All concentrations are given in area percents (visual estimation).

RJ Lee Group, Inc. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) (NVLAP Participant Number 1208-2) for bulk asbestos fiber analysis (PLM), and by the California Department of Health Services, Environmental Laboratory Accreditation Program (CALELAP) for bulk asbestos analysis. Neither the NVLAP Accreditation of this laboratory nor this report may be used to claim product endorsement by NVLAP or any agency of the United States government.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the sample(s) covered by this report, RJ Lee Group will store the sample(s) for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample(s).

If you have any questions on this report or if RJ Lee Group, Inc. can be of further assistance, please do not hesitate to call.

Sincerely,

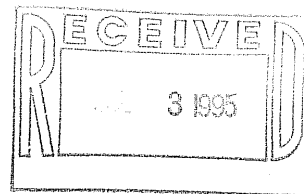


Elena Skovorodnikova
Geologist

FOR

ES/dtm

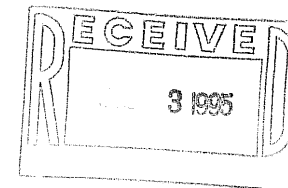
Enclosure



Monroeville, PA • Berkeley, CA • Washington, D.C. • Raleigh, NC • Houston, TX
Chopra-Lee, Inc., Grand Island, NY

Table I
Polarized Light Analysis Results
Project AOC506647

		-----Asbestos-----							-----Nonasbestos-----					Run Date
Sample Number /	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	
1707222CPL	UM628-01	-	-	-	-	-	-	<1 Tr %	-	-	-	-	99+ %	6/29/95
Yellow mastic and black mastic		NFM: Qtz, Binder, Resin, Misc. Part.							WHP					
									Homogeneous					



Authorized Signature Dat Nam
Date Thursday, June 29, 1995

RJ Lee Group, Inc.
Berkeley

2424 Sixth Street
Berkeley, CA 94710
Page: 1 of 1

Phone (510) 486-8319
Fax (510) 486-0927



EHS ALASKA
INCORPORATED

Environmental Health Sciences-Alaska, Inc.
10928 Eagle River Road, Suite 202, Eagle River, AK 99577-8052
(907) 694-1383 • (907) 694-1382 fax

CHAIN OF CUSTODY RECORD/FIELD SURVEY DATA				Page 1 of 1
FIELD COLLECTION DATE: 4-2-96		JOB #: 3603-01-03		MATERIAL TYPE: (Circle) <u>ASBESTOS</u> LEAD
PROJECT NAME: ASD FT RICH URSAMAT		BULK ANALYSIS REQUESTED: (Circle) <u>PLM</u> PLM DUST / TEM BULK / LEAD TCLP / LEAD PPM		
FACILITY: URSA MAJOR ELEM.		DISPOSAL: <u>USUAL</u>	TURNAROUND: <u>PUSH</u>	
SPECIAL INSTRUCTIONS:				
COLLECTED BY (signature) <u>T. Slaton Barker</u> PRINTED NAME <u>T. Slaton Barker</u> CERT# <u>1-5270-13</u> AHERA# SHIPPING METHOD COURIER (signature) DATE/TIME		SELECTED LABORATORY <u>SOLAR</u> SAMPLES ACCEPTED BY <u>Tommy ODS160+</u> DATE/TIME <u>4/3/96 4:00 PM</u> ANALYST'S SIGNATURE <u>[Signature]</u> DATE <u>4/3/96 4:00 AM</u>		
COMMENTS:				
SAMPLE ID	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)		LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS
1. <u>UJ96-01</u>	<u>GREY FIBROUS MATERIAL ON WALL LIKE TROWELED OF FIRE PROOF</u>		<u>DEBRIS ON FLOOR</u>	
MATL. CONDITION: <u>GOOD</u> FAIR POOR	DAMAGE POTENTIAL: (LO, MED, HI) <u>(LO)</u> WATER: AIR: VIBRATION: CONTACT: ☒			
2. <u>UJ96-02</u>	<u>GREY HARD CEMENTIOUS SCRATCH COAT</u>		<u>KITCHEN WALL IN MP ROOM BEHIND FIBROUS FIBROUS LAYER</u>	
MATL. CONDITION: <u>GOOD</u> FAIR POOR	DAMAGE POTENTIAL: (LO, MED, HI) <u>(LO)</u> WATER: AIR: VIBRATION: CONTACT: ☒			
3. <u>UJ96-03</u>	<u>SAME 01</u>		<u>PRABLE FLUFFY STUFF ON WALL</u>	
MATL. CONDITION: <u>GOOD</u> FAIR POOR	DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:			
4. <u>UJ96-04</u>	<u>SAME 01</u>		<u>DEBRIS ON FLOOR</u>	
MATL. CONDITION: <u>GOOD</u> FAIR POOR	DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:			
5.				
MATL. CONDITION: <u>GOOD</u> FAIR POOR	DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:			
6.				
MATL. CONDITION: <u>GOOD</u> FAIR POOR	DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:			
7.				
MATL. CONDITION: <u>GOOD</u> FAIR POOR	DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:			
8.				
MATL. CONDITION: <u>GOOD</u> FAIR POOR	DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:			

RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA

EHS-995



SOLAR ENVIRONMENTAL SERVICES, INC.

1131 E. 76TH Ave., Ste. 102, Anchorage, Ak 99518
Phone (907) 349-7705/ Fax (907) 349-7944



Accredited Laboratory

U.S. Dept. of Commerce-NIST

CERTIFICATE OF ANALYSIS

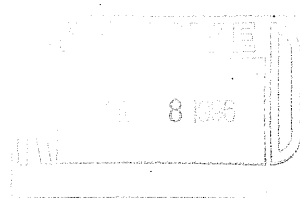
CLIENT: Environmental Health Sciences-Ak
Attn: Tom Swearingen
10928 Eagle River Rd., Ste. 202
Eagle River, Ak 99577

PAGE: 1 of 1

CLIENT ORDER#: 191005
PROJECT NAME: ASD- Ft. Rich Ursa Major
PROJECT NO: 3603-01-03
REPORT NO: 1176
REPORT DATE: April 5, 1996
COLLECTED BY: T. Slatonbarker-Client
DATE SAMPLED: April 02, 1996

ASBESTOS QUALITATIVE DUST ANALYSIS SUMMARY POLARIZED LIGHT MICROSCOPY (PLM) WITH DISPERSION STAINING

Lab.#	Client#	Description/Location	Asbestos Present	Other Materials Present
96531BO0477	UJ96-01	On floor/debris	Chrysotile	Cellulose
96531BO0480	UJ96-04	On floor/debris	Chrysotile	Cellulose
96531BO0479QC	UJ96-03	QUALITY CONTROL	5-10%Chrysotile	45-50%Cellulose - QC-PASSED 40-50%Non-Fibr.Mat.
END OF REPORT				



Test report relates only to the items tested and must not be used by client to claim product endorsement by NVLAP or any Agency of the U.S. Government. Test Report must not be reproduced except in full without the approval of SES and subject to SES general terms and conditions. Small fibers may be missed by PLM Method due to resolution limitations of the optical microscope. Therefore, None Detected results cannot be guaranteed. Electron Microscopy is recommended for confirmation.

REVIEWED AND APPROVED BY:

Gracita O. Torrijos, Chemist-I.H.

Date: April 05, 1996

FORM# SES 1031

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 – Page 173 of 332



SOLAR ENVIRONMENTAL SERVICES, INC.

1131 E. 76TH Ave., Ste. 102, Anchorage, Ak 99518
Phone (907) 349-7705/ Fax (907) 349-7944

NVLAP

Accredited Laboratory

U.S. Dept. of Commerce-NIST

CERTIFICATE OF ANALYSIS

CLIENT: Environmental Health Sciences-Ak
ATTN: Tom Swearingen
10928 Eagle River Rd., Ste. 202
Eagle River, AK 99577

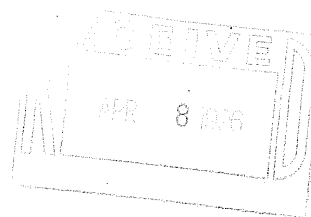
CLIENT ORDER#: 191005
PROJECT NAME: ASD- Ft. Rich Ursa Major
PROJECT NO: 3603-01-03
REPORT NO: 1177
REPORT DATE: April 05, 1996
COLLECTED BY: T. Slatonbarker-Client
DATE SAMPLED: April 02, 1996

PAGE: 1 of 1

BULK ASBESTOS ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY (PLM) EPA METHOD 600R93116

LAB.#	CLIENT#	DESCRIPTION/ LOCATION	%ASBESTOS PRESENT	%OTHER FIBROUS MATERIALS	%NONFIBROUS MATERIALS
96531BO0478	UJ96-02	Kitchen wall/ cementitious	None Detected	1-3%Fibrous Glass 3-5%Cellulose	92-96%
96531BO0479	UJ96-03	On wall/ fireproofing-like	5-10%Chrysotile	35-40%Cellulose	50-60%
96531BO0479QC	UJ96-03	QUALITY CONTROL	5-10%Chrysotile	45-50%Cellulose	40-50%QC-PASSED

END OF REPORT



All quantitations are based on visual estimation unless point counting method, per NESHAP 40 CFR Part 61, is requested by client. Test report relates only to the items tested and must not be used by client to claim product endorsement by NVLAP or any Agency of the U.S. Government. Test report must not be reproduced except in full without the approval of SES and subject to SES general terms and conditions. Small asbestos fibers may be missed by PLM Method due to resolution limitations of the optical microscope. Therefore, None Detected and <1% PLM results cannot be guaranteed. Transmission Electron Microscopy (TEM) is recommended for confirmation.

REVIEWED AND APPROVED BY: Gracita O. Torrijos, Chemist-I.H.

Date: April 05, 1996

FORM# SES 1008 REVISED 1/10/95

QUALITY ASSURANCE

CONSTRUCTION INSPECTION
ROOF INVESTIGATIONS

8200 EAST THIRD AVE.
ANCHORAGE, AK 99504
(907) 333-4988

Al Kim
Krochina Architects
3501 Denali
Anchorage, Ak 99503

15 February 1995

Subject: Ursa Major School, Roof Cores

This is a report of the roof cores taken at the Ursa Major Elementary School. The purpose of the cores was to determine the moisture content of the roof insulation, in anticipation that a new membrane may be installed over the existing membrane.

The school is located on Fort Richardson, near Anchorage. The investigation was done on Tuesday, 14 February 1995. Weather was windy, clear and 20°F. There was ice on the roofs but little snow, with the exception of 18" of snow around the perimeter, coinciding with the roof overhang. There was 24" of snow on the library roof. The presence of a layer of ice over the roofs limited a visual examination of the condition of the membrane. The presence of 18" of snow around the perimeter, coinciding with the roof overhang, prevented a visual examination of the condition of the edge flashing.

Test cuts and observation reveal the roofing systems are as follows:

MULTIPURPOSE ROOM ROOF. Test Cut 1 indicates Built-Up-Roof (BUR) of felts and asphalt, 2" of Perlite insulation, BUR vapor retarder, concrete deck. The insulation was dry. Test cut was taken thru a blister, about 24" in width and 1" high. No other blisters were observed. The top portion of the BUR contained a fabric material. All other material reinforcing the asphalt appeared to be standard roofing felts. Using fabric and asphalt over an existing BUR is a standard resurfacing.

2 STORY CLASSROOM ROOF. Test Cuts 2, 3, & 4 indicate BUR directly applied to concrete. **There is no insulation in this roof system.** The top portion of the BUR contained a fabric material. All other material reinforcing the asphalt appeared to be standard roofing felts. In the area of Test Cut 3 several wrinkles in the BUR membrane protruding above the ice were observed.

LIBRARY ROOF. No test cuts were made in this roof. The membrane is an exposed fully adhered EPDM membrane. This roof also continues over a narrow eyebrow roof going to the north towards, and abutting, the Multipurpose room.

EYEBROW ROOF (south of library roof). Test Cut 5 indicates BUR, 1/2" Firtex, 2" Expanded polystyrene, BUR vapor retarder, concrete deck. The insulation was dry. The wall flashings on this roof are in poor condition. Torch-on asphalt sheets have been installed over the original flashings. The sheets of roofing material are not sealed along the top of the flashings, and no bleed out of asphalt was observed on the vertical seams. This is an indication the material was not heated enough and that a trowel was not used to do the detail edge sealing. It is recommended the wall flashings be removed and replaced.

ART ROOM ROOF. Test Cut 6 indicates BUR, 2" of Perlite insulation, BUR vapor retarder, concrete deck. The insulation was dry. The top portion of the BUR contained a fabric material. All other material reinforcing the asphalt appeared to be standard roofing felts.

ENTRANCE ROOFS. There are four entrance roofs. The southeast entrance roof into the art room was not observed, other than to note it appears to be supported up by two wooden posts. No recommendations.

The southeast entrance concrete roof into the two story classrooms was covered with ice. There appears to be an asphalt product waterproofing the top of the roof. No deterioration of the concrete was observed. No recommendations.

The south entrance concrete roof spills water over the west corner of this roof and onto the outside of the building. The concrete in the building wall is cracked and may be loose. It is recommended the concrete be inspected and repaired if found to be loose. It is further recommended this roof be reroofed with Kemperol.

The northwest entrance concrete roof (main entrance). Two cracks thru the entire width of this small concrete roof have peeling paint along the cracks. This indicates water may be passing thru the concrete, and could be affecting any reinforcing that may be in the concrete. No rust stains were observed. It is recommended this roof be reroofed with Kemperol.

Kemperol roofing product is a two component polyester liquid, applied soaked into a punched fleece. The material molds to any shape at the time of application and bonds to nearly all other surfaces, except EPDM. The material is long lasting, with a 20 year warranty on a complete reroof, and should provide a durable, very low maintenance roof. It's self flashing feature eliminates the need to redo flashing and metal counterflashing in reroof applications. This would be a preferred roof membrane compared to the high maintenance asphalt products and flashings usually in place over flat entrance roofs.

If you have any questions, please call.



Thomas A Sexton

MAY 31 1991



**TRANSMITTAL LETTER
AND CUSTODY RECEIPT**

EHS-591

DATE: 5-28-91	JOB NO.: 3208-01
ORGANIZATION: ASP	
FACILITY: Kennedy, Ursa Major Ursa Minor	

This form, signed and dated by each individual who has had custody of the samples, shall accompany the samples to the testing laboratory. The original signed copy shall be returned to EHS-Alaska as an attachment to the laboratory report. A duplicate copy of the form shall accompany the samples to the archive.

TRANSMITTED HERewith ARE THE FOLLOWING:			
QUANTITY	TYPE	DESCRIPTION (INCLUDE ALL SAMPLE NUMBERS)	
16	Bulk	KA-01 to KV-04 / MIA-01 to MIS-06 / MAA-01 to MAR-06	
		Please Keep Reports of Samples separate	
I certify that the above listed samples were taken by me at the above facility. Sample descriptions are on the attached Field Survey Data Sheets.			
SIGNATURE	DATE	PRINTED NAME	AHERA NUMBER
Robert French	5/23/91	BOB French	MP1-
COURIER RECEIPT: I acknowledge receipt of the above listed samples and certify that the quantity of samples and sample numbers are correct except as follows: [☒] No exceptions taken [] _____			
SIGNATURE	DATE	PRINTED NAME	ORGANIZATION
Jane H. Jentzen	5-23-91	JANE L TRENTON	AOC
LABORATORY RECEIPT: I acknowledge receipt of the above listed samples and certify that the quantity of samples and sample numbers are correct except as follows: [] No exceptions taken [] _____			
SIGNATURE	DATE	PRINTED NAME	ORGANIZATION
Jane H. Jentzen	5-23-91	JANE L TRENTON	AOC
ANALYST RECEIPT: I acknowledge receipt of the above listed samples and certify that the quantity of samples and sample numbers are correct except as follows: [☒] No exceptions taken [] _____			
SIGNATURE	DATE	PRINTED NAME	ORGANIZATION
Tony Oblique	5/25/91	TONY OPSIGUE	AOC
ANALYST REPORT CERTIFICATION: I certify that the above listed samples have been analyzed by me according to the procedures specified by law and that laboratory report, Report No. 22,20,21, dated 05-24-91, is accurate in all respects.			
SIGNATURE	DATE	PRINTED NAME	LABORATORY NO.
Tony Oblique	5/25/91	TONY OPSIGUE	AOC
ANALYST RECEIPT: I acknowledge receipt of the above listed samples and certify that the quantity of samples and sample numbers are correct except as follows: [] No exceptions taken [] _____			
SIGNATURE	DATE	PRINTED NAME	ORGANIZATION

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00

Alaska Quality Control & Technical Services, Ltd.
Professional Engineering & Testing Services Division
907 East Dowling Road, Suite 18
Anchorage, Alaska 99518 907/561-2400 FAX/563-1318



Chain of Custody Record

CLIENT NUMBER	RECEIVED <u>5/23/91</u>	TIME <u>4:45 PM</u>	COLLECTED BY <u>CLIENT</u>
---------------	----------------------------	------------------------	-------------------------------

CLIENT: EHS

TURNAROUND TIME ☐ REG. ☒ 24 HR ☐ 8 HR ☐ 4 HR

Project Name: 390X-01

TYPE BULK QTY 16 CLIENT ID # KA-01 TO MAR-06

TYPE _____ QTY _____ CLIENT ID # _____ TO _____

Project ID Number _____

FOR BULK SAMPLES ONLY: POINT COUNT AUTHORIZED >> ☐ YES ☐ NO

SAMPLE NUMBER	DATE (mm/dd/yy)	TIME (24 HR)	SAMPLE LOCATION/IDENTIFICATION	TEST METHOD	MATERIAL DESCRIPTION	CONDITION ON RECEIPT
<u>KA-01</u>				<u>PLM</u>	<u>BULK SAMPLE</u>	<u>Good</u>
<u>to</u>						
<u>KV-04</u>						
<u>MIA-01</u>						
<u>to</u>						
<u>MID-06</u>						
<u>MIA-01</u>						
<u>to</u>						
<u>MID-06</u>						

SPECIAL INSTRUCTIONS		POSSIBLE HAZARD TO LAB	
RELINQUISH OF CUSTODY: I hereby relinquish custody of the above samples and certify that the quantity of samples and sample numbers are correct: Shipped Via: _____ Air Bill Retained: _____ DISPOSITION: _____ Signature <u>Bob French</u> Date <u>5-23-91</u> Printed Name <u>Bob French</u> ORGANIZATION <u>EHS-MA</u>			Certificate of Analysis I Certify that the above listed samples have been analyzed by me according to the procedures specified by law and that laboratory Report No. _____ dated _____ is accurate in all respects. Signature _____ Date _____
LABORATORY RECEIPT: I acknowledge receipt of the above listed samples and certify that the quantity and sample numbers are corrected except as follows: ☒ No Exception ☐ Exceptions: _____ Signature <u>John H. Tetslow</u> Date <u>5-23-91</u> Printed Name <u>John H. Tetslow</u> ORGANIZATION <u>JOE</u>			
AUTHORIZATION FOR DISPOSAL BY: _____ DATE: _____ DISPOSED BY: _____ DATE: _____ Signature _____ TIME: _____			

 FIELD SURVEY DATA SHEET		SHEET 1 OF 2	
FACILITY: URSA MAJOR		BLDG NO:	
ADDRESS:			
SAMPLE NUMBER MAA-01	FUNCTIONAL AREA: Hall way	LOCATION: Wall 4, 6 level	
	HOMOGENEOUS MATL: Gyp/mud/tape	TYPE: M	FRIABLE: N
	CONDITION:	ACCESS:	REF DWG:
	X REF:	POTENTIAL: C V A W	PHOTO: 11
COMMENTS:			
SAMPLE NUMBER MAA-02	FUNCTIONAL AREA: West West	LOCATION: Wall above Bldg, inside D	
	HOMOGENEOUS MATL: Gyp/Mud	TYPE:	FRIABLE:
	CONDITION:	ACCESS:	REF DWG:
	X REF:	POTENTIAL: C V A W	PHOTO: 12
COMMENTS: at nail - no tape			
SAMPLE NUMBER MAS-03	FUNCTIONAL AREA: Teaching lounge	LOCATION: above store	
	HOMOGENEOUS MATL: 12x12 FBG cly Tile	TYPE: M	FRIABLE: Y
	CONDITION:	ACCESS:	REF DWG:
	X REF:	POTENTIAL: C V A W	PHOTO:
COMMENTS: Marked Pa in less - look - more porous than other tiles			
SAMPLE NUMBER MAS-04	FUNCTIONAL AREA: Class Rm	LOCATION: at soff-A	
	HOMOGENEOUS MATL: FBG 12x24	TYPE: M	FRIABLE: Y
	CONDITION:	ACCESS:	REF DWG:
	X REF:	POTENTIAL: C V A W	PHOTO:
COMMENTS:			
SAMPLE NUMBER MAS-05	FUNCTIONAL AREA: Teaching lounge	LOCATION: cly	
	HOMOGENEOUS MATL: Mortar to cly tile	TYPE: M	FRIABLE: N
	CONDITION:	ACCESS:	REF DWG:
	X REF:	POTENTIAL: C V A W	PHOTO: 14
COMMENTS:			
INSPECTOR: Bob French		DATE: 5-23-91	
SIGNATURE: Robert French		AHERA NO: MPI-91-516	

See Table I-2 of AHERA QA Manual for key to coded entries.

		FIELD SURVEY DATA SHEET		SHEET 2 OF 2	
FACILITY: <u>URSA MAJOR</u>			BLDG NO:		
ADDRESS:					
SAMPLE NUMBER <u>MA-R-06</u>	FUNCTIONAL AREA: <u>Roof above TL</u>		LOCATION: <u>Near Vent</u>		
	HOMOGENEOUS MATL: <u>Tong & Patch</u>		TYPE: <u>X</u>	FRIABLE: <u>N</u>	
	CONDITION: <u>N</u>		ACCESS:	REF DWG:	
	POTENTIAL: C V A W		PHOTO:	RESULTS: <u>10% C</u>	
X REF:					
COMMENTS:					
SAMPLE NUMBER	FUNCTIONAL AREA:		LOCATION:		
	HOMOGENEOUS MATL:		TYPE:	FRIABLE:	
	CONDITION:		ACCESS:	REF DWG:	
	POTENTIAL: C V A W		PHOTO:	RESULTS:	
X REF:					
COMMENTS:					
SAMPLE NUMBER	FUNCTIONAL AREA:		LOCATION:		
	HOMOGENEOUS MATL:		TYPE:	FRIABLE:	
	CONDITION:		ACCESS:	REF DWG:	
	POTENTIAL: C V A W		PHOTO:	RESULTS:	
X REF:					
COMMENTS:					
SAMPLE NUMBER	FUNCTIONAL AREA:		LOCATION:		
	HOMOGENEOUS MATL:		TYPE:	FRIABLE:	
	CONDITION:		ACCESS:	REF DWG:	
	POTENTIAL: C V A W		PHOTO:	RESULTS:	
X REF:					
COMMENTS:					
SAMPLE NUMBER	FUNCTIONAL AREA:		LOCATION:		
	HOMOGENEOUS MATL:		TYPE:	FRIABLE:	
	CONDITION:		ACCESS:	REF DWG:	
	POTENTIAL: C V A W		PHOTO:	RESULTS:	
X REF:					
COMMENTS:					
INSPECTOR:			DATE:		
SIGNATURE:			AHERA NO:		

See Table I-2 of AHERA QA Manual for key to coded entries.

AQC Professional Engineering & Testing Services

907 East Dowling Road Suite 18, Anchorage, Alaska 99518
907/561-2400 FAX 907/563-1318

REC'D MAY 31 1991

C ENVIRONMENTAL HEALTH SCIENCES AK
L ATTN: TOM SWEARINGEN
I 16635 CENTERFIELD DRIVE
E EAGLE RIVER, AK 99577
N
T

BULK SAMPLE ANALYSIS FOR ASBESTOS

Analytical method: EPA
recommended PLM (Polarized
Light Microscopy with
dispersion staining

United States Department of Commerce
National Institute of Standards and Technology

NVLAP

ORDER NO. 19009111	REPORT NO. 21/T	DATE 05/28/91	PAGE 1 OF 2	TURNAROUND TIME: 24-HR RUSH	PROJECT : 3200-01/7 BASE SCHOOLS SAMPLED BY : CLIENT
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Lab no.	B91-0757	B91-0758	B91-0759
Additional Identification Information (sample location, Client ID)	MAA-01 HALLWAY WALL BY OFFICE	MAA-02 WEST VEST WALL ABV BB/IN DR	MAG-03 TEACHER'S LOUNGE ABOVE STORE
Type of Material	GYP/MUD/TAPE	GYP/MUD	CEILING TILE
Gross Appearance/Texture Is it homogeneous? Are there obvious layers? Is it fibrous? What color is it?	HARD NO YES YES BROWN/CREAM/WHITE	HARD NO YES YES CREAM/BROWN/WHITE	FLUFFY NO YES YES WHITE/BROWN
IS ASBESTOS PRESENT?	YES	YES	NONE DETECTED
ASBESTOS (Type and Percent) 1. Chrysotile 2. Amosite 3. Crocidolite 4. Other (specify)	1. 1-2% 2. NONE DETECTED 3. NONE DETECTED 4. NONE DETECTED	1. 1-2% 2. NONE DETECTED 3. NONE DETECTED 4. NONE DETECTED	1. NONE DETECTED 2. NONE DETECTED 3. NONE DETECTED 4. NONE DETECTED
Total Percent Asbestos Present	1-2%	1-2%	NONE DETECTED
Other Fibrous Materials Present: (type and percentage) 1. Fibrous Glass 2. Cellulose 3. Other (specify)	1. NONE DETECTED 2. 35-45% 3. NONE DETECTED	1. NONE DETECTED 2. 4-6% 3. NONE DETECTED	1. 55-65% 2. 1-5% 3. NONE DETECTED
Nonfibrous Material Percent	Not Analyzed	Not Analyzed	Not Analyzed
COMMENTS:	WITH CREAM & BROWN PAINT- LIKE MATERIAL. ASBESTOS FOUND IN MUD MATERIAL.	WITH CREAM PAINT-LIKE MATERIAL. ASBESTOS FOUND IN MUD MATERIAL.	WITH WHITE PAINT-LIKE MATERIAL.
All quantitations are based on visual estimation by PLM unless point counting, per NESHAP 40 CFR 61, is specified by client.			

Results relate only to items tested. No part of this report may be reproduced except in full with approval of Alaska Quality Control. Report may not be used to claim product endorsement by NVLAP or any government agency.

Tony O. Torrijos
T. ODSIGUE -Analyst - 05/25/91

Gracita O. Torrijos
Gracita O. Torrijos, Analytical Services Director

AQC Professional Engineering & Testing Services

907 East Dowling Road Suite 18, Anchorage, Alaska 99518
907/561-2400 FAX 907/563-1318

C ENVIRONMENTAL HEALTH SCIENCES AK
L ATTN: TOM SWEARINGEN
I 16635 CENTERFIELD DRIVE
E EAGLE RIVER, AK 99577
N
T

BULK SAMPLE ANALYSIS FOR ASBESTOS

Analytical method: EPA
recommended PLM (Polarized
Light Microscopy with
dispersion staining

United States Department of Commerce
National Institute of Standards and Technology

NVLAP

ORDER NO. 19009111	REPORT NO. 21/T	DATE 05/28/91	PAGE 2 OF 2	TURNAROUND TIME: 24-HR RUSH	PROJECT : 3200-01/7 BASE SCHOOLS SAMPLED BY : CLIENT
-----------------------	--------------------	------------------	----------------	--------------------------------	---

Lab no.	B91-0760	B91-0761	B91-0762
Additional Identification Information (sample location, Client ID)	MAS-04 CLASSROOM	MAS-05 TEACHER'S LOUNGE CEILING	MAR-06 ROOF ABOVE TL NEAR VENT
Type of Material	FBD	MASTIC	TAR & PATCH
Gross Appearance/Texture Is it homogeneous? Are there obvious layers? Is it fibrous? What color is it?	FLUFFY NO YES YES WHITE/YELLOW	BRITTLE NO YES YES YELLOW/BROWN	TARRY YES YES YES BLACK
IS ASBESTOS PRESENT?	NONE DETECTED	NONE DETECTED	YES
ASBESTOS (Type and Percent) 1. Chrysotile 2. Amosite 3. Crocidolite 4. Other (specify)	1. NONE DETECTED 2. NONE DETECTED 3. NONE DETECTED 4. NONE DETECTED	1. NONE DETECTED 2. NONE DETECTED 3. NONE DETECTED 4. NONE DETECTED	1. 5-10% 2. NONE DETECTED 3. NONE DETECTED 4. NONE DETECTED
Total Percent Asbestos Present	NONE DETECTED	NONE DETECTED	5-10%
Other Fibrous Materials Present: (type and percentage) 1. Fibrous Glass 2. Cellulose 3. Other (specify)	1. 55-65% 2. 1-5% 3. NONE DETECTED	1. 5-10% 2. 1-5% 3. NONE DETECTED	1. NONE DETECTED 2. 1-5% 3. NONE DETECTED
Nonfibrous Material Percent	Not Analyzed	Not Analyzed	Not Analyzed
COMMENTS:	WITH WHITE PAINT-LIKE MATERIAL.		
All quantitations are based on visual estimation by PLM unless point counting, per NESHAP 40 CFR 61, is specified by client.			

Results relate only to items tested. No part of this report may be reproduced except in full with approval of Alaska Quality Control. Report may not be used to claim product endorsement by NVLAP or any government agency.

Tony Osigue
T. OSIGUE -Analyst - 05/25/91

Gracita O. Torrijos
Gracita O. Torrijos, Analytical Services Director

APPENDIX B

Dust Sampling for Asbestos Field Survey Data Sheets and Laboratory Reports



EHS ALASKA
INCORPORATED

EHS-Alaska, Inc.
10928 Eagle River Road, Suite 202, Eagle River, AK 99577-8052
(907) 694-1383 phone • (907) 694-1382 fax
e-mail • ehsak@ehs-alaska.com

CHAIN OF CUSTODY RECORD/FIELD SURVEY DATA				Page <u>1</u> of <u>2</u>
FIELD COLLECTION DATE: <u>4-5-02</u>		JOB #: <u>5679-01</u>		BULK ANALYSIS REQUESTED: (circle) PLM / TEM BULK / LEAD TCLP / LEAD PPM
PROJECT NAME: <u>ASD KESA MAJOR DUSTY DUCTS</u>			MATERIAL TYPE: (Circle) <u>ASBESTOS</u>	TOTAL LEAD QUANTITIES: <u>12</u>
FACILITY: <u>URSA MAJOR E.S</u>		DISPOSAL: <u>ROUTINE</u>	TURNAROUND: <u>WED 4-10-02</u>	
SPECIAL INSTRUCTIONS:				
COLLECTED BY (signature) <u>[Signature]</u> PRINTED NAME <u>KEVIN L. BERGAN</u> CERT# <u>T-7577-8</u> AHERA# SHIPPING METHOD <u>832987018738</u> COURIER (signature) DATE/TIME		SELECTED LABORATORY <u>IATL</u> SAMPLES ACCEPTED BY DATE/TIME <u>4.10.02</u> ANALYST'S SIGNATURE <u>[Signature]</u> DATE <u>4.10.02</u>		
COMMENTS: <u>ANALYZE BY ASTM D5755-95</u> <u>APR - 8 2002</u> <u>1005</u>				
SAMPLE ID	SAMPLE DESCRIPTION (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION / COMMENTS (INCLUDING PHOTO / XREF)	RESULTS	
1. <u>UJ4502-D01</u> <u>1479825</u> MATERIAL CONDITION: <u>GOOD FAIR POOR</u>	<u>10cm x 10cm DUST ON F.C.</u> DAMAGE POTENTIAL: (L.O, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>CUV IN CR 165</u>	<u><7,400</u> <u>17:22</u>	
2. <u>UJ4502-D02</u> <u>1479826</u> MATERIAL CONDITION: <u>GOOD FAIR POOR</u>	<u>10cm x 10cm DUST ON METAL</u> DAMAGE POTENTIAL: (L.O, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>CUV, FAN HOUSING CR# 223</u>	<u><7,400</u> <u>~ 17:35</u>	
3. <u>UJ4502-D03</u> <u>1479827</u> MATERIAL CONDITION: <u>GOOD FAIR POOR</u>	<u>10cm x 10cm DUST ON METAL</u> DAMAGE POTENTIAL: (L.O, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>EXHAUST DUCT FROM CR 228</u>	<u><9,930</u> <u>~ 17:57</u>	
4. <u>UJ4502-D04</u> <u>1479828</u> MATERIAL CONDITION: <u>GOOD FAIR POOR</u>	<u>10cm x 10cm DUST ON METAL</u> DAMAGE POTENTIAL: (L.O, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>RETURN AIR DUCT ON N SIDE OF IMC.</u>	<u>22,200</u>	
5. <u>UJ4502-D05</u> <u>1479829</u> MATERIAL CONDITION: <u>GOOD FAIR POOR</u>	<u>10cm x 10cm DUST ON METAL</u> DAMAGE POTENTIAL: (L.O, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>LAST SUPPLY RECYCLE DUCT AT W.W OF IMC.</u>	<u>14,800</u> <u>~ 19:05</u>	
6. <u>UJ4502-D06</u> <u>1479830</u> MATERIAL CONDITION: <u>GOOD FAIR POOR</u>	<u>10cm x 10cm DUST ON METAL</u> DAMAGE POTENTIAL: (L.O, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>RA DUCT AT W.W OF MPR.</u>	<u>481,000</u>	
7. <u>UJ4502-D07</u> <u>1479831</u> MATERIAL CONDITION: <u>GOOD FAIR POOR</u>	<u>10cm x 10cm DUST ON Metal Fan Housing</u> DAMAGE POTENTIAL: (L.O, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>Fan Housing Supply Side Attch-3 (MPR) S</u>	<u>49,300</u> <u>20:25</u>	
8. <u>UJ4502-D08</u> <u>1479832</u> MATERIAL CONDITION: <u>GOOD FAIR POOR</u>	<u>10cm x 10cm DUST ON METAL</u> DAMAGE POTENTIAL: (L.O, MED, HI) WATER: AIR: VIBRATION: CONTACT:	<u>Attch-3 (MPR) SUPPLY DOWNSTREAM OF HEAT.</u>	<u>185,000</u> <u>~ 20:30</u>	

RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA

EHS-10/00



EHS-Alaska, Inc.
10928 Eagle River Road, Suite 202, Eagle River, AK 99577-8052
(907) 694-1383 phone • (907) 694-1382 fax
e-mail • ehsak@ehs-alaska.com

1.5
0.5
0.75
0.5

FIELD SURVEY DATA (continued)			Page 2 of 2
PROJECT NAME: <i>Ursa Major Dusty Duct Sample</i>		FACILITY: <i>Ursa Major Elementary School</i>	
JOB NUMBER: <i>5679-01</i>		DATE: <i>4-5-02</i>	COLLECTED BY: <i>Brian Morgan</i>
SAMPLE ID	SAMPLE DESCRIPTION (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS
<i>UT4502-D09</i>	<i>10cm x 10cm DUST ON METAL</i>	<i>R/A & O/A MIX PLENUM.</i>	<i>4,930</i>
<i>1479833</i>	MATL. CONDITION: <i>GOOD FAIR POOR</i>	<i>Gym Unit</i>	<i>2111</i>
<i>UT4502-D10</i>	<i>10cm x 10cm DUST ON METAL</i>	<i>Gym Unit SUPPLY AT FAN</i>	<i>22,200</i>
<i>1479834</i>	MATL. CONDITION: <i>GOOD FAIR POOR</i>		<i>2114</i>
<i>UT4502-D11</i>	<i>10cm x 10cm DUST ON METAL</i>	<i>ART ROOM AHU R/A UPSTREAM OF FILTERS</i>	<i>9,870</i>
<i>1479835</i>	MATL. CONDITION: <i>GOOD FAIR POOR</i>		<i>2143</i>
<i>UT4502-D12</i>	<i>10cm x 10cm DUST ON METAL</i>	<i>ART ROOM AHU SUPPLY AT FAN</i>	<i>59,200</i>
<i>1479836</i>	MATL. CONDITION: <i>GOOD FAIR POOR</i>		<i>2149</i>
<i>END</i>			
MATL. CONDITION: <i>GOOD FAIR POOR</i>	DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:		
MATL. CONDITION: <i>GOOD FAIR POOR</i>	DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:		
MATL. CONDITION: <i>GOOD FAIR POOR</i>	DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:		
MATL. CONDITION: <i>GOOD FAIR POOR</i>	DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:		
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MATL. CONDITION: <i>GOOD FAIR POOR</i>	DAMAGE POTENTIAL: (LO, MED, HI) WATER: AIR: VIBRATION: CONTACT:		

IATL International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/23/2002
Project: ASD;URSA;MajorDustyDucts;4-5-02
Project No.: 5679-01

TEM DUST SAMPLE ANALYSIS SUMMARY

<u>Lab No</u>	<u>Client No.</u>	<u>Location</u>	<u>Result</u>	<u>Asbestos Types</u>
1479825	UJ4502-D01	CUV In Cr 165	<7400.0 Structures/cm2	None Detected
1479826	UJ4502-D02	CUV, Fan Housing Cr #223	<7400.0 Structures/cm2	None Detected
1479827	UJ4502-D03	Exhaust Duct From Cr #228	<4930.0 Structures/cm2	None Detected
1479828	UJ4502-D04	Return Air Duct On N. Side Of IMC	22200.0000 Structures/cm2	Chrysotile Actinolite
1479829	UJ4502-D05	Last Supply Duct At NW Of IMC	14800.0000 Structures/cm2	Chrysotile

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MAY 02 2002

Member AIHA Analysts Registry AIHA Lab No. 444 NIST-NVLAP No. 1165 NYS-DOH No. 11021

Methodology: ASTM D5755-95 Standard Test Method For Microvacuum Sampling And Indirect Analysis
Of Settled Dust By TEM For Asbestos

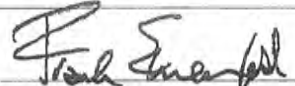
This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Comments: TEM settled dust results are dependent on several factors including sampling technique. IATL can supply references that may aid in the interpretation of these results.

Analysis Performed By: 
Craig A. Liska, AIHA-AAR 4801

Date: APR 10 2002

Approved By:


Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos
Testing Laboratories

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CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/22/2002
Project: ASD;URSA;MajorDustyDucts;4-5-02
Project No.: 5679-01

TEM DUST SAMPLE ANALYSIS SUMMARY

<u>Lab No</u>	<u>Client No.</u>	<u>Location</u>	<u>Result</u>	<u>Asbestos Types</u>
1479830	UJ4502-D06	RA Duct At NW Of MPR	481000.0000 Structures/cm2	Chrysotile
1479831	UJ4502-D07	Fan Housing Supply Side	49300.0000 Structures/cm2	Chrysotile
1479832	UJ4502-D08	AHU-3; MPR Supply Downstream Of Heat	185000.0000 Structures/cm2	Chrysotile
1479833	UJ4502-D09	RA & OA Mix Pleenum Gym Unit	4930.0000 Structures/cm2	Chrysotile

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Member AIHA Analysts Registry AIHA Lab No. 444 NIST-NVLAP No. 1165 EHS - ALASKA, INC. NYS DOH No. 11021

Methodology: ASTM D5755-95 Standard Test Method For Microvacuum Sampling And Indirect Analysis
Of Settled Dust By TEM For Asbestos

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Comments: TEM settled dust results are dependent on several factors including sampling technique. IATL can supply references that may aid in the interpretation of these results.

Analysis Performed By:


Craig A. Lisks, AIHA-AAP 4881

Date: APR 10 2002

Approved By:


Frank H. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

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10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/22/2002
Project: ASD;URSA;MajorDustyDucts;4-5-02
Project No.: 5679-01

TEM DUST SAMPLE ANALYSIS SUMMARY

<u>Lab No</u>	<u>Client No.</u>	<u>Location</u>	<u>Result</u>	<u>Asbestos Types</u>
1479834	UJ4502-D10	Gym Unit Supply At Fan	22200.0000 Structures/cm2	Chrysotile
1479835	UJ4502-D11	Art Room AHU RA Upstream Of Filters	9870.0000 Structures/cm2	Chrysotile
1479836	UJ4502-D12	Art Room AHU Supply At Fan	59200.0000 Structures/cm2	Chrysotile

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EHS - ALASKA, INC.

Member AIHA Analysts Registry AIHA Lab No. 444 NIST-NVLAP No. 1165 NYS-DOH No. 11021

**Methodology: ASTM D5755-95 Standard Test Method For Microvacuum Sampling And Indirect Analysis
Of Settled Dust By TEM For Asbestos**

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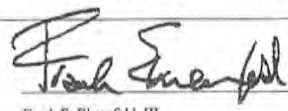
Comments: TEM settled dust results are dependent on several factors including sampling technique. IATL can supply references that may aid in the interpretation of these results.

Analysis Performed By:


Craig A. Liske, AIHA-AAR 4881

Date: APR 10 2002

Approved By:


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Laboratory Director

IATL International Asbestos
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Transmission Electron Microscopy - Sample Data

Client:	EHS Alaska Incorporated 10928 Eagle River Rd., Ste 202 Eagle River AK 99577	Report Date:	04/24/2002
		Project:	ASD;URSA;MajorDustyDucts;4-5-02
		Project No.:	5679-01

IATL No.:	1479825	Description / Location:	CUV In Cr 165
Client Sample No.:	UJ4502-D01		

Area Sampled:	100.0 cm2
Volume Filtered:	0.5 Milliliters
Dilution Factor:	50.0 Milliliters
Filter:	MCE
Filter Size:	962 mm2
Pore Size:	0.45 um

ANALYSIS RESULTS

Grid Openings:	10
Opening Area:	0.013 mm2
Area Analyzed:	0.130 mm2
Detection Limit:	7400.0000 Structures/cm2
Sensitivity:	7.7 Structures/mm2

ASBESTOS STRUCTURES:

	None Detected
< 5 Microns:	None Detected
>= 5 Microns:	None Detected
Concentration:	<7400.0 Structures/cm2
Fibers/Area:	<7.7 Structures/mm2
Types Identified:	None Detected

NON-ASBESTOS STRUCT:

	4
Concentration:	29600.0000 Structures/cm2
Fibers/Area:	30.8 Structures/mm2
Types Identified:	Silica (Si) Silicate (Si,Ca,Fe)

Micrograph No.:

X-Ray Spectrum No.:

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EHS - ALASKA, INC.

Methodology: ASTM D5755-95 Standard Test Method For Microvacuum Sampling And Indirect Analysis Of Settled Dust By TEM For Asbestos

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Analysis Performed By:

Craig A. Liska, AIAA-AAR 4881

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

Date:

APR 10 2002

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Transmission Electron Microscopy - Sample Data

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/24/2002
Project: ASD;URSA;MajorDustyDucts;4-5-02
Project No.: 5679-01

IATL No.: 1479826
Client Sample No.: UJ4502-D02

Description / Location: CUV, Fan Housing
Cr #223

Area Sampled: 100.0 cm2
Volume Filtered: 0.5 Milliliters
Dilution Factor: 50.0 Milliliters
Filter: MCE
Filter Size: 962 mm2
Pore Size: 0.45 um

ANALYSIS RESULTS

Grid Openings: 10
Opening Area: 0.013 mm2
Area Analyzed: 0.130 mm2
Detection Limit: 7400.0000 Structures/cm2
Sensitivity: 7.7 Structures/mm2

ASBESTOS STRUCTURES:

None Detected
< 5 Microns: None Detected
≥ 5 Microns: None Detected
Concentration: <7400.0 Structures/cm2
Fibers/Area: <7.7 Structures/mm2
Types Identified: None Detected

NON-ASBESTOS STRUCT:

None Detected
Concentration: <7400.0 Structures/cm2
Fibers/Area: <7.7 Structures/mm2
Types Identified: None Detected

Micrograph No.:
X-Ray Spectrum No.:

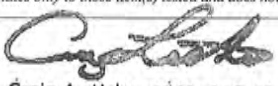
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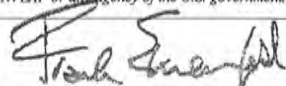
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EHS - ALASKA, INC.

Methodology: ASTM D5755-95 Standard Test Method For Microvacuum Sampling And Indirect Analysis Of Settled Dust By TEM For Asbestos

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Analysis Performed By: 
Craig A. Liska, AIA-AAR 4881

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

Date: APR 10 2002

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Transmission Electron Microscopy - Sample Data

Client:	EHS Alaska Incorporated 10928 Eagle River Rd., Ste 202 Eagle River AK 99577	Report Date:	04/24/2002
		Project:	ASD;URSA;MajorDustyDucts;4-5-02
		Project No.:	5679-01

IATL No.:	1479827	Description / Location:	Exhaust Duct From
Client Sample No.:	UJ4502-D03		Cr #228

Area Sampled:	100.0 cm2
Volume Filtered:	0.8 Milliliters
Dilution Factor:	50.0 Milliliters
Filter:	MCE
Filter Size:	962 mm2
Pore Size:	0.45 um

ANALYSIS RESULTS

Grid Openings:	10
Opening Area:	0.013 mm2
Area Analyzed:	0.130 mm2
Detection Limit:	4930.0000 Structures/cm2
Sensitivity:	7.7 Structures/mm2

ASBESTOS STRUCTURES:

	None Detected
< 5 Microns:	None Detected
>= 5 Microns:	None Detected
Concentration:	<4930.0 Structures/cm2
Fibers/Area:	<7.7 Structures/mm2
Types Identified:	None Detected

NON-ASBESTOS STRUCT:

	2
Concentration:	9870.0000 Structures/cm2
Fibers/Area:	15.4 Structures/mm2
Types Identified:	Silica (Si)

Micrograph No.:
X-Ray Spectrum No.:

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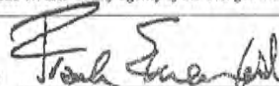
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Analysis Performed By:


Craig A. Liska, AIAA-AAR 4861

Approved By:


Frank E. Ehrenfeld, III
Laboratory Director

Date:

APR 10 2002

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Testing Laboratories

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Transmission Electron Microscopy - Sample Data

Client:	EHS Alaska Incorporated 10928 Eagle River Rd., Ste 202 Eagle River AK 99577	Report Date:	04/23/2002
		Project:	ASD;URSA;MajorDustyDucts;4-5-02
		Project No.:	5679-01

IATL No.:	1479828	Description / Location:	Return Air Duct On
Client Sample No.:	UJ4502-D04		N. Side Of IMC

Area Sampled:	100.0 cm2
Volume Filtered:	0.5 Milliliters
Dilution Factor:	50.0 Milliliters
Filter:	MCE
Filter Size:	962 mm2
Pore Size:	0.45 um

ANALYSIS RESULTS

Grid Openings:	10
Opening Area:	0.013 mm2
Area Analyzed:	0.130 mm2
Detection Limit:	7400.0000 Structures/cm2
Sensitivity:	7.7 Structures/mm2

ASBESTOS STRUCTURES:

	3
< 5 Microns:	3
>= 5 Microns:	None Detected
Concentration:	22200.0000 Structures/cm2
Fibers/Area:	23.100 Structures/mm2
Types Identified:	Chrysotile Actinolite

NON-ASBESTOS STRUCT:

	4
Concentration:	29600.0000 Structures/cm2
Fibers/Area:	30.8 Structures/mm2
Types Identified:	Silica (Si) Kaolin-Clay (Si,Al)

Micrograph No.:
X-Ray Spectrum No.:

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EHS - ALASKA, INC.

Methodology: ASTM D5755-95 Standard Test Method For Microvacuum Sampling And Indirect Analysis Of Settled Dust By TEM For Asbestos
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Analysis Performed By:

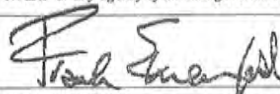


Craig A. Ulska, AIHA-AAR 4881

Date:

APR 10 2002

Approved By:



Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos
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Transmission Electron Microscopy - Sample Data

Client:	EHS Alaska Incorporated 10928 Eagle River Rd., Ste 202 Eagle River AK 99577	Report Date:	04/22/2002
		Project:	ASD;URSA;MajorDustyDucts;4-5-02
		Project No.:	5679-01

IATL No.:	1479829	Description / Location:	Last Supply Duct
Client Sample No.:	UJ4502-D05		At NW Of IMC

Area Sampled:	100.0 cm2
Volume Filtered:	0.8 Milliliters
Dilution Factor:	50.0 Milliliters
Filter:	MCE
Filter Size:	962 mm2
Pore Size:	0.45 um

ANALYSIS RESULTS

Grid Openings:	10
Opening Area:	0.013 mm2
Area Analyzed:	0.130 mm2
Detection Limit:	4933.0000 Structures/cm2
Sensitivity:	7.7 Structures/mm2

ASBESTOS STRUCTURES:

	3
< 5 Microns:	3
>= 5 Microns:	None Detected
Concentration:	14800.0000 Structures/cm2
Fibers/Area:	23.100 Structures/mm2
Types Identified:	Chrysotile

NON-ASBESTOS STRUCT:

	4
Concentration:	19700.0000 Structures/cm2
Fibers/Area:	30.8 Structures/mm2
Types Identified:	Silica (Si) Titanium

Micrograph No.:
X-Ray Spectrum No.:

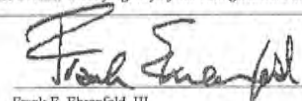
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Analysis Performed By:


Craig A. Liska, AIAA-AAR 4801

Approved By:


Frank E. Ehrenfeld, III
Laboratory Director

Date: APR 16 2002

IATL International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/22/2002
Project: ASD;URSA;MajorDustyDucts;4-5-02
Project No.: 5679-01

IATL No.: 1479830
Client Sample No.: UJ4502-D06

Description / Location: RA Duct At NW
Of MPR

Area Sampled: 100.0 cm²
Volume Filtered: 0.3 Milliliters
Dilution Factor: 50.0 Milliliters
Filter: MCE
Filter Size: 962 mm²
Pore Size: 0.45 um

ANALYSIS RESULTS

Grid Openings: 4
Opening Area: 0.013 mm²
Area Analyzed: 0.052 mm²
Detection Limit: 37000.0000 Structures/cm²
Sensitivity: 19.2 Structures/mm²

ASBESTOS STRUCTURES:

13
< 5 Microns: 12
>= 5 Microns: 1
Concentration: 481000.0000 Structures/cm²
Fibers/Area: 250.000 Structures/mm²
Types Identified: Chrysotile

NON-ASBESTOS STRUCT:

66
Concentration: 244000.0000 Structures/cm²
Fibers/Area: 1270.0 Structures/mm²
Types Identified: Silica (Si)
Titanium

Micrograph No.:
X-Ray Spectrum No.:

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Analysis Performed By:

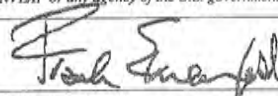


Craig A. Liska, AIHA-AAR 4861

Date:

APR 10 2002

Approved By:



Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos
Testing Laboratories

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Telephone: 856-231-9449 Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client:	EHS Alaska Incorporated 10928 Eagle River Rd., Ste 202 Eagle River AK 99577	Report Date:	04/22/2002
		Project:	ASD;URSA;MajorDustyDucts;4-5-02
		Project No.:	5679-01

IATL No.:	1479831	Description / Location:	Fan Housing
Client Sample No.:	UJ4502-D07		Supply Side

Area Sampled:	100.0 cm ²
Volume Filtered:	0.8 Milliliters
Dilution Factor:	50.0 Milliliters
Filter:	MCE
Filter Size:	962 mm ²
Pore Size:	0.45 um

ANALYSIS RESULTS

Grid Openings:	4
Opening Area:	0.013 mm ²
Area Analyzed:	0.052 mm ²
Detection Limit:	12300.0000 Structures/cm ²
Sensitivity:	19.2 Structures/mm ²

ASBESTOS STRUCTURES:

	4
< 5 Microns:	4
>= 5 Microns:	None Detected
Concentration:	49300.0000 Structures/cm ²
Fibers/Area:	76.900 Structures/mm ²
Types Identified:	Chrysotile

NON-ASBESTOS STRUCT:

	9
Concentration:	111000.0000 Structures/cm ²
Fibers/Area:	173.0 Structures/mm ²
Types Identified:	Silica (Si) Kaolin-Clay (Si,Al)

Micrograph No.:
X-Ray Spectrum No.:

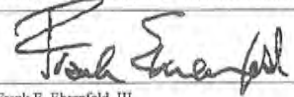
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Analysis Performed By: 
Craig A. Uska, AIAA-AAR 4801

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

Date: APR 10 2002

IATL International Asbestos
Testing Laboratories

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Transmission Electron Microscopy - Sample Data

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/22/2002
Project: ASD;URSA;MajorDustyDucts;4-5-02
Project No.: 5679-01

IATL No.: 1479832
Client Sample No.: UJ4502-D08

Description / Location: AHU-3; MPR Supply
Downstream Of Heat

Area Sampled: 100.0 cm²
Volume Filtered: 0.3 Milliliters
Dilution Factor: 50.0 Milliliters
Filter: MCE
Filter Size: 962 mm²
Pore Size: 0.45 um

ANALYSIS RESULTS

Grid Openings: 4
Opening Area: 0.013 mm²
Area Analyzed: 0.052 mm²
Detection Limit: 37000.0000 Structures/cm²
Sensitivity: 19.2 Structures/mm²

ASBESTOS STRUCTURES:

5
< 5 Microns: 5
>= 5 Microns: None Detected
Concentration: 185000.0000 Structures/cm²
Fibers/Area: 96.200 Structures/mm²
Types Identified: Chrysotile

NON-ASBESTOS STRUCT:

10
Concentration: 370000.0000 Structures/cm²
Fibers/Area: 192.0 Structures/mm²
Types Identified: Kaolin-Clay (Si,Al)
Silica (Si)

Micrograph No.:
X-Ray Spectrum No.:

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Analysis Performed By:

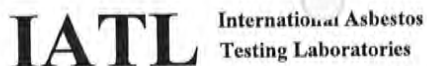

Craig A. Uskin, AIAA-AAR 4861

Date:

APR 10 2002

Approved By:


Frank E. Ehrenfeld, III
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Telephone: 856-231-9449 Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/22/2002
Project: ASD;URSA;MajorDustyDucts;4-5-02
Project No.: 5679-01

IATL No.: 1479833
Client Sample No.: UJ4502-D09

Description / Location: RA & OA Mix Pleunum
Gym Unit

Area Sampled: 100.0 cm2
Volume Filtered: 1.5 Milliliters
Dilution Factor: 50.0 Milliliters
Filter: MCE
Filter Size: 962 mm2
Pore Size: 0.45 um

ANALYSIS RESULTS

Grid Openings: 10
Opening Area: 0.013 mm2
Area Analyzed: 0.130 mm2
Detection Limit: 2470.0000 Structures/cm2
Sensitivity: 7.7 Structures/mm2

ASBESTOS STRUCTURES:

2
< 5 Microns: 2
≥ 5 Microns: None Detected
Concentration: 4930.0000 Structures/cm2
Fibers/Area: 15.400 Structures/mm2
Types Identified: Chrysotile

NON-ASBESTOS STRUCT:

2
Concentration: 4930.0000 Structures/cm2
Fibers/Area: 15.4 Structures/mm2
Types Identified: Silica (Si)
Kaolin-Clay (Si,Al)

Micrograph No.:

X-Ray Spectrum No.:

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EHS - ALASKA, INC.

Methodology: ASTM D5755-95 Standard Test Method For Microvacuum Sampling And Indirect Anaysis Of Settled Dust By TEM For Asbestos

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NPL or any agency of the U.S. government.

Analysis Performed By:

Craig A. Lisk, AIAA-AAR 4981

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

Date:

APR 10 2002

IATL International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/22/2002
Project: ASD;URSA;MajorDustyDucts;4-5-02
Project No.: 5679-01

IATL No.: 1479834
Client Sample No.: UJ4502-D10

Description / Location: Gym Unit
Supply At Fan

Area Sampled: 100.0 cm2
Volume Filtered: 0.5 Milliliters
Dilution Factor: 50.0 Milliliters
Filter: MCE
Filter Size: 962 mm2
Pore Size: 0.45 um

ANALYSIS RESULTS

Grid Openings: 10
Opening Area: 0.013 mm2
Area Analyzed: 0.130 mm2
Detection Limit: 7400.0000 Structures/cm2
Sensitivity: 7.7 Structures/mm2

ASBESTOS STRUCTURES:

3
< 5 Microns: 3
>= 5 Microns: None Detected
Concentration: 22200.0000 Structures/cm2
Fibers/Area: 23.100 Structures/mm2
Types Identified: Chrysotile

NON-ASBESTOS STRUCT:

8
Concentration: 59200.0000 Structures/cm2
Fibers/Area: 61.5 Structures/mm2
Types Identified: Silica (Si)
Kaolin-Clay (Si,Al)

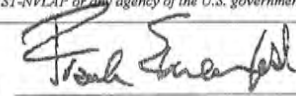
Micrograph No.:
X-Ray Spectrum No.:

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MAY 02 2002

EHS - ALASKA, INC.

Methodology: ASTM D5755-95 Standard Test Method For Microvacuum Sampling And Indirect Analysis Of Settled Dust By TEM For Asbestos
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Analysis Performed By: 
Craig A. Lisk, AIAA-AAR 4887
Date: APR 10 2002

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client:	EHS Alaska Incorporated 10928 Eagle River Rd., Ste 202 Eagle River AK 99577	Report Date:	04/22/2002
		Project:	ASD;URSA;MajorDustyDucts;4-5-02
		Project No.:	5679-01

IATL No.:	1479835	Description / Location:	Art Room AHU
Client Sample No.:	UJ4502-D11		RA Upstream Of Filters

Area Sampled:	100.0 cm2
Volume Filtered:	0.8 Milliliters
Dilution Factor:	50.0 Milliliters
Filter:	MCE
Filter Size:	962 mm2
Pore Size:	0.45 um

ANALYSIS RESULTS

Grid Openings:	10
Opening Area:	0.013 mm2
Area Analyzed:	0.130 mm2
Detection Limit:	4930.0000 Structures/cm2
Sensitivity:	7.7 Structures/mm2

ASBESTOS STRUCTURES:

	2
< 5 Microns:	2
>= 5 Microns:	None Detected
Concentration:	9870.0000 Structures/cm2
Fibers/Area:	15.400 Structures/mm2
Types Identified:	Chrysotile

NON-ASBESTOS STRUCT:

	3
Concentration:	14800.0000 Structures/cm2
Fibers/Area:	23.1 Structures/mm2
Types Identified:	Silica (Si)

Micrograph No.:
X-Ray Spectrum No.:

RECEIVED

MAY 02 2002

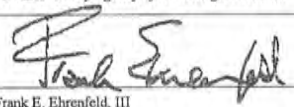
EHS - ALASKA, INC.

Methodology: ASTM D5755-95 Standard Test Method For Microvacuum Sampling And Indirect Analysis Of Settled Dust By TEM For Asbestos

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Analysis Performed By: 
Craig A. Uske, AIAA-AAR 4801

Date: APR 10 2002

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client: EHS Alaska Incorporated
10928 Eagle River Rd., Ste 202
Eagle River AK 99577

Report Date: 04/22/2002
Project: ASD;URSA;MajorDustyDucts;4-5-02
Project No.: 5679-01

IATL No.: 1479836
Client Sample No.: UJ4502-D12

Description / Location: Art Room AHU
Supply At Fan

Area Sampled: 100.0 cm2
Volume Filtered: 0.5 Milliliters
Dilution Factor: 50.0 Milliliters
Filter: MCE
Filter Size: 962 mm2
Pore Size: 0.45 um

ANALYSIS RESULTS

Grid Openings: 5
Opening Area: 0.013 mm2
Area Analyzed: 0.065 mm2
Detection Limit: 14800.0000 Structures/cm2
Sensitivity: 15.4 Structures/mm2

ASBESTOS STRUCTURES:

4
< 5 Microns: 4
≥ 5 Microns: None Detected
Concentration: 59200.0000 Structures/cm2
Fibers/Area: 61.500 Structures/mm2
Types Identified: Chrysotile

NON-ASBESTOS STRUCT:

4
Concentration: 59200.0000 Structures/cm2
Fibers/Area: 61.5 Structures/mm2
Types Identified: Silica (Si)
Kaolin-Clay (Si,Al)

Micrograph No.:
X-Ray Spectrum No.:

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MAY 02 2002

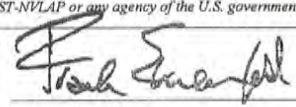
EHS - ALASKA, INC.

Methodology: ASTM D5755-95 Standard Test Method For Microvacuum Sampling And Indirect Analysis Of Settled Dust By TEM For Asbestos

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Analysis Performed By: 
Craig A. Liska, AIHA-AAR 4861

Date: APR 10 2002

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director



EHS ALASKA
INCORPORATED

EHS-Alaska, Inc.

11901 Business Blvd., Suite 208, Eagle River, AK 99577-7701
(907) 694-1383 • (907) 694-1382 fax
e-mail • ehsak@ehs-alaska.com

CHAIN OF CUSTODY RECORD/FIELD SURVEY DATA			
FIELD COLLECTION DATE: 11-05--04		JOB #: 6141-01	MATERIAL TYPE ASBESTOS
PROJECT NAME: Ursa Major Window Replacement		TOTAL QUANTITIES: 3	
FACILITY: Ursa Major Elementary School		DISPOSAL: Normal	
TURNAROUND: 5 days		BULK ANALYSIS REQUESTED: ☐ PLM ☒ TEM DUST ☐ TEM BULK ☐ LEAD TCLP ☐ LEAD PPM	
SPECIAL INSTRUCTIONS:			
COLLECTED BY (signature) David DeMay PRINTED NAME T-9144-7551 CERT# AHERA# Federal Express SHIPPING METHOD 7921 393 4380 COURIER (signature) 11-8-04 12:00pm DATE/TIME		IATL SELECTED LABORATORY SAMPLES ACCEPTED BY DATE/TIME ANALYST'S SIGNATURE DATE 11-16-04 COMMENTS: Analyze by ASTM D5756 for weight percentage of asbestos. Asbestos Structures cm ² of Area and % Asbestos by weight NOV - 9 10:05 11-18-04	
SAMPLE ID	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS
UM1104-D1 2110045	Microvac Dust, 10cm x 10cm	Room 118, on light fixture in NE corner of office	34,000 sf/cm ² 0.00077%
UM1104-D2 2110046	Microvac Dust, 10cm x 10cm	Room 170, on light fixture on South end of room	31,000 sf/cm ² 0.014%
UM1104-D3 2110047	Microvac Dust, 10cm x 10cm	Room 207, on top of fresh air intake	180,000 sf/cm ² 0.0017%

****RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA**** HS-975



16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Suite 208
Eagle River AK 99577

RECEIVED
NOV 22 2004

Report Date: 11/16/2004
Project: Ursa Major Elementary School
Project No.: 6141-01

EHS-ALASKA, INC.

TEM DUST SAMPLE ANALYSIS SUMMARY

Lab No.	Client No.	Location	Result	Asbestos Types
2110045	UM1104-D1	Room 118 On Light Fixture NE Corner Of Office	34000.0 Structures/cm ²	Chrysotile
2110046	UM1104-D2	Room 170 On Light Fixture South End Of Room	31000.0 Structures/cm ²	Chrysotile
2110047	UM1104-D3	Room 270 Top Of Fresh Air Intake	180000.0 Structures/cm ²	Chrysotile

NIST-NVLAP No. 101165-0

AIHA Lab No. 100188

NYS-DOH No. 11021

Methodology: ASTM D5755-95 Standard Test Method For Microvacuum Sampling And Indirect Analysis of Settled Dust By TEM For Asbestos

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IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.

Method requires submittal of blanks for analysis.

Comments: TEM settled dust results are dependent upon several factors including sampling technique. IATL can supply references that may aid in the interpretation of these results.

Analysis Performed By: C. Liska

Approved By:

Date: 11/16/2004

Page 1 of 1

Frank E. Ehrenfeld, III
Laboratory Director



International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client: EHS Alaska Incorporated
11901 Business Blvd., Suite 208
Eagle River AK 99577

Report Date: 11/16/2004
Project: Ursa Major Elementary School
Project No.: 6141-01

IATL No.: 2110045
Client Sample No.: UM1104-D1

Description/ Location: Room 118
On Light Fixture
NE Corner Of Office

Area Sampled: 100.0 cm²
Volume Filtered: 3.00 Milliliters
Dilution Factor: 50.0 Milliliters
Filter: MCE
Filter Size: 962 mm²
Pore Size: 0.45 µm

ANALYSIS RESULTS:

Grid Openings: 4
Opening Area: 0.013 mm²
Area Analyzed: 0.052 mm²
Detection Limit: 3083.0 Structures/cm²
Sensitivity: 19.2 Structures/mm²

ASBESTOS STRUCTURES: 11
< 5 Microns: 11
> = 5 Microns: None Detected
Concentration: 34000.0 Structures/cm²
Fibers/Area: 211.000 Structures/mm²
Types Identified: Chrysotile
Type 2:
Type 3:

NON-ASBESTOS STRUCTURES: 13
Concentration: 40000.0 Structures/cm²
Fibers/Area: 250.0 Structures/mm²
Types Identified: Kaolin-Clay (Si,Al)
Type 2:
Type 3:
Type 4:

Micrograph Number:
X-Ray Spectrum Number: 11:23:02

Methodology: ASTM D5755-95 Standard Test Method For Microvacuum Sampling And Indirect Analysis of Settled Dust By TEM For Asbestos

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Method requires submittal of blanks for analysis.*

Analysis Performed By: C. Liska

Date: 11/16/2004

Page 1 of 3



International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client: EHS Alaska Incorporated
11901 Business Blvd., Suite 208
Eagle River AK 99577

Report Date: 11/16/2004
Project: Ursa Major Elementary School
Project No.: 6141-01

IATL No.: 2110046
Client Sample No.: UM1104-D2

Description/ Location: Room 170
On Light Fixture
South End Of Room

Area Sampled: 100.0 cm²
Volume Filtered: 5.00 Milliliters
Dilution Factor: 50.0 Milliliters
Filter: MCE
Filter Size: 962 mm²
Pore Size: 0.45 µm

ANALYSIS RESULTS:

Grid Openings: 4
Opening Area: 0.013 mm²
Area Analyzed: 0.052 mm²
Detection Limit: 1850.0 Structures/cm²
Sensitivity: 19.2 Structures/mm²

ASBESTOS STRUCTURES: 17
< 5 Microns: 16
≥ 5 Microns: 1
Concentration: 31000.0 Structures/cm²
Fibers/Area: 326.000 Structures/mm²
Types Identified: Chrysotile
Type 2:
Type 3:

NON-ASBESTOS STRUCTURES: 2
Concentration: 3700.0 Structures/cm²
Fibers/Area: 38.4 Structures/mm²
Types Identified: Kaolin-Clay (Si,Al)
Type 2: Silicate (Si,Ca,Fe)
Type 3:
Type 4:

Micrograph Number: 1415
X-Ray Spectrum Number: 08:40:44

Methodology: ASTM D5755-95 Standard Test Method For Microvacuum Sampling And Indirect Analysis of Settled Dust By TEM For Asbestos

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Method requires submittal of blanks for analysis.*

Analysis Performed By: C. Liska

Date: 11/16/2004



International Asbestos
Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client: EHS Alaska Incorporated
11901 Business Blvd., Suite 208
Eagle River AK 99577

Report Date: 11/16/2004
Project: Ursa Major Elementary School
Project No.: 6141-01

IATL No.: 2110047

Description/ Location: Room 270
TopOfFreshAirIntake

Client Sample No.: UM1104-D3

Area Sampled: 100.0 cm²
Volume Filtered: 2.00 Milliliters
Dilution Factor: 50.0 Milliliters
Filter: MCE
Filter Size: 962 mm²
Pore Size: 0.45 µm

ANALYSIS RESULTS:

Grid Openings: 4
Opening Area: 0.013 mm²
Area Analyzed: 0.052 mm²
Detection Limit: 4630.0 Structures/cm²
Sensitivity: 19.2 Structures/mm²

ASBESTOS STRUCTURES: 38
< 5 Microns: 37
> = 5 Microns: 1
Concentration: 180000.0 Structures/cm²
Fibers/Area: 730.000 Structures/mm²
Types Identified: Chrysotile
Type 2:
Type 3:

NON-ASBESTOS STRUCTURES: 6
Concentration: 28000.0 Structures/cm²
Fibers/Area: 115.0 Structures/mm²
Types Identified: Kaolin-Clay (Si,Al)
Type 2:
Type 3:
Type 4:

Micrograph Number:
X-Ray Spectrum Number:

Methodology: ASTM D5755-95 Standard Test Method For Microvacuum Sampling And Indirect Analysis of Settled Dust By TEM For Asbestos

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IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.
Method requires submittal of blanks for analysis.*

Analysis Performed By: C. Liska

Date: 11/16/2004



International Asbestos
Testing Laboratories

16002 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

TEM Settled Dust / Microvac (mass/area) by ASTM D5756

Client Name: EHS Alaska
Project: Ursa Major Window Replacement

IATL Sample Number: 2110045
Client Sample Number: UM1104-D1

Area Sampled X (cm) =	10	Vessel Size (ml) =	50
Area Sampled Y(cm) =	10	Aliquot / Dilution (ml) =	3
Total Area Sampled (cm ²) =	100	Final Indirect Filter Area (mm ²) =	962
		Filter Fraction Ashed (%) =	100
Grid Opening Size (mm) =	0.013	Tare (g) =	4.3688
Number of Openings Analyzed =	4	Initial (g) =	4.4936
Area Analyzed (mm ²) =	0.052	Ashed (g) =	4.4018
		PreAsh Mass (g) =	0.1248
Analytical Sensitivity (mm ²) =	19.2	PostAsh Mass (g) =	0.0918
		Surviving Ashing (%) =	73.6
Min Detection Limit (s/cm ²) =	3083	Initial W1 (g) =	7.2192
Min Detection Limit (g/cm ²) =	3.08E-13	Deposition / Suspension W2 (g) =	7.2561
Min Detection Limit (%weight) =	8.36E-08	PostDepo/Susp Mass (g) =	0.0369

Asbestos Structures (s/mm²) = 211.0
Asbestos Structures (s/cm²) = 34,000

Asbestos Mass Conc (g/cm²) = 2.8E-09
Asbestos (%weight) = 7.7E-04

Totals:
Structures Analyzed =

11

Asbestos Mass (g) = 9.18E-11

Structure Number	ID	Asb ID	L(um)	W(um)	Mass (g)
1	F	Chr	1.0	0.05	5.0069E-15
2	B	Chr	1.0	0.09	1.6222E-14
3	M	Chr	2.5	0.15	1.1266E-13
4	F	Chr	1.2	0.09	1.9467E-14
5	B	Chr	2.5	0.15	1.1266E-13
6	B	Chr	2.5	0.10	5.0069E-14
7	F	Chr	1.7	0.05	8.5118E-15
8	M	Chr	2.5	2.50	3.1293E-11
9	M	Chr	3.0	3.00	5.4075E-11
10	M	Chr	3.0	1.00	6.0083E-12
11	B	Chr	3.5	0.12	1.0094E-13



16002 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

TEM Settled Dust / Microvac (mass/area) by ASTM D5756

Client Name: EHS Alaska
Project: Ursa Major Window Replacement
IATL Sample Number: 2110046
Client Sample Number: UM1104-D2

Area Sampled X (cm) =	10	Vessel Size (ml) =	50
Area Sampled Y(cm) =	10	Aliquot / Dilution (ml) =	5
Total Area Sampled (cm ²) =	100	Final Indirect Filter Area (mm ²) =	962
		Filter Fraction Ashed (%) =	100
Grid Opening Size (mm) =	0.013	Tare (g) =	4.9041
Number of Openings Analyzed =	4	Initial (g) =	5.0042
Area Analyzed (mm ²) =	0.052	Ashed (g) =	4.9119
		PreAsh Mass (g) =	0.1001
Analytical Sensitivity (mm ²) =	19.2	PostAsh Mass (g) =	0.0923
		Surviving Ashing (%) =	92.2
Min Detection Limit (s/cm ²) =	1850	Initial W1 (g) =	7.1938
Min Detection Limit (g/cm ²) =	1.85E-13	Deposition / Suspension W2 (g) =	7.2012
Min Detection Limit (%weight) =	2.50E-07	PostDepo/Susp Mass (g) =	0.0074

Asbestos Structures (s/mm²) = 326.0
Asbestos Structures (s/cm²) = 31,000
Asbestos Mass Conc (g/cm²) = 1.0E-08
Asbestos (%weight) = 1.4E-02

Totals:
Structures Analyzed = 17
Asbestos Mass (g) = 5.67E-10

Structure Number	ID	Asb ID	L(um)	W(um)	Mass (g)
1	F	Chr	1.5	0.15	6.7593E-14
2	B	Chr	0.8	0.05	4.0055E-15
3	F	Chr	2.1	0.09	3.4067E-14
4	F	Chr	2.3	5.00	1.1516E-10
5	F	Chr	0.8	0.09	1.2978E-14
6	F	Chr	1.6	0.05	8.0111E-15
7	B	Chr	1.0	0.20	8.0111E-14
8	B	Chr	2.6	0.08	3.3326E-14
9	M	Chr	5.0	4.50	2.0278E-10
10	M	Chr	2.6	0.25	3.2545E-13
11	F	Chr	2.0	0.09	3.2445E-14
12	M	Chr	6.0	4.50	2.4334E-10
13	F	Chr	0.9	0.06	6.4890E-15
14	F	Chr	1.6	0.05	8.0111E-15
15	M	Chr	3.0	0.90	4.8667E-12
16	B	Chr	3.5	0.25	4.3811E-13
17	B	Chr	4.1	0.09	6.6512E-14



16002 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

TEM Settled Dust / Microvac (mass/area) by ASTM D5756

Client Name: EHS Alaska
Project: Ursa Major Window Replacement
IATL Sample Number: 2110047
Client Sample Number: UM1104-D3

Area Sampled X (cm) =	10	Vessel Size (ml) =	50
Area Sampled Y(cm) =	10	Aliquot / Dilution (ml) =	2
Total Area Sampled (cm ²) =	100	Final Indirect Filter Area (mm ²) =	962
		Filter Fraction Ashed (%) =	100
Grid Opening Size (mm) =	0.013	Tare (g) =	4.3392
Number of Openings Analyzed =	4	Initial (g) =	4.5323
Area Analyzed (mm ²) =	0.052	Ashed (g) =	4.4162
		PreAsh Mass (g) =	0.1931
Analytical Sensitivity (mm ²) =	19.2	PostAsh Mass (g) =	0.1161
		Surviving Ashing (%) =	60.1
Min Detection Limit (s/cm ²) =	4625	Initial W1 (g) =	7.1829
Min Detection Limit (g/cm ²) =	4.63E-13	Deposition / Suspension W2 (g) =	7.2864
Min Detection Limit (%weight) =	4.47E-08	PostDepo/Susp Mass (g) =	0.1035

Asbestos Structures (s/mm²) = 730.0
Asbestos Structures (s/cm²) = 180,000
Asbestos Mass Conc (g/cm²) = 1.7E-08
Asbestos (%weight) = 1.7E-03

Totals:
Structures Analyzed = 38
Asbestos Mass (g) = 3.74E-10

Structure Number	ID	Asb ID	L(um)	W(um)	Mass (g)
1	M	Chr	1.6	0.30	2.8840E-13
2	F	Chr	1.0	0.05	5.0069E-15
3	F	Chr	0.9	0.06	6.4890E-15
4	F	Chr	1.2	0.05	6.0083E-15
5	F	Chr	1.6	0.06	1.1536E-14
6	M	Chr	9.0	4.00	2.8840E-10
7	B	Chr	1.2	0.10	2.4033E-14
8	M	Chr	3.0	2.00	2.4033E-11
9	F	Chr	0.9	0.06	6.4890E-15
10	F	Chr	1.1	0.06	7.9310E-15
11	F	Chr	0.6	0.05	3.0042E-15
12	M	Chr	4.5	2.00	3.6050E-11
13	F	Chr	0.6	0.09	9.7335E-15
14	F	Chr	2.0	0.09	3.2445E-14
15	F	Chr	0.6	0.05	3.0042E-15
16	B	Chr	0.8	0.09	1.2167E-14
17	M	Chr	2.5	0.25	3.1293E-13
18	F	Chr	1.5	0.05	7.5104E-15
19	B	Chr	2.0	0.10	4.0055E-14
20	F	Chr	1.5	0.09	2.4334E-14

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00

Structure Number	ID	Asb ID	L(um)	W(um)	Mass (g)
21	F	Chr	1.6	0.09	2.5956E-14
22	B	Chr	4.4	0.25	5.5076E-13
23	B	Chr	1.0	0.15	4.5062E-14
24	M	Chr	1.5	1.00	3.0042E-12
25	F	Chr	1.1	0.05	5.5076E-15
26	B	Chr	1.0	0.10	2.0028E-14
27	F	Chr	0.5	0.10	1.0014E-14
28	B	Chr	4.5	0.15	2.0278E-13
29	F	Chr	1.0	0.09	1.6222E-14
30	F	Chr	1.0	0.06	7.2100E-15
31	B	Chr	2.0	0.15	9.0125E-14
32	F	Chr	1.7	0.06	1.2257E-14
33	F	Chr	1.0	0.05	5.0069E-15
34	B	Chr	3.0	0.10	6.0083E-14
35	F	Chr	1.0	0.05	5.0069E-15
36	B	Chr	2.5	0.10	5.0069E-14
37	M	Chr	4.5	1.50	2.0278E-11
38	B	Chr	1.6	0.10	3.2044E-14

APPENDIX C

Lead Dust Sample Field Survey Data Sheets and Laboratory Reports



EHS ALASKA
INCORPORATED

EHS-Alaska, Inc.

11901 Business Blvd., Suite 208, Eagle River, AK 99577-7701
(907) 694-1383 • (907) 694-1382 fax
e-mail • ehsak@ehs-alaska.com

FAKED
11.16.04

CHAIN OF CUSTODY RECORD/FIELD SURVEY DATA			
FIELD COLLECTION DATE: 11-05-04		JOB #: 6141-01	MATERIAL TYPE Lead
PROJECT NAME: Ursa Major Window Replacement		TOTAL QUANTITIES: 4	
BULK ANALYSIS REQUESTED:		☐ PLM ☐ PLM DUST ☐ TEM BULK ☐ LEAD TCLP ☒ LEAD WIPE	
FACILITY: Ursa Major Elementary School		DISPOSAL: Normal	TURNAROUND: 3-5 days
SPECIAL INSTRUCTIONS:			
COLLECTED BY (signature) David DeMay PRINTED NAME T-9144-7551 CERT# AHERA# Federal Express SHIPPING METHOD 7921 3193 4380 COURIER (signature) 11-5-04 12:00pm DATE/TIME		IATL SELECTED LABORATORY SAMPLES ACCEPTED BY DATE/TIME 11/16/04 ANALYST'S SIGNATURE DATE NOV - 9 2004 OK 11/18/04	
COMMENTS: Please express results in $\mu\text{g}/\text{ft}^2$ - all samples taken on 10cm x 10cm area.			
SAMPLE ID	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS
UM1104-LD1 2113312	Wipe - 10 cm x 10 cm	Room 118, above light fixture in NE corner of office	$36 \mu\text{g}/\text{ft}^2$
UM1104-LD2 2113313	Wipe - 10 cm x 10 cm	Room 170, above light fixture on South end of room	$80 \mu\text{g}/\text{ft}^2$
UM1104-LD3 2113314	Wipe - 10 cm x 10 cm	Room 207, on top of fresh air intake	$170 \mu\text{g}/\text{ft}^2$
UM1104-LD4 2113315	Wipe Blank	Field Blank - wiped on hands and template. No other surface touched.	$< 10 \mu\text{g}$

RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKAHS-995

IATL

International Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Suite 208
Eagle River AK 99577

RECEIVED

NOV 23 2004

EHS ALASKA, INC

Report Date: 11/16/2004
Report Number: 11043665
Project: Ursa Major Elementary
Project No.: 6141-01

LEAD WIPE SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Description / Location</u>	<u>Area Sampled (ft²)</u>	<u>Concentration (µg/ft²)</u>
2113312	UM1104-LD1	Rm 118, Above Light Fixture In NE Corner Of Office	0.69	36.0
2113313	UM1104-LD2	Rm 170, Above Light Fixture On South End Of Rm	0.69	80.0
2113314	UM1104-LD3	Rm 207, On Top Of Fresh Air Intake	0.69	170.0
2113315	UM1104-LD4	Blank	Blank	<10.0 ug

NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)

AIHA-ELPAT-NIOSH No. 100188 / NYSDOH-ELAP No. 11021

Analysis Method: EPA SW846-(7420/7421) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges And Sediments By AAS"

Comments: Regulatory limit varies by surface location (EPA/HUD guidelines). Unless otherwise stated, results assume one square foot sampled. Method requires submittal of blanks. IATL assumes that all of the sampling methods and data upon which these results are based, have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD= 0.2 ppm MDL=2.0 µg/ft² RL=10.0 µg/ft² (based upon 1.0 square foot sampled). The EPA 403 Final Rule (40 CFR 745.63) requires that all wipe samples of settled dust shall be collected using a wipe that meets ASTM E1792.

Date Received: 11/9/2004
Date Analyzed: 11/16/2004
Analyst: C. Shaffer

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director



International Asbestos
Testing Laboratories

16000 Horizon Way, Unit 100, Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

INFO@IATL.COM

DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS

(DATE: 11 / 16 / 04)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	103
Lab control Std 2581 *	0.509	96
Matrix Spike - LBP *	1.28	98
Matrix Spike - Wipe *	1.04	100
Matrix Spike - Soil *	0.287	96
Matrix spike - Air *	0.050	104
2.5 ppm Standard	0.25	102
10.0 ppm Standard	1.0	101
40.0 ppm Standard	4.0	99

ELPAT No. 100188 AIHA Lab No. 444 NIOSH PAT No. 100188 NYS-DOH No. 11021

Analysis Method: ASTM D3335-85A

NIOSH 7082

EPA SW846 3050 7420/21

Comments: IATL assumes that all sampling complies with accepted methods.

All client supplied sampling data is assumed to be correct when calculating results.

Detection limit based upon 0.2 mg/L reporting limit and sample size.

* NIST Traceable.

** 80-120% acceptable limits.

Analyzed By:

R. Chad Shaffer

Date:

11/16/04

Approved By:

Frank L. Ehrenfeld, III
Laboratory Director

APPENDIX D

Bulk Product PCB Sample Field Survey Data Sheets and Laboratory Reports

AD11191



EHS ALASKA
INCORPORATED

EHS-Alaska, Inc.
11901 Business Blvd., Suite 208, Eagle River, AK 99577
(907) 694-1383 • (907) 694-1382 fax
e-mail • ehslabs@ehs-alaska.com

PROJECT NO: 8193	PROJECT NAME: Ursa Major Demo & Replacement	FACILITY: Ursa Major Elementary School	COLLECTION DATE: 02/13-19/25
----------------------------	---	--	--

CHAIN OF CUSTODY RECORD

ANALYSIS REQUESTED:	☐ PLM BULK ☐ LEAD DUST ☐ TEM MICROVAC DUST (ASTM 5756)	☐ PLM DUST ☐ LEAD TCLP	☐ TEM BULK ☒ PCB BULK	TYPE: ☐ ASBESTOS ☒ PCBs	TURNAROUND: 2 WEEKS	DISPOSAL: NORMAL	QUANTITY: 13
---------------------	---	---	---	--	------------------------	---------------------	-----------------

COLLECTED BY (signature) Travis W. Hubbard & Fisher G. Gandel PRINTED NAME 00006140 / 0-935 & 20241023 / T-31317-45276 CERT# / AHERA# FedEx SHIPPING METHOD 7722 4093 2144 COURIER (signature) DATE/TIME 02/24/25 11:00 AM	EMSL - Cinnaminson NJ SELECTED LABORATORY SAMPLES ACCEPTED BY 2/25/25 10:40 DATE/TIME ANALYST'S SIGNATURE DATE 2/25/25 09:40	SPECIAL INSTRUCTIONS / COMMENTS: LAB: RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA, INC. See sample location drawing for more detailed explanation of exact locations. 21.6c Reel inflexible
--	---	--

FIELD SURVEY DATA

EHS SAMPLE NO.	SAMPLE DESCRIPTION (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
LAB ID NO			
1 UMES2502-P01	White, Green, and Pink Paint Layers, GWB	Office 102, northwest wall. P-180F	19.5 ppm
2 UMES2502-P02	Off-white Paint, GWB	Library 141, Southeast wall beneath windows. P-411T	1.2 ppm
3 UMES2502-P03	Dark Red Paint	Basement 35, on concrete floor in front of stairs. P-213F	15 ppm
4 UMES2502-P04	Black Tarry Sprayed-on Damproofing (Note: Contains Asbestos)	Mechanical 207, southeast wall near corner. P-220F	100 ppm
5 UMES2502-P05	Hot Mop Tar (Note: May Contain Asbestos)	Blower Room 236, southeast wall, on spray-on DP and concrete. P-242F	11 ppm
6 UMES2502-P06	Beige Frame Sealant	Generator Building Exterior, east wall, from between ventilation slats metal frame and CMUs. P-288F	None Detected
7 UMES2502-P07	Black Rubber Window Frame Gasket	School Exterior, Office 101's windows, from between metal window frame and glass. P-1185T	None Detected
8 UMES2502-P08	Grey Window Frame Sealant	School Exterior, Classroom 153's windows, between metal frame and concrete column. P-297	5.6 ppm

13 Am



EHS ALASKA
INCORPORATED

AD11191

EHS-Alaska, Inc.
11901 Business Blvd., Suite 208, Eagle River, AK 99577
(907) 694-1383 • (907) 694-1382 fax
e-mail • ehslabs@ehs-alaska.com

PROJECT NO:	PROJECT NAME:	FACILITY:	COLLECTION DATE:
8193	Ursa Major Demo & Replacement	Ursa Major Elementary School	02/13-19/25
FIELD SURVEY DATA			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO XREF)	RESULTS FOR EHS-ALASKA USE ONLY
9 UMES2502-P09	Tan, Green, and Yellow Paint Layers	School Exterior, from middle of Classroom 153's windowsill. P-1197T	540 ppm
10 UMES2502-P10	Pliable White Door Seam Sealant	School Exterior, outside Vestibule 1101, between metal door frame and concrete. P-1212T	None Detected
11 UMES2502-P11	White, Pink Paint Layers	School Exterior, north wall of Gym 184 near eastern corner. P-301F	None Detected
12 UMES2502-P12	Dk. Grey Window Frame Sealant	School Exterior, Kindergarten 130, left side, between window frame and concrete. P-1260T	None Detected
13 UMES2502-P13	White, Pink, Green, and Yellow Paint Layers	School Exterior, south corner of Library 141, off of extruding column where the finish is smooth. P-303F	None Detected



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191
LIMS Reference ID: AD11191
EMSL Customer ID: ENVI04

March 11, 2025

Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 2/25/2025. The results are tabulated on the attached pages for the following client designated project:

8193-Ursa Major Demo & Replacement

The reference number for these samples is EMSL Order #: AD11191 . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

Owen McKenna Laboratory Manager or other approved signatory

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Sample Condition on Receipt

Cooler ID: Default Cooler

Temperature: 21.6 °C

Custody Seals	Y
Containers Intact	Y
COC/Labels Agree	Y
Preservation Confirmed	Y

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AD11191-01	UMES2502-P01	Solid	2/13/25 12:00 am	02/25/2025
AD11191-02	UMES2502-P02	Solid	2/13/25 12:00 am	02/25/2025
AD11191-03	UMES2502-P03	Solid	2/13/25 12:00 am	02/25/2025
AD11191-04	UMES2502-P04	Solid	2/13/25 12:00 am	02/25/2025
AD11191-05	UMES2502-P05	Solid	2/13/25 12:00 am	02/25/2025
AD11191-06	UMES2502-P06	Solid	2/13/25 12:00 am	02/25/2025
AD11191-07	UMES2502-P07	Solid	2/13/25 12:00 am	02/25/2025
AD11191-08	UMES2502-P08	Solid	2/13/25 12:00 am	02/25/2025
AD11191-09	UMES2502-P09	Solid	2/13/25 12:00 am	02/25/2025
AD11191-10	UMES2502-P10	Solid	2/13/25 12:00 am	02/25/2025
AD11191-11	UMES2502-P11	Solid	2/13/25 12:00 am	02/25/2025
AD11191-12	UMES2502-P12	Solid	2/13/25 12:00 am	02/25/2025
AD11191-13	UMES2502-P13	Solid	2/13/25 12:00 am	02/25/2025

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.

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Ursa Major ES Replacement ITB-1-Demolition
Project 386011

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Positive Hits Summary

Lab ID	Client ID					Sampled
AD11191-01	UMES2502-P01					02/13/25 00:00
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW846-8082A	Aroclor-1260	12	D	mg/kg	03/07/2025 10:55	
SW846-8082A	Aroclor-1242	7.5	D	mg/kg	03/07/2025 10:55	
Lab ID	Client ID					Sampled
AD11191-02	UMES2502-P02					02/13/25 00:00
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW846-8082A	Aroclor-1260	1.2		mg/kg	03/06/2025 17:36	
Lab ID	Client ID					Sampled
AD11191-03	UMES2502-P03					02/13/25 00:00
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW846-8082A	Aroclor-1260	15		mg/kg	03/06/2025 17:58	
Lab ID	Client ID					Sampled
AD11191-04	UMES2502-P04					02/13/25 00:00
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW846-8082A	Aroclor-1260	100	D	mg/kg	03/07/2025 11:17	
Lab ID	Client ID					Sampled
AD11191-05	UMES2502-P05					02/13/25 00:00
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW846-8082A	Aroclor-1260	11		mg/kg	03/06/2025 18:42	
Lab ID	Client ID					Sampled
AD11191-08	UMES2502-P08					02/13/25 00:00
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW846-8082A	Aroclor-1260	1.3		mg/kg	03/06/2025 19:26	
SW846-8082A	Aroclor-1242	2.0		mg/kg	03/06/2025 19:26	
SW846-8082A	Aroclor-1254	2.3		mg/kg	03/06/2025 19:26	
Lab ID	Client ID					Sampled
AD11191-09	UMES2502-P09					02/13/25 00:00
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW846-8082A	Aroclor-1254	540	D	mg/kg	03/07/2025 11:39	

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Page 5 of 23

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 – Page 221 of 332

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

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.

Page 6 of 23

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 – Page 222 of 332

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Sample Results

Sample: UMES2502-P01/Office 102, Northwest wall, P-180F
AD11191-01 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	5	1.2	mg/kg	03/06/25 09:19	03/07/25 10:55	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1221	ND	D	5	1.2	mg/kg	03/06/25 09:19	03/07/25 10:55	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1232	ND	D	5	1.2	mg/kg	03/06/25 09:19	03/07/25 10:55	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1242	7.5	D	5	1.2	mg/kg	03/06/25 09:19	03/07/25 10:55	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1248	ND	D	5	1.2	mg/kg	03/06/25 09:19	03/07/25 10:55	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1254	ND	D	5	1.2	mg/kg	03/06/25 09:19	03/07/25 10:55	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1260	12	D	5	1.2	mg/kg	03/06/25 09:19	03/07/25 10:55	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1262	ND	D	5	1.2	mg/kg	03/06/25 09:19	03/07/25 10:55	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1268	ND	D	5	1.2	mg/kg	03/06/25 09:19	03/07/25 10:55	R.C./TL1	SW846 3546	SW846-8082A
Surrogate(s)	Recovery	Q	Limits							
<i>Surrogate: Tetrachloro-m-xylene</i>	150%	C	10-112							
<i>Surrogate: Decachlorobiphenyl</i>	165%	C	10-123							

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Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 – Page 223 of 332

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Sample Results

(Continued)

**Sample: UMES2502-P02/Library 141, Southeast wall beneath windows, P-411T
AD11191-02 (Solid)**

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 17:36	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1221	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 17:36	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1232	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 17:36	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1242	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 17:36	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1248	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 17:36	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1254	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 17:36	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1260	1.2		1	0.24	mg/kg	03/06/25 09:19	03/06/25 17:36	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1262	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 17:36	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1268	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 17:36	R.C./AxJ	SW846 3546	SW846-8082A
Surrogate(s)	Recovery	Q	Limits							
<i>Surrogate: Tetrachloro-m-xylene</i>	72%		10-112							
<i>Surrogate: Decachlorobiphenyl</i>	80%		10-123							

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Ursa Major ES Replacement ITB-1-Demolition
Project 386011

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Sample Results
(Continued)

Sample: UMES2502-P03/Basement 35, on concrete floor in front of stairs, P-213F
AD11191-03 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.83	mg/kg	03/06/25 09:19	03/06/25 17:58	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1221	ND		1	0.83	mg/kg	03/06/25 09:19	03/06/25 17:58	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1232	ND		1	0.83	mg/kg	03/06/25 09:19	03/06/25 17:58	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1242	ND		1	0.83	mg/kg	03/06/25 09:19	03/06/25 17:58	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1248	ND		1	0.83	mg/kg	03/06/25 09:19	03/06/25 17:58	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1254	ND		1	0.83	mg/kg	03/06/25 09:19	03/06/25 17:58	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1260	15		1	0.83	mg/kg	03/06/25 09:19	03/06/25 17:58	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1262	ND		1	0.83	mg/kg	03/06/25 09:19	03/06/25 17:58	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1268	ND		1	0.83	mg/kg	03/06/25 09:19	03/06/25 17:58	R.C./AxJ	SW846 3546	SW846-8082A
Surrogate(s)	Recovery	Q	Limits							
<i>Surrogate: Tetrachloro-m-xylene</i>	71%		10-112							
<i>Surrogate: Decachlorobiphenyl</i>	86%		10-123							

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Project 386011

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

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Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Sample Results
(Continued)

Sample: UMES2502-P04/Mechanical 207, southeast wall near corner, P-220F
AD11191-04 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	10	8.9	mg/kg	03/06/25 09:19	03/07/25 11:17	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1221	ND	D	10	8.9	mg/kg	03/06/25 09:19	03/07/25 11:17	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1232	ND	D	10	8.9	mg/kg	03/06/25 09:19	03/07/25 11:17	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1242	ND	D	10	8.9	mg/kg	03/06/25 09:19	03/07/25 11:17	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1248	ND	D	10	8.9	mg/kg	03/06/25 09:19	03/07/25 11:17	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1254	ND	D	10	8.9	mg/kg	03/06/25 09:19	03/07/25 11:17	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1260	100	D	10	8.9	mg/kg	03/06/25 09:19	03/07/25 11:17	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1262	ND	D	10	8.9	mg/kg	03/06/25 09:19	03/07/25 11:17	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1268	ND	D	10	8.9	mg/kg	03/06/25 09:19	03/07/25 11:17	R.C./TL1	SW846 3546	SW846-8082A
Surrogate(s)	Recovery	Q	Limits							
<i>Surrogate: Tetrachloro-m-xylene</i>	93%		10-112							
<i>Surrogate: Decachlorobiphenyl</i>	99%		10-123							

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Project 386011

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

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EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
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11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Sample Results

(Continued)

Sample: UMES2502-P05/Blower Room 236, southeast wall, on spray-on DP and concrete P-242F
AD11191-05 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.86	mg/kg	03/06/25 09:19	03/06/25 18:42	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1221	ND		1	0.86	mg/kg	03/06/25 09:19	03/06/25 18:42	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1232	ND		1	0.86	mg/kg	03/06/25 09:19	03/06/25 18:42	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1242	ND		1	0.86	mg/kg	03/06/25 09:19	03/06/25 18:42	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1248	ND		1	0.86	mg/kg	03/06/25 09:19	03/06/25 18:42	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1254	ND		1	0.86	mg/kg	03/06/25 09:19	03/06/25 18:42	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1260	11		1	0.86	mg/kg	03/06/25 09:19	03/06/25 18:42	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1262	ND		1	0.86	mg/kg	03/06/25 09:19	03/06/25 18:42	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1268	ND		1	0.86	mg/kg	03/06/25 09:19	03/06/25 18:42	R.C./AxJ	SW846 3546	SW846-8082A
Surrogate(s)	Recovery	Q	Limits							
<i>Surrogate: Tetrachloro-m-xylene</i>	78%		10-112							
<i>Surrogate: Decachlorobiphenyl</i>	56%		10-123							

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Project 386011

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

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Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
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11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Sample Results
(Continued)

Sample: UMES2502-P06/Generator Building Exterior P-228F
AD11191-06 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 16:52	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1221	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 16:52	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1232	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 16:52	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1242	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 16:52	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1248	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 16:52	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1254	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 16:52	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1260	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 16:52	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1262	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 16:52	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1268	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 16:52	R.C./AxJ	SW846 3546	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	69%			10-112		03/06/25 09:19	03/06/25 16:52	R.C./AxJ	SW846 3546	SW846-8082A
Surrogate: Decachlorobiphenyl	77%			10-123		03/06/25 09:19	03/06/25 16:52	R.C./AxJ	SW846 3546	SW846-8082A

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Project 386011

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Sample Results
(Continued)

Sample: UMES2502-P07/School Exterior P-1185T
AD11191-07 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	1.1	mg/kg	03/06/25 09:19	03/06/25 19:04	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1221	ND		1	1.1	mg/kg	03/06/25 09:19	03/06/25 19:04	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1232	ND		1	1.1	mg/kg	03/06/25 09:19	03/06/25 19:04	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1242	ND		1	1.1	mg/kg	03/06/25 09:19	03/06/25 19:04	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1248	ND		1	1.1	mg/kg	03/06/25 09:19	03/06/25 19:04	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1254	ND		1	1.1	mg/kg	03/06/25 09:19	03/06/25 19:04	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1260	ND		1	1.1	mg/kg	03/06/25 09:19	03/06/25 19:04	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1262	ND		1	1.1	mg/kg	03/06/25 09:19	03/06/25 19:04	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1268	ND		1	1.1	mg/kg	03/06/25 09:19	03/06/25 19:04	R.C./AxJ	SW846 3546	SW846-8082A
Surrogate(s)	Recovery	Q	Limits							
<i>Surrogate: Tetrachloro-m-xylene</i>	74%		10-112							
<i>Surrogate: Decachlorobiphenyl</i>	66%		10-123							

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Project 386011

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
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11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Sample Results
(Continued)

Sample: UMES2502-P08/School Exterior P-297
AD11191-08 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 19:26	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1221	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 19:26	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1232	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 19:26	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1242	2.0		1	0.25	mg/kg	03/06/25 09:19	03/06/25 19:26	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1248	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 19:26	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1254	2.3		1	0.25	mg/kg	03/06/25 09:19	03/06/25 19:26	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1260	1.3		1	0.25	mg/kg	03/06/25 09:19	03/06/25 19:26	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1262	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 19:26	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1268	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 19:26	R.C./AxJ	SW846 3546	SW846-8082A
Surrogate(s)	Recovery	Q	Limits							
<i>Surrogate: Tetrachloro-m-xylene</i>	69%			10-112		03/06/25 09:19	03/06/25 19:26	R.C./AxJ	SW846 3546	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>	66%			10-123		03/06/25 09:19	03/06/25 19:26	R.C./AxJ	SW846 3546	SW846-8082A

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Project 386011

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
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EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
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Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Sample Results
(Continued)

Sample: UMES2502-P09/School Exterior P-1197T
AD11191-09 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	200	50	mg/kg	03/06/25 09:19	03/07/25 11:39	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1221	ND	D	200	50	mg/kg	03/06/25 09:19	03/07/25 11:39	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1232	ND	D	200	50	mg/kg	03/06/25 09:19	03/07/25 11:39	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1242	ND	D	200	50	mg/kg	03/06/25 09:19	03/07/25 11:39	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1248	ND	D	200	50	mg/kg	03/06/25 09:19	03/07/25 11:39	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1254	540	D	200	50	mg/kg	03/06/25 09:19	03/07/25 11:39	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1260	ND	D	200	50	mg/kg	03/06/25 09:19	03/07/25 11:39	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1262	ND	D	200	50	mg/kg	03/06/25 09:19	03/07/25 11:39	R.C./TL1	SW846 3546	SW846-8082A
Aroclor-1268	ND	D	200	50	mg/kg	03/06/25 09:19	03/07/25 11:39	R.C./TL1	SW846 3546	SW846-8082A
Surrogate(s)	Recovery	Q	Limits							
<i>Surrogate: Tetrachloro-m-xylene</i>	%	S8	10-112							
<i>Surrogate: Decachlorobiphenyl</i>	%	S8	10-123							

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Ursa Major ES Replacement ITB-1-Demolition
Project 386011

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Sample Results
(Continued)

Sample: UMES2502-P10/School Exterior P-1212T
AD11191-10 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.26	mg/kg	03/06/25 09:19	03/06/25 20:10	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1221	ND		1	0.26	mg/kg	03/06/25 09:19	03/06/25 20:10	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1232	ND		1	0.26	mg/kg	03/06/25 09:19	03/06/25 20:10	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1242	ND		1	0.26	mg/kg	03/06/25 09:19	03/06/25 20:10	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1248	ND		1	0.26	mg/kg	03/06/25 09:19	03/06/25 20:10	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1254	ND		1	0.26	mg/kg	03/06/25 09:19	03/06/25 20:10	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1260	ND		1	0.26	mg/kg	03/06/25 09:19	03/06/25 20:10	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1262	ND		1	0.26	mg/kg	03/06/25 09:19	03/06/25 20:10	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1268	ND		1	0.26	mg/kg	03/06/25 09:19	03/06/25 20:10	R.C./AxJ	SW846 3546	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	67%			10-112		03/06/25 09:19	03/06/25 20:10	R.C./AxJ	SW846 3546	SW846-8082A
Surrogate: Decachlorobiphenyl	72%			10-123		03/06/25 09:19	03/06/25 20:10	R.C./AxJ	SW846 3546	SW846-8082A

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Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 – Page 232 of 332

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Sample Results
(Continued)

Sample: UMES2502-P11/School Exterior P-301F
AD11191-11 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 20:32	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1221	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 20:32	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1232	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 20:32	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1242	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 20:32	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1248	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 20:32	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1254	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 20:32	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1260	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 20:32	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1262	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 20:32	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1268	ND		1	0.25	mg/kg	03/06/25 09:19	03/06/25 20:32	R.C./AxJ	SW846 3546	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	72%			10-112		03/06/25 09:19	03/06/25 20:32	R.C./AxJ	SW846 3546	SW846-8082A
Surrogate: Decachlorobiphenyl	75%			10-123		03/06/25 09:19	03/06/25 20:32	R.C./AxJ	SW846 3546	SW846-8082A

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Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 – Page 233 of 332

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Sample Results
(Continued)

Sample: UMES2502-P12/School Exterior P-1260T
AD11191-12 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.93	mg/kg	03/06/25 09:19	03/06/25 20:54	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1221	ND		1	0.93	mg/kg	03/06/25 09:19	03/06/25 20:54	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1232	ND		1	0.93	mg/kg	03/06/25 09:19	03/06/25 20:54	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1242	ND		1	0.93	mg/kg	03/06/25 09:19	03/06/25 20:54	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1248	ND		1	0.93	mg/kg	03/06/25 09:19	03/06/25 20:54	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1254	ND		1	0.93	mg/kg	03/06/25 09:19	03/06/25 20:54	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1260	ND		1	0.93	mg/kg	03/06/25 09:19	03/06/25 20:54	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1262	ND		1	0.93	mg/kg	03/06/25 09:19	03/06/25 20:54	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1268	ND		1	0.93	mg/kg	03/06/25 09:19	03/06/25 20:54	R.C./AxJ	SW846 3546	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	73%			10-112		03/06/25 09:19	03/06/25 20:54	R.C./AxJ	SW846 3546	SW846-8082A
Surrogate: Decachlorobiphenyl	75%			10-123		03/06/25 09:19	03/06/25 20:54	R.C./AxJ	SW846 3546	SW846-8082A

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Project 386011

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Sample Results
(Continued)

Sample: UMES2502-P13/School Exterior P-303F
AD11191-13 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 21:16	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1221	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 21:16	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1232	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 21:16	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1242	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 21:16	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1248	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 21:16	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1254	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 21:16	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1260	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 21:16	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1262	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 21:16	R.C./AxJ	SW846 3546	SW846-8082A
Aroclor-1268	ND		1	0.24	mg/kg	03/06/25 09:19	03/06/25 21:16	R.C./AxJ	SW846 3546	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	73%			10-112		03/06/25 09:19	03/06/25 21:16	R.C./AxJ	SW846 3546	SW846-8082A
Surrogate: Decachlorobiphenyl	86%			10-123		03/06/25 09:19	03/06/25 21:16	R.C./AxJ	SW846 3546	SW846-8082A

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Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 – Page 235 of 332

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Quality Control

GC-SVOA

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDC0531 - SW846 3546									
Blank (BDC0531-BLK1)				Prepared & Analyzed: 3/6/2025					
Aroclor-1016	ND	0.25	mg/kg						
Aroclor-1221	ND	0.25	mg/kg						
Aroclor-1232	ND	0.25	mg/kg						
Aroclor-1242	ND	0.25	mg/kg						
Aroclor-1248	ND	0.25	mg/kg						
Aroclor-1254	ND	0.25	mg/kg						
Aroclor-1260	ND	0.25	mg/kg						
Aroclor-1262	ND	0.25	mg/kg						
Aroclor-1268	ND	0.25	mg/kg						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		77	10-112		
Surrogate: Decachlorobiphenyl				0.5000		75	10-123		
LCS (BDC0531-BS1)				Prepared & Analyzed: 3/6/2025					
Aroclor-1016	3.41	0.25	mg/kg	5.000		68	23-111		
Aroclor-1260	3.64	0.25	mg/kg	5.000		73	29-119		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		81	10-112		
Surrogate: Decachlorobiphenyl				0.5000		80	10-123		
Matrix Spike (BDC0531-MS1)				Source: AD11191-06		Prepared & Analyzed: 3/6/2025			
Aroclor-1016	2.73	0.25	mg/kg	4.926	ND	55	10-111		
Aroclor-1260	3.00	0.25	mg/kg	4.926	ND	61	10-132		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.4926		62	10-112		
Surrogate: Decachlorobiphenyl				0.4926		67	10-123		
Matrix Spike Dup (BDC0531-MSD1)				Source: AD11191-06		Prepared & Analyzed: 3/6/2025			
Aroclor-1016	2.49	0.25	mg/kg	5.000	ND	50	10-111	9	28
Aroclor-1260	2.79	0.25	mg/kg	5.000	ND	56	10-132	7	28
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		55	10-112		
Surrogate: Decachlorobiphenyl				0.5000		61	10-123		

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Ursa Major ES Replacement ITB-1-Demolition
Project 386011

Section 02 26 00 – Page 236 of 332

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SW846-8082A in Solid		
Aroclor-1016	12674-11-2	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1221	11104-28-2	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1232	11141-16-5	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1242	53469-21-9	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1248	12672-29-6	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1254	11097-69-1	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1260	11096-82-5	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1262	37324-23-5	NJDEP,NYSDOH,PADEP
Aroclor-1268	11100-14-4	NJDEP,NYSDOH,PADEP

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2025
NYSDOH	New York State Department of Health	10872	04/01/2025
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2025
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2025
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2026
California ELAP	California Water Boards	1877	06/30/2025
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	03/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2026

Please see the specific Field of Testing (FOT) on www.emsl.com <<http://www.emsl.com>> for a complete listing of parameters for which EMSL is certified.

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Ursa Major ES Replacement ITB-1-Demolition
Project 386011

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012511191

LIMS Reference ID: AD11191

EMSL Customer ID: ENVI04

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

Project Name: 8193-Ursa Major Demo & Replacement

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 02/25/2025 09:40
Reported: 03/11/2025 17:07

Notes and Definitions

Item	Definition
C	Sample double spiked with surrogate.
D	Analyte was reported from a dilution run.
S8	Surrogate recovery is outside the control limits due to dilution.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DA	Direct Analysis
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
NR	Spike/Surrogate showed no recovery.
Q	Qualifier
RL	Reporting Limit
Wet	Sample is not dry weight corrected.
%REC	Percent Recovery
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

3600 Fremont Ave N. Seattle, WA 98103 Tel: 206-352-3790		Chain of Custody Record & Laboratory Services Agreement														
Date: June 6, 2025		Page: 1 of 1		Laboratory Project No (internal): 2506147												
Client: EHS-Alaska, Inc.		Project Name: Ursa Major ES Replacement		Special Remarks: Shipped via FedEx, Waybill 8818 3870 9394												
Address: 11901 Business Blvd, Suite 208		Project No: 8193		Routine Disposal: Please call EHS-Alaska with any questions or comments.												
City, State, Zip: Eagle River, Alaska, 99577		Collected by: Fisher Gandel		Location: School Exterior												
Telephone: (907) 694-1383		Report To (PM): emails below		Disposal: Samples will be disposed in 30 days unless otherwise requested. ☐ Retain volume (specify above) ☐ Return to client												
Email(s): ehslabs@ehs-alaska.com, fgandel@ehs-alaska.com, cswatlowksi@ehs-alaska.com																
Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCS (EPA 8160 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCOI)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SM)	PCBs (EPA 8082 / 408)	Metals** (EPA 6010 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	ED9 (8011)	Comments
1 UMES2506-PCB01	6/6/2025	N/A	S	1						X						PCB Soil @ adjacent to gen. bldg.
2 UMES2506-PCB02	6/6/2025	N/A	S	1						X						@ Front plater box left of entrance
3 UMES2506-PCB03	6/6/2025	N/A	S	1						X						@ OG Build front, left side
4 UMES2506-PCB04	6/6/2025	N/A	S	1						X						@ OG Build front, right side
5 UMES2506-PCB05	6/6/2025	N/A	S	1						X						@ Bushes right of SW entrance
6 UMES2506-PCB06	6/6/2025	N/A	S	1						X						@ Exterior of gym addn.
7 UMES2506-PCB07	6/6/2025	N/A	S	1						X						@ Trees along back of bldg, left side
8 UMES2506-PCB08	6/6/2025	N/A	S	1						X						@ Soil at corner of library addn.
9 UMES2506-PCB09	6/6/2025	N/A	S	1						X						@ '98 addn. corner
10 UMES2506-PCB10	6/6/2025	N/A	S	1						X						@ NE corner of OG MPR
*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water																
**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn																
***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite																
I represent that I am authorized to enter into this Agreement with Alliance Technical Group LLC on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.																
Relinquished (Signature) x		Print Name Fisher Gandel		Date/Time 6/6/2025, 11:00		Received (Signature) x		Print Name Nathan Hults		Date/Time 6/9/25 900						
Relinquished (Signature) x		Print Name		Date/Time		Received (Signature) x		Print Name		Date/Time						



3600 Fremont Ave N
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

EHS Alaska Inc
EHS Lab
11901 Business Blvd. Suite 208
Eagle River, AK 99577

RE: Ursa Major ES Replacement, 8193
Work Order Number: 2506147

June 11, 2025

Attention EHS Lab:

Alliance Technical Group, LLC - Seattle received 10 sample(s) on 6/9/2025 for the analyses presented in the following report.

PCBs by EPA Method 8082A
Sample Moisture (Percent Moisture)

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Alliance Technical Group is committed to accuracy, speed, and customer service. Thank you for choosing Alliance Technical Group's Seattle laboratory team for your analytical needs. We appreciate this opportunity to serve you!

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

CC:
Cali Stariwat

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original



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CLIENT: EHS Alaska Inc
Project: Ursa Major ES Replacement
Work Order: 2506147

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2506147-001	UMES2506-PCB01	06/06/2025 12:00 AM	06/09/2025 9:00 AM
2506147-002	UMES2506-PCB02	06/06/2025 12:00 AM	06/09/2025 9:00 AM
2506147-003	UMES2506-PCB03	06/06/2025 12:00 AM	06/09/2025 9:00 AM
2506147-004	UMES2506-PCB04	06/06/2025 12:00 AM	06/09/2025 9:00 AM
2506147-005	UMES2506-PCB05	06/06/2025 12:00 AM	06/09/2025 9:00 AM
2506147-006	UMES2506-PCB06	06/06/2025 12:00 AM	06/09/2025 9:00 AM
2506147-007	UMES2506-PCB07	06/06/2025 12:00 AM	06/09/2025 9:00 AM
2506147-008	UMES2506-PCB08	06/06/2025 12:00 AM	06/09/2025 9:00 AM
2506147-009	UMES2506-PCB09	06/06/2025 12:00 AM	06/09/2025 9:00 AM
2506147-010	UMES2506-PCB10	06/06/2025 12:00 AM	06/09/2025 9:00 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original



Case Narrative

WO#: 2506147

Date: 6/11/2025

CLIENT: EHS Alaska Inc
Project: Ursa Major ES Replacement

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-001A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-002A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-002A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-001A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-003A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-004A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-005A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-006A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-007A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-008A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-009A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-010A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-010A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-009A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-008A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-007A) required Florisil Cleanup Procedure (Using Method No 3620C).

Original

Page 3 of 21



Case Narrative

WO#: 2506147

Date: 6/11/2025

CLIENT: EHS Alaska Inc
Project: Ursa Major ES Replacement

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-006A) required Florisil Cleanup Procedure (Using Method No 3620C).
Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-005A) required Florisil Cleanup Procedure (Using Method No 3620C).
Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-004A) required Florisil Cleanup Procedure (Using Method No 3620C).
Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2506147-003A) required Florisil Cleanup Procedure (Using Method No 3620C).

Original



Qualifiers & Acronyms

WO#: 2506147
Date Reported: 6/11/2025

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

Original

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Analytical Report

Work Order: 2506147
Date Reported: 6/11/2025

Client: EHS Alaska Inc
Project: Ursa Major ES Replacement
Lab ID: 2506147-001
Client Sample ID: UMES2506-PCB01

Collection Date: 6/6/2025

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>PCBs by EPA Method 8082A</u>				Batch ID: 48052		Analyst: CO
Aroclor 1016	ND	0.0263		mg/Kg-dry	1	6/11/2025 12:25:00 PM
Aroclor 1221	ND	0.0263		mg/Kg-dry	1	6/11/2025 12:25:00 PM
Aroclor 1232	ND	0.0263		mg/Kg-dry	1	6/11/2025 12:25:00 PM
Aroclor 1242	ND	0.0263		mg/Kg-dry	1	6/11/2025 12:25:00 PM
Aroclor 1248	ND	0.0263		mg/Kg-dry	1	6/11/2025 12:25:00 PM
Aroclor 1254	0.0270	0.0263		mg/Kg-dry	1	6/11/2025 12:25:00 PM
Aroclor 1260	0.0812	0.0263		mg/Kg-dry	1	6/11/2025 12:25:00 PM
Aroclor 1262	ND	0.0263		mg/Kg-dry	1	6/11/2025 12:25:00 PM
Aroclor 1268	ND	0.0263		mg/Kg-dry	1	6/11/2025 12:25:00 PM
Total PCBs	0.108	0.0263		mg/Kg-dry	1	6/11/2025 12:25:00 PM
Surr: Decachlorobiphenyl	94.5	36.6 - 160		%Rec	1	6/11/2025 12:25:00 PM
Surr: Tetrachloro-m-xylene	81.4	53.9 - 159		%Rec	1	6/11/2025 12:25:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R10044 Analyst: DI

Percent Moisture	24.4	0.500		wt%	1	6/10/2025 9:38:38 AM
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Original



Analytical Report

Work Order: 2506147
Date Reported: 6/11/2025

Client: EHS Alaska Inc
Project: Ursa Major ES Replacement
Lab ID: 2506147-002
Client Sample ID: UMES2506-PCB02

Collection Date: 6/6/2025

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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PCBs by EPA Method 8082A

Batch ID: 48036

Analyst: CO

Aroclor 1016	ND	0.0198		mg/Kg-dry	1	6/10/2025 4:01:39 PM
Aroclor 1221	ND	0.0198		mg/Kg-dry	1	6/10/2025 4:01:39 PM
Aroclor 1232	ND	0.0198		mg/Kg-dry	1	6/10/2025 4:01:39 PM
Aroclor 1242	ND	0.0198		mg/Kg-dry	1	6/10/2025 4:01:39 PM
Aroclor 1248	ND	0.0198		mg/Kg-dry	1	6/10/2025 4:01:39 PM
Aroclor 1254	ND	0.0198		mg/Kg-dry	1	6/10/2025 4:01:39 PM
Aroclor 1260	0.0302	0.0198		mg/Kg-dry	1	6/10/2025 4:01:39 PM
Aroclor 1262	ND	0.0198		mg/Kg-dry	1	6/10/2025 4:01:39 PM
Aroclor 1268	ND	0.0198		mg/Kg-dry	1	6/10/2025 4:01:39 PM
Total PCBs	0.0302	0.0198		mg/Kg-dry	1	6/10/2025 4:01:39 PM
Surr: Decachlorobiphenyl	62.4	36.6 - 160		%Rec	1	6/10/2025 4:01:39 PM
Surr: Tetrachloro-m-xylene	54.9	53.9 - 159		%Rec	1	6/10/2025 4:01:39 PM

Sample Moisture (Percent Moisture)

Batch ID: R10044

Analyst: DI

Percent Moisture	2.31	0.500		wt%	1	6/10/2025 9:38:38 AM
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Original



Analytical Report

Work Order: 2506147
Date Reported: 6/11/2025

Client: EHS Alaska Inc
Project: Ursa Major ES Replacement
Lab ID: 2506147-003
Client Sample ID: UMES2506-PCB03

Collection Date: 6/6/2025

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>PCBs by EPA Method 8082A</u>				Batch ID: 48052		Analyst: CO
Aroclor 1016	ND	0.0245		mg/Kg-dry	1	6/11/2025 12:35:00 PM
Aroclor 1221	ND	0.0245		mg/Kg-dry	1	6/11/2025 12:35:00 PM
Aroclor 1232	ND	0.0245		mg/Kg-dry	1	6/11/2025 12:35:00 PM
Aroclor 1242	ND	0.0245		mg/Kg-dry	1	6/11/2025 12:35:00 PM
Aroclor 1248	ND	0.0245		mg/Kg-dry	1	6/11/2025 12:35:00 PM
Aroclor 1254	0.0365	0.0245		mg/Kg-dry	1	6/11/2025 12:35:00 PM
Aroclor 1260	0.0281	0.0245		mg/Kg-dry	1	6/11/2025 12:35:00 PM
Aroclor 1262	ND	0.0245		mg/Kg-dry	1	6/11/2025 12:35:00 PM
Aroclor 1268	ND	0.0245		mg/Kg-dry	1	6/11/2025 12:35:00 PM
Total PCBs	0.0646	0.0245		mg/Kg-dry	1	6/11/2025 12:35:00 PM
Surr: Decachlorobiphenyl	150	36.6 - 160		%Rec	1	6/11/2025 12:35:00 PM
Surr: Tetrachloro-m-xylene	138	53.9 - 159		%Rec	1	6/11/2025 12:35:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R10044 Analyst: DI

Percent Moisture	23.0	0.500		wt%	1	6/10/2025 9:38:38 AM
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Original



Analytical Report

Work Order: 2506147
Date Reported: 6/11/2025

Client: EHS Alaska Inc
Project: Ursa Major ES Replacement
Lab ID: 2506147-004
Client Sample ID: UMES2506-PCB04

Collection Date: 6/6/2025

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>PCBs by EPA Method 8082A</u>				Batch ID: 48052		Analyst: CO
Aroclor 1016	ND	0.0237		mg/Kg-dry	1	6/11/2025 2:50:00 PM
Aroclor 1221	ND	0.0237		mg/Kg-dry	1	6/11/2025 2:50:00 PM
Aroclor 1232	ND	0.0237		mg/Kg-dry	1	6/11/2025 2:50:00 PM
Aroclor 1242	ND	0.0237		mg/Kg-dry	1	6/11/2025 2:50:00 PM
Aroclor 1248	ND	0.0237		mg/Kg-dry	1	6/11/2025 2:50:00 PM
Aroclor 1254	0.0377	0.0237		mg/Kg-dry	1	6/11/2025 2:50:00 PM
Aroclor 1260	ND	0.0237		mg/Kg-dry	1	6/11/2025 2:50:00 PM
Aroclor 1262	ND	0.0237		mg/Kg-dry	1	6/11/2025 2:50:00 PM
Aroclor 1268	ND	0.0237		mg/Kg-dry	1	6/11/2025 2:50:00 PM
Total PCBs	0.0377	0.0237		mg/Kg-dry	1	6/11/2025 2:50:00 PM
Surr: Decachlorobiphenyl	157	36.6 - 160		%Rec	1	6/11/2025 2:50:00 PM
Surr: Tetrachloro-m-xylene	134	53.9 - 159		%Rec	1	6/11/2025 2:50:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R10044 Analyst: DI

Percent Moisture	21.9	0.500		wt%	1	6/10/2025 9:38:38 AM
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Original



Analytical Report

Work Order: 2506147
Date Reported: 6/11/2025

Client: EHS Alaska Inc
Project: Ursa Major ES Replacement
Lab ID: 2506147-005
Client Sample ID: UMES2506-PCB05

Collection Date: 6/6/2025

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>PCBs by EPA Method 8082A</u>				Batch ID: 48052		Analyst: CO
Aroclor 1016	ND	0.0213		mg/Kg-dry	1	6/11/2025 2:59:00 PM
Aroclor 1221	ND	0.0213		mg/Kg-dry	1	6/11/2025 2:59:00 PM
Aroclor 1232	ND	0.0213		mg/Kg-dry	1	6/11/2025 2:59:00 PM
Aroclor 1242	ND	0.0213		mg/Kg-dry	1	6/11/2025 2:59:00 PM
Aroclor 1248	ND	0.0213		mg/Kg-dry	1	6/11/2025 2:59:00 PM
Aroclor 1254	0.0506	0.0213		mg/Kg-dry	1	6/11/2025 2:59:00 PM
Aroclor 1260	0.0401	0.0213		mg/Kg-dry	1	6/11/2025 2:59:00 PM
Aroclor 1262	ND	0.0213		mg/Kg-dry	1	6/11/2025 2:59:00 PM
Aroclor 1268	ND	0.0213		mg/Kg-dry	1	6/11/2025 2:59:00 PM
Total PCBs	0.0907	0.0213		mg/Kg-dry	1	6/11/2025 2:59:00 PM
Surr: Decachlorobiphenyl	137	36.6 - 160		%Rec	1	6/11/2025 2:59:00 PM
Surr: Tetrachloro-m-xylene	131	53.9 - 159		%Rec	1	6/11/2025 2:59:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R10044 Analyst: DI

Percent Moisture	9.89	0.500		wt%	1	6/10/2025 9:38:38 AM
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Original



Analytical Report

Work Order: 2506147
Date Reported: 6/11/2025

Client: EHS Alaska Inc
Project: Ursa Major ES Replacement
Lab ID: 2506147-006
Client Sample ID: UMES2506-PCB06

Collection Date: 6/6/2025

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>PCBs by EPA Method 8082A</u>				Batch ID: 48052		Analyst: CO
Aroclor 1016	ND	0.0247		mg/Kg-dry	1	6/11/2025 12:45:19 PM
Aroclor 1221	ND	0.0247		mg/Kg-dry	1	6/11/2025 12:45:19 PM
Aroclor 1232	ND	0.0247		mg/Kg-dry	1	6/11/2025 12:45:19 PM
Aroclor 1242	ND	0.0247		mg/Kg-dry	1	6/11/2025 12:45:19 PM
Aroclor 1248	ND	0.0247		mg/Kg-dry	1	6/11/2025 12:45:19 PM
Aroclor 1254	ND	0.0247		mg/Kg-dry	1	6/11/2025 12:45:19 PM
Aroclor 1260	ND	0.0247		mg/Kg-dry	1	6/11/2025 12:45:19 PM
Aroclor 1262	ND	0.0247		mg/Kg-dry	1	6/11/2025 12:45:19 PM
Aroclor 1268	ND	0.0247		mg/Kg-dry	1	6/11/2025 12:45:19 PM
Total PCBs	ND	0.0247		mg/Kg-dry	1	6/11/2025 12:45:19 PM
Surr: Decachlorobiphenyl	131	36.6 - 160		%Rec	1	6/11/2025 12:45:19 PM
Surr: Tetrachloro-m-xylene	128	53.9 - 159		%Rec	1	6/11/2025 12:45:19 PM

Sample Moisture (Percent Moisture)

Batch ID: R10044 Analyst: DI

Percent Moisture	20.3	0.500		wt%	1	6/10/2025 9:38:38 AM
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Original



Analytical Report

Work Order: 2506147
Date Reported: 6/11/2025

Client: EHS Alaska Inc
Project: Ursa Major ES Replacement
Lab ID: 2506147-007
Client Sample ID: UMES2506-PCB07

Collection Date: 6/6/2025

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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PCBs by EPA Method 8082A

Batch ID: 48052

Analyst: CO

Aroclor 1016	ND	0.0257		mg/Kg-dry	1	6/11/2025 3:09:00 PM
Aroclor 1221	ND	0.0257		mg/Kg-dry	1	6/11/2025 3:09:00 PM
Aroclor 1232	ND	0.0257		mg/Kg-dry	1	6/11/2025 3:09:00 PM
Aroclor 1242	ND	0.0257		mg/Kg-dry	1	6/11/2025 3:09:00 PM
Aroclor 1248	ND	0.0257		mg/Kg-dry	1	6/11/2025 3:09:00 PM
Aroclor 1254	0.159	0.0257		mg/Kg-dry	1	6/11/2025 3:09:00 PM
Aroclor 1260	0.0504	0.0257		mg/Kg-dry	1	6/11/2025 3:09:00 PM
Aroclor 1262	ND	0.0257		mg/Kg-dry	1	6/11/2025 3:09:00 PM
Aroclor 1268	ND	0.0257		mg/Kg-dry	1	6/11/2025 3:09:00 PM
Total PCBs	0.210	0.0257		mg/Kg-dry	1	6/11/2025 3:09:00 PM
Surr: Decachlorobiphenyl	156	36.6 - 160		%Rec	1	6/11/2025 3:09:00 PM
Surr: Tetrachloro-m-xylene	139	53.9 - 159		%Rec	1	6/11/2025 3:09:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R10044

Analyst: DI

Percent Moisture	24.6	0.500		wt%	1	6/10/2025 9:38:38 AM
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Original



Analytical Report

Work Order: 2506147
Date Reported: 6/11/2025

Client: EHS Alaska Inc
Project: Ursa Major ES Replacement
Lab ID: 2506147-008
Client Sample ID: UMES2506-PCB08

Collection Date: 6/6/2025

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>PCBs by EPA Method 8082A</u>				Batch ID: 48052		Analyst: CO
Aroclor 1016	ND	0.0213		mg/Kg-dry	1	6/11/2025 3:19:00 PM
Aroclor 1221	ND	0.0213		mg/Kg-dry	1	6/11/2025 3:19:00 PM
Aroclor 1232	ND	0.0213		mg/Kg-dry	1	6/11/2025 3:19:00 PM
Aroclor 1242	ND	0.0213		mg/Kg-dry	1	6/11/2025 3:19:00 PM
Aroclor 1248	ND	0.0213		mg/Kg-dry	1	6/11/2025 3:19:00 PM
Aroclor 1254	0.430	0.0213		mg/Kg-dry	1	6/11/2025 3:19:00 PM
Aroclor 1260	0.0819	0.0213		mg/Kg-dry	1	6/11/2025 3:19:00 PM
Aroclor 1262	ND	0.0213		mg/Kg-dry	1	6/11/2025 3:19:00 PM
Aroclor 1268	ND	0.0213		mg/Kg-dry	1	6/11/2025 3:19:00 PM
Total PCBs	0.512	0.0213		mg/Kg-dry	1	6/11/2025 3:19:00 PM
Surr: Decachlorobiphenyl	128	36.6 - 160		%Rec	1	6/11/2025 3:19:00 PM
Surr: Tetrachloro-m-xylene	130	53.9 - 159		%Rec	1	6/11/2025 3:19:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R10044 Analyst: DI

Percent Moisture	8.60	0.500		wt%	1	6/10/2025 9:38:38 AM
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Original



Analytical Report

Work Order: 2506147
Date Reported: 6/11/2025

Client: EHS Alaska Inc
Project: Ursa Major ES Replacement
Lab ID: 2506147-009
Client Sample ID: UMES2506-PCB09

Collection Date: 6/6/2025

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>PCBs by EPA Method 8082A</u>				Batch ID: 48052		Analyst: CO
Aroclor 1016	ND	0.0205		mg/Kg-dry	1	6/11/2025 3:28:00 PM
Aroclor 1221	ND	0.0205		mg/Kg-dry	1	6/11/2025 3:28:00 PM
Aroclor 1232	ND	0.0205		mg/Kg-dry	1	6/11/2025 3:28:00 PM
Aroclor 1242	ND	0.0205		mg/Kg-dry	1	6/11/2025 3:28:00 PM
Aroclor 1248	ND	0.0205		mg/Kg-dry	1	6/11/2025 3:28:00 PM
Aroclor 1254	0.0317	0.0205		mg/Kg-dry	1	6/11/2025 3:28:00 PM
Aroclor 1260	ND	0.0205		mg/Kg-dry	1	6/11/2025 3:28:00 PM
Aroclor 1262	ND	0.0205		mg/Kg-dry	1	6/11/2025 3:28:00 PM
Aroclor 1268	ND	0.0205		mg/Kg-dry	1	6/11/2025 3:28:00 PM
Total PCBs	0.0512	0.0205		mg/Kg-dry	1	6/11/2025 3:28:00 PM
Surr: Decachlorobiphenyl	126	36.6 - 160		%Rec	1	6/11/2025 3:28:00 PM
Surr: Tetrachloro-m-xylene	129	53.9 - 159		%Rec	1	6/11/2025 3:28:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R10044 Analyst: DI

Percent Moisture	7.78	0.500		wt%	1	6/10/2025 9:38:38 AM
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Original



Analytical Report

Work Order: 2506147
Date Reported: 6/11/2025

Client: EHS Alaska Inc
Project: Ursa Major ES Replacement
Lab ID: 2506147-010
Client Sample ID: UMES2506-PCB10

Collection Date: 6/6/2025

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>PCBs by EPA Method 8082A</u>				Batch ID: 48052		Analyst: CO
Aroclor 1016	ND	0.0207		mg/Kg-dry	1	6/11/2025 3:38:27 PM
Aroclor 1221	ND	0.0207		mg/Kg-dry	1	6/11/2025 3:38:27 PM
Aroclor 1232	ND	0.0207		mg/Kg-dry	1	6/11/2025 3:38:27 PM
Aroclor 1242	ND	0.0207		mg/Kg-dry	1	6/11/2025 3:38:27 PM
Aroclor 1248	ND	0.0207		mg/Kg-dry	1	6/11/2025 3:38:27 PM
Aroclor 1254	ND	0.0207		mg/Kg-dry	1	6/11/2025 3:38:27 PM
Aroclor 1260	ND	0.0207		mg/Kg-dry	1	6/11/2025 3:38:27 PM
Aroclor 1262	ND	0.0207		mg/Kg-dry	1	6/11/2025 3:38:27 PM
Aroclor 1268	ND	0.0207		mg/Kg-dry	1	6/11/2025 3:38:27 PM
Total PCBs	ND	0.0207		mg/Kg-dry	1	6/11/2025 3:38:27 PM
Surr: Decachlorobiphenyl	138	36.6 - 160		%Rec	1	6/11/2025 3:38:27 PM
Surr: Tetrachloro-m-xylene	124	53.9 - 159		%Rec	1	6/11/2025 3:38:27 PM

Sample Moisture (Percent Moisture)

Batch ID: R10044 Analyst: DI

Percent Moisture	5.43	0.500		wt%	1	6/10/2025 9:38:38 AM
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Original



Work Order: 2506147
CLIENT: EHS Alaska Inc
Project: Ursa Major ES Replacement

QC SUMMARY REPORT
PCBs by EPA Method 8082A

Sample ID: 2506147-002AMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 6/9/2025			RunNo: 100480		
Client ID: UMES2506-PCB02	Batch ID: 48036					Analysis Date: 6/10/2025			SeqNo: 2093823		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.353	0.0198	0.9890	0	35.7	51	160				S
Aroclor 1260	0.311	0.0198	0.9890	0.03015	28.4	51.8	160				S
Surr: Decachlorobiphenyl	80.4		197.8		40.6	36.6	160				
Surr: Tetrachloro-m-xylene	75.7		197.8		38.3	53.9	159				S

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.
S - Outlying surrogate recovery observed.

Sample ID: 2506147-002AMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 6/9/2025			RunNo: 100480		
Client ID: UMES2506-PCB02	Batch ID: 48036					Analysis Date: 6/10/2025			SeqNo: 2093824		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.428	0.0198	0.9919	0	43.2	51	160	0.3529	19.3	30	S
Aroclor 1260	0.357	0.0198	0.9919	0.03015	33.0	51.8	160	0.3115	13.6	30	S
Surr: Decachlorobiphenyl	84.6		198.4		42.6	36.6	160		0		
Surr: Tetrachloro-m-xylene	92.1		198.4		46.4	53.9	159		0		S

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.
S - Outlying surrogate recovery observed.

Sample ID: MB-48036		SampType: MBLK		Units: mg/Kg		Prep Date: 6/9/2025			RunNo: 100480		
Client ID: MBLKS		Batch ID: 48036					Analysis Date: 6/11/2025			SeqNo: 2094790	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0200									
Aroclor 1221	ND	0.0200									
Aroclor 1232	ND	0.0200									
Aroclor 1242	ND	0.0200									
Aroclor 1248	ND	0.0200									
Aroclor 1254	ND	0.0200									
Aroclor 1260	ND	0.0200									
Aroclor 1262	ND	0.0200									
Aroclor 1268	ND	0.0200									

Original



Work Order: 2506147
CLIENT: EHS Alaska Inc
Project: Ursa Major ES Replacement

QC SUMMARY REPORT
PCBs by EPA Method 8082A

Sample ID: MB-48036	SampType: MBLK	Units: mg/Kg				Prep Date: 6/9/2025			RunNo: 100480		
Client ID: MBLKS	Batch ID: 48036					Analysis Date: 6/11/2025			SeqNo: 2094790		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total PCBs	ND	0.0200									
Surr: Decachlorobiphenyl	271		200.0		135	39.9	158				
Surr: Tetrachloro-m-xylene	251		200.0		126	53.9	160				

Sample ID: LCS-48036	SampType: LCS	Units: mg/Kg				Prep Date: 6/9/2025			RunNo: 100480		
Client ID: LCSS	Batch ID: 48036	Analysis Date: 6/11/2025							SeqNo: 2094791		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	1.15	0.0200	1.000	0	115	53	160				
Aroclor 1260	1.18	0.0200	1.000	0	118	51.1	160				
Surr: Decachlorobiphenyl	343		200.0		171	36.6	160				S
Surr: Tetrachloro-m-xylene	256		200.0		128	53.9	159				

NOTES:
S - Outlying surrogate recovery observed.

Sample ID: LCSD-48036	SampType: LCSD	Units: mg/Kg				Prep Date: 6/9/2025			RunNo: 100480		
Client ID: LCSS02	Batch ID: 48036					Analysis Date: 6/11/2025			SeqNo: 2094792		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	1.20	0.0200	1.000	0	120	53	160	1.153	4.04	20	
Aroclor 1260	1.13	0.0200	1.000	0	113	51.1	160	1.179	4.12	20	
Surr: Decachlorobiphenyl	293		200.0		147	36.6	160		0		
Surr: Tetrachloro-m-xylene	256		200.0		128	53.9	159		0		

Sample ID: 2506147-006AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 6/10/2025		RunNo: 100514			
Client ID: UMES2506-PCB06		Batch ID: 48052				Analysis Date: 6/11/2025		SeqNo: 2094603			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	1.59	0.0246	1.232	0	129	51	160				
Aroclor 1260	1.50	0.0246	1.232	0	122	51.8	160				
Surr: Decachlorobiphenyl	370		246.4		150	36.6	160				

Original



Work Order: 2506147
CLIENT: EHS Alaska Inc
Project: Ursa Major ES Replacement

QC SUMMARY REPORT
PCBs by EPA Method 8082A

Sample ID: 2506147-006AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 6/10/2025		RunNo: 100514			
Client ID: UMES2506-PCB06		Batch ID: 48052				Analysis Date: 6/11/2025		SeqNo: 2094603			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Tetrachloro-m-xylene	324		246.4		132	53.9	159				
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Sample ID: 2506147-006AMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 6/10/2025			RunNo: 100514		
Client ID: UMES2506-PCB06	Batch ID: 48052	Analysis Date: 6/11/2025							SeqNo: 2094604		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	1.60	0.0247	1.234	0	130	51	160	1.593	0.653	30	
Aroclor 1260	1.41	0.0247	1.234	0	114	51.8	160	1.497	6.09	30	
Surr: Decachlorobiphenyl	337		246.9		136	36.6	160		0		
Surr: Tetrachloro-m-xylene	315		246.9		127	53.9	159		0		

Sample ID: MB-48052		SampType: MBLK			Units: mg/Kg		Prep Date: 6/10/2025			RunNo: 100514		
Client ID: MBLKS		Batch ID: 48052			Analysis Date: 6/11/2025			SeqNo: 2094605				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Aroclor 1016	ND	0.0200									
Aroclor 1221	ND	0.0200									
Aroclor 1232	ND	0.0200									
Aroclor 1242	ND	0.0200									
Aroclor 1248	ND	0.0200									
Aroclor 1254	ND	0.0200									
Aroclor 1260	ND	0.0200									
Aroclor 1262	ND	0.0200									
Aroclor 1268	ND	0.0200									
Total PCBs	ND	0.0200									
Surr: Decachlorobiphenyl	277		200.0		138	39.9	158				
Surr: Tetrachloro-m-xylene	257		200.0		129	53.9	160				

Original



Work Order: 2506147
CLIENT: EHS Alaska Inc
Project: Ursa Major ES Replacement

QC SUMMARY REPORT
PCBs by EPA Method 8082A

Sample ID: LCS-48052		SampType: LCS		Units: mg/Kg		Prep Date: 6/10/2025		RunNo: 100514			
Client ID: LCSS		Batch ID: 48052				Analysis Date: 6/11/2025		SeqNo: 2094606			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.19	0.0200	1.000	0	119	53	160				
Aroclor 1260	1.11	0.0200	1.000	0	111	51.1	160				
Surr: Decachlorobiphenyl	262		200.0		131	36.6	160				
Surr: Tetrachloro-m-xylene	247		200.0		123	53.9	159				

Original

Ursa Major ES Replacement ITB-1-Demolition
Project 386011



Sample Log-In Check List

Client Name: EHS AK	Work Order Number: 2506147
Logged by: Morgan Wilson	Date Received: 6/9/2025 9:00:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☐ No ☒ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Unknown prior to receipt. Yes ☐ No ☐ NA ☒
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	23.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Original

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

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APPENDIX E

Mercury TCLP Sample Field Survey Data Sheets and Laboratory Reports

AD12079



EHS ALASKA
INCORPORATED

EHS-Alaska, Inc.
11901 Business Blvd., Suite 208, Eagle River, AK 99577
(907) 694-1383 • (907) 694-1382 fax
e-mail • ehsak@ehs-alaska.com

PROJECT NO: 8193	PROJECT NAME: Ursa Major Demo & Replacement	FACILITY: Ursa Major Elementary School	COLLECTION DATE: 02/13-19/25
----------------------------	---	--	--

CHAIN OF CUSTODY RECORD				
ANALYSIS REQUESTED:	☒ 7471A TOTAL MERCURY ☐ SW 846 1311 TCLP	TYPE: ☒ MERCURY (Hg) ☐ LEAD	TURNAROUND: 2 WEEKS	DISPOSAL: NORMAL
COLLECTED BY (signature) Travis W. Hubbard & Fisher G. Gandel PRINTED NAME 00006140 / 0-935 & 20241023 / T-31317-45276 CERT# / AHERA# Fed Ex SHIPPING METHOD 7724-8500-1370 COURIER (signature) DATE/TIME 3/6/25 1009		SPECIAL INSTRUCTIONS / COMMENTS: LAB: RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA, INC. Analyze sample UMES2502-M01 for total mercury first and provide results and hold for possible TCLP analysis.		

FIELD SURVEY DATA			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION. (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
① UMES2502-M01	Light Green/Gray Rubber Gym Flooring	Gym 184, east corner adjacent to office doorway. P-224F	170mg/kg 6.3 mg/liter
--END--	--END--	--END--	
		TCLP Mercury	

Monneely 3/6/25 0930

1



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012512079

LIMS Reference ID: AD12079

EMSL Customer ID: ENVI04

May 05, 2025

Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 3/6/2025. The results are tabulated on the attached pages for the following client designated project:

Ursa Major Demo & Replacement

The reference number for these samples is EMSL Order #: AD12079 . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

Owen McKenna Laboratory Manager or other approved signatory

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EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

EMSL Order ID: 012512079

LIMS Reference ID: AD12079

EMSL Customer ID: ENVI04

Project Name: Ursa Major Demo & Replacement

Customer PO: 8193

EMSL Sales Rep: Stefan Wiersgalla

Received: 03/06/2025 09:30

Reported: 05/05/2025 18:41

Sample Condition on Receipt

Cooler ID: Default Cooler

Temperature: °C

Custody Seals	Y
Containers Intact	Y
COC/Labels Agree	Y
Preservation Confirmed	Y

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00
Table of Contents



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

EMSL Order ID: 012512079

LIMS Reference ID: AD12079

EMSL Customer ID: ENVI04

Project Name: Ursa Major Demo & Replacement

Customer PO: 8193

EMSL Sales Rep: Stefan Wiersgalla

Received: 03/06/2025 09:30

Reported: 05/05/2025 18:41

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AD12079-01	UMES2502-M01	Solid	2/13/25 12:00 am	03/06/2025

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.

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Ursa Major ES Replacement ITB-1-Demolition
Project 386011

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EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

EMSL Order ID: 012512079

LIMS Reference ID: AD12079

EMSL Customer ID: ENVI04

Project Name: Ursa Major Demo & Replacement

Customer PO: 8193

EMSL Sales Rep: Stefan Wiersgalla

Received: 03/06/2025 09:30

Reported: 05/05/2025 18:41

Positive Hits Summary

Lab ID	Client ID					Sampled
AD12079-01	UMES2502-M01					02/13/25 00:00
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW846 7471B	Mercury	170	HT4, D	mg/kg	03/20/2025 11:14	

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.



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

EMSL Order ID: 012512079

LIMS Reference ID: AD12079

EMSL Customer ID: ENVI04

Project Name: Ursa Major Demo & Replacement

Customer PO: 8193

EMSL Sales Rep: Stefan Wiersgalla

Received: 03/06/2025 09:30

Reported: 05/05/2025 18:41

Work Order Case Narrative

Revised report- TCLP Mercury analysis per customer request. (3/20/2025)

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00
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EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

EMSL Order ID: 012512079
LIMS Reference ID: AD12079
EMSL Customer ID: ENVI04

Project Name: Ursa Major Demo & Replacement

Customer PO: 8193
EMSL Sales Rep: Stefan Wiersgalla
Received: 03/06/2025 09:30
Reported: 05/05/2025 18:41

Sample Results

Sample: UMES2502-M01/Gym 184, east corner adjacent to office doorway. P-224F
AD12079-01 (Solid)

Analyte	Result	Q	DF	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
Metals											
Mercury	170	HT4, D	200	9.9	9.9	mg/kg	03/19/25 11:07	03/20/25 11:14	BL/BL	SW846 7471B	SW846 7471B

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.

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Ursa Major ES Replacement ITB-1-Demolition
Project 386011

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00
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EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

EMSL Order ID: 012512079
LIMS Reference ID: AD12079
EMSL Customer ID: ENVI04

Project Name: Ursa Major Demo & Replacement

Customer PO: 8193
EMSL Sales Rep: Stefan Wiersgalla
Received: 03/06/2025 09:30
Reported: 05/05/2025 18:41

Quality Control

Metals

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDC1954 - SW846 7471B									
Blank (BDC1954-BLK1)									
Mercury	ND	0.050	mg/kg	Prepared: 3/19/2025 Analyzed: 3/20/2025					
LCS (BDC1954-BS1)									
Mercury	0.765	0.050	mg/kg	0.7451		103	80-120		
Duplicate (BDC1954-DUP1)									
Source: AD12079-01			Prepared: 3/19/2025 Analyzed: 3/20/2025						
Mercury	173 D	10	mg/kg		171			0.8	20
Matrix Spike (BDC1954-MS1)									
Source: AD12079-01			Prepared: 3/19/2025 Analyzed: 3/20/2025						
Mercury	250 R1, D	10	mg/kg	0.7568	171	NR	80-120		
Reference (BDC1954-SRM1)									
			Prepared: 3/19/2025 Analyzed: 3/20/2025						
Mercury	4.33 D	0.50	mg/kg	4.303		101	0-200		

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ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
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EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax: cs@emsl.com
EMSL-CIN-01

Attention: Travis Hubbard
EHS Alaska, Inc. [ENVI04]
11901 Business Blvd
Eagle River, Alaska 99577
(907) 694-1383
ehslabs@ehs-alaska.com

EMSL Order ID: 012512079

LIMS Reference ID: AD12079

EMSL Customer ID: ENVI04

Project Name: Ursa Major Demo & Replacement

Customer PO: 8193

EMSL Sales Rep: Stefan Wiersgalla

Received: 03/06/2025 09:30

Reported: 05/05/2025 18:41

Notes and Definitions

Item	Definition
D	Analyte was reported from a dilution run.
HT4	The extraction for this sample was performed outside of the EPA recommended holding time, but analyzed within holding time.
R1	Recovery is outside of the method control limits.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DA	Direct Analysis
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
NR	Spike/Surrogate showed no recovery.
Q	Qualifier
RCS	Respirable Crystalline Silica
RL	Reporting Limit
Wet	Sample is not dry weight corrected.
%REC	Percent Recovery
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.



May 05, 2025

Service Request No:K2504206

Barbara Carter
EMSL Analytical, Incorporated
200 Route 130 North
Cinnaminson, NJ 08077

Laboratory Results for:

Dear Barbara,

Enclosed are the results of the sample(s) submitted to our laboratory April 24, 2025
For your reference, these analyses have been assigned our service request number **K2504206**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

A handwritten signature in black ink, appearing to read "Sydney A. Rahn", is written over a horizontal line.

for Luke Rahn
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
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Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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1317 South 13th Ave, Kelso, WA 98626 | 1-360-577-7222 | www.alsglobal.com

Client: EMSL Analytical, Incorporated
Project:
Sample Matrix: Misc. Solid

Service Request: K2504206
Date Received: 04/24/2025

CASE NARRATIVE

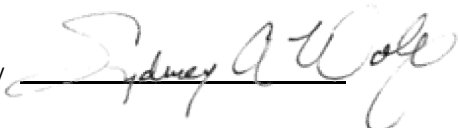
All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier I level requested by the client.

Sample Receipt:

One misc. solid sample was received for analysis at ALS Environmental on 04/24/2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by  Date 05/05/2025

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SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: AD12079-01			Lab ID: K2504206-001			
Analyte	Results	Flag	MDL	MRL	Units	Method
Mercury	6.3			2.0	mg/L	7470A



Sample Receipt Information

ALS Environmental—Kelso Laboratory
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Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

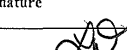
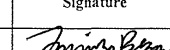
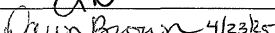
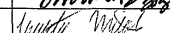
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Client: EMSL Analytical, Incorporated
Project:

Service Request:K2504206

SAMPLE CROSS-REFERENCE			
<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2504206-001	AD12079-01	2/13/2025	

EMSL Analytical, Inc. Environmental Chemistry Lab Service 200 Route 130 North, Cinnaminson, NJ 08077 TEL: (856) 858-4800 FAX: (856) 786-5974		Chain of Custody / Analysis Request Form Print ALL Information. Incomplete chain of custody could result in the delay of analysis.			EMSL Project # AD12079 Account Rep: <u> </u> Indicate State where samples were collected: <u>AK</u>	
REPORT RESULTS TO: Name: Travis Albert PO#:		SEND INVOICE TO: Name: PO#: 43627-01B			<u>16250 4206</u>	
Company EMSL Analytical, Inc. Address: 200 Route 130 North City: Cinnaminson State: NJ Zip: 08077 Tel: 856-858-4800 ext. 2548 Fax: 856-854-2362 Email: sublab@emsl.com		Company EMSL Analytical, Inc. Address: 200 Route 130 North City: Cinnaminson State: NJ Zip: 08077 Tel: 856-858-4800 Fax: 856-854-2362 # of Samples in Shipment: 1			Turnaround Time - 10 Business Days DUE 4/17 Analytical Laboratory Services 4208 S Santa Rita Ave Tucson, AZ 85714 520-573-1061	
					PROJECT NAME:	
					Date of Sample Shipment: 4/2/25	
Sampled by: (Signature) EMSL CLIENT		Matrix	Preservative	Sampling	List Method and Test Needed	
	Lab Sample Number	Waste Water SOIL AIR Solid OTHER	HCl HNO3 H2SO4 NaOH	DATE TIME	TCLP Hg	
1.	AD12079-01			2/13/25	x	
2.						
3.						
4.						
5.						
Released By Signature		Date & Time Released	Delivery Method	Received By Signature	Date & Time Received	Condition Noted
		4/2/25	FedEx		4/4/25 1158	
		4/23/25	FedEx		4/24/25 0930	
Please indicate reporting requirements: ☐ 1. Results Only ☒ 2. Results and QC ☐ 3. Reduced Deliverables ☐ 4. Disk Deliverable ☐ 5. Other						
Comments: Send to ALS Kelso after cryo grinding is completed.						

Client ALS Tucson Service Request K25 04206 PM Lucke
Received: 4/24/25 Opened: 4/24/25 By: VMM Unloaded: 4/24/25 By: VMM

1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) Cogler Box Envelope Other NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number	NA	Filed
						<u>187881251514</u>		

4. Was a Temperature Blank present in cooler? NA Y N If yes, note the temperature in the appropriate column below:

If no, take the temperature of a representative sample bottle contained within the cooler; note in the column "Sample Temp":

5. Were samples received within the method specified temperature ranges?

NA Y N
NA Y N

If no, were they received on ice and same day as collected? If not, note the cooler # below and notify the PM.

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves

7. Were custody papers properly filled out (ink, signed, etc.)?

NA Y N

8. Were samples received in good condition (unbroken)?

NA Y N

9. Were all sample labels complete (ie, analysis, preservation, etc.)?

NA Y N

10. Did all sample labels and tags agree with custody papers?

NA Y N

11. Were appropriate bottles/containers and volumes received for the tests indicated?

NA Y N

12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below

NA Y N

13. Were VOA vials received without headspace? Indicate in the table below.

NA Y N

14. Was Cl2/Res negative?

NA Y N

15. Were samples received within method specified time limit? If not, note the error below and notify the PM.

NA Y N

16. Were 100mL sterile microbiology bottles filled exactly to the 100mL mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head- space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____



Miscellaneous Forms

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Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value over the calibration range.
- J The result is an estimated value between the MDL and the MRL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csaproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdwlabservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA
Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site. Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.		

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental
Analyst Summary report

Client: EMSL Analytical, Incorporated
Project: /AD12079

Service Request: K2504206

Sample Name: AD12079-01
Lab Code: K2504206-001
Sample Matrix: Misc. Solid

Date Collected: 02/13/25
Date Received: 04/24/25

Analysis Method
7470A

Extracted/Digested By
MSOLADEY

Analyzed By
MSOLADEY



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EMSL Analytical, Incorporated
Project: AD12079
Sample Matrix: Misc. Solid
Sample Name: AD12079-01
Lab Code: K2504206-001

Service Request: K2504206
Date Collected: 02/13/25
Date Received: 04/24/25 09:50
Basis: NA

Toxicity Characteristics Leachate Procedure (TCLP)

TCLP Metals

Pre-Prep Method: EPA 1311

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7470A	6.3	mg/L	2.0	2000	05/01/25 13:09	04/30/25	



QC Summary Forms

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EMSL Analytical, Incorporated
Project: AD12079
Sample Matrix: Misc. Solid
Sample Name: Method Blank
Lab Code: KQ2506962-01

Service Request: K2504206
Date Collected: NA
Date Received: NA
Basis: NA

Toxicity Characteristics Leachate Procedure (TCLP)

TCLP Metals

Pre-Prep Method: EPA 1311

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7470A	ND U	mg/L	0.0010	1	05/01/25 11:03	04/30/25	

APPENDIX F

Lead Analyzer Test Results

ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00

LEAD ANALYZER TEST RESULTS

SciAps, X-550 Pb, Serial #01052

NO.	SITE	INSPECTOR	FLOOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	TIME	RESULTS		
										LBP	mg/cm ²	+/- ERROR
1	UMES	HUBBARD	-	-	CALIBRATE	METAL	INTACT	SILVER	2/13/2025 9:11	POSITIVE	1.0257	0.0332
2	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/13/2025 9:11	POSITIVE	1.0211	0.0311
3	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/13/2025 9:11	POSITIVE	1.0248	0.031
4	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/13/2025 9:11	POSITIVE	1.0239	0.0183
5	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/13/2025 15:27	POSITIVE	1.016	0.0167
6	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/13/2025 15:28	POSITIVE	1.0351	0.0169
7	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/13/2025 15:28	POSITIVE	1.0382	0.0167
8	UMES	HUBBARD	-	-	CALIBRATE	METAL	INTACT	SILVER	2/14/2025 8:30	POSITIVE	1.0232	0.0322
9	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/14/2025 8:31	POSITIVE	1.1266	0.0326
10	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/14/2025 8:31	POSITIVE	1.015	0.0297
11	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/14/2025 8:31	POSITIVE	1.0549	0.0182
12	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/14/2025 8:31	POSITIVE	1.1325	0.0176
13	UMES	HUBBARD	1ST FLOOR	113A	FLOOR	CONCRETE	INTACT	GREY	2/14/2025 8:56	NEGATIVE	0.0009	0.0007
14	UMES	HUBBARD	1ST FLOOR	115 KITCHEN	CEILING	CONCRETE	INTACT	YELLOW	2/14/2025 9:35	NEGATIVE	0.3896	0.011
15	UMES	HUBBARD	1ST FLOOR	117 MPR	WALL	WOOD	INTACT	OFF-WHITE	2/14/2025 9:57	NEGATIVE	0.2799	0.0123
16	UMES	HUBBARD	1ST FLOOR	121 STAGE	RAILING	METAL	INTACT	AQUA	2/14/2025 10:54	NEGATIVE	0.0005	0.0002
17	UMES	HUBBARD	1ST FLOOR	121 STAGE	COVE BASE	RUBBER	INTACT	FUSCHIA	2/14/2025 10:55	NEGATIVE	0.0479	0.0192
18	UMES	HUBBARD	1ST FLOOR	124	WALL	DRYWALL	INTACT	OFF-WHITE	2/14/2025 10:57	NEGATIVE	0.0003	0.0002
19	UMES	HUBBARD	1ST FLOOR	124	COLUMN	METAL	INTACT	OFF-WHITE	2/14/2025 10:59	NEGATIVE	0.0002	0.0002
20	UMES	HUBBARD	1ST FLOOR	121 STAGE	DOOR	METAL	INTACT	TAN	2/14/2025 11:01	NEGATIVE	-0.0003	0.0002
21	UMES	HUBBARD	1ST FLOOR	121 STAGE	DOOR FRAME	METAL	INTACT	TAN	2/14/2025 11:02	NEGATIVE	0.0002	0.0002
22	UMES	HUBBARD	1ST FLOOR	122 STAGE	FLOOR TILE	VINYL	INTACT	OFF-WHITE	2/14/2025 11:09	NEGATIVE	0.0001	0.0002
23	UMES	HUBBARD	1ST FLOOR	130A	WALL	PLASTIC	INTACT	OFF-WHITE	2/14/2025 13:36	NEGATIVE	-0.0003	0.0002
24	UMES	HUBBARD	1ST FLOOR	130	COUNTER	FORMICA	INTACT	GREEN	2/14/2025 13:38	NEGATIVE	0.0007	0.0002
25	UMES	HUBBARD	1ST FLOOR	130	WALL	DRYWALL	INTACT	OFF-WHITE	2/14/2025 13:38	NEGATIVE	0.0006	0.0002
26	UMES	HUBBARD	1ST FLOOR	130	REGISTER	METAL	INTACT	TAN	2/14/2025 13:39	NEGATIVE	-0.0004	0.0004
27	UMES	HUBBARD	1ST FLOOR	127	TRUSS	METAL	INTACT	RED	2/14/2025 13:54	NEGATIVE	-0.0001	0.0006
28	UMES	HUBBARD	1ST FLOOR	130A	TOILET	CERAMIC	INTACT	WHITE	2/14/2025 13:56	NEGATIVE	0.0492	0.0067
29	UMES	HUBBARD	1ST FLOOR	130A	SINK	CERAMIC	INTACT	WHITE	2/14/2025 13:56	NEGATIVE	0.0035	0.0017
30	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/14/2025 15:42	POSITIVE	1.055	0.0172
31	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/14/2025 15:42	NEGATIVE	0.9999	0.0162
32	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/14/2025 15:42	NEGATIVE	0.9768	0.0163
33	UMES	HUBBARD	-	-	CALIBRATE	METAL	INTACT	SILVER	2/18/2025 9:27	NEGATIVE	0.9404	0.0305
34	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/18/2025 9:27	POSITIVE	1.0237	0.0324
35	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/18/2025 9:28	NEGATIVE	0.9689	0.0293
36	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/18/2025 9:28	NEGATIVE	0.9777	0.0178
37	UMES	HUBBARD	1ST FLOOR	141 LIBRARY	DOOR FRAME	METAL	INTACT	TAN	2/18/2025 9:29	NEGATIVE	-0.0003	0.0003
38	UMES	HUBBARD	1ST FLOOR	141 LIBRARY	COVE BASE	RUBBER	INTACT	TAN	2/18/2025 9:30	NEGATIVE	0.0107	0.0034
39	UMES	HUBBARD	1ST FLOOR	141 LIBRARY	WALL	DRYWALL	INTACT	OFF-WHITE	2/18/2025 9:32	NEGATIVE	0.0006	0.0002
40	UMES	HUBBARD	1ST FLOOR	141 LIBRARY	WINDOW FRAME	WOOD	INTACT	WHITE	2/18/2025 9:33	NEGATIVE	0.0001	0.0002
41	UMES	HUBBARD	1ST FLOOR	141 LIBRARY	DOOR	METAL	INTACT	OFF-WHITE	2/18/2025 10:09	NEGATIVE	0.0008	0.0007
42	UMES	HUBBARD	1ST FLOOR	141A	TOILET	CERAMIC	INTACT	WHITE	2/18/2025 10:11	NEGATIVE	0.0012	0.0006
43	UMES	HUBBARD	1ST FLOOR	141A	SINK	CERAMIC	INTACT	WHITE	2/18/2025 10:11	NEGATIVE	0.001	0.0006
44	UMES	HUBBARD	1ST FLOOR	137	TOILET	CERAMIC	INTACT	WHITE	2/18/2025 11:33	NEGATIVE	0.003	0.0017

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LEAD ANALYZER TEST RESULTS

NO.	SITE	INSPECTOR	FLOOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	TIME	RESULTS		
										LBP	mg/cm ²	+/- ERROR
45	UMES	HUBBARD	1ST FLOOR	137	SINK	CERAMIC	INTACT	WHITE	2/18/2025 11:34	NEGATIVE	0.0013	0.0006
46	UMES	HUBBARD	1ST FLOOR	137	WALL	CERAMIC	INTACT	WHITE	2/18/2025 11:34	NEGATIVE	0.002	0.0015
47	UMES	HUBBARD	1ST FLOOR	137	FLOOR TILE	CERAMIC	INTACT	OFF-WHITE	2/18/2025 11:35	NEGATIVE	0.0171	0.0046
48	UMES	HUBBARD	1ST FLOOR	137	DOOR FRAME	METAL	INTACT	TAN	2/18/2025 11:36	NEGATIVE	0.0012	0.0007
49	UMES	HUBBARD	1ST FLOOR	BASEMENT	WALL	CONCRETE	INTACT	PEA GREEN	2/18/2025 13:57	NEGATIVE	0.0503	0.0036
50	UMES	HUBBARD	1ST FLOOR	BASEMENT	ELECTRIC EQUIP	METAL	INTACT	GREY	2/18/2025 13:58	NEGATIVE	-0.0037	0.0007
51	UMES	HUBBARD	1ST FLOOR	BASEMENT	DOOR FRAME	METAL	INTACT	TAN	2/18/2025 14:00	NEGATIVE	-0.0008	0.0005
52	UMES	HUBBARD	1ST FLOOR	BASEMENT	DOOR	METAL	INTACT	TAN	2/18/2025 14:00	NEGATIVE	-0.0015	0.0005
53	UMES	HUBBARD	1ST FLOOR	BASEMENT	WALL	CONCRETE	INTACT	YELLOW	2/18/2025 14:02	NEGATIVE	0.287	0.0085
54	UMES	HUBBARD	1ST FLOOR	BASEMENT	DOOR	METAL	INTACT	RED	2/18/2025 14:04	NEGATIVE	0.0988	0.005
55	UMES	HUBBARD	1ST FLOOR	BASEMENT	DOOR FRAME	METAL	INTACT	RED	2/18/2025 14:05	NEGATIVE	0.5019	0.0108
56	UMES	HUBBARD	1ST FLOOR	BASEMENT	FLOOR	CONCRETE	INTACT	RED	2/18/2025 14:06	NEGATIVE	0.0474	0.0034
57	UMES	HUBBARD	1ST FLOOR	184 GYM	FLOOR	RUBBER	INTACT	GREY	2/18/2025 14:17	NEGATIVE	0	0.0003
58	UMES	HUBBARD	1ST FLOOR	184 GYM	DOOR	METAL	INTACT	TAN	2/18/2025 14:18	NEGATIVE	-0.0001	0.0003
59	UMES	HUBBARD	1ST FLOOR	184 GYM	DOOR FRAME	METAL	INTACT	TAN	2/18/2025 14:18	NEGATIVE	-0.0002	0.0002
60	UMES	HUBBARD	1ST FLOOR	189	TOILET	CERAMIC	INTACT	WHITE	2/18/2025 14:21	NEGATIVE	0.0719	0.0073
61	UMES	HUBBARD	1ST FLOOR	189	SINK	CERAMIC	INTACT	WHITE	2/18/2025 14:22	NEGATIVE	0.0002	0.0002
62	UMES	HUBBARD	1ST FLOOR	188	WINDOW SILL	FORMICA	INTACT	MULTI	2/18/2025 14:23	NEGATIVE	0.0002	0.0002
63	UMES	HUBBARD	1ST FLOOR	188	WINDOW FRAME	METAL	INTACT	DARK BROWN	2/18/2025 14:24	NEGATIVE	0.0004	0.0002
64	UMES	HUBBARD	1ST FLOOR	188	REGISTER	METAL	INTACT	TAN	2/18/2025 14:26	NEGATIVE	-0.0001	0.0002
65	UMES	HUBBARD	1ST FLOOR	186	RAILING	METAL	INTACT	TAN	2/18/2025 14:28	NEGATIVE	-0.0007	0.0004
66	UMES	HUBBARD	1ST FLOOR	184 GYM	WALL	FRP	INTACT	OFF-WHITE	2/18/2025 14:29	NEGATIVE	0.0001	0.0002
67	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/18/2025 16:02	NEGATIVE	0.9735	0.0162
68	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/18/2025 16:03	NEGATIVE	0.9826	0.0159
69	UMES	HUBBARD	-	-	CALIBRATE	WOOD	INTACT	RED	2/18/2025 16:03	NEGATIVE	0.9817	0.016

Table Heading Descriptions:

LBP: Results are shown as positive (POS $\geq$ 1.0 mg/cm²) or negative (NEG < 1.0 mg/cm²). Positive results are shown in bold print.

mg/cm²: This is the testing results produced by the SciAps X-550 Pb instrument in milligrams of lead per square centimeter (mg/cm²). The EPA defines lead based paint as paint containing lead at 1.0 mg/cm² or greater. A negative number is a result of an internal computation made by the instrument and should be interpreted as zero. Even though paint may be termed negative (less than 1.0 mg/cm²) by EPA definition, disturbance of the paint may still be regulated by OSHA under 29 CFR 1926.62. Where lead is present at any level, appropriate engineering controls, work practices and personal protective equipment should be used until a negative exposure assessment can be determined. <LOD indicates that the lead present was less than the limits of detection of the instrument (very little or no lead present).

VOID: This indicates that the test was intentionally terminated by the operator due to operator error (e.g. - operator moved analyzer while testing).

Substrate: Where ceramic is shown as a substrate, lead content is typically from the glazing on the tile unless the tile is painted.

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NITON Xlp-300A, Serial No. 81530

No.	SITE	INSPECTOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	Duration	Time	Depth Index	Results		
											LBP	mg/cm ²	+/- ERROR
1	URSA MAJOR ES	OTTOSEN	-	SHUTTER CAL	-	-	-	130.87	4/29/2014 13:19	-	-	2.37	0
2	URSA MAJOR ES	OTTOSEN	-	CALIBRATION CK	-	-	RED	20.23	4/29/2014 13:21	1.09	Positive	1.1	0.1
3	URSA MAJOR ES	OTTOSEN	-	CALIBRATION CK	-	-	RED	20.19	4/29/2014 13:23	2.53	Positive	1.1	0.1
4	URSA MAJOR ES	OTTOSEN	-	CALIBRATION CK	-	-	RED	20.47	4/29/2014 13:24	1.04	Positive	1	0.1
5	URSA MAJOR ES	OTTOSEN	NORTH EXTERIOR	HAND RAIL	METAL	POOR	GREEN	5.34	4/29/2014 13:25	1.22	Negative	0.02	0.02
6	URSA MAJOR ES	OTTOSEN	NORTH EXTERIOR	COLUMN	METAL	POOR	GREEN	5.34	4/29/2014 13:26	1.04	Negative	0.02	0.02
7	URSA MAJOR ES	OTTOSEN	NORTH EXTERIOR	RISER	METAL	POOR	GREEN	5.32	4/29/2014 13:26	1.4	Negative	0.04	0.02
8	URSA MAJOR ES	OTTOSEN	NORTH EXTERIOR	RISER	METAL	POOR	GREEN	5.36	4/29/2014 13:27	1.52	Negative	0.03	0.02
9	URSA MAJOR ES	OTTOSEN	NORTH EXTERIOR	COLUMN	METAL	POOR	GREEN	5.35	4/29/2014 13:27	1.62	Negative	0.02	0.02
10	URSA MAJOR ES	OTTOSEN	NORTH EXTERIOR	BEAM	METAL	POOR	GREEN	5.34	4/29/2014 13:28	1.47	Negative	0.02	0.02
11	URSA MAJOR ES	OTTOSEN	NORTH EXTERIOR	WALL	CONCRETE	FAIR	BEIGE	5.34	4/29/2014 13:28	1.31	Negative	0.01	0.02
12	URSA MAJOR ES	OTTOSEN	NORTH EXTERIOR	COLUMN	CONCRETE	FAIR	BEIGE	5.33	4/29/2014 13:29	1.47	Negative	0.01	0.02
13	URSA MAJOR ES	OTTOSEN	VOID	VOID	VOID	VOID	VOID	VOID	4/29/2014 13:29	VOID	VOID	0	0.06
14	URSA MAJOR ES	OTTOSEN	NORTH EXTERIOR	ROOF	METAL	POOR	GREEN	5.59	4/29/2014 13:30	3.37	Negative	0.02	0.04
15	URSA MAJOR ES	OTTOSEN	NORTH EXTERIOR	WALL	CEMENT BOARD	INTACT	BEIGE	5.13	4/29/2014 13:31	1	Negative	0	0.02
16	URSA MAJOR ES	OTTOSEN	NORTH EXTERIOR	DOOR FRAME	WOOD	INTACT	PINK	5.32	4/29/2014 13:32	1	Negative	0	0.02
17	URSA MAJOR ES	OTTOSEN	NORTH EXTERIOR	DOOR	METAL	INTACT	PINK	5.34	4/29/2014 13:32	1	Negative	0	0.02
18	URSA MAJOR ES	OTTOSEN	NORTH EXTERIOR	FLOOR	METAL	POOR	GREEN	4.88	4/29/2014 13:33	1.36	Negative	0.02	0.02
19	URSA MAJOR ES	OTTOSEN	NORTH EXTERIOR	COLUMN	CONCRETE	FAIR	BEIGE	5.37	4/29/2014 13:34	1.02	Negative	0	0.02
20	URSA MAJOR ES	OTTOSEN	-	CALIBRATION CK	-	-	RED	20.27	4/29/2014 13:35	1.05	Positive	1	0.1
21	URSA MAJOR ES	OTTOSEN	-	CALIBRATION CK	-	-	RED	20.23	4/29/2014 13:36	2.55	Positive	1.1	0.1
22	URSA MAJOR ES	OTTOSEN	-	CALIBRATION CK	-	-	RED	20.23	4/29/2014 13:38	1.07	Positive	1.1	0.1

Table Heading Descriptions:

Duration: This is the nominal time in seconds that each sample was analyzed.

Depth Index: Indicates the relative depth of the lead. A Depth Index (DI) of less than 1.5 indicates lead very near the surface layer of paint. A DI between 1.5 and 4.0 indicates moderately covered lead. A DI greater than 4.0 indicates the lead paint is deeply buried beneath multiple layers of paint.

LBP: Results are shown as positive (POS $\geq$ 1.0 mg/cm²), inconclusive (INC) or negative (NEG <1.0 mg/cm²). The results are based on the combined results of the K and L shell readings. L shell and K shell readings are not provided, but are available. Positive results are shown in bold print.

mg/cm²: This is the testing results produced by the NITON Xlp-300A instrument in milligrams of lead per square centimeter (mg/cm²). The EPA defines lead based paint as paint containing lead at 1.0 mg/cm² or greater. A negative number is a result of an internal computation made by the instrument and should be interpreted as zero. Even though paint may be termed negative (less than 1.0 mg/cm²) by EPA definition, disturbance of the paint may still be regulated by OSHA under 29 CFR 1926.62. Where lead is present at any level, appropriate engineering controls, work practices and personal protective equipment should be used until a negative exposure assessment can be determined. <LOD indicates that the lead present was less than the limits of detection of the instrument (very little or no lead present).

VOID: This indicates that the test was intentionally terminated by the operator due to operator error (e.g., operator moved analyzer while testing).

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No.	SITE	INSPECTOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	DURATION	TIME	DEPTH INDEX	Results		
											LPB	mg/cm ²	+/-Error
1	URSA MAJOR	SCHWAN	-	SHUTTER CAL	-	-	-	158.93	4/11/2012 16:30	-	-	2.94	0
2	URSA MAJOR	SCHWAN	-	CALIBRATION CK	-	-	RED	20.92	4/11/2012 16:33	1.06	Positive	1.00	0.10
3	URSA MAJOR	SCHWAN	-	CALIBRATION CK	-	-	RED	18.61	4/11/2012 16:34	1.08	Positive	1.10	0.10
4	URSA MAJOR	SCHWAN	-	VOID	VOID	VOID	VOID	VOID	4/11/2012 16:35	VOID	VOID	VOID	VOID
5	URSA MAJOR	SCHWAN	-	CALIBRATION CK	-	-	RED	9.38	4/11/2012 16:36	2.83	Positive	1.20	0.20
6	URSA MAJOR	SCHWAN	154	CLOSET DOOR	WOOD	INTACT	BEIGE	3.35	4/11/2012 16:38	1.47	Negative	0.01	0.02
7	URSA MAJOR	SCHWAN	154	CLOSET TRIM	WOOD	INTACT	BEIGE	15.25	4/11/2012 16:39	2.25	Negative	0.01	0.02
8	URSA MAJOR	SCHWAN	154	WALL	DRYWALL	INTACT	BEIGE	15.21	4/11/2012 16:40	1.00	Negative	0.00	0.02
9	URSA MAJOR	SCHWAN	154	WALL	DRYWALL	INTACT	BEIGE	5.44	4/11/2012 16:41	1.00	Negative	0.00	0.02
10	URSA MAJOR	SCHWAN	154	WALL	CONCRETE	INTACT	BEIGE	13.16	4/11/2012 16:44	3.98	Negative	0.01	0.02
11	URSA MAJOR	SCHWAN	154	WALL	DRYWALL	INTACT	BEIGE	10.46	4/11/2012 16:46	7.35	Negative	0.02	0.04
12	URSA MAJOR	SCHWAN	154	DOOR	WOOD	INTACT	BEIGE	5.21	4/11/2012 16:48	2.59	Negative	0.01	0.03
13	URSA MAJOR	SCHWAN	154	DOOR TRIM	WOOD	INTACT	BEIGE	6.69	4/11/2012 16:49	3.09	Negative	0.02	0.03
14	URSA MAJOR	SCHWAN	157	CABINET	WOOD	INTACT	BEIGE	3.76	4/11/2012 16:52	3.19	Negative	0.24	0.12
15	URSA MAJOR	SCHWAN	157	CLOSET DOOR	WOOD	INTACT	BEIGE	8.13	4/11/2012 16:54	4.63	Negative	0.02	0.04
16	URSA MAJOR	SCHWAN	157	CLOSET TRIM	WOOD	INTACT	BEIGE	5.64	4/11/2012 16:55	3.13	Negative	0.01	0.03
17	URSA MAJOR	SCHWAN	157	WALL	CONCRETE	INTACT	BEIGE	7.14	4/11/2012 16:57	4.14	Negative	0.01	0.03
18	URSA MAJOR	SCHWAN	157	DOOR TRIM	DRYWALL	INTACT	BEIGE	3.76	4/11/2012 16:59	3.87	Negative	0.02	0.05
19	URSA MAJOR	SCHWAN	157	DOOR	DRYWALL	INTACT	BEIGE	7.5	4/11/2012 17:00	2.75	Negative	0.02	0.03
20	URSA MAJOR	SCHWAN	157	WALL	WOOD	INTACT	BEIGE	10.22	4/11/2012 17:05	4.50	Negative	0.07	0.26
21	URSA MAJOR	SCHWAN	-	CALIBRATION CK	-	-	-	16.78	4/11/2012 17:10	1.08	Positive	1.10	0.10
22	URSA MAJOR	SCHWAN	-	CALIBRATION CK	-	-	-	23.45	4/11/2012 17:11	1.02	Positive	1.00	0.10
23	URSA MAJOR	SCHWAN	-	CALIBRATION CK	-	-	-	24.68	4/11/2012 17:12	2.60	Positive	1.10	0.10

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mg/cm²: This is the testing results produced by the NITON XLI-300 instrument in milligrams of lead per square centimeter (mg/cm²). The EPA defines lead based paint as paint containing lead at 1.0 mg/cm² or greater. A negative number is a result of an internal computation made by the instrument and should be interpreted as zero. Even though paint may be termed negative (less than 1.0 mg/cm²) by EPA definition, disturbance of the paint may still be regulated by OSHA under 29 CFR 1926.62. Where lead is present at any level, appropriate engineering controls, work practices and personal protective equipment should be used until a negative exposure assessment can be determined. <LOD indicates that the lead present was less than the limits of detection of the instrument (very little or no lead present).

VOID: This indicates that the test was intentionally terminated by the operator due to operator error (e.g. - operator moved analyzer while testing).

Substrate: Where ceramic is shown as a substrate, lead content is typically from the glazing on the tile unless the tile is painted.

**Lead Paint Screening
URSA MAJOR ELEMENTARY SCHOOL, WINDOW REPLACEMENT**

No	Site	Inspect	Floor	Room	Structure	Substrate	Feature	Condition	Color	Ssec	Date/Time	Depth Index	Results		
													LBP	mg/cm2	"+/-"
1	Ursa Major	French		Shutter Cal 1						60.5	11/5/2004 11:59	0	...	NA	
2	Ursa Major	French		Calibrate						40.5	11/5/2004 12:00	1	NEG	0.9	0.05
3	Ursa Major	French		Calibrate						39.6	11/5/2004 12:02	1	POS	1.47	0.14
4	Ursa Major	French		Calibrate						20	11/5/2004 12:03	1.2	POS	3.38	0.38
5	Ursa Major	French		Calibrate						42.1	11/5/2004 12:04	2.4	POS	1.49	0.23
6	Ursa Major	French		Calibrate						55.1	11/5/2004 12:06	2.4	POS	0.95	0.15
7	Ursa Major	French	1	MPR	Window		Casing	Intact	Brown	22.5	11/5/2004 12:09	1.8	NEG	0.67	0.17
8	Ursa Major	French	1	MPR	Wall	Marlite		Intact	White	21.2	11/5/2004 12:10	2.1	NEG	0.24	0.13
9	Ursa Major	French	1	Main entry	Window	Wood	Stool	Intact	Brown	61.3	11/5/2004 12:13	4.8	POS	1.54	0.54
10	Ursa Major	French	1	Main entry	Window	Metal	Sash Ext	Intact	Brown	23.6	11/5/2004 12:16	1	POS	2.49	0.95
11	Ursa Major	French	1	Exterior	Wall	Concrete		Intact	Beige	28.7	11/5/2004 12:18	1.6	NEG	0.01	0.1
12	Ursa Major	French	1	Exterior	Window	Concrete	Sash Ext	Intact	Brown	13.6	11/5/2004 12:19	2.3	POS	1.58	0.43
13	Ursa Major	French	1	Room 151	Window	Wood	Stool	Intact	Beige	27.5	11/5/2004 12:22	6.7	POS	1.43	0.61
14	Ursa Major	French	1	Room 160	Window	Wood	Stool	Intact	Beige	24.7	11/5/2004 12:24	2.1	NEG	0.72	0.19
15	Ursa Major	French	1	Room 157	Window	Wood	Stops	Intact	Brown	41.9	11/5/2004 12:29	2.5	NEG	0.89	0.18
16	Ursa Major	French	1	Room 157	Wall	Plywood		Intact	White	23.1	11/5/2004 12:31	1	NEG	0	0.01
17	Ursa Major	French	1	Room 157	Wall	Clg tile	Fbg	Intact	White	23.9	11/5/2004 12:33	1	NEG	0	0.06
18	Ursa Major	French	1	Room 157	Wall	Plywood		Intact	Beige	18.7	11/5/2004 12:35	1	NEG	0	0.01
19	Ursa Major	French	1	Room 165	Window	Wood	Sash	Intact	Brown	43.8	11/5/2004 12:37	3	POS	1.65	0.61
20	Ursa Major	French	1	Room 165	Wall	Plywood		Intact	White	7.5	11/5/2004 12:39	1	NEG	0	0.01
21	Ursa Major	French	1	Bath 170	Wall	Ceramic	Tile	Intact	White	8.2	11/5/2004 12:41	1	POS	6.46	2.25
22	Ursa Major	French	1	Bath 170	Window	Wood	Sash	Intact	Brown	14.4	11/5/2004 12:42	1	NEG	0.03	0.03
23	Ursa Major	French	1	W entry	Window	Metal	Stops	Intact	Brown	7.9	11/5/2004 12:44	1	POS	4.75	1.79
24	Ursa Major	French	1	Room 175	Window	Wood	Casing	Intact	Brown	20.2	11/5/2004 12:46	2.1	POS	1.29	0.29
25	Ursa Major	French	1	Room 175	Wall	Plywood		Intact	White	16.4	11/5/2004 12:48	1.4	NEG	0.08	0.08
26	Ursa Major	French	1	Room 181	Wall	Drywall		Intact	White	16.7	11/5/2004 12:51	1	NEG	0	0.01
27	Ursa Major	French	1	Room 181	Window	Wood	Stool	Intact	Brown	21	11/5/2004 12:52	6.6	NEG	0.51	0.5
28	Ursa Major	French	1	Room 181	Window	Wood	Stool	Intact	Brown	45.4	11/5/2004 12:54	4.3	NEG	0.83	0.25
29	Ursa Major	French	1	Room 235	Window	Wood	Stool	Intact	Beige	20.5	11/5/2004 12:58	2.4	NEG	0.73	0.23
30	Ursa Major	French	1	Room 236	Window	Drywall	Stool	Intact	Green	35.2	11/5/2004 13:00	1	NEG	0.09	0.02
31	Ursa Major	French	1	Exterior	Wall	Concrete		Intact	White	12.5	11/5/2004 13:02	1	POS	3.28	1.68
32	Ursa Major	French	1	Exterior	Window	Concrete	Sash Ext	Intact	Brown	49.2	11/5/2004 13:04	3.3	POS	3.44	0.63
33	Ursa Major	French	1	Room 227	Window	Wood	Sash	Intact	Beige	20.6	11/5/2004 13:20	2.4	NEG	0.69	0.23
34	Ursa Major	French	1	Room 227	Wall	Marlite		Intact	White	27.6	11/5/2004 13:21	1	POS	2	0.8
35	Ursa Major	French	1	Room 227	Wall	Clg tile	Fbg	Intact	White	49.4	11/5/2004 13:23	4.3	NEG	0.01	0.06
36	Ursa Major	French	1	Bath 217	Wall	Ceramic	Tile	Intact	White	11.9	11/5/2004 13:28	1	POS	4.67	1.72
37	Ursa Major	French	1	Bath 217	Window	Wood	Sash	Intact	Brown	21.1	11/5/2004 13:29	2.1	NEG	0.06	0.11
38	Ursa Major	French	1	Room 212	Wall	Marlite		Intact	White	20.6	11/5/2004 13:31	1.4	NEG	0.08	0.07
39	Ursa Major	French	1	Room 212	Window	Wood	Casing	Intact	Beige	35.6	11/5/2004 13:33	2.3	POS	1.07	0.2
40	Ursa Major	French	1	Room 201	Window	Wood	Casing	Intact	Brown	33.4	11/5/2004 13:35	2.2	POS	1.06	0.2

Lead Paint Screening
URSA MAJOR ELEMENTARY SCHOOL, WINDOW REPLACEMENT

No	Site	Inspect	Floor	Room	Structure	Substrate	Feature	Condition	Color	Ssec	Date/Time	Depth Index	Results		
													LBP	mg/cm ²	"+/-"
41	Ursa Major	French	1	Exterior	Wall	Concrete		Intact	Beige	24.1	11/5/2004 13:37	1	NEG	0	0.02
42	Ursa Major	French	1	Exterior	Wall	Concrete	Stool	Intact	Beige	40.3	11/5/2004 13:40	1.2	NEG	0.01	0.06
43	Ursa Major	French		Calibrate						61.7	11/5/2004 13:43	2.1	NEG	0.85	0.13
44	Ursa Major	French		Calibrate						20.7	11/5/2004 13:45	1	NEG	0	0.01
45	Ursa Major	French		Calibrate						40.3	11/5/2004 13:46	2	NEG	0.22	0.09
46	Ursa Major	French		Calibrate						31.1	11/5/2004 13:47	2.5	POS	1.59	0.29
47	Ursa Major	French		Calibrate						20.4	11/5/2004 13:49	1	NEG	0.25	0.04
48	Ursa Major	French		Calibrate						42.7	11/5/2004 13:50	1	NEG	0.88	0.08
49	Ursa Major	French		Calibrate						23.8	11/5/2004 13:52	1.2	POS	3.6	0.37

Table Heading Descriptions:

Ssec: This is the nominal time in seconds that each sample was analyzed.

Depth Index: Indicates the relative depth of the lead. A Depth Index (DI) of less than 1.5 indicates lead very near the surface layer of paint. A DI between 1.5 and 4.0 indicates moderately covered lead. A DI greater than 4.0 indicates the lead paint is deeply buried beneath multiple layers of paint.

LBP: Results are shown as positive (POS ≥ 1.0 mg/cm²), inconclusive (INC) or negative (NEG < 1.0 mg/cm²). The results are based on the combined results of the K and L shell readings. L shell and K shell readings are not provided. Positive results are also in bold print.

mg/cm²: This is the testing results produced by the NITON XL-309 instrument in milligrams of lead per square centimeter (mg/cm²). The EPA defines lead based paint as paint containing lead at 1.0 mg/cm² or greater. A negative number is a result of an internal computation made by the instrument and should be interpreted as zero. Even though paint may be termed negative (less than 1.0 mg/cm) by EPA definition, disturbance of the paint may still be regulated by OSHA under 29 CFR 1926.62. Where lead is present at any level, appropriate engineering controls, work practices and personal protective equipment should be used until a negative exposure assessment can be determined.

VOID: This indicates that the test was intentionally terminated by the operator due to operator error (e.g. - operator moved analyzer while testing).

PAINT

Header: URSA MAJOR ELEM.

Site:

Date: 4/10/2001 17:52:55

Ranges (NEG<INC<POS): Device PCS

No	Room	Structure	Substrate	Feature	Condition	Color	Result	Error +/-
1	Shutter Cal 1						NA	
2	Calibrate						0	0.01
3	Calibrate						0.26	0.03
4	Calibrate						0.92	0.11
5	Calibrate						1.53	0.25
6	Calibrate						3.3	0.48
7	Room		Metal		Fair	Red	0.16	0.25
8	Room		Concrte		Fair	Green	0.02	0.01
9	Room	Floor	Concrte		Fair	Red	-0.31	1
10	Room	Ceiling	Drywall		Intact	White	0	0.02
11	Room	Ceiling	Drywall		Intact	White	-0.31	0.82
12	Room	Wall	Wood		Intact	White	0.02	0.07
13	Room	Cabinet	Wood	Door Out	Intact	White	0	0.02



Environmental Health Sciences-Alaska, Inc.
10928 Eagle River Road, Suite 202, Eagle River, AK 99577-8052
Tel # (907) 694-1383 Fax # (907) 694-1382

PAGE 1 OF 1

9406522

CHAIN OF CUSTODY RECORD / ASBESTOS SURVEY DATA SHEET

JOB NUMBER: 3603-01-01			BULK ANALYSIS REQUESTED: PLM-TEM TOTAL LEAD			
PROJECT NAME: URSA MAJOR ADDITION			SAMPLE QUANTITY: 5			
CLIENT: KROCHINA ARCH			TURNAROUND REQUESTED: 3 DAYS			
PROJECT LOCATION: FT RICH, AK			SPECIAL INSTRUCTIONS:			

SAMPLE I.D.	MATERIAL DESCRIPTION	LOCATION OF MATERIAL (PHOTO / XREF.)	MATERIAL CONDITION	MATERIAL CATEGORY	FRIABLE	ASBESTOS CONTENT
11320 UJL-01	BROWN/GREEN PAINT	EXIT DOORS/DOOR FRAMES & TRIM & ON DOORS TO KITCHEN/GYM & MULTIPURPOSE ROOM (INTERIOR)	OK SOME PEELING	T S M O	F NF	Y N 15,000 ppm
11321 UJL-02	NEW GREEN OLD GREEN YELLOW PAINT	EXTERIOR OF BUILDING & MAIN AREAS ON GROUND IN LARGE CHUNKS	POOR LOTS OF PEELING & CRACKING	T S M O	F NF	Y N 12,000 ppm
11322 UJL-03	MAROON GREEN PAINT	EXTERIOR TRIM PAINT ON DOORS WINDOWS & OVERHANGS	POOR CONDITION	T S M O	F NF	Y N 19,000 ppm
11323 UJL-04	LIGHT GREEN PAINT	WALL PAINT IN BATHROOMS TYP	OK	T S M O	F NF	Y N 4,600 ppm
11324 UJL-05	MED. GREEN PAINT	BATHROOM PARTITION AND WASHBOWL PAINT	OK	T S M O	F NF	Y N 2,600 ppm
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N
				T S M O	F NF	Y N

Asbestos Content: Y = yes, N = no

Material Category: T = thermal system insulation, S = surfacing material, M = miscellaneous, O = other, Friability: F = friable, NF = nonfriable

I Certify that the listed samples were collected at the stated facility.		Relinquished By	
SIGNATURE: Tony Slaton Barker		SIGNATURE:	
PRINTED NAME: TONY SLATON BARKER		PRINTED NAME:	
COLLECTION DATE: 5-13-94		FIRM:	
CERT. #:	AMERA #:	DATE/TIME:	
SHIPPING METHOD: FED EX		Received By	
SELECTED LAB: EMSL		SIGNATURE:	
COURIER SIGNATURE:		PRINTED NAME:	
PRINTED NAME:		FIRM:	
DATE/TIME:		DATE/TIME:	
FIRM:		I CERTIFY THAT THE LISTED SAMPLES HAVE BEEN ANALYZED BY ME	
DATE/TIME:		ACCORDING TO THE PROCEDURES SPECIFIED BY LAW.	
LABORATORY RECEIPT DATE/TIME: 5/17/94 11:00		ANALYST SIGNATURE:	
SIGNATURE: [Signature]		PRINTED NAME:	
DATE/TIME:		FIRM:	
		DATE/TIME:	

Ursa Major ES Replacement ITB-1-Demolition
Project 386011

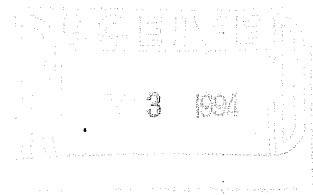


Attention: Toni Slatonbarker
Environmental Health Sciences-A1
10928 Eagle River Road
Suite 202
Eagle River, AK 99577

Project #: 9406562
Date Received: 05/17/94 11:00

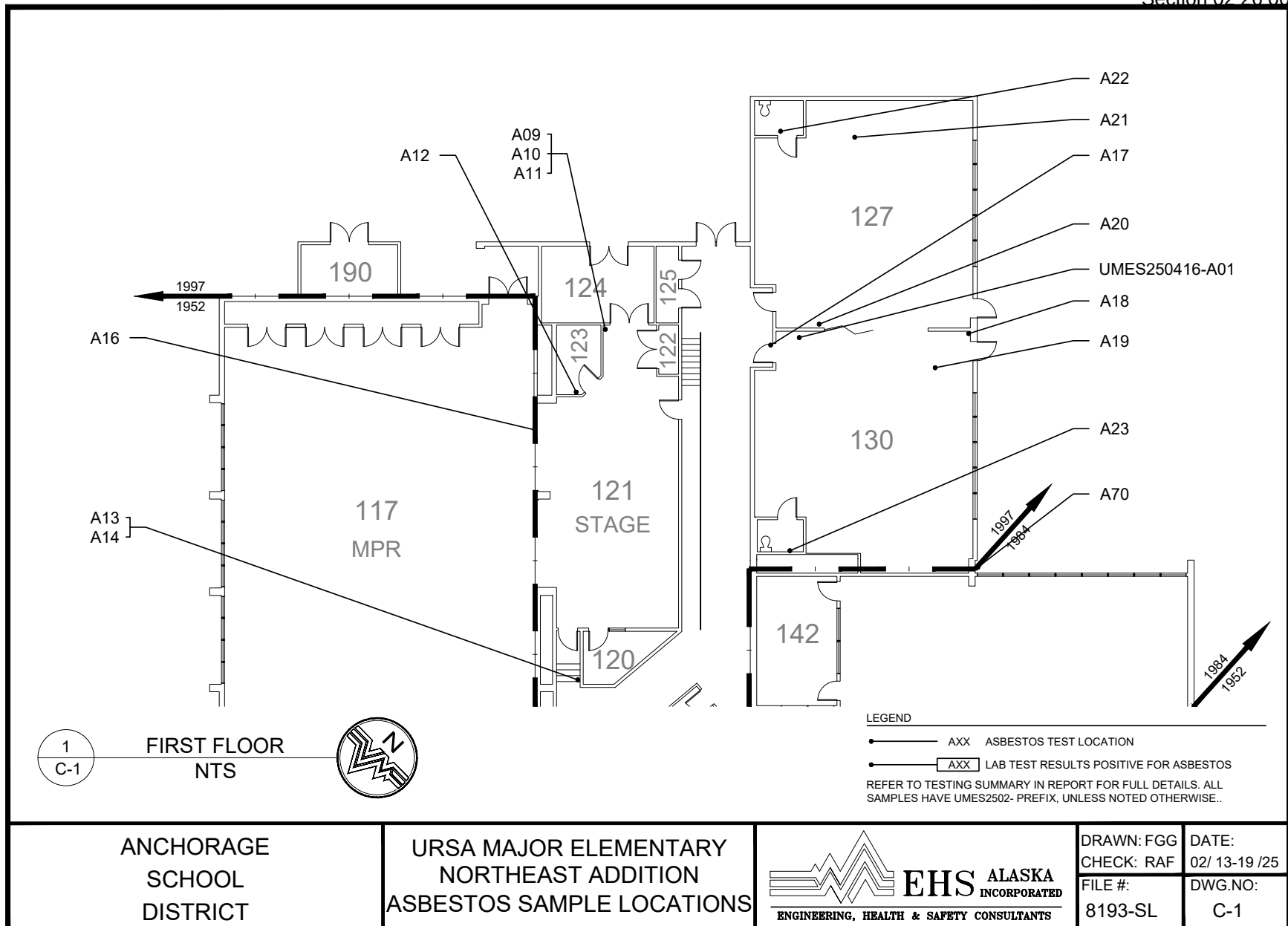
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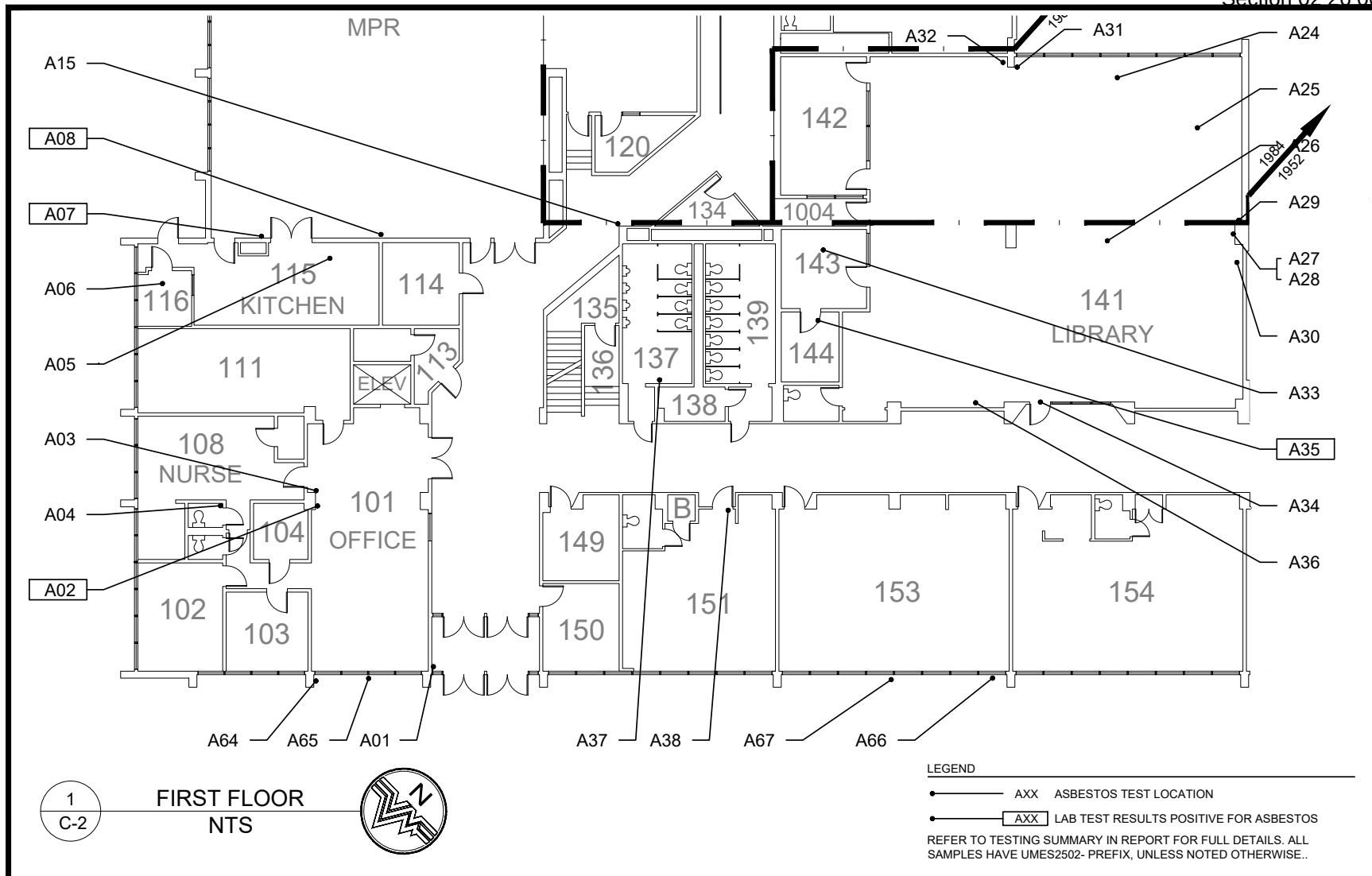
Lab #	Conc.	Unit	Client Designation
-----	-----	-----	-----
94 0011320	1.5	%	UJL-01
94 0011321	0.12	%	UJL-02
94 0011322	1.9	%	UJL-03
94 0011323	<0.06	%	UJL-04
94 0011324	0.26	%	UJL-05



APPENDIX G

Drawings of Sample Locations



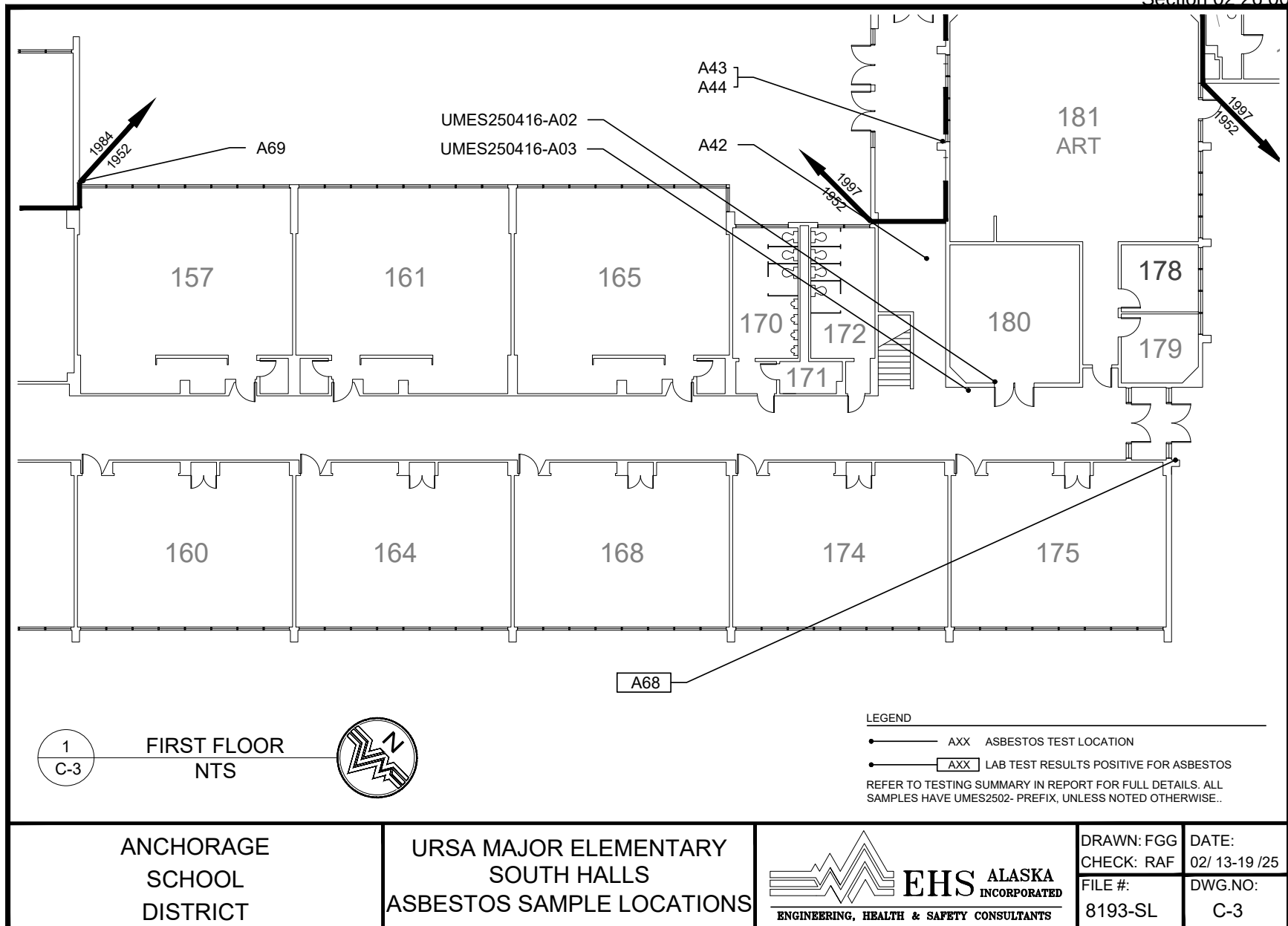


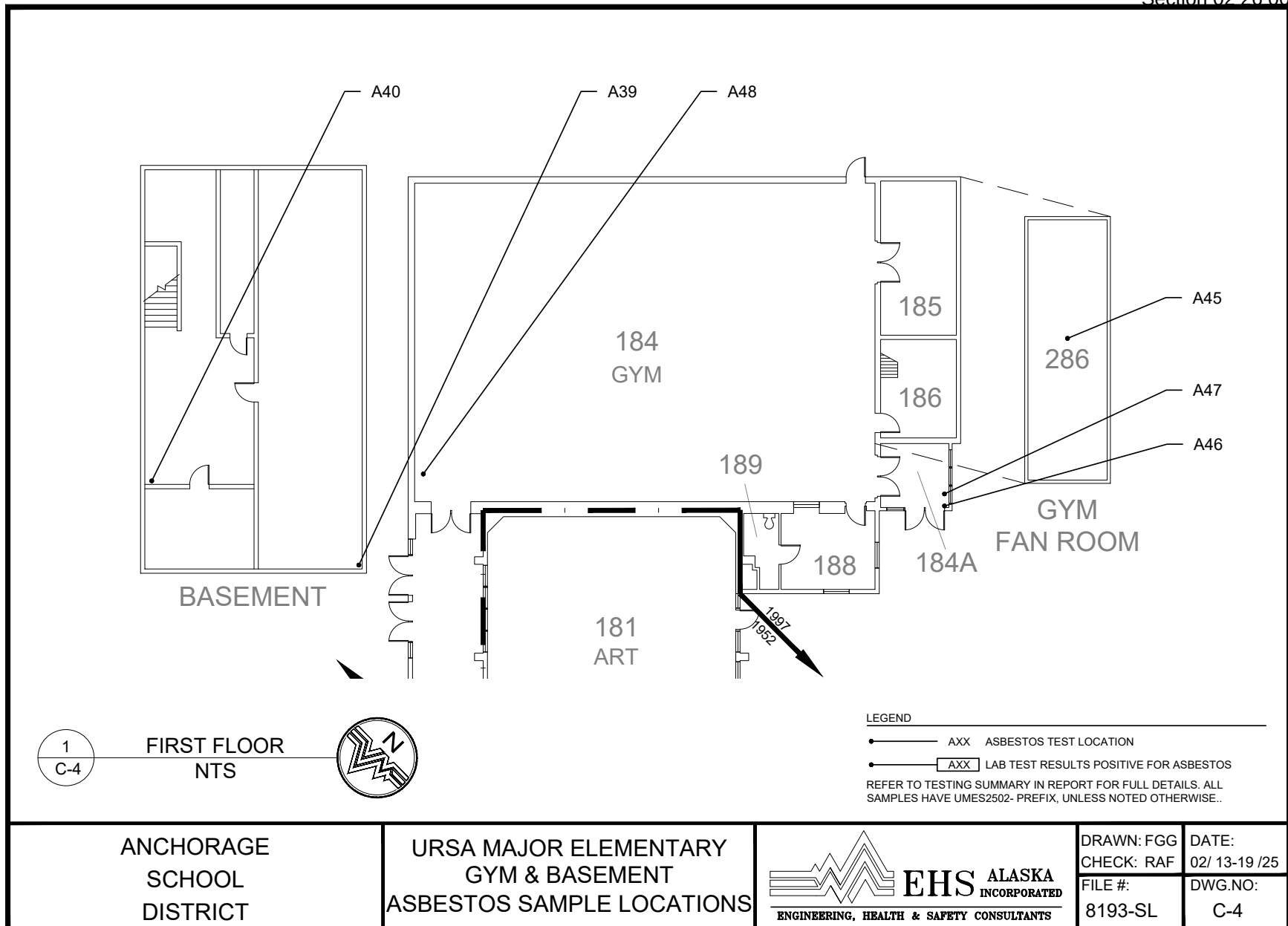
ANCHORAGE
SCHOOL
DISTRICT

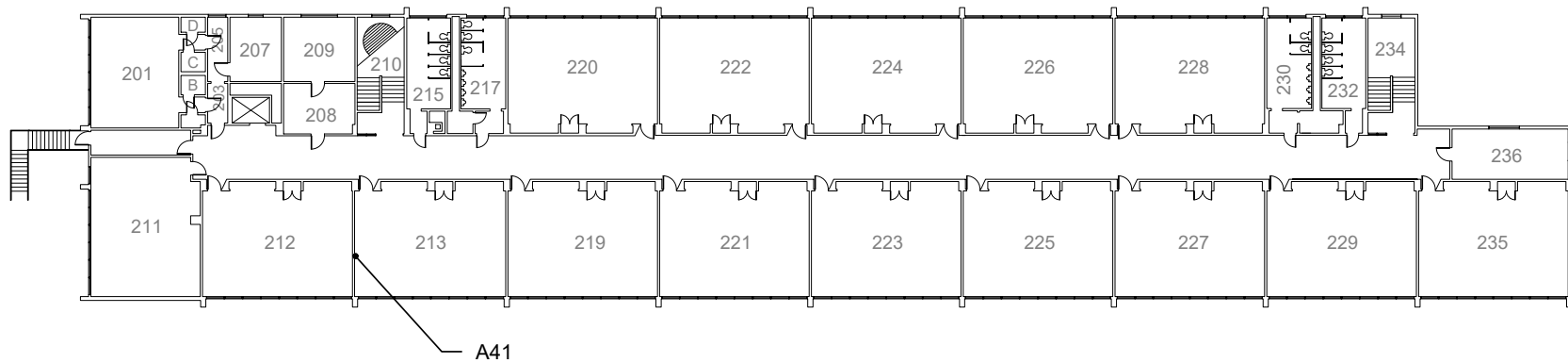
URSA MAJOR ELEMENTARY
NORTH OFFICE & ROOMS
ASBESTOS SAMPLE LOCATIONS



DRAWN: FGG	DATE: 02/ 13-19 /25
CHECK: RAF	
FILE #:	DWG.NO:
8193-SL	C-2

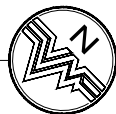






1
C-5

SECOND FLOOR
NTS



LEGEND

- AXX ASBESTOS TEST LOCATION
- AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS

REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL
SAMPLES HAVE UMES2502- PREFIX, UNLESS NOTED OTHERWISE..

ANCHORAGE
SCHOOL
DISTRICT

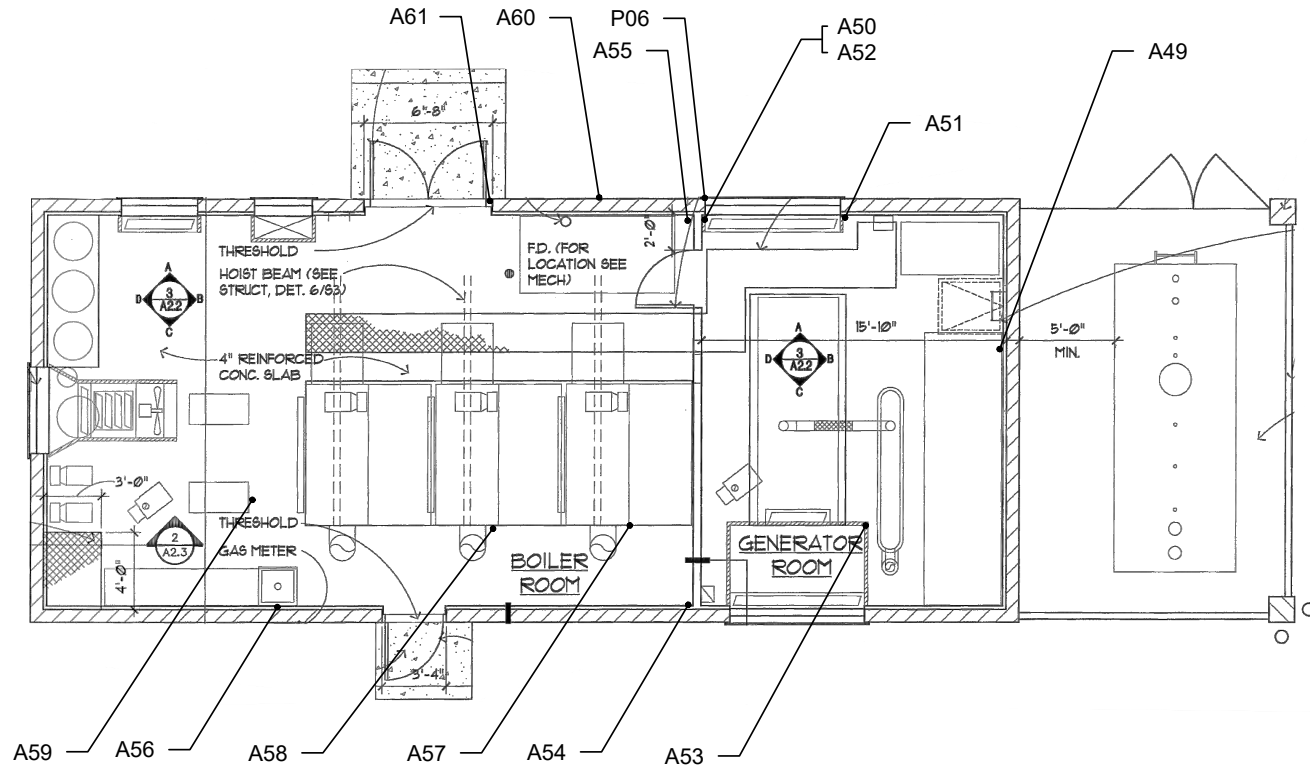
URSA MAJOR ELEMENTARY
SECOND FLOOR
ASBESTOS SAMPLE LOCATIONS



DRAWN: FGG	DATE: 02/ 13-19 /25
CHECK: RAF	DWG.NO:
FILE #:	C-5
8193-SL	

NOTE

SAMPLES A62 AND A63 WERE TAKEN
FROM THE ROOF OF THE NEARBY
SHED (NOT SHOWN)



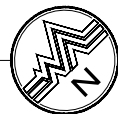
LEGEND

- AXX ASBESTOS TEST LOCATION
- AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS
- PXX PCB TEST LOCATION
- PXX LAB TEST RESULTS POSITIVE FOR PCBs

REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL
SAMPLES HAVE UMES2502- PREFIX.

1
C-6

GENERATOR ROOM
NTS

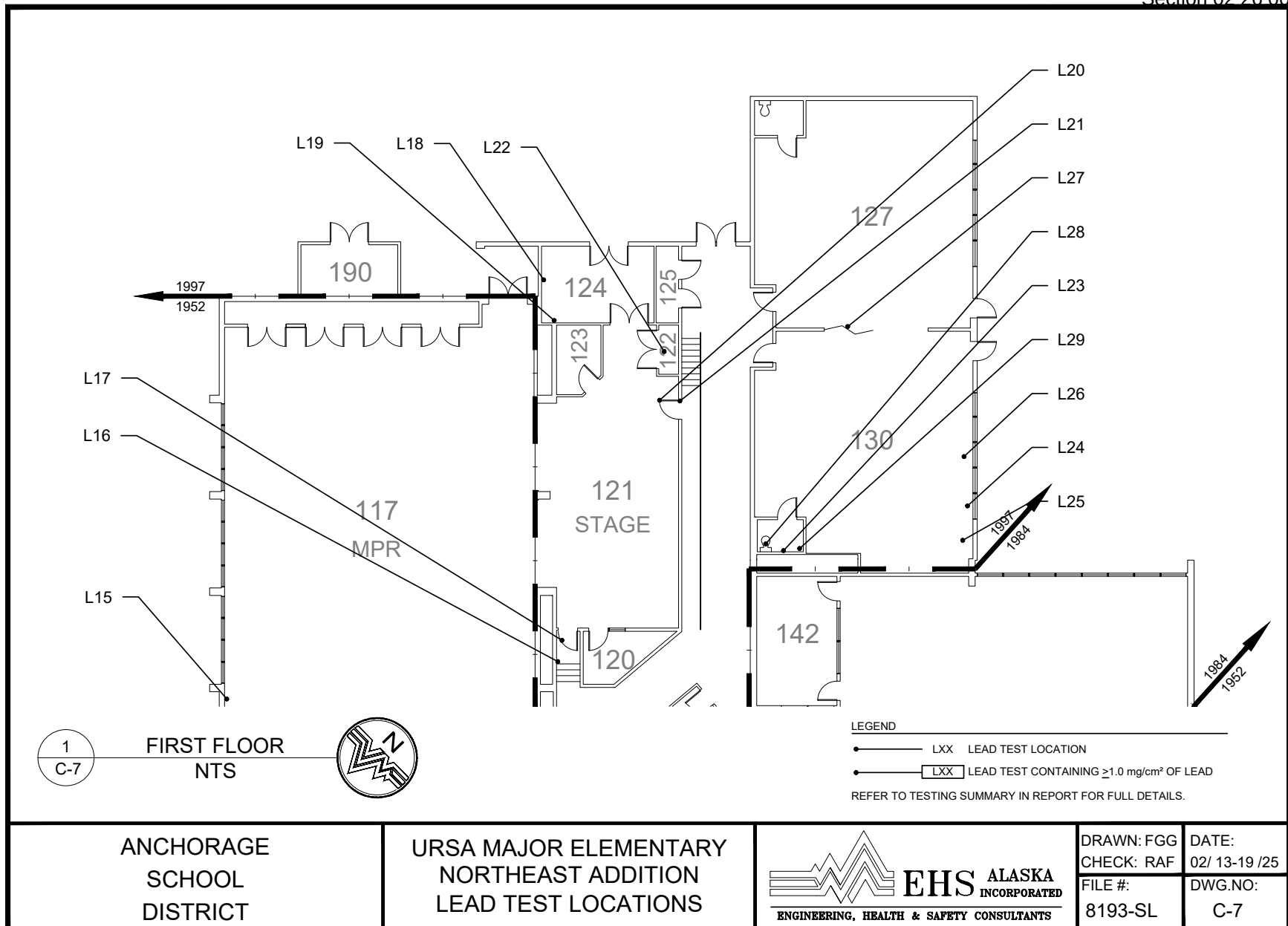


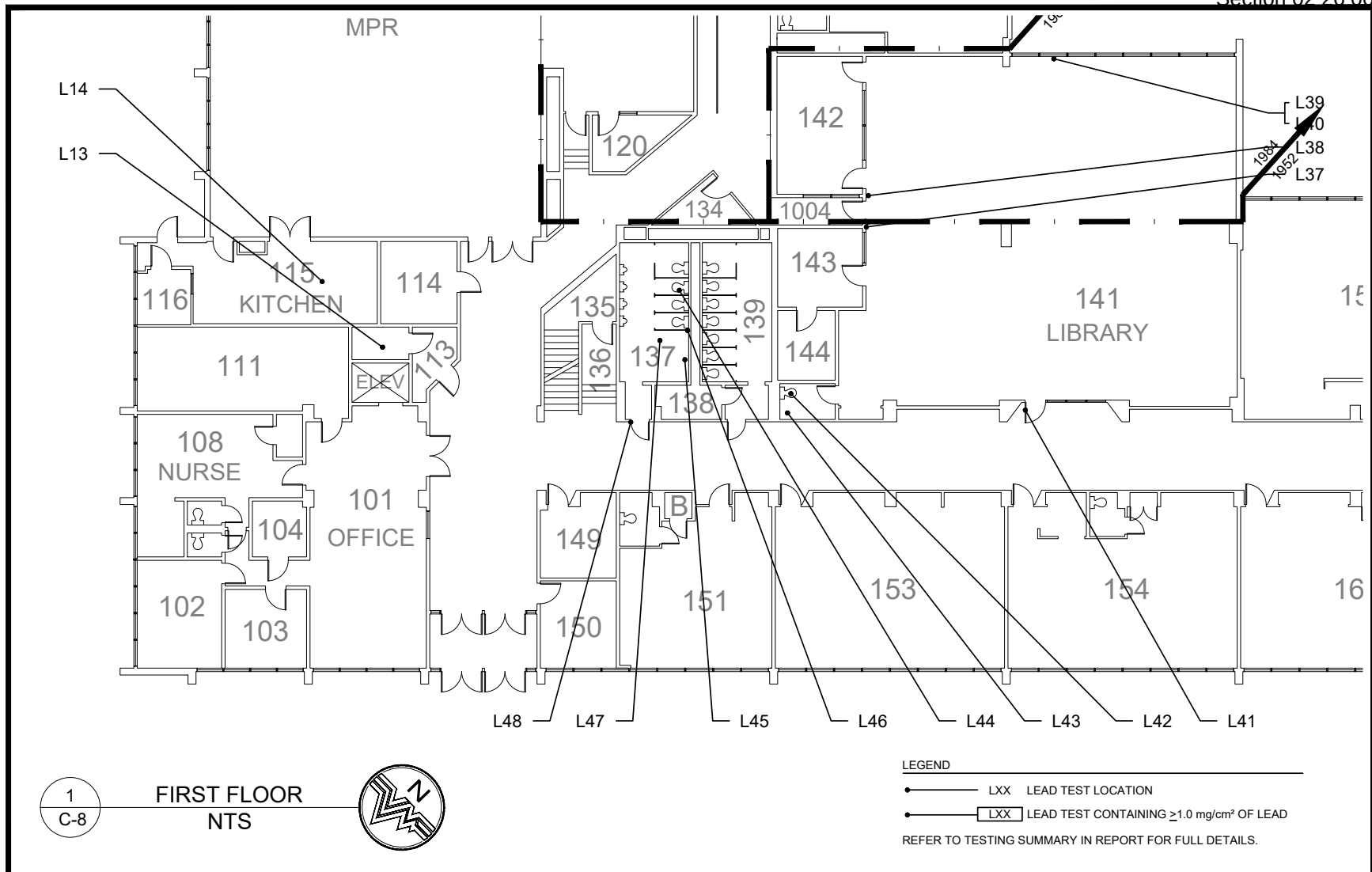
ANCHORAGE
SCHOOL
DISTRICT

URSA MAJOR ELEMENTARY
GENERATOR BUILDING, PCB &
ASBESTOS SAMPLE LOCATIONS



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CHECK: RAF	
FILE #: 8193-SL	DWG. NO: C-6



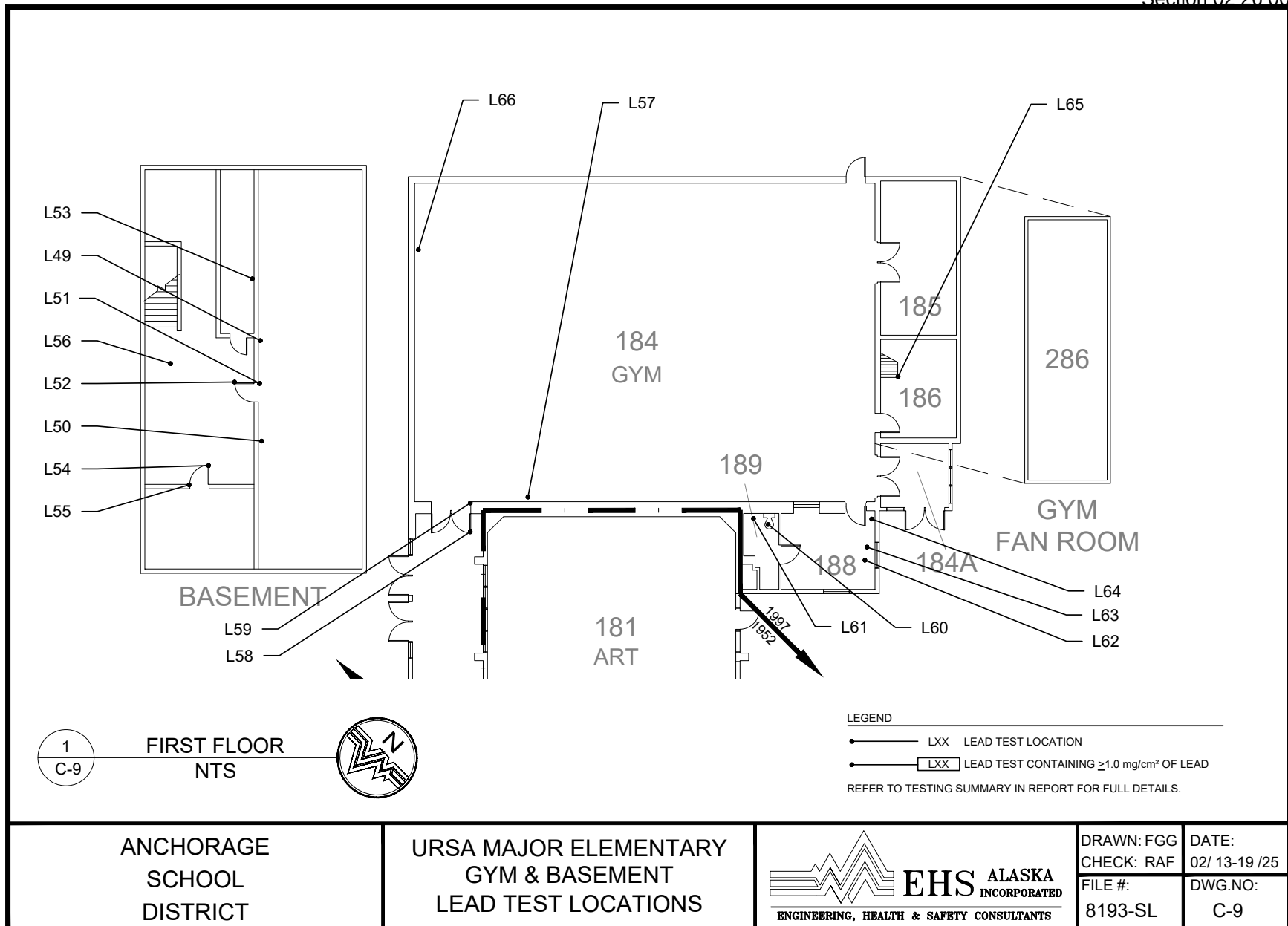


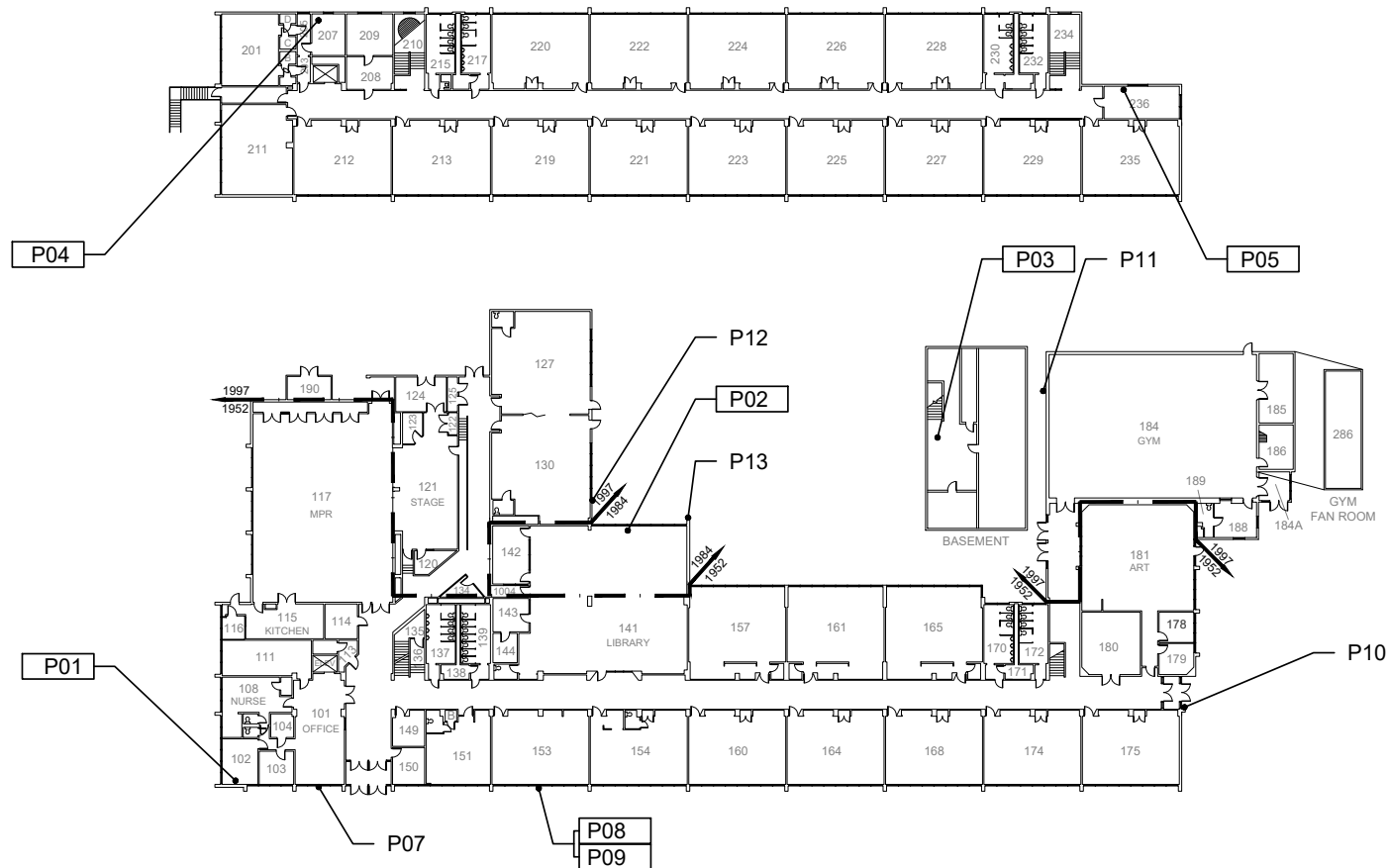
ANCHORAGE
SCHOOL
DISTRICT

URSA MAJOR ELEMENTARY
NORTH OFFICES & ROOMS
LEAD TEST LOCATIONS



DRAWN: FGG	DATE: 02/13-19/25
CHECK: RAF	
FILE #: 8193-SL	DWG.NO: C-8





1
C-1

FULL FLOOR PLAN
NTS



LEGEND

- PXX PCB TEST LOCATION
- PXX LAB TEST RESULTS POSITIVE FOR PCBs

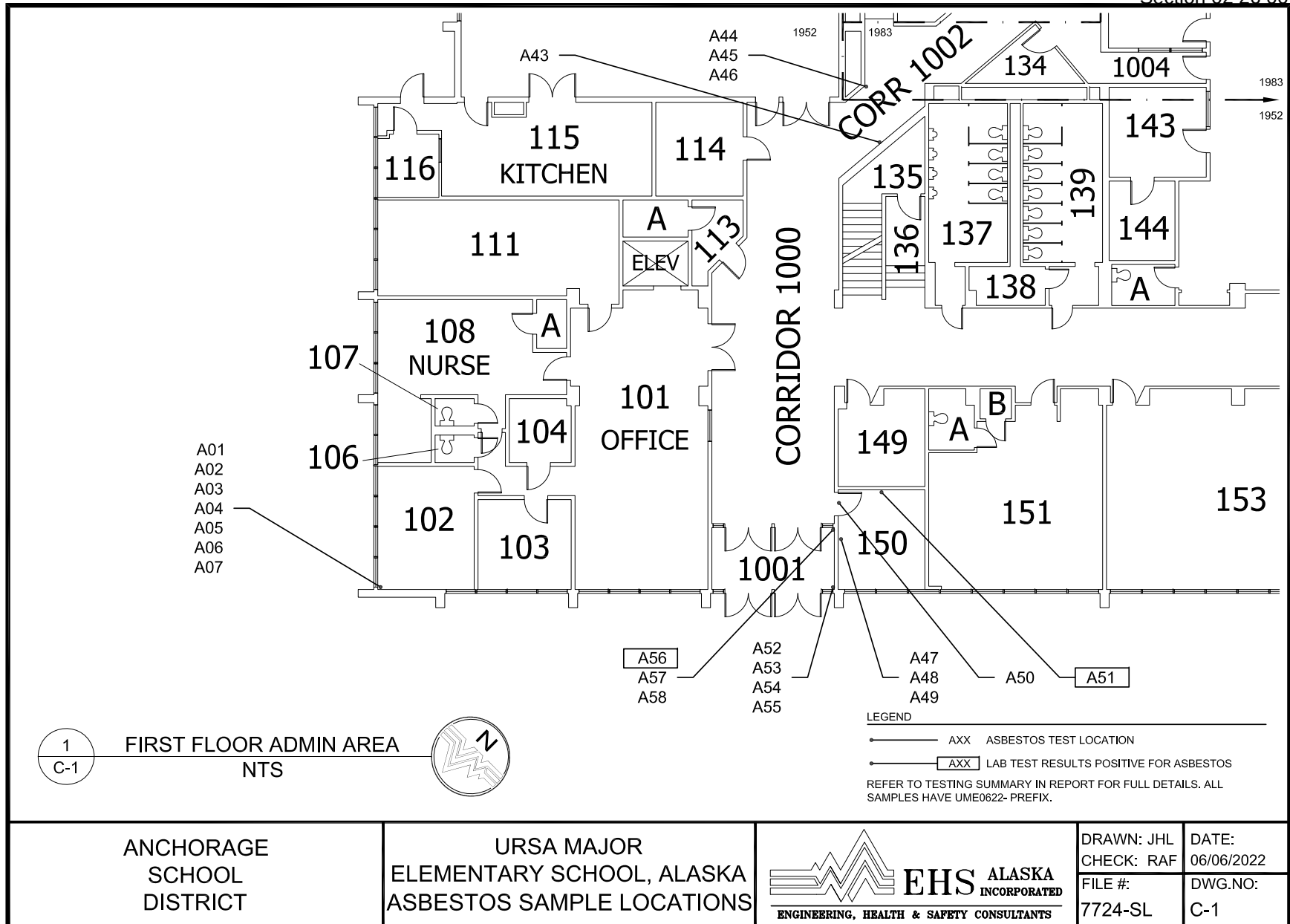
REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL
SAMPLES HAVE UMES2502- PREFIX.

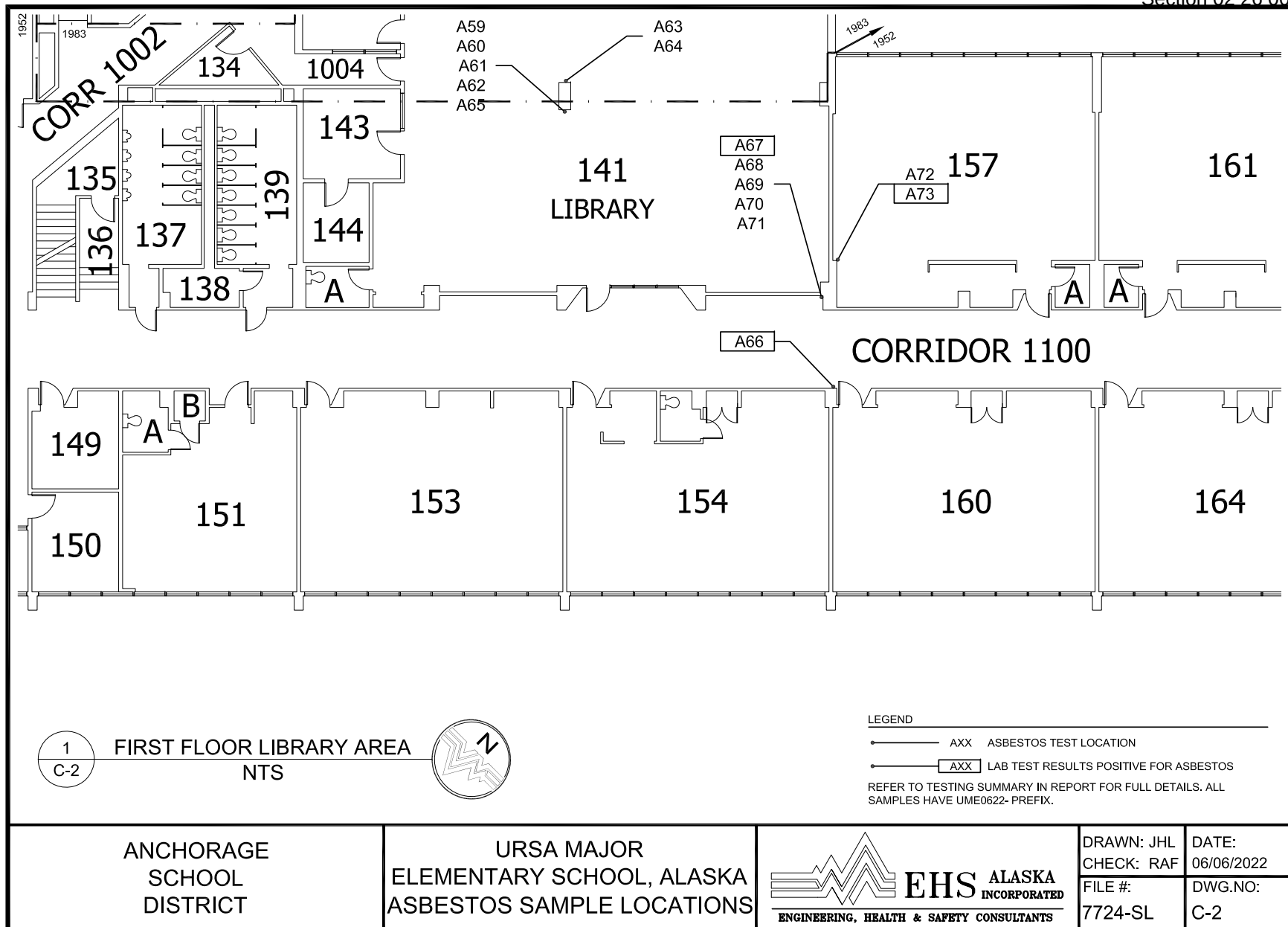
ANCHORAGE
SCHOOL
DISTRICT

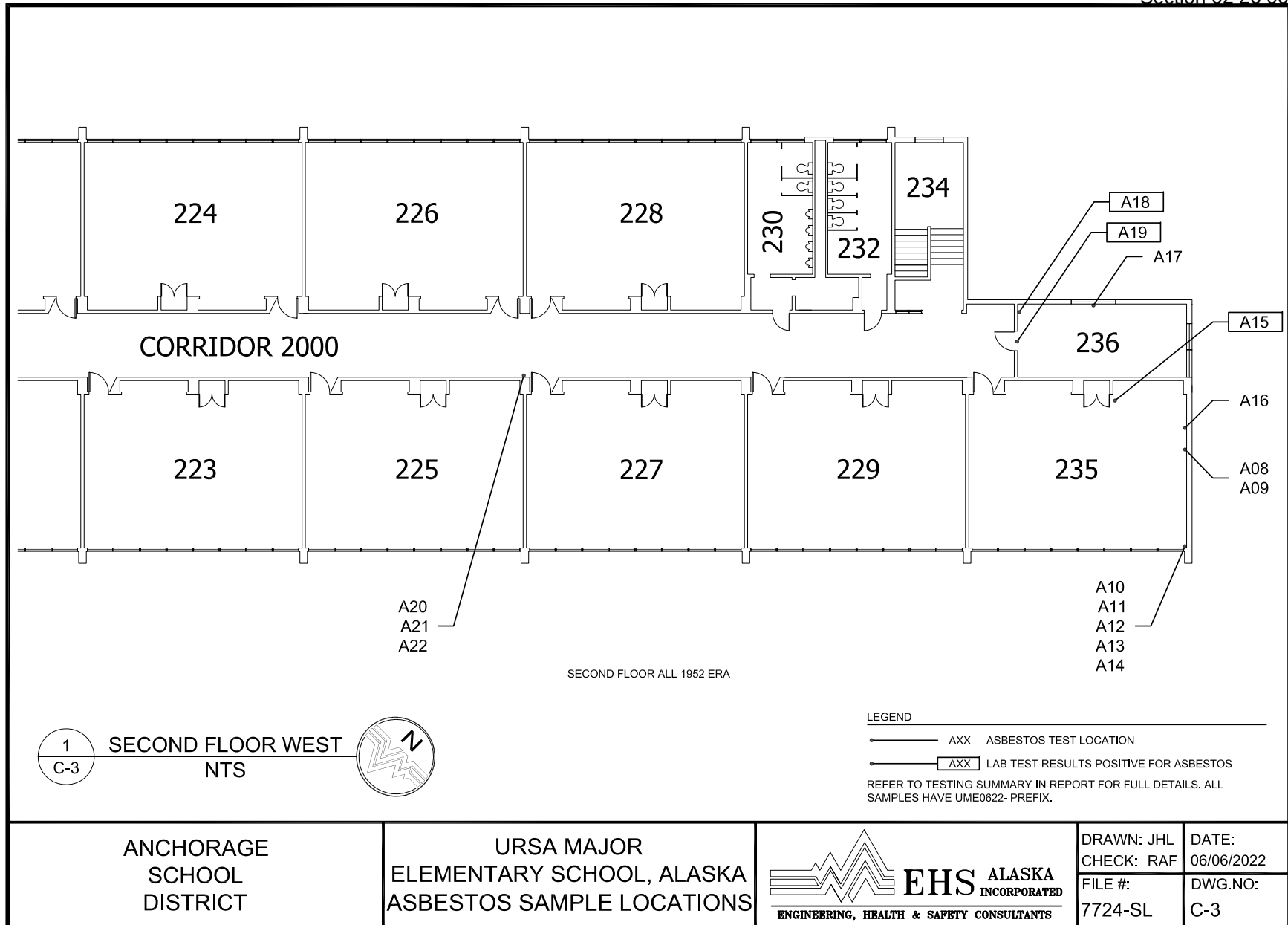
URSA MAJOR ELEMENTARY
ALL AREAS
PCB SAMPLE LOCATIONS

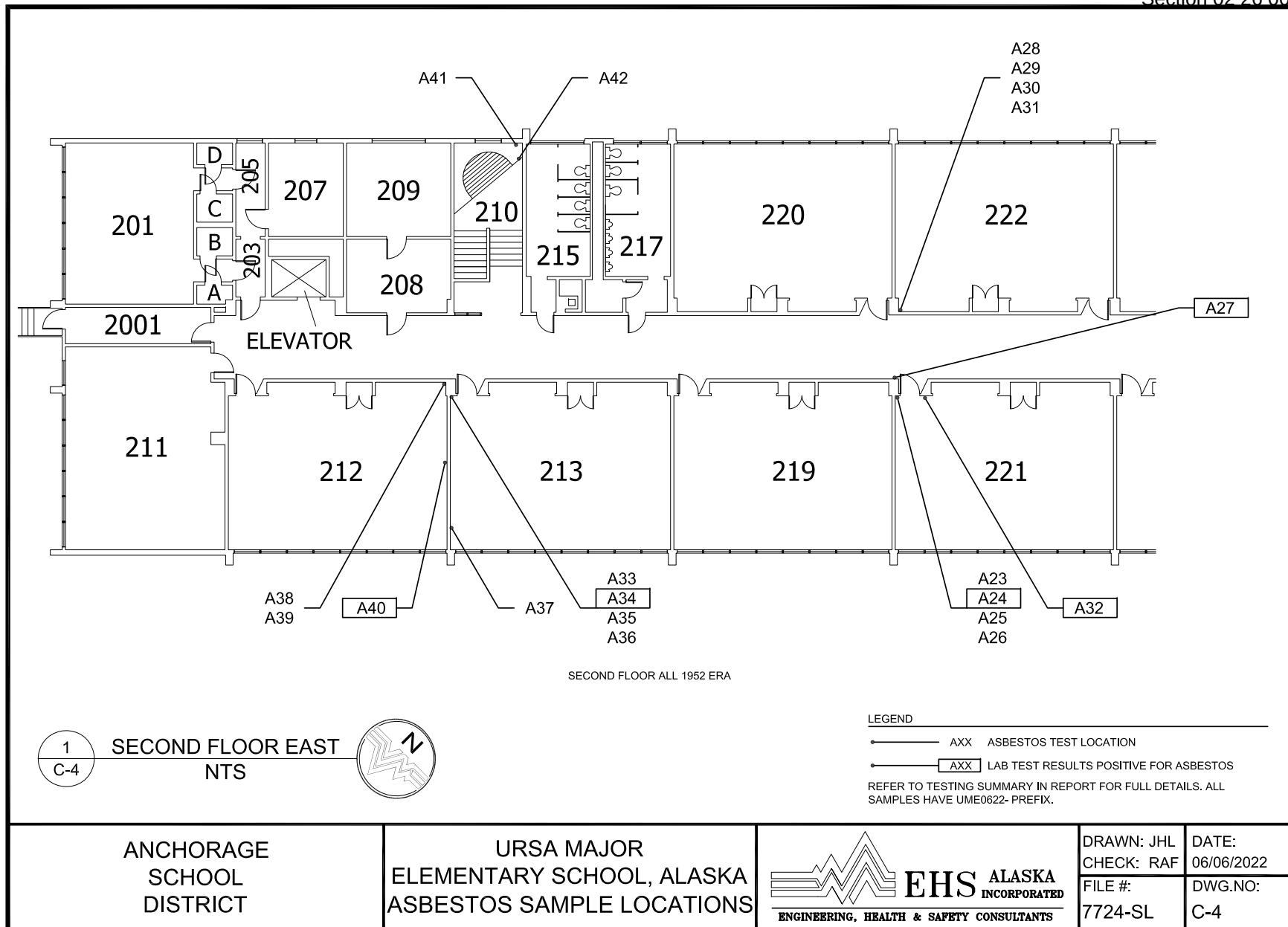


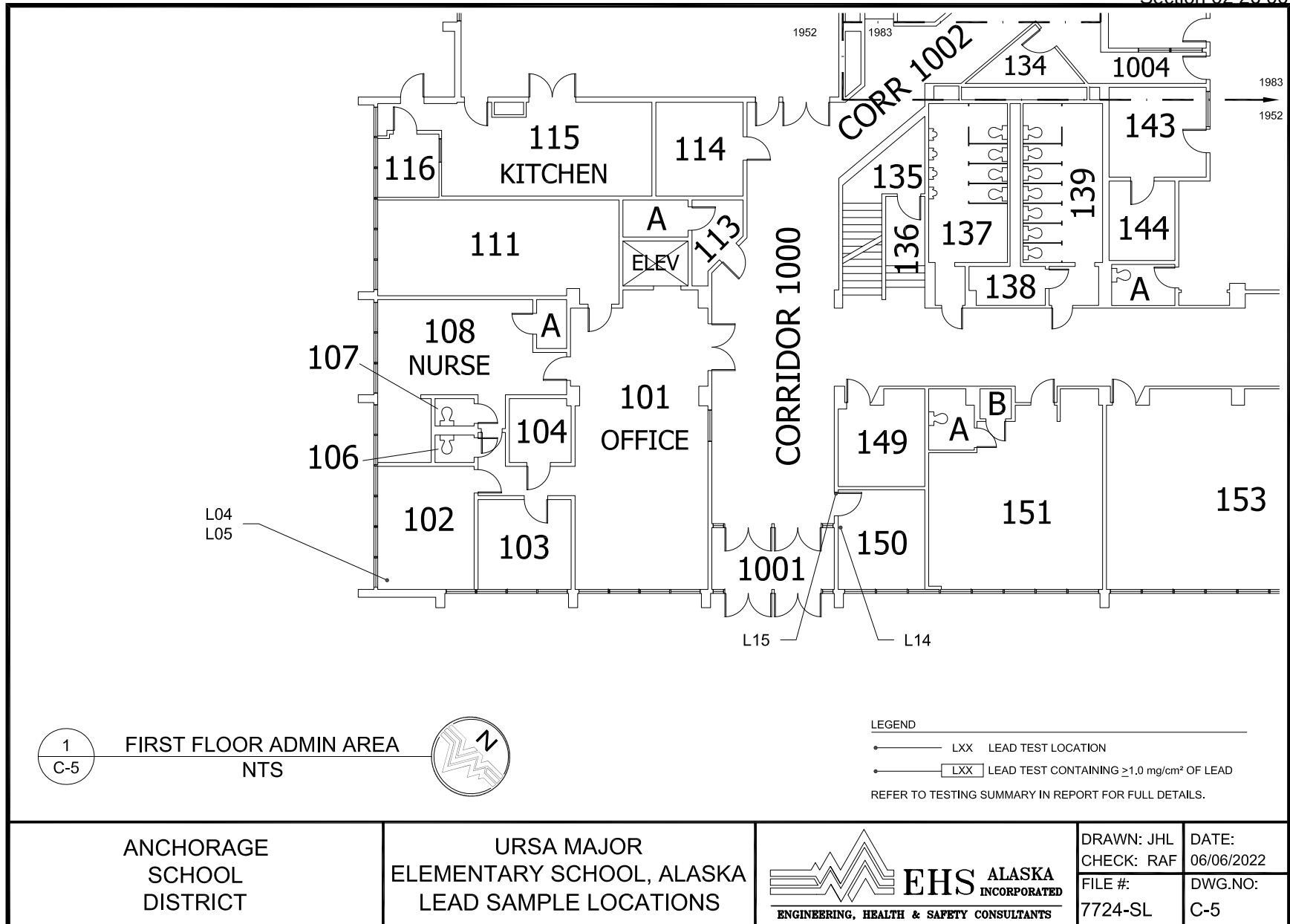
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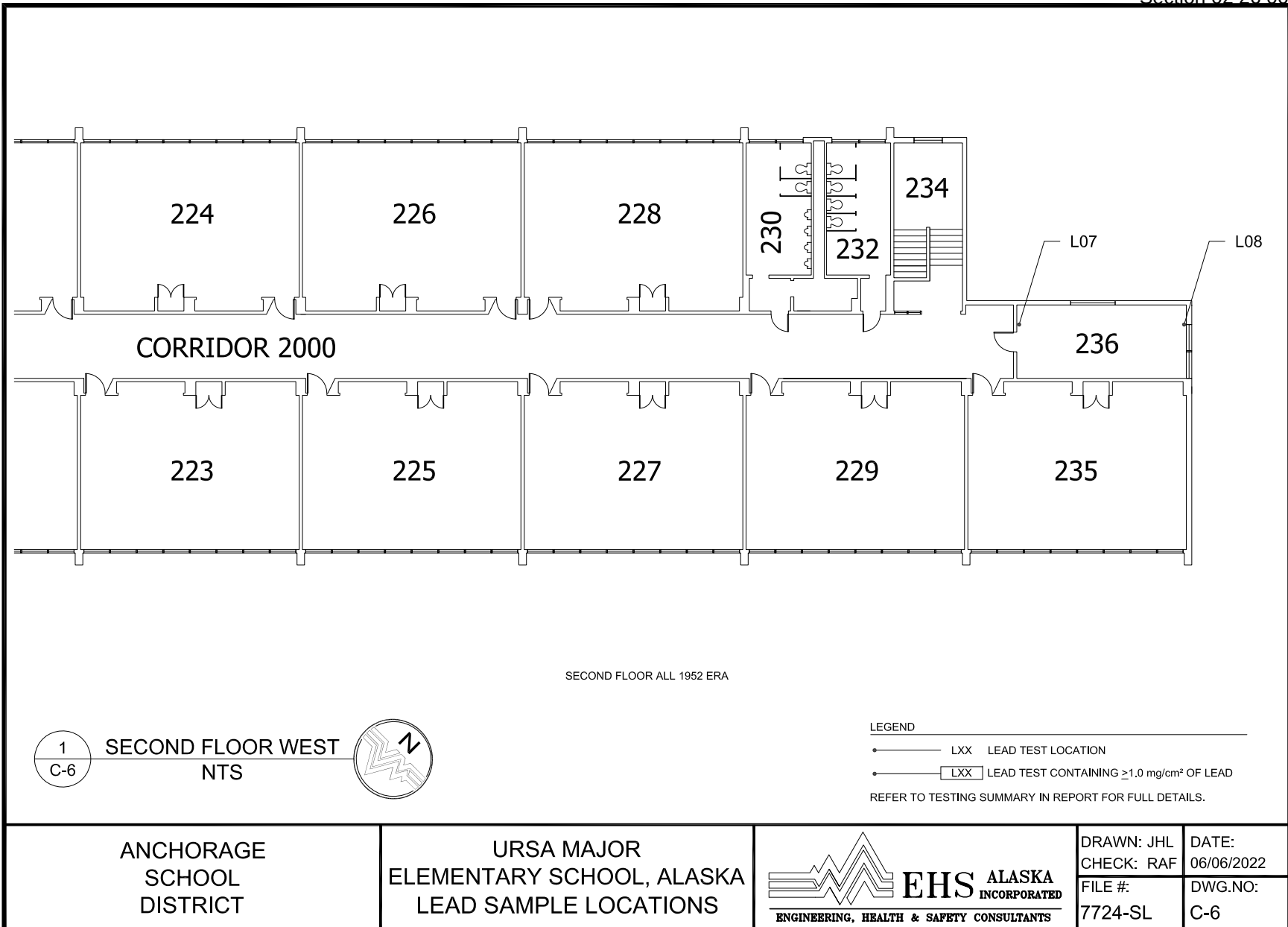


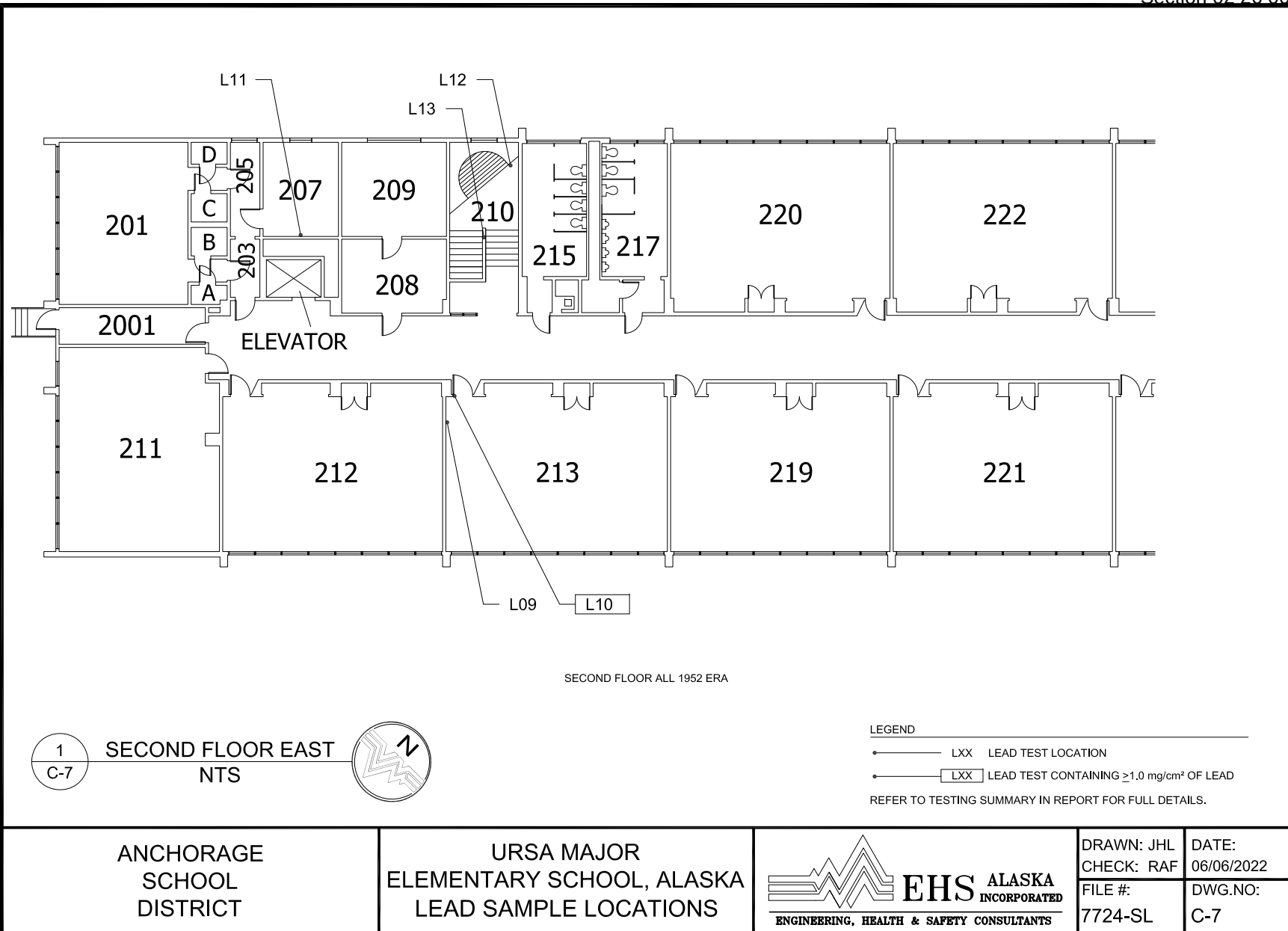














LEGEND

- LXX LEAD TEST LOCATION
 - LXX LEAD TEST CLASSIFIED AS LEAD BASED PAINT
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS.



NORTH EXTERIOR STAIRS
NTS



LEGEND

- AXX ASBESTOS TEST LOCATION
 - AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE UMO414- PREFIX.

ANCHORAGE
SCHOOL
DISTRICT

URSO MAJOR ELEMENTARY SCHOOL
JBER, ALASKA
ASBESTOS & LEAD SAMPLE LOCATIONS



DRAWN: CTO	DATE: 04/29/2014
CHECK: RAF	DWG.NO: C-1
FILE #:	
7297-SL	



LEGEND

- LXX LEAD TEST LOCATION
 - LXX LEAD TEST CLASSIFIED AS LEAD BASED PAINT
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS.



LEGEND

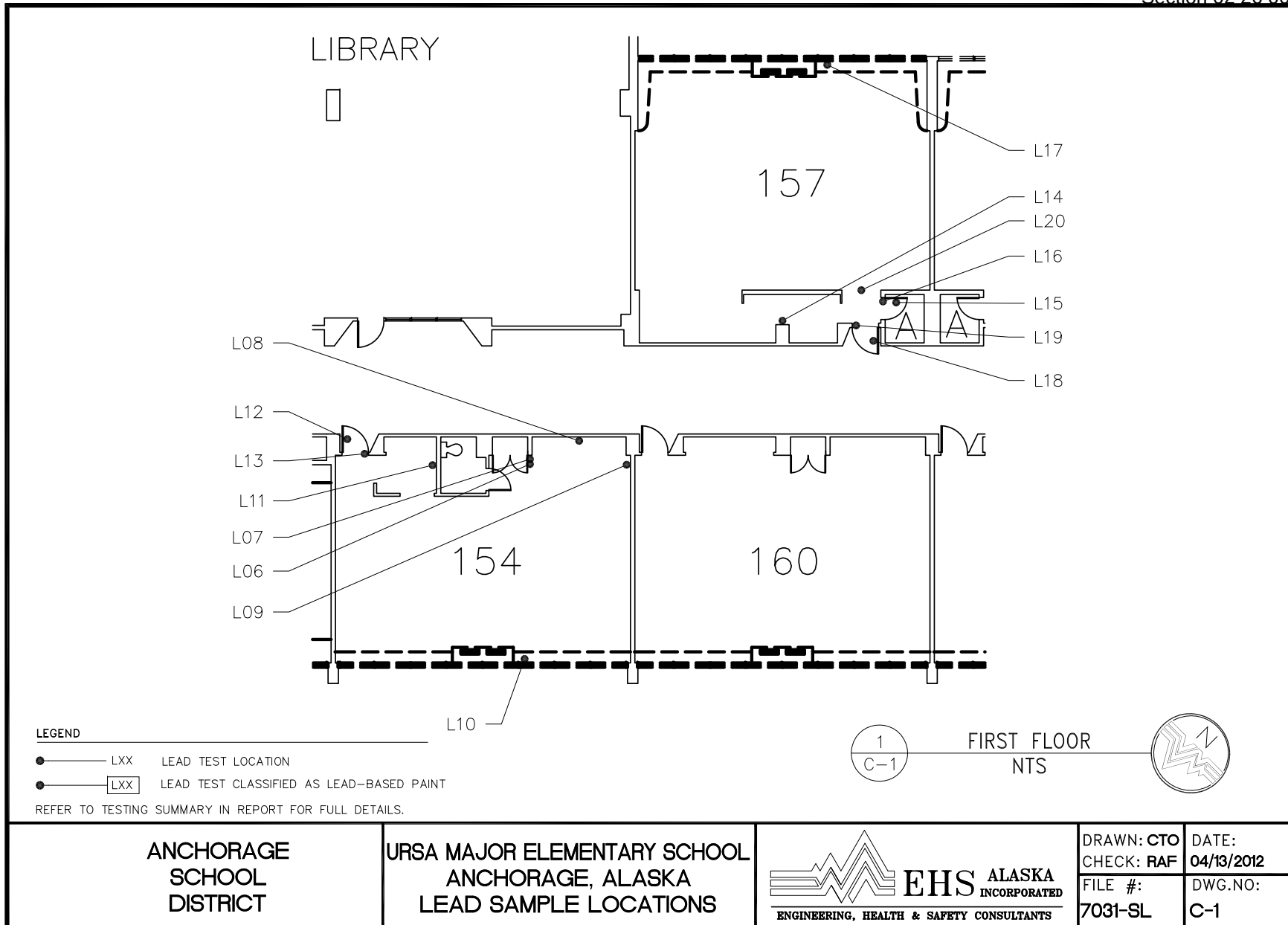
- AXX ASBESTOS TEST LOCATION
 - AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE UMO414- PREFIX.

ANCHORAGE
SCHOOL
DISTRICT

URSO MAJOR ELEMENTARY SCHOOL
JBER, ALASKA
ASBESTOS & LEAD SAMPLE LOCATIONS



DRAWN: CTO	DATE: 04/29/2014
CHECK: RAF	DWG.NO: C-2
FILE #: 7297-SL	





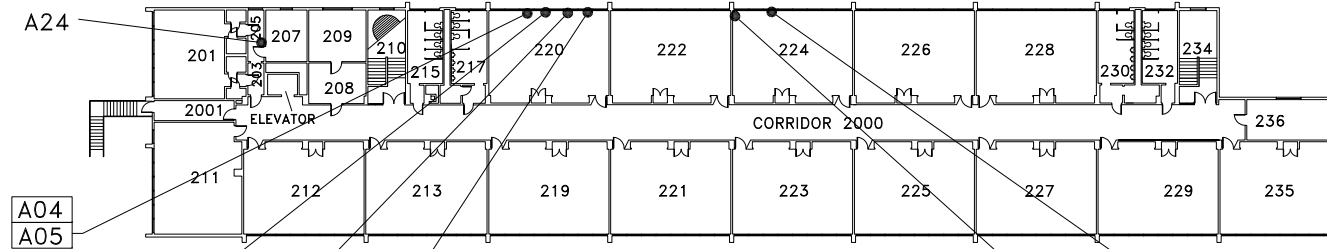
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URSA MAJOR SHCOOL
BLDG. #454 DYE STREET
FORT RICHARDSON, ALASKA 99505

EHS ALASKA
INCORPORATED
ENGINEERING, HEALTH & SAFETY CONSULTANTS
11801 UNIVERSITY AVENUE, SUITE 100
FBI: 907-684-1885 FAX: 907-684-1888

DRAWN: FCW
CHECKED: RAF
DATE: 11/5/04
REVISIONS: -

CADD FILE: 6141-SL

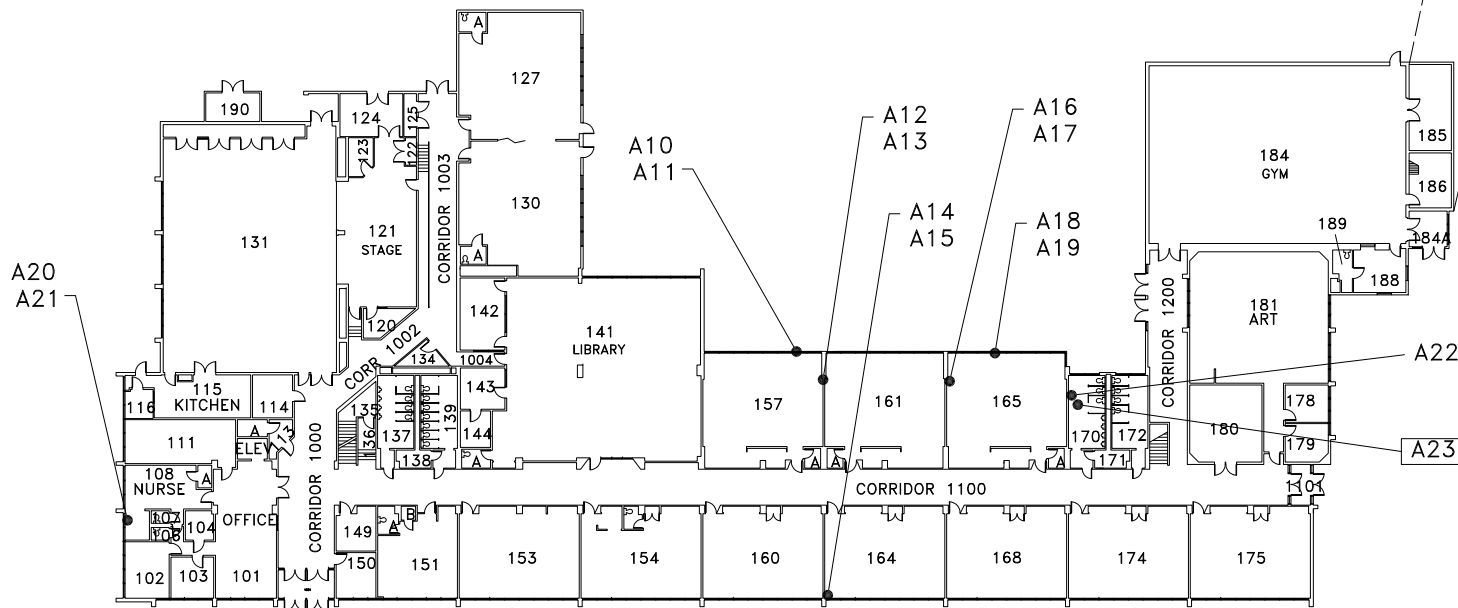
SHEET TITLE:
BULK SAMPLE PLANS
SHEET NO.
1 OF 3



LEGEND

- AXX ASBESTOS BULK SAMPLE LOCATION
- AXX SAMPLE LOCATIONS CONTAINING ASBESTOS

NOTE: SAMPLES TAKEN 11/5/04 BY EHS-ALASKA, INC.
ALL BULK SAMPLES HAVE THE PREFIX UM1104 UNLESS OTHERWISE SHOWN.





PROJECT TITLE:
URSA MAJOR SHCOOL
BLDG. #454 DYE A STREET
FORT RICHARDSON, ALASKA 99505

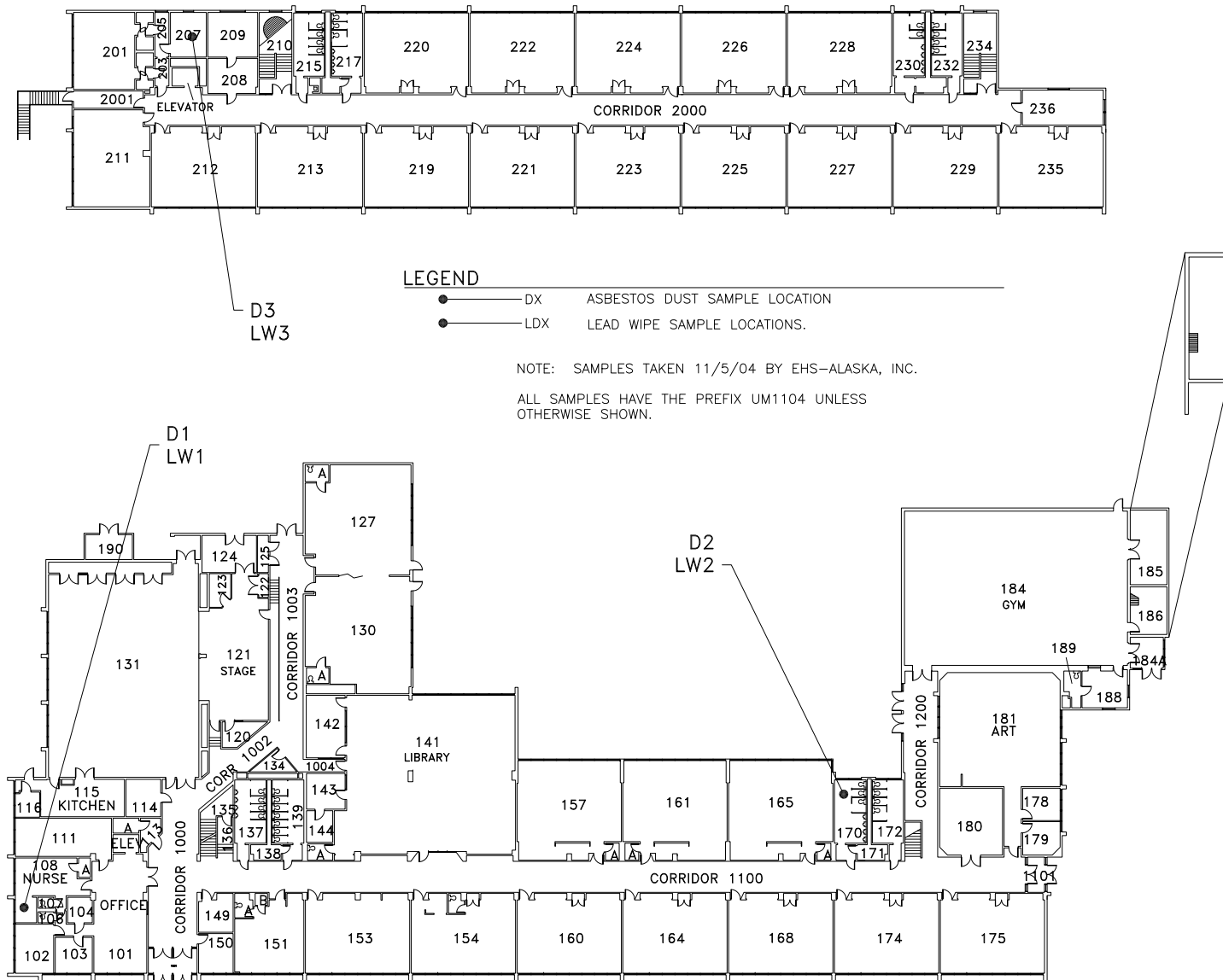
EHS ALASKA
INCORPORATED
ENGINEERING, HEALTH & SAFETY CONSULTANTS
11801 MARSH ROAD, SUITE 100, FORT RICHARDSON, ALASKA 99505
TEL: 907-884-1885 FAX: 907-884-1888

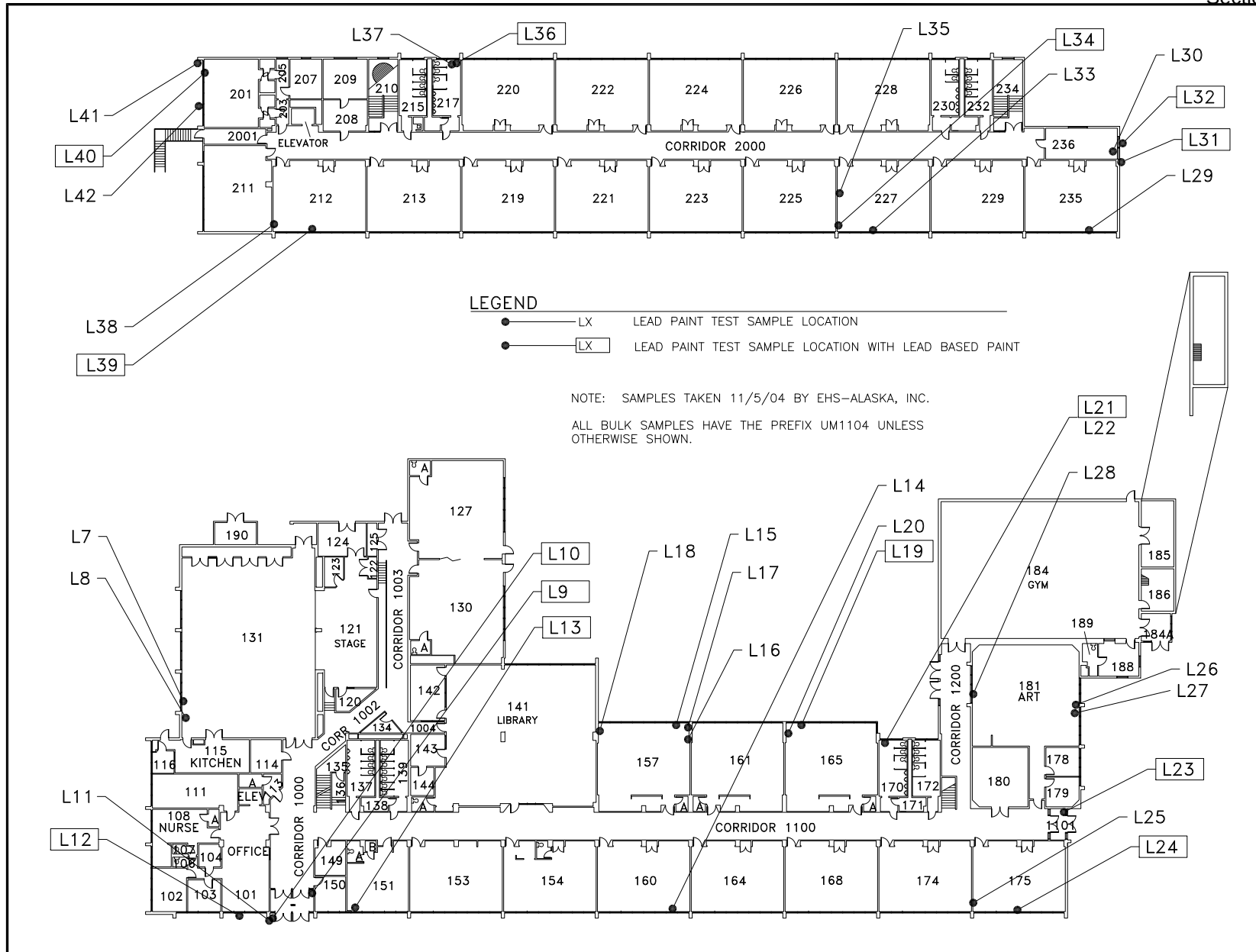
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CHECKED: RAF
DATE: 11/5/04
REVISIONS: -

CADD FILE: 6141-SL

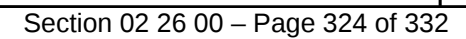
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**DUST SAMPLE
PLANS**

SHEET NO.
2 OF 3





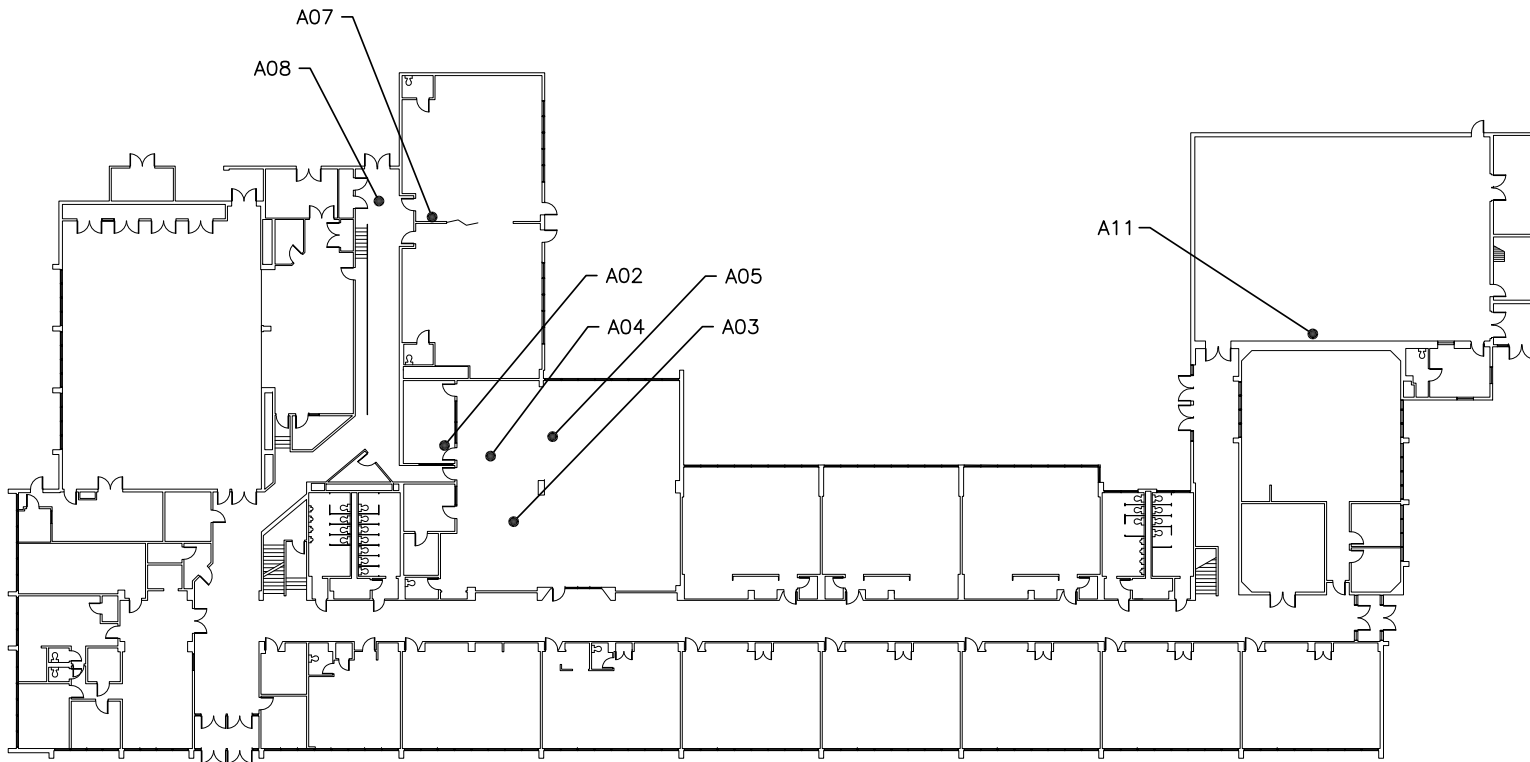
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	PROJECT TITLE: URSA MAJOR SCHOOL BLDG. #454 DYE STREET FORT RICHARDSON, ALASKA 99505
	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS 11801 UNIVERSITY AVENUE, SUITE 100 FORT RICHARDSON, ALASKA 99505 TEL: 907-684-1885 FAX: 907-684-1888
	DRAWN: FCW CHECKED: RAF DATE: 11/5/04 REVISIONS: -
CADD FILE: 6141-SL	
SHEET TITLE: PAINT TEST LOCATIONS	
SHEET NO. 3 OF 3	



LEGEND

- AXX ASBESTOS SAMPLE LOCATION
- AXX SAMPLE LOCATIONS WHICH CONTAINED ASBESTOS

ALL SAMPLE NUMBERS ARE PRECEDED BY THE PREFIX UJ4502

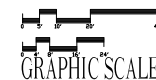
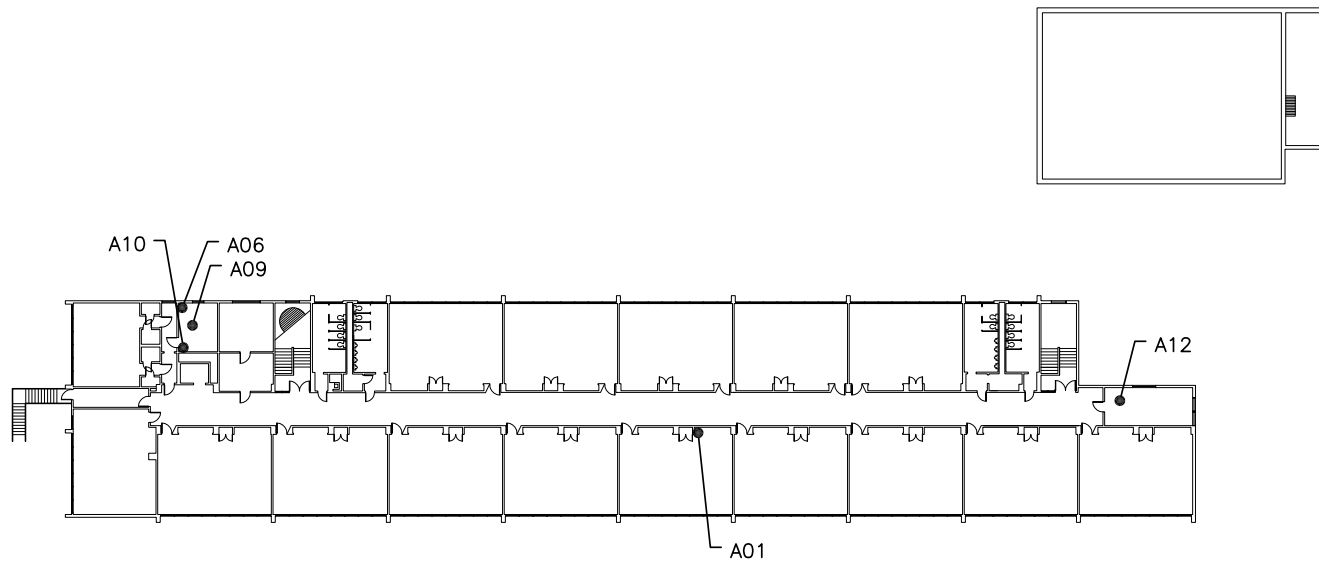


	
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DESIGN CONSULTANT: BULK SAMPLE LOCATIONS FOR ASBESTOS	
DRAWN: CHECKED: DATE: REVISIONS:	
CADD FILE: 5679	
SHEET TITLE: 1ST FLOOR PLAN	
SHEET NO. 1 OF 2	

LEGEND

- AXX ASBESTOS SAMPLE LOCATION
— [AXX] SAMPLE LOCATIONS WHICH CONTAINED ASBESTOS

ALL SAMPLE NUMBERS ARE PRECEDED BY THE PREFIX UJ4502



 ANCHORAGE SCHOOL DISTRICT	PROJECT TITLE: URSA MAJOR SCHOOL BLDG. #454 DYEA STREET FORT RICHARDSON, ALASKA 99505
DESIGN CONSULTANT: BULK SAMPLE LOCATIONS FOR ASBESTOS	DRAWN: T. JARONIK CHECKED: S. WILSON DATE: 05/01/97 REVISIONS: -
CADD FILE: 5679	SHEET TITLE: 2ND FLOOR PLAN SHEET NO. 2 OF 2



PROJECT TITLE:
URSA MAJOR SCHOOL
BLDG. #454 DYE STREET
FORT RICHARDSON, ALASKA 99505

DESIGN CONSULTANT:
SAMPLE LOCATIONS
DUST & AIR SAMPLES

DRAWN:
CHECKED:
DATE:
REVISIONS:

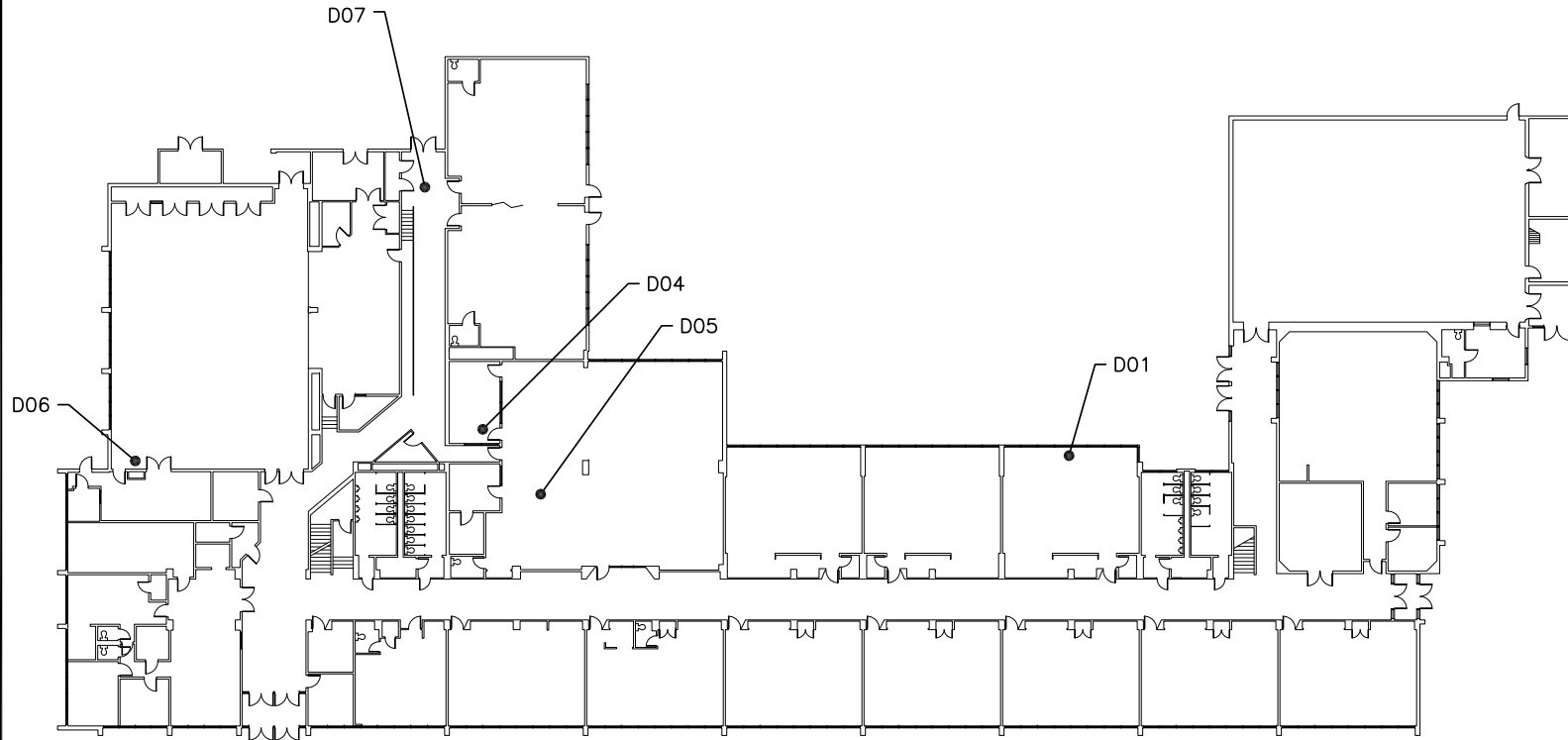
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SHEET TITLE:
1ST FLOOR
PLAN

SHEET NO.
1 OF 2

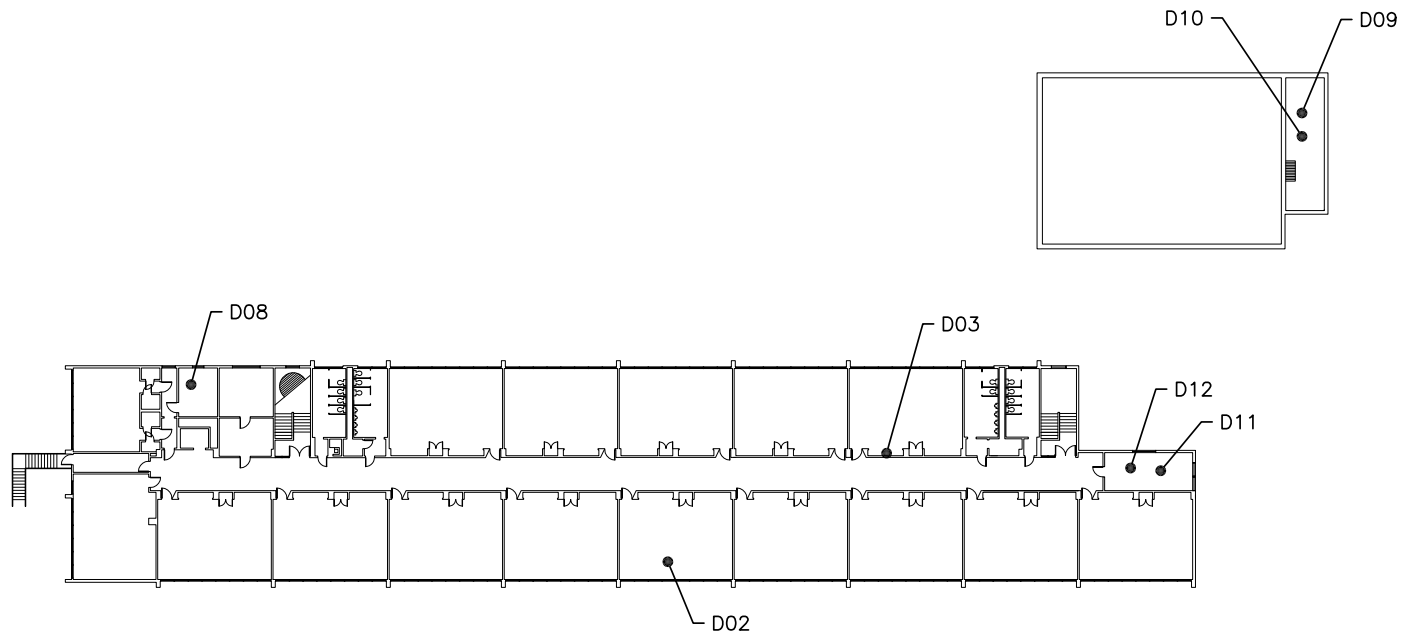
LEGEND

— DXX MICROVAC DUST SAMPLE LOCATION
ALL SAMPLE NUMBERS ARE PRECEDED BY THE PREFIX UJ4502



LEGEND

— DXX MICROVAC DUST SAMPLE LOCATION
ALL SAMPLE NUMBERS ARE PRECEDED BY THE PREFIX UJ4502



PROJECT TITLE:
URSA MAJOR SCHOOL
BLDG. #454 DYEA STREET
FORT RICHARDSON, ALASKA 99505

DESIGN CONSULTANT:
SAMPLE LOCATIONS
DUST & AIR SAMPLES

DRAWN: T. JARONIK
CHECKED: S. WILSON
DATE: 05/01/97
REVISIONS: -

CADD FILE: 5679

SHEET TITLE:
**2ND FLOOR
PLAN**
SHEET NO.
2 OF 2



PROJECT TITLE:
URSA MAJOR SHCOOL
BLDG. #454 DYE STREET
FORT RICHARDSON, ALASKA 99505

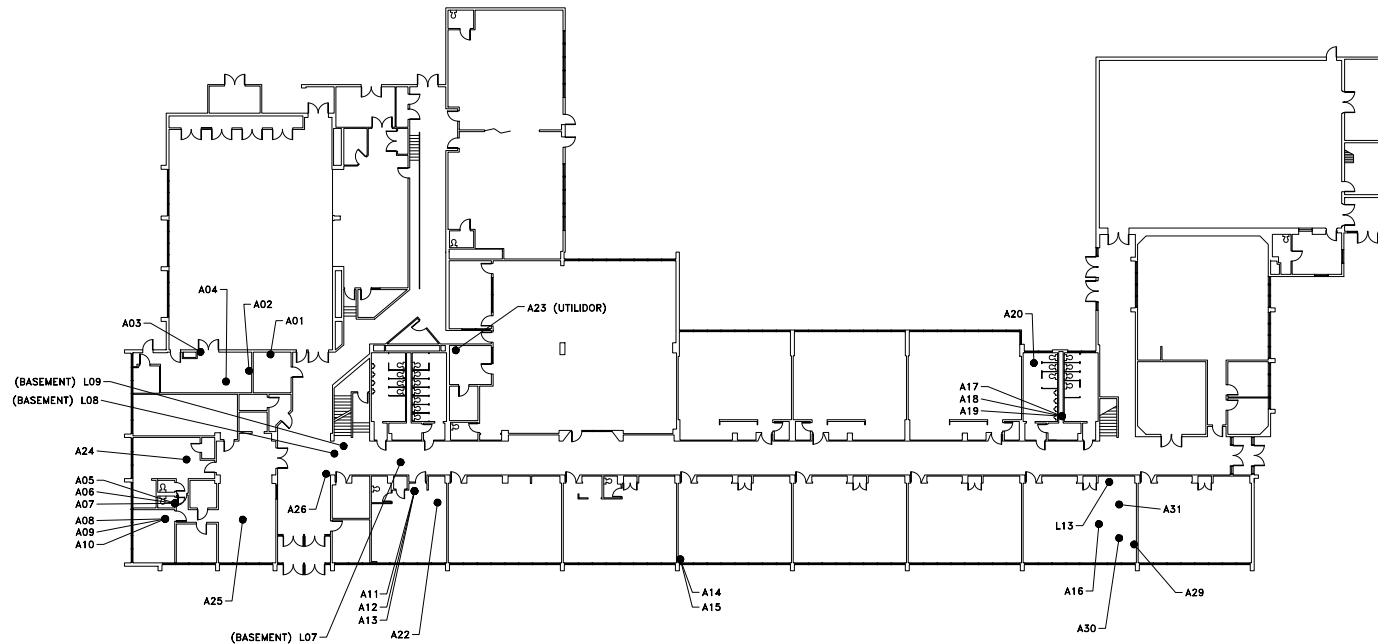
DESIGN CONSULTANT:
EHS ALASKA
INCORPORATED
ENGINEERING, REMEDIATION & SAFETY CONSULTANTS
10000 1st Avenue, Anchorage, Alaska 99503-4000

DRAWN: RJV
CHECKED: TBS
DATE: 4/10/01
REVISIONS: -

CADD FILE: 54355-1

SHEET TITLE:
**1ST FLOOR
SAMPLE
LOCATION
PLAN**

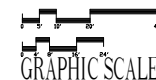
SHEET NO.
1 OF 2

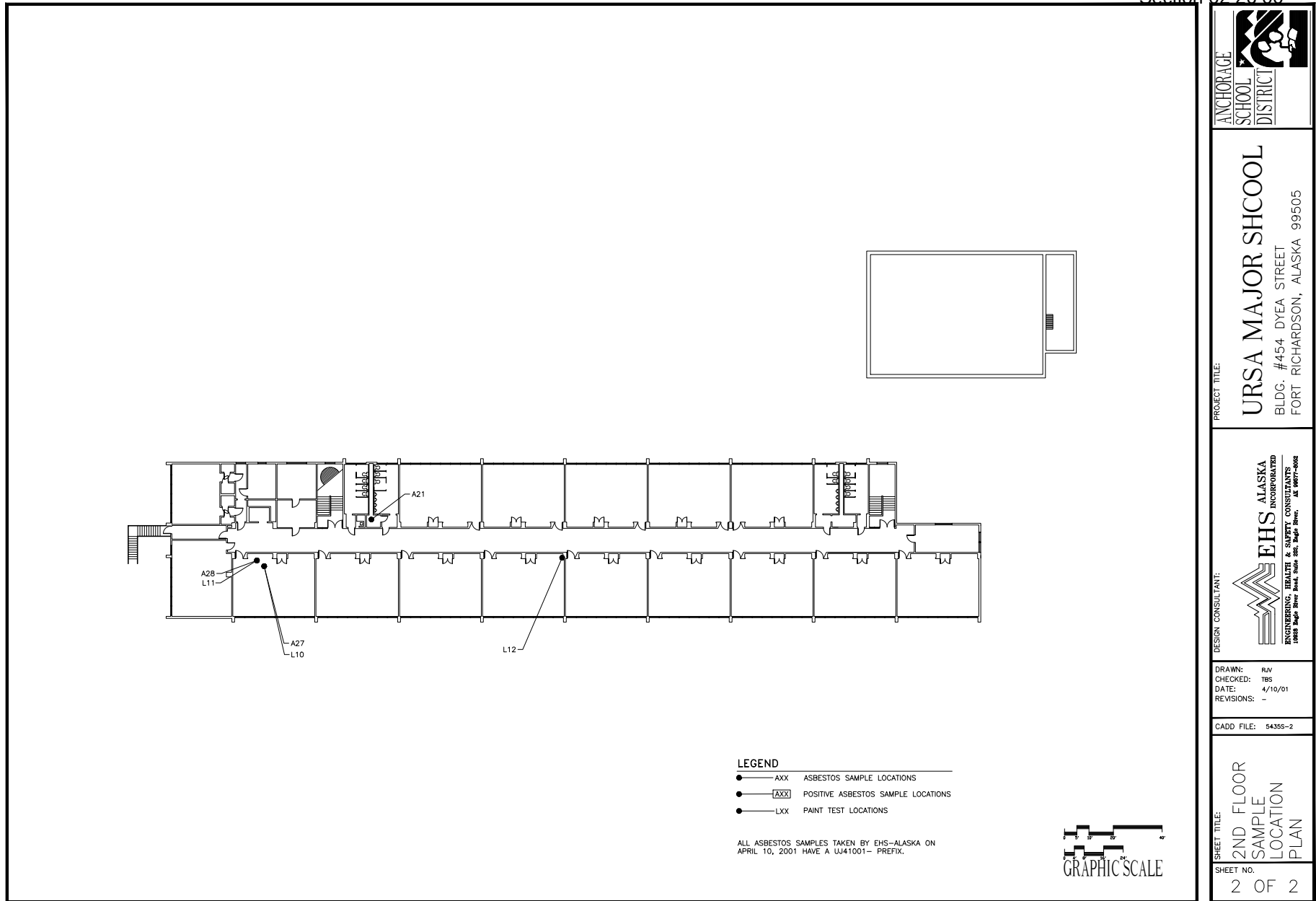


LEGEND

- AXX ASBESTOS SAMPLE LOCATIONS
- AXX POSITIVE ASBESTOS SAMPLE LOCATIONS
- LXX PAINT TEST LOCATIONS

ALL ASBESTOS SAMPLES TAKEN BY EHS-ALASKA ON
APRIL 10, 2001 HAVE A UJ41001- PREFIX.





PROJECT TITLE:
URSA MAJOR SHCOOL
BLDG. #454 DYE A STREET
FORT RICHARDSON, ALASKA 99505

DESIGN CONSULTANT:
EHS ALASKA
INCORPORATED
ENGINEERING, HEALTH & SAFETY CONSULTANTS
1800 Super Street, Suite 200, Anchorage, AK 99501-4000

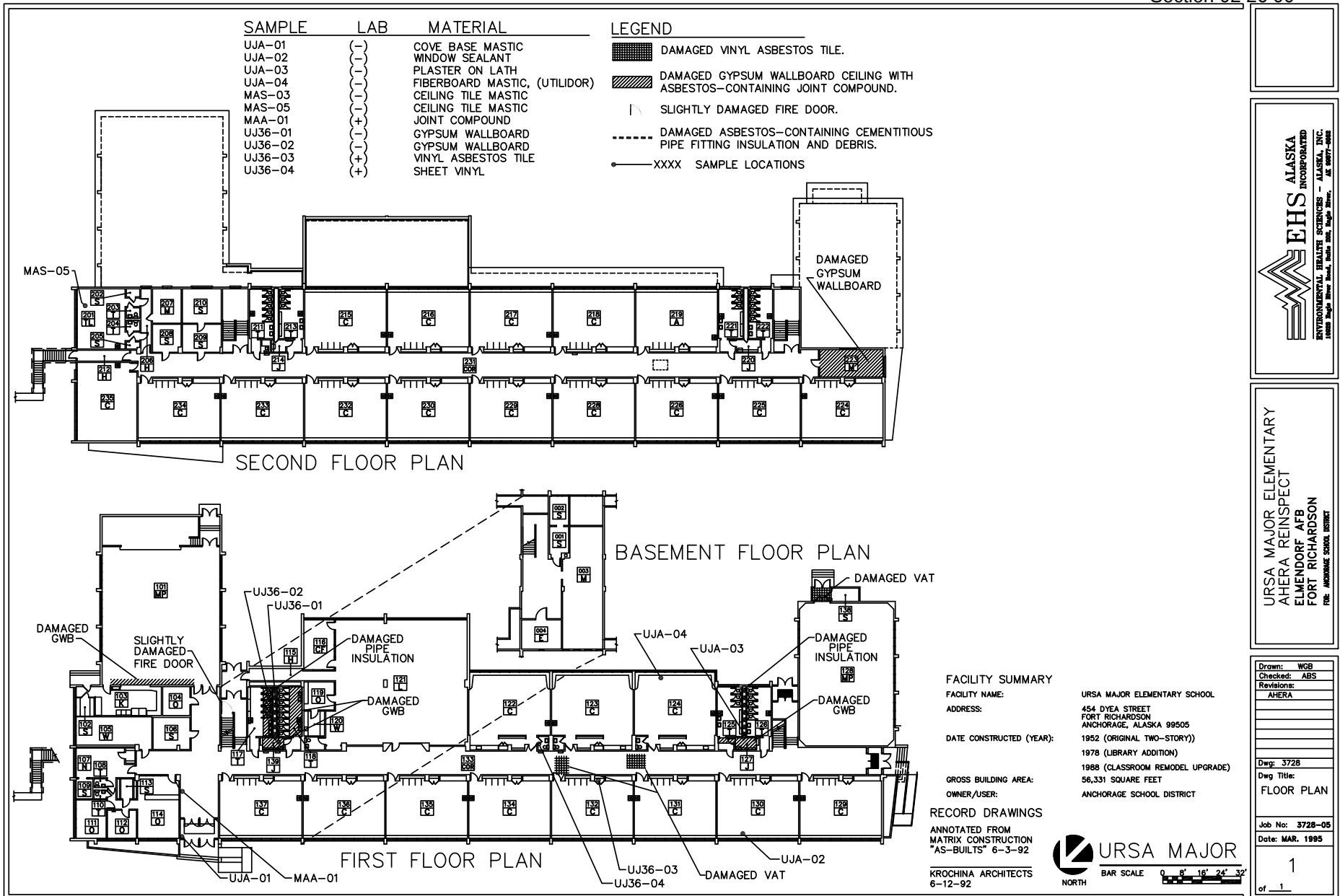
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CHECKED: TBS
DATE: 4/10/01
REVISIONS: -

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SHEET TITLE:
2ND FLOOR
SAMPLE
LOCATION
PLAN

SHEET NO.
2 OF 2

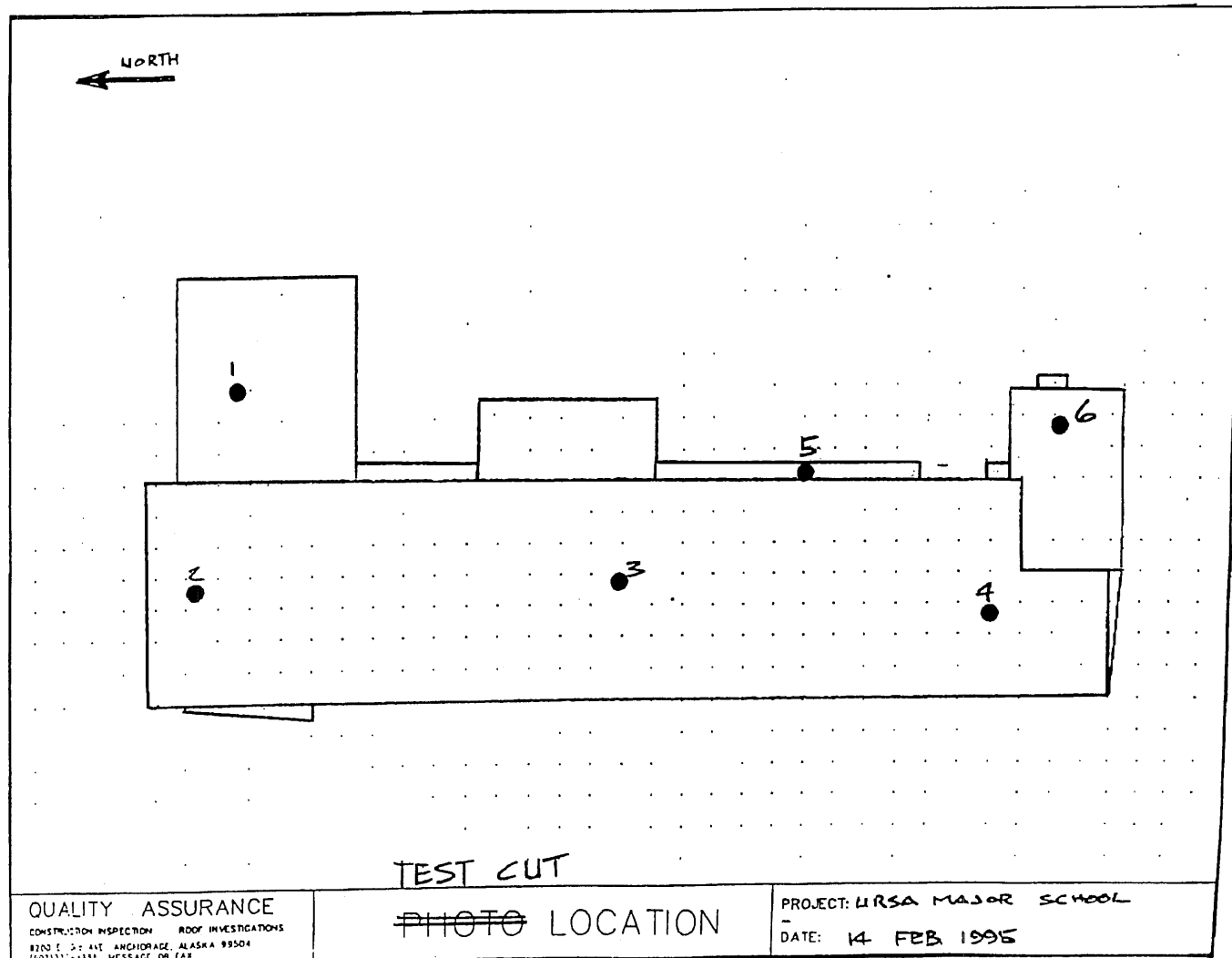
ADDENDUM NO. 1
HAZARDOUS MATERIALS ASSESSMENT
Division 2
Section 02 26 00



EHS ALASKA
INCORPORATED
ENVIRONMENTAL HEALTH SCIENCES - ALASKA, INC.
1000 10TH AVENUE, SUITE 100, ANCHORAGE, AK 99503-2000

URSA MAJOR ELEMENTARY
AHERA REINSPECT
ELMENDORF AFB
FORT RICHARDSON
FOR: ANCHORAGE SCHOOL DISTRICT

Drawn: WGB
Checked: ABS
Revisions:
AHERA
Dwg: 3728
Dwg Title:
FLOOR PLAN
Job No: 3728-05
Date: MAR. 1995



DEMOLITION

PART 1. GENERAL

1.01 SECTION INCLUDES

- A. Building demolition .
- B. Selective demolition of built site elements.
- C. Abandonment and removal of existing utilities and utility structures.

1.02 RELATED REQUIREMENTS

- A. Section 01 35 45 -Airborne Contaminant Control.
- B. Section 01 74 19 - Construction Waste Management and Disposal: LEED requirements for disposal of demolition and construction waste.
- C. Section 02 26 00 - Hazardous Materials Assessment: Other hazardous material abatement.
- D. Section 02 82 33 - Removal and Disposal of Asbestos Containing Materials: Other hazardous material removal and disposal.
- E. Section 02 83 33 - Removal and Disposal of Materials Containing Lead: Other hazardous material removal and disposal.
- F. Section 02 84 18 - Removal and Disposal of Chemical Hazards: Other hazardous material removal and disposal.

1.03 DEFINITIONS

- A. Demolition: Dismantle, raze, destroy or wreck any building or structure or any part thereof.
- B. Remove: Detach or dismantle items from existing construction and dispose of them off site, unless items are indicated to be salvaged or reinstalled.

1.04 SUBMITTALS

- A. See Section 01300 - Administrative Requirements for submittal procedures.
- B. Site Plan: Indicate:
 - 1. Vegetation to be protected.
 - 2. Areas for temporary construction and field offices.
 - 3. Areas for temporary and permanent placement of removed materials.
- C. Demolition Plan: Submit demolition plan as required by OSHA and local AHJs.
 - 1. Indicate extent of demolition, removal sequencing, bracing and shoring, and location and construction of barricades and fences.
 - 2. Demolition firm qualifications.
- D. Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface construction.

1.02 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: Company specializing in the type of work required.
 - 1. Minimum of 5 years of documented experience.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION

3.01 DEMOLITION

- A. Remove the entire school building and utility building
- B. Remove paving and curbs as indicated in drawings.
- C. Remove playground equipment as indicated in drawings.
- D. Remove vegetation as indicated in drawings.
- E. Remove manholes and manhole covers, curb inlets and catch basins.

3.02 GENERAL PROCEDURES AND PROJECT CONDITIONS

- A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
 - 1. Obtain required permits.
 - 2. Use of explosives is not permitted.
 - 3. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
 - 4. Provide, erect, and maintain temporary barriers and security devices.
 - 5. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
 - 6. Do not close or obstruct roadways or sidewalks without permits from authority having jurisdiction.
 - 7. Conduct operations to minimize obstruction of public and private entrances and exits. Do not obstruct required exits at any time. Protect persons using entrances and exits from removal operations.
 - 8. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon, or limit access to their property.
- B. Do not begin removal until receipt of notification to proceed from Owner.
- C. Hazardous Materials:
 - 1. If hazardous materials not indicated in the drawings and hazardous materials report are discovered during removal operations, stop work and notify Architect and Owner; hazardous materials include regulated asbestos containing materials, lead, PCBs, and mercury.
- D. Partial Removal of Paving and Curbs: Neatly saw cut at right angle to surface.

3.02 EXISTING UTILITIES

- A. Coordinate work with utility companies. Notify utilities before starting work, comply with their requirements, and obtain required permits.
- B. Protect existing utilities to remain from damage.
- C. Do not disrupt public utilities without permit from authority having jurisdiction.
- D. Do not close, shut off, or disrupt existing life safety systems that are in use without at least 7 days prior written notification to Owner.
- E. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Owner.
- F. Locate and mark utilities to remain; mark using highly visible tags or flags, with

- identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.
- G. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.
 - H. Prepare building demolition areas by disconnecting and capping utilities outside the demolition zone. Identify and mark, in same manner as other utilities to remain, utilities to be reconnected.

3.03 DEBRIS AND WASTE REMOVAL

- A. Remove debris, junk, and trash from site.
- B. Leave site in clean condition, ready for subsequent work.
- C. Clean up spillage and wind-blown debris from public and private lands.

END OF SECTION