



**SUSTAINABLE ENVIRONMENT, ENERGY,
HEALTH & SAFETY PROFESSIONAL SERVICES**

August 15, 2023

Sent via email to:

jobrien@fairbanks.us

NORTECH, Inc.

City of Fairbanks
Engineering Department
800 Cushman Street
Fairbanks, AK 99701

◆
Accounting Office:
2400 College Rd
Fairbanks, AK 99709
907.452.5688
907.452.5694 Fax

ATTN: John O'Brien

**RE: Limited Hazardous Materials Testing – HUD Compliant Lead Survey
Child Care Renovations at City Hall - Fairbanks, Alaska**

John:

NORTECH Sustainable Environment, Energy, Health & Safety Professional Services is pleased to provide the City of Fairbanks with this limited hazardous materials survey results summary for the survey we performed as part of the proposed renovations to the classrooms on the first floor of City Hall. The report provides a synopsis of the background, scope of work, methodology, field activities, sampling results with discussion, including conclusions and recommendations.

◆
3105 Lakeshore Drive
Suite A106
Anchorage, AK 99517
907.222.2445
907.222.0915 Fax

◆
5438 Shaune Drive
Suite B
Juneau, AK 99801
907.586.6813
907.586.6819 Fax

Background

The area of proposed renovation at City Hall is approximately 3,500 square-feet, and includes three classrooms, two bathrooms, a janitor's closet, and a storage closet. The Main school building was built in 1934 and enlarged in 1939 and again in 1948. The building was used as a school until the early 1970s. The building has housed city offices since 1994. In addition to city offices, the former school gymnasium is home to the Fairbanks Boys and Girls Club.

Scope of Work

The City of Fairbanks requested a hazardous materials survey of the facility be performed on the first floor of the northwest wing of City Hall as part of a renovation project to convert the area into a licensed childcare facility. **NORTECH's** scope of work was to provide a hazardous materials survey to identify potential hazardous items to human health or the environment and require special handling or disposal during renovation of the facility.

Methodology

The Pre-Demolition Hazardous Materials Assessment involved a review of available records, interviews with knowledgeable individuals, a site inspection, and sampling of conditions present to identify, quantify, and determine the condition of hazardous materials. Project efforts were completed in accordance with **NORTECH's** Hazardous Material Assessment Methodology (v19) available upon request. The field project sampling staff were EPA-certified AHERA asbestos inspectors. An Environmental Professional Engineer oversaw the assessment work.

◆
www.nortechengr.com



Field Activities

Danielle Frick and Janine Way of **NORTECH** completed the hazardous materials inspection of the facility on July 26, 2023.

The northwest first floor wing of the building includes three classrooms, women's and men's restrooms, a janitor's closet, and a storage closet. These areas were sampled for suspect asbestos and lead in paint. PCB samples were collected from materials set for demolition and disposal. Asbestos samples were taken from flooring, mastic, base trim, joint compound, ceiling tile and thermal system insulation (TSI) on piping. Most of the walls in the area are stucco with joint compound texture. In Classroom 3, the dividing walls are wood framed with unpainted sheetrock and wood paneling. There is a drop ceiling with grid in Classroom 3. The flooring in the main corridor connecting the classrooms and bathrooms has an epoxy coating that acts as an encapsulant for assumed asbestos containing tiles.

Asbestos Containing Material

A total of 28 bulk samples of suspect asbestos materials were collected and submitted to EMSL Analytical Inc. in Cinnaminson, New Jersey, for analysis by EPA 600/R-93/116 using Polarized Light Microscopy (PLM). EMSL is certified through the National Voluntary Laboratory Accreditation Program (NVLAP). Samples considered non-organically bound (mastics, glues, and tarry substances), were analyzed by PLM with gravimetric reduction to determine asbestos content more accurately, if present.

Following the receipt of lab results additional samples were taken of possible ACM around ceiling tiles in Classroom. Sample locations and results are presented in Figures 3 and 4 and the laboratory report is included in Attachment 3.

Lead-Based Paint

A total of 37 paint locations/materials were analyzed for lead content using a handheld NITON XLP-303A X-Ray Fluorescence (XRF) instrument providing real-time EPA approved results. Samples were taken in all proposed renovation areas. Painted building components included walls, trim, painted floors, and doors. Interior sample locations and results are presented on Figures 5, 6, and 7.

PCBs in Paint

Five paint chip samples were collected and submitted to EMSL Analytical Inc. in Cinnaminson, New Jersey, for PCB analysis by EPA Method SW3540C/8082A PCBs. PCBs are quantified as "Aroclors" in analytical work. Aroclor was the tradename for PCB mixtures manufactured by the Monsanto Chemical Company. EMSL reports nine Aroclors in the units of milligrams per kilogram (mg/Kg, or parts per million [ppm]). The sample locations are shown in Figure 8 and the laboratory report is included in Attachment 3.

Other Materials Requiring Special Handling

The areas sampled were inspected for other materials that may require special handling during the renovation work including fluorescent lamps, thermostats, portable fire extinguishers, lead-acid batteries, and other potentially hazardous materials.



Sample Results and Discussion

Asbestos Containing Material

Twenty-eight bulk samples were sent to EMSL with a total of 41 layers analyzed. The asbestos containing materials are summarized below:

- Friable (RACM)
 - TSI on bathroom heating pipes 48 Linear feet
- Non-Friable (Category I)
 - Flooring tiles Approximately 2500 sq ft
 - Black Mastic Approximately 2500 sq ft
- Non-Friable (Category II)
 - None Detected

Unlabeled thermal systems insulation (TSI) was found in both Restroom 1 and 2 and was positive for asbestos. TSI covers radiator supply and return piping from ceiling to near ground level. TSI with greater than 1% asbestos is considered a Regulated Asbestos-Containing Material (RACM). RACM is any asbestos-containing material that when dry, can be crumbled or reduced to powder by hand pressure. If it can be crumbled it is called “friable”. Friable ACM requires abatement by certified asbestos abatement workers using OSHA Class I methods. Friable asbestos that is damaged or severely damaged, or found as debris, presents a high potential for possible exposures above the Occupational Safety and Health Administration (OSHA) permissible exposure limit (PEL) of 0.1 fibers per cubic centimeter (f/cm³).

RACM requiring removal must be disposed at a landfill permitted to accept RACM wastes if the volume exceeds EPA National Emissions Standards for Hazardous Air Pollutants (NESHAP) guidance. If the total amount of regulated asbestos to be removed or disturbed exceeds 260 linear feet, 160 square feet, or 35 cubic feet then the NESHAP requires regulated asbestos-containing material to be removed from the waste stream before renovation activities occur. Based on the amount of RACM observed in the vicinity of the project work area, the total amount of RACM is not expected to exceed the NESHAP threshold.

Non-friable ACM is divided into Category I and Category II materials. Category 1 asbestos present includes flooring tiles and mastic under carpet throughout the classrooms. If removed non-friable Category I asbestos will require demolition/abatement by certified asbestos workers using Class II OSHA methods and disposal as ACM debris. Any abatement or demolition activities should be completed under a project-specific work plan developed by the contractor to meet state and federal requirements.

The laboratory reported one sample layer taken from the ceiling tiles in Classroom 2 as asbestos containing glazing. The area was reinspected for the suspect ACM and several additional samples were taken from the area to verify the presence of ACM. Based on the additional lab analysis, sample C2-BA-10 has been removed from the data tables and laboratory report because it was not reproducible.

Alternatively, ACM materials may be managed in place (MIP). The EPA has guidance for facilities that choose to develop and maintain an Operations and Maintenance (O&M) plan that consists of training, cleaning, work practices, and surveillance to maintain ACM in good condition within buildings. Encapsulation, encasement, enclosure, or repair are viable alternatives to removal. MIP approaches should be considered before deciding to abate and



remove the currently undamaged ACM. When ACM is properly managed, release of fibers into the air is prevented or minimized, and the risk of asbestos related disease can be reduced to a negligible level. Managing ACM in place has an ongoing maintenance cost in addition to the eventual abatement costs. Required asbestos MIP maintenance and documentation must not be neglected or forgotten to ensure future workers do not unknowingly use work practices that result in potential asbestos disturbance and exposure.

In the event that a new (untested) suspect ACM is encountered during the project, the material must be tested to determine the appropriate handling and disposal methods or assumed to be ACM.

Lead-Based Paint

Three lead results were above the HUD threshold of 1 mg/cm², with a high of 2.1 mg/cm² indicating lead paint is present in this wing of the building. A light green primer appeared to be the lead containing paint. This is visible in some locations and has been painted over with other colors in other locations. The green primer was found primarily in the hallway and not in the classrooms.

City Hall was built before 1978 and will require a HUD compliant lead survey prior to the facility being used as a childcare facility. The HUD Compliant assessment will look for lead-based paint in areas potentially disturbed by the proposed renovations. The assessment must be conducted by an EPA certified Lead Inspector and will follow Chapter 4 of the HUD Guidelines, 40 CFR Part 745 Subpart E, and 29 CFR 1926-6. The report for the HUD compliant survey will be separate from this report.

PCBs in Paint

Five paint chip samples were collected and submitted for PCB analysis. Five samples were reported positive for PCBs and are listed as the following:

- C2-PCB-1 – white with yellow layers paint on stucco wall
 - Aroclor-1254 5.2 mg/kg
 - Aroclor-1262 0.85 mg/kg
 - Total Aroclor count 6.05 mg/kg
- BC-PCB-2 – tan/ green/ blue on wood bathroom stalls
 - Aroclor-1254 3.3 mg/kg
 - Aroclor-1260 0.40 mg/kg
 - Total Aroclor count 3.7 mg/kg
- BB-PCB-3 – white paint on wood bathroom stalls
 - Aroclor-1254 2.1 mg/kg
 - Aroclor-1262 0.33 mg/kg
 - Total Aroclor count 2.43 mg/kg
- JC-PCB-4 – Orange over green paint janitors closet door
 - Aroclor-1254 2.1 mg/kg
 - Aroclor-1260 0.24 mg/kg
 - Total Aroclor count 2.34 mg/kg
- JC-PCB-5 – white paint on janitor closet door
 - Aroclor-1254 5.6 mg/kg
 - Aroclor-1260 1.2 mg/kg
 - Total Aroclor count 6.8 mg/kg



These lab results indicate that levels of PCBs above 1 mg/kg are present on the bathroom stalls, doors, and walls in the proposed renovation area. Within Alaska PCB concentration between 1 ppm and 50 ppm are treated as “polluted soil”. Per regulation, Alaska landfills currently will not accept any PCB material > 1 ppm. While the official regulations do allow disposal of materials with a PCB concentration <1 ppm, most disposal facilities in Alaska have reportedly refused to accept materials containing any detectable PCBs. The contractor is required to verify with the chosen disposal landfill operator that the landfill permit accepts PCB waste below 1 ppm prior to disposal of the waste stream to avoid any potential regulatory concerns. Segregation of unpainted wastes is recommended to minimize the quantity of material that requires disposal outside the State of Alaska.

PCB related demolition activities pose a health risk to workers. EPA warns metals coated with paints containing PCBs should not be cut with flame, as the temperatures produced by the cutting may produce highly toxic polychlorinated dibenzofurans (PCDFs) that can be up to 100 times more toxic than certain PCBs. Other activities that may also be considered high risk include welding, sandblasting, burning, grinding, and sanding, which may elevate the temperature of the paint to unsafe levels or cause significant dusting. Planned demolition activities must be done in accordance with a project specific plan that minimizes potential worker exposure and provides the public with confidence that PCBs are not being released from the demolition activities.

Other Materials Requiring Special Handling

The area was inspected for other items and components that may require special handling during the renovation work a summary table is provided below:

- Mercury Containing Fluorescent Lamps (T-12 Tube 4') 48 ea.

Consider reusing the identified hazardous items/materials. If not reused, the items require proper disposal at an approved facility according to local, state, and federal requirements. If exit signs are removed as part of the project, they should be inspected for labeling that indicates the presence of a radioactive source. If the signs contain tritium, they must be disposed of at a facility with proper licensing. Two light fixtures were inspected for PCB containing ballasts. Both ballasts were labeled “no PCBs”. All fixtures that will be removed should be inspected prior to disposal.



Conclusions and Recommendations

NORTECH completed a Hazardous Materials Survey of the northwest first floor wing and City Hall as part of a potential renovation project for a licensed childcare facility. Based on this inspection, **NORTECH** has the following conclusions and recommendations for renovation activities at the facility:

- Asbestos containing materials were identified in this area and an asbestos work plan is necessary for renovation activities.
 - Friable ACM (RACM) requires abatement by certified asbestos abatement workers using OSHA Class I methods
 - Category II ACM requires abatement by certified asbestos abatement workers using OSHA Class II methods
 - Management in place (MIP) requires City Hall to maintain an Operations and Maintenance (O&M) plan that consists of training, cleaning, work practices, and surveillance to maintain ACM in good condition within buildings.
- Lead above the HUD limit was found in the green paint in the storage closet
 - Lead based paint was identified in this work area
 - A HUD compliant lead survey is required for childcare facilities that were built before 1978
- PCBs were detected in paint on the bathroom stalls, doors and walls of the renovation area.
 - Concentrations of the bulk samples were above 1 mg/kg
 - The coatings are considered PCB waste and should be disposed of outside the State of Alaska
 - Workers and contractors performing work on these materials should have appropriate PCB training and certifications for the type of work
 - The contractor is required to verify with the chosen disposal landfill operator to avoid regulatory concerns
- Project design documents should require the contractor to submit a work plan prior to renovations detailing the following:
 - Asbestos work plan and disposal methods
 - Lead based paint work plan
 - PCB handling and disposal methods
- Other potential hazardous items observed include the fluorescent lighting
 - These should be reused to the extent practical
 - Each ballast must be inspected for PCB labeling
 - Items designated as wastes must be removed from the building before renovation activities and disposed of properly

This information should be incorporated into the renovation design documents, which should include specific directions to the bidders as to whether the materials will be reused as part of the project or may be salvaged by the contractor. These design documents should require a demolition/renovation work plan for all planned abatement and/or demolition activities. This work plan should identify salvageable items, address hazardous material to be handled and disposed of, address all non-hazardous waste streams, identify work practices methods, and means, and identify disposal locations for all waste streams.



All information about hazardous materials associated with the facility should be made available to employees, contractors, and/or abatement/demolition contractors bidding on the expected renovation on the facility. This hazardous materials assessment report is intended for informational purposes only. Specific abatement work practices may require additional sampling to comply with OSHA worker exposure regulatory guidelines.

If you have any questions or require additional professional services or advice, please let us know. We thank you for the opportunity to work with you on this project and appreciate your confidence in our Firm.

Sincerely,
NORTECH

A handwritten signature in black ink that reads "Danielle Frick".

Danielle Frick
AHERA Inspector

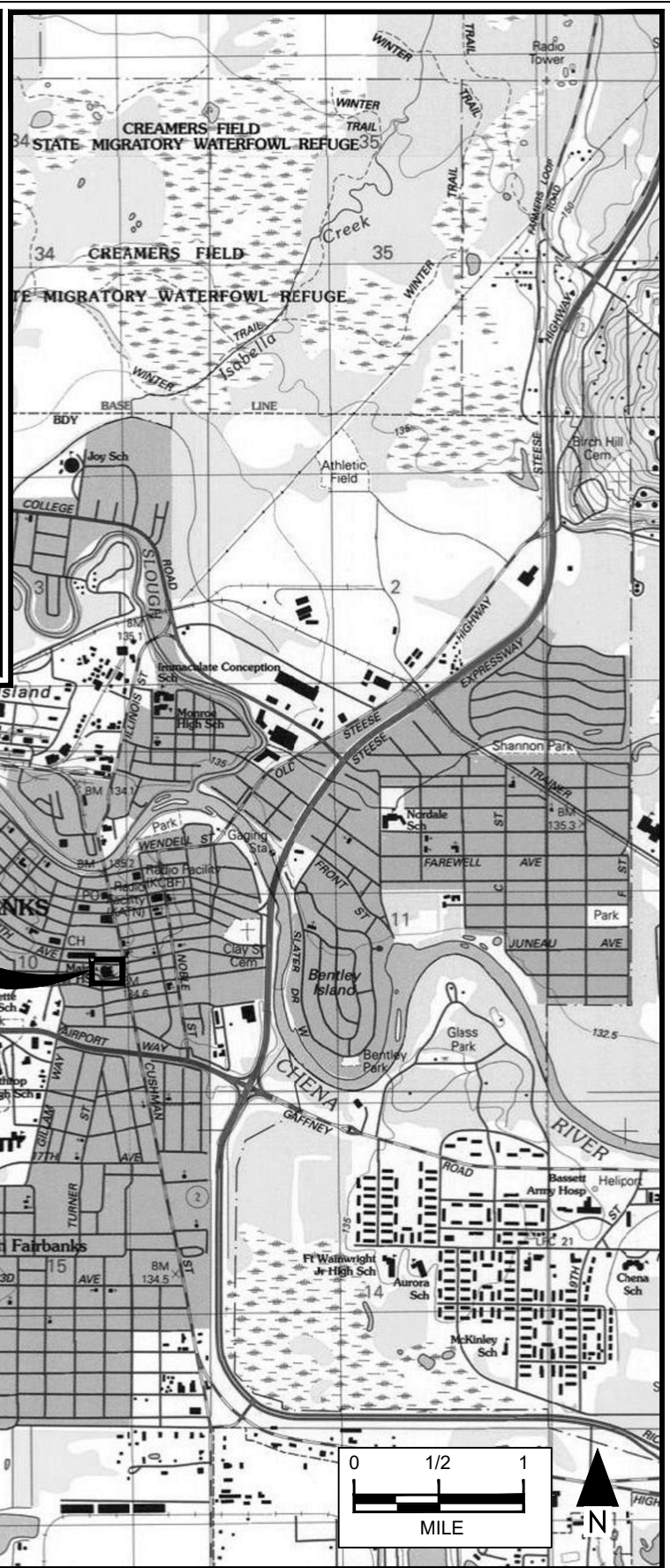
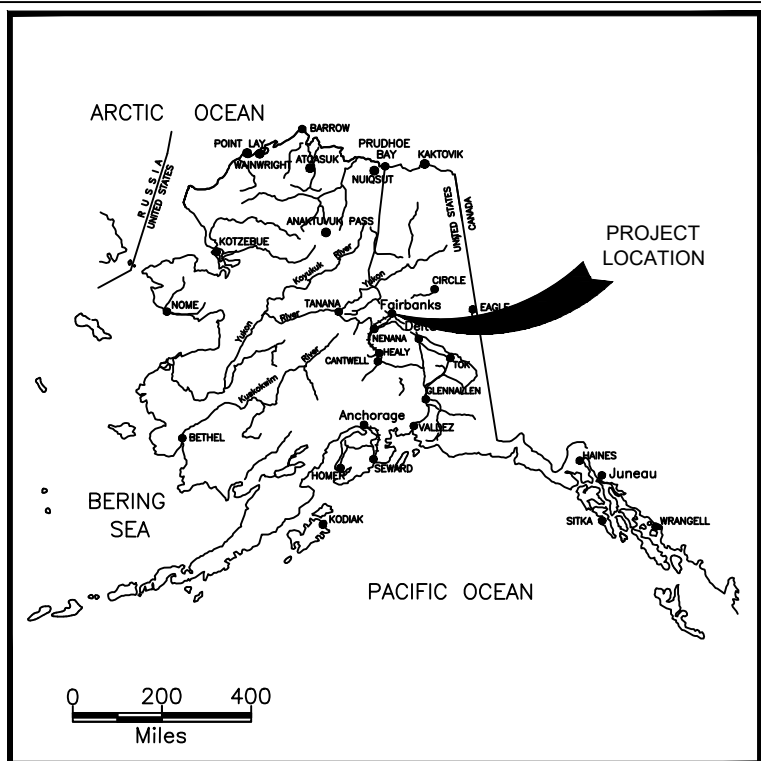
A handwritten signature in black ink that reads "Peter Beardsley".

Peter Beardsley, PE
President and CEO, Environmental Engineer

Attachments: 1) Figures
2) Photo Pages
3) Laboratory Reports (Asbestos and PCBs in Paint)

Attachment 1

Figures



ENVIRONMENT, ENERGY, HEALTH & SAFETY CONSULTANTS
 2400 College Road, Fairbanks, AK. 99709, 907-452-5688
 3105 Lakeshore Dr., Anchorage, AK. 99517 907-222-2445
 5438 Shaune Dr., Juneau, AK. 99801 907-586-6813

Location Map
 Child Care Renovation - Hazardous Materials Assessment
 City Hall, Fairbanks, Alaska

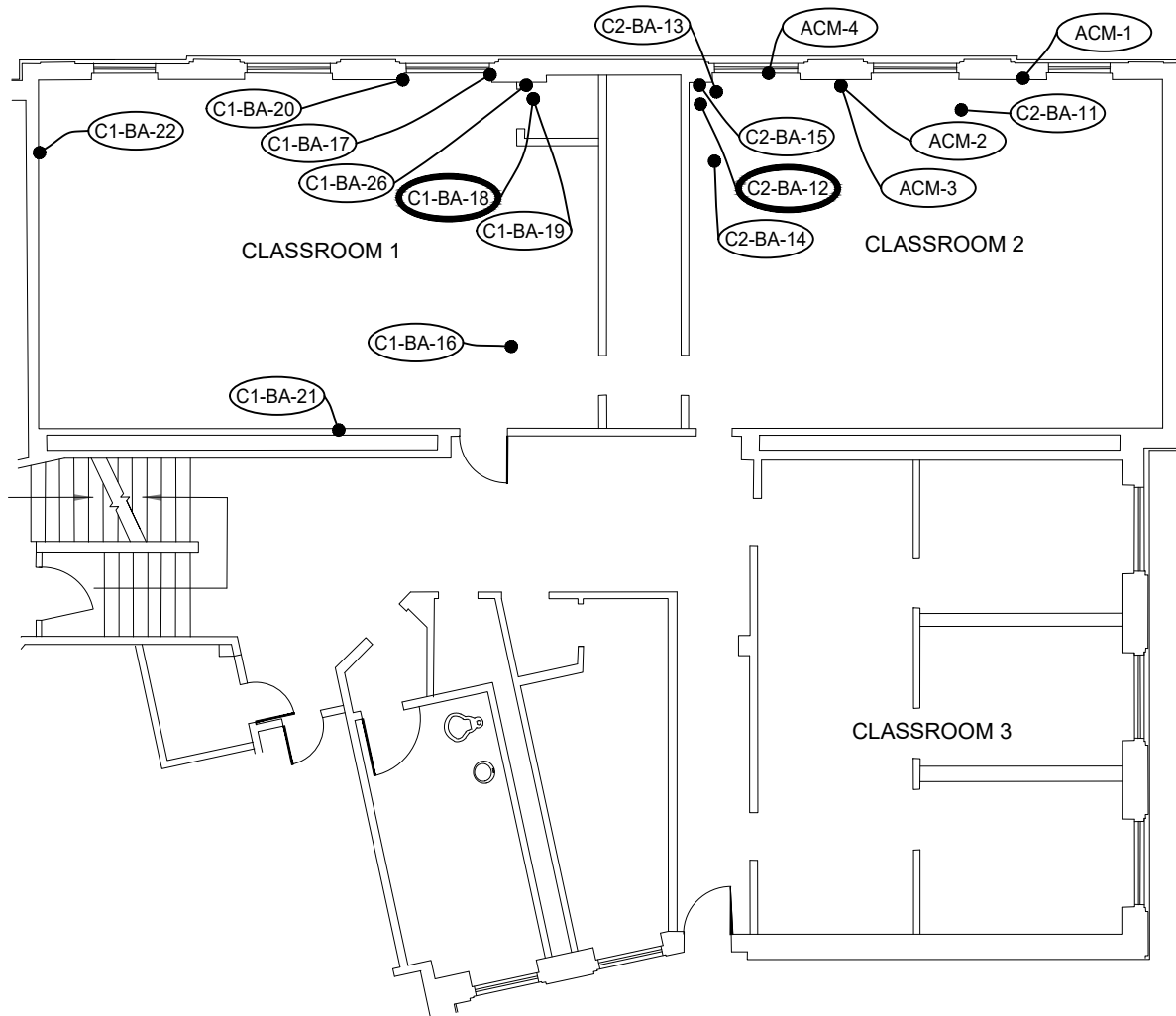
SCALE: As Shown	FIGURE:
DESIGN: DSF	1
DRAWN: SPH	
PROJECT NO: 23-1058	
DWG: 231058a	
DATE: 08/15/2023	



ENVIRONMENT, ENERGY, HEALTH & SAFETY CONSULTANTS
 2400 College Road, Fairbanks, AK. 99709, 907-452-5688
 3105 Lakeshore Dr., Anchorage, AK. 99517 907-222-2445
 5438 Shaune Dr., Juneau, AK. 99801 907-586-6813

Area Map
 Child Care Renovation - Hazardous Materials Assessment
 City Hall, Fairbanks, Alaska



SCALE: As Shown	FIGURE: 2
DESIGN: DSF	
DRAWN: SPH	
PROJECT NO: 23-1058	
DWG: 231058a	
DATE: 08/15/2023	



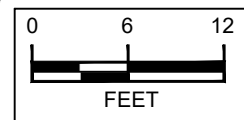
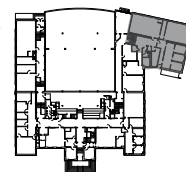
Asbestos Sample Results		
Asbestos Sample Results (Method EPA 600/R-93/116)		
Sample ID	Description	Result
C1-BA-16	brown/white ceiling tile	ND
C1-BA-17	white/yellow pipe insulation & mastics	ND
C1-BA-18	gray floor tile	7.2% Chrysotile
C1-BA-18	black & yellow mastic	ND
C1-BA-19	black & yellow mastic	ND
C1-BA-20	tan/white joint compound	ND
C1-BA-20	white caulk	ND
C1-BA-21	white wall texture	ND
C1-BA-22	white tall texture	ND
C1-BA-26	gray/white stucco	ND

Asbestos Sample Results		
Asbestos Sample Results (Method EPA 600/R-93/116)		
Sample ID	Description	Result
C2-BA-11	brown/white ceiling tile	ND
C2-BA-12	gray floor tile	6.6% Chrysotile
C2-BA-12	black mastic	<0.25% Chrysotile
C2-BA-13	black caulk	ND
C2-BA-14	orange carpet & yellow mastics	ND
C2-BA-15	yellow pipe insulation & mastics	ND
ACM-1	white sealant	ND
ACM-2	white mastic	ND
ACM-3	white sealant	ND
ACM-4	white patch sealant	ND

LEGEND

-  ASBESTOS BULK SAMPLE LOCATIONS NEGATIVE (<1% ASBESTOS)
-  ASBESTOS BULK SAMPLE LOCATIONS POSITIVE (≥1% ASBESTOS)

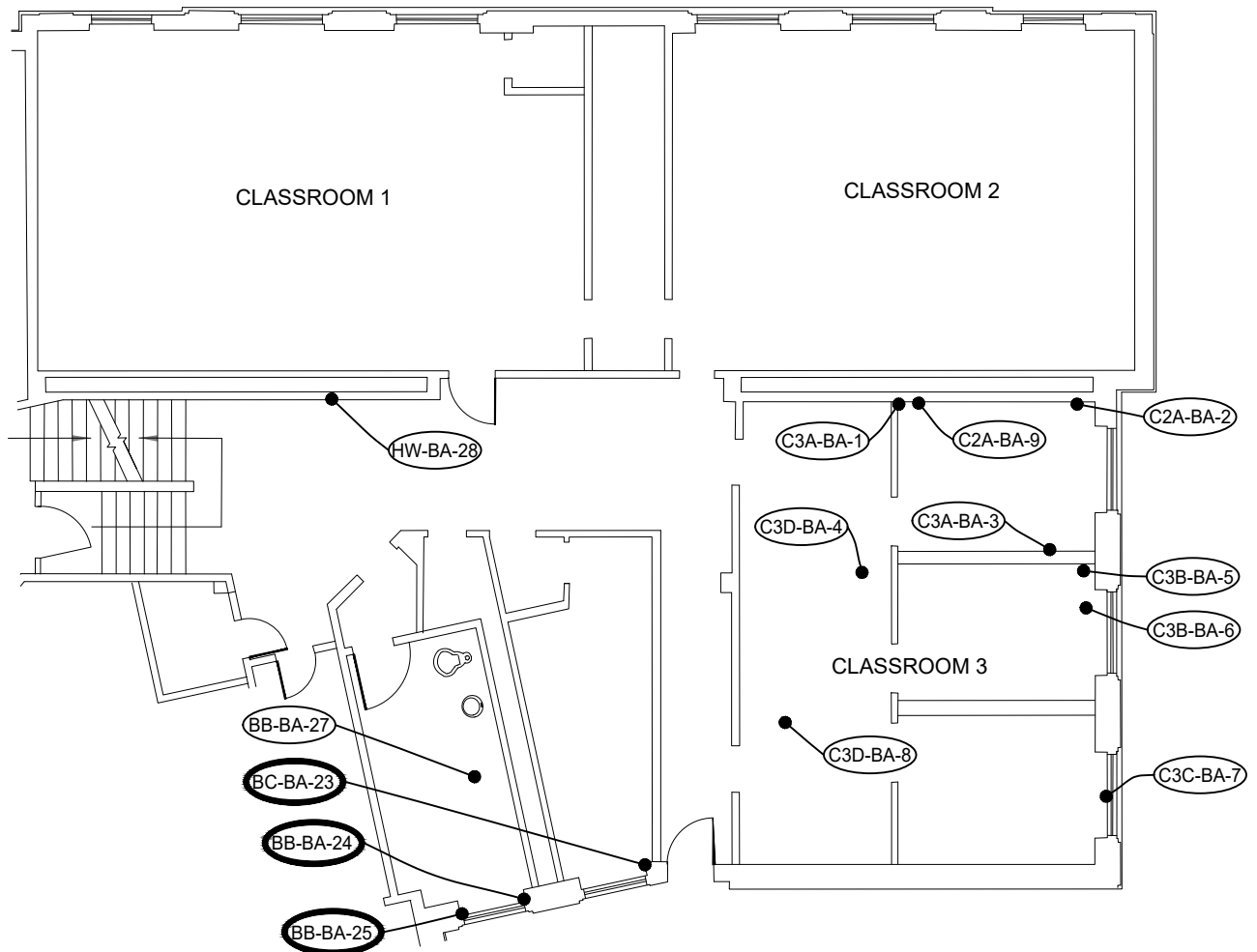
SEE ASBESTOS TABULATED RESULTS FOR ACM SAMPLE NUMBER



ENVIRONMENT, ENERGY, HEALTH & SAFETY CONSULTANTS
 2400 College Road, Fairbanks, AK. 99709, 907-452-5688
 3105 Lakeshore Dr., Anchorage, AK. 99517 907-222-2445
 5438 Shaune Dr., Juneau, AK. 99801 907-586-6813

Classroom 1 & 2
 Asbestos Sample Locations & Results
 Child Care Renovation - Hazardous Materials Assessment
 City Hall, Fairbanks, Alaska

SCALE: As Shown	FIGURE: 3
DESIGN: DSF	
DRAWN: SPH	
PROJECT NO: 23-1058	
DWG: 231058a	
DATE: 08/15/2023	



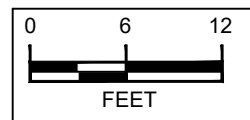
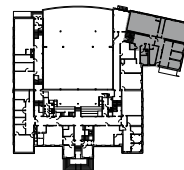
Asbestos Sample Results		
Asbestos Sample Results (Method EPA 600/R-93/116)		
Sample ID	Description	Result
BC-BA-23	white/green TSI	30% Amosite, 8% Chrysotile
BB-BA-24	brown/gray/tan TSI	50% Chrysotile
BB-BA-25	white TSI	30% Amosite, 10% Chrysotile
BB-BA-27	beige cove base & yellow mastic	ND
HW-BA-28	white texture	ND

Asbestos Sample Results		
Asbestos Sample Results (Method EPA 600/R-93/116)		
Sample ID	Description	Result
C3A-BA-1	brown cove base	ND
C3A-BA-2	gray/white ceiling tile - Type 1	ND
C3A-BA-3	gray/white ceiling tile - Type 2	ND
C3D-BA-4	gray/white ceiling tile - Type 3	ND
C3B-BA-5	yellow pipe insulation & mastics	ND
C3B-BA-6	gray floor tile	5.5% Chrysotile
C3B-BA-6	black mastic	2.3% Amosite, 3.4% Chrysotile
C3C-BA-7	brown carpet & yellow mastic	ND
C3D-BA-8	gray floor tile	5.8% Chrysotile
C3D-BA-8	black mastic	<0.25% Chrysotile
C3A-BA-9	white/black mastic	ND

LEGEND

- ABC ASBESTOS BULK SAMPLE LOCATIONS NEGATIVE (<1% ASBESTOS)
- ABC ASBESTOS BULK SAMPLE LOCATIONS POSITIVE (≥1% ASBESTOS)

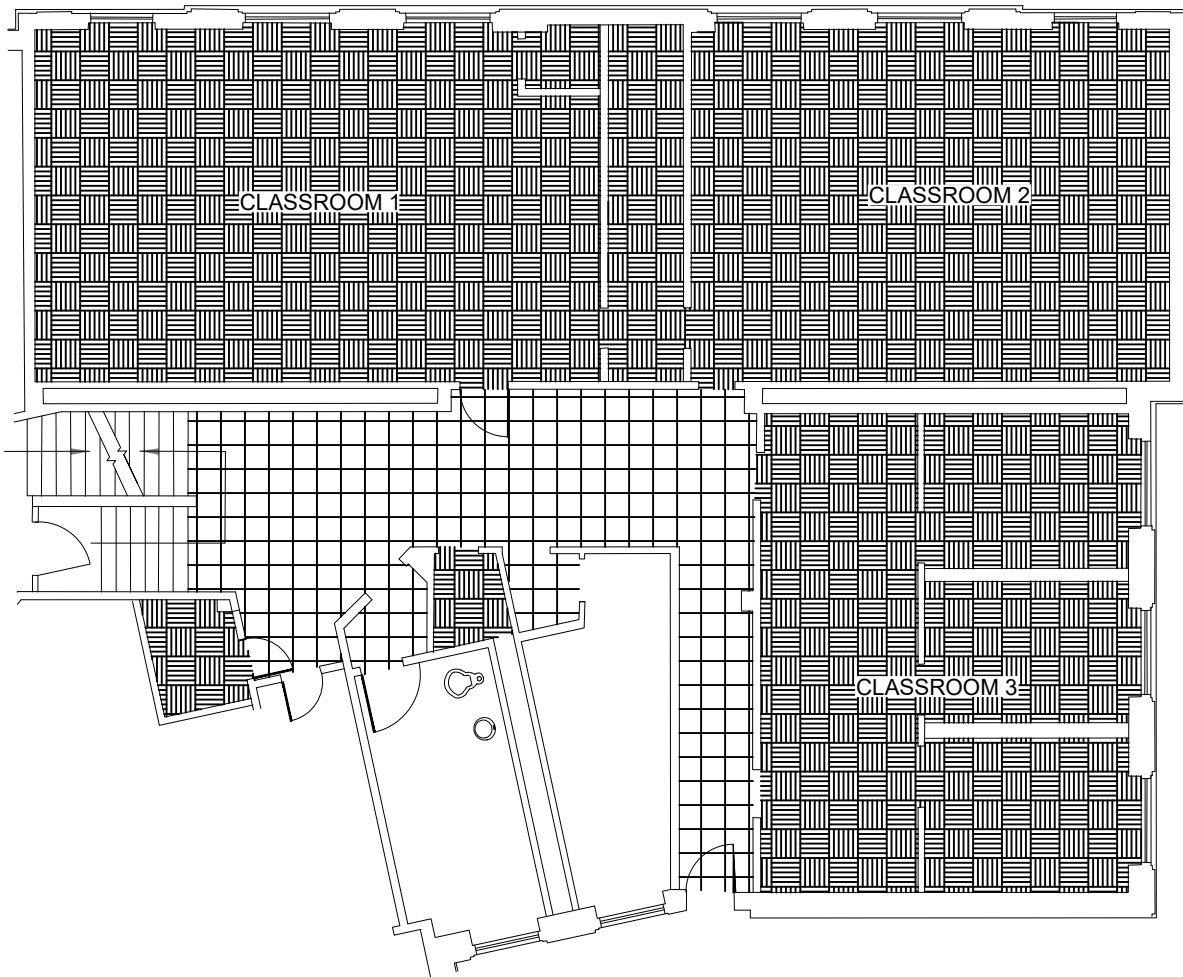
SEE ASBESTOS TABULATED RESULTS FOR ACM SAMPLE NUMBER



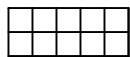
ENVIRONMENT, ENERGY, HEALTH & SAFETY CONSULTANTS
 2400 College Road, Fairbanks, AK. 99709, 907-452-5688
 3105 Lakeshore Dr., Anchorage, AK. 99517 907-222-2445
 5438 Shaune Dr., Juneau, AK. 99801 907-586-6813

Classroom 3 & Other Areas
 Asbestos Sample Locations & Results
 Child Care Renovation - Hazardous Materials Assessment
 City Hall, Fairbanks, Alaska

SCALE: As Shown	FIGURE: 4
DESIGN: DSF	
DRAWN: SPH	
PROJECT NO: 23-1058	
DWG: 231058a	
DATE: 08/15/2023	



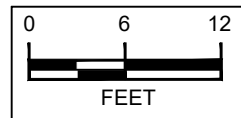
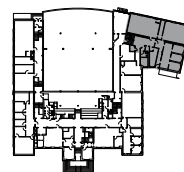
LEGEND



ASBESTOS CONTAINING FLOOR TILE
UNDER EPOXY



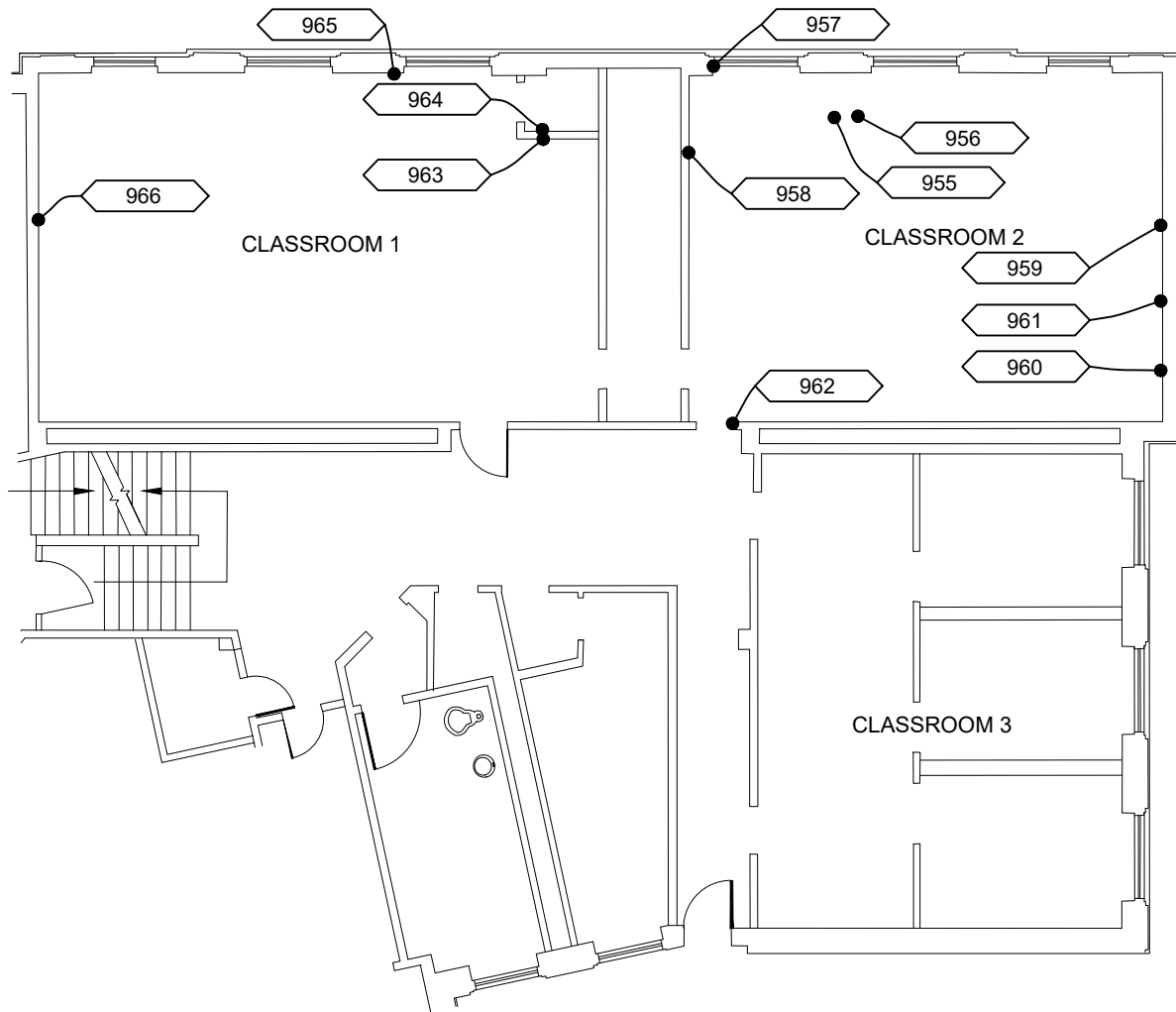
ASBESTOS CONTAINING FLOOR TILE
UNDER CARPET



ENVIRONMENT, ENERGY, HEALTH & SAFETY CONSULTANTS
2400 College Road, Fairbanks, AK. 99709, 907-452-5688
3105 Lakeshore Dr., Anchorage, AK. 99517 907-222-2445
5438 Shaune Dr., Juneau, AK. 99801 907-586-6813

Classroom 1, 2, 3, & Other Areas
Asbestos Containing Material Locations
Child Care Renovation - Hazardous Materials Assessment
City Hall, Fairbanks, Alaska

SCALE: As Shown	FIGURE: 5
DESIGN: DSF	
DRAWN: SPH	
PROJECT NO: 23-1058	
DWG: 231058a	
DATE: 08/15/2023	

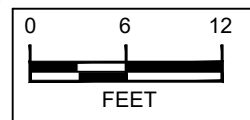
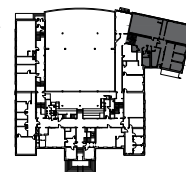


Lead Sample Results				
Number	Color	Surface	Substrate	Result (mg/cm ²)
963	black	wall	gwb	0.00
964	pink	wall	stucco	0.18
965	white	wall	stucco	0.00
966	white	wall	stucco	0.00

Lead Sample Results				
Number	Color	Surface	Substrate	Result (mg/cm ²)
955	white	ceiling tile	MDF	0.00
956	gray	floor	concrete	0.6
957	white	wall	stucco	0.5
958	white	wall	stucco	0.01
959	green	chalkboard	slate	0.06
960	gray	trim	metal	0.3
961	white	wall	particle board	0.8
962	white over green	door	wood	0.7

LEGEND

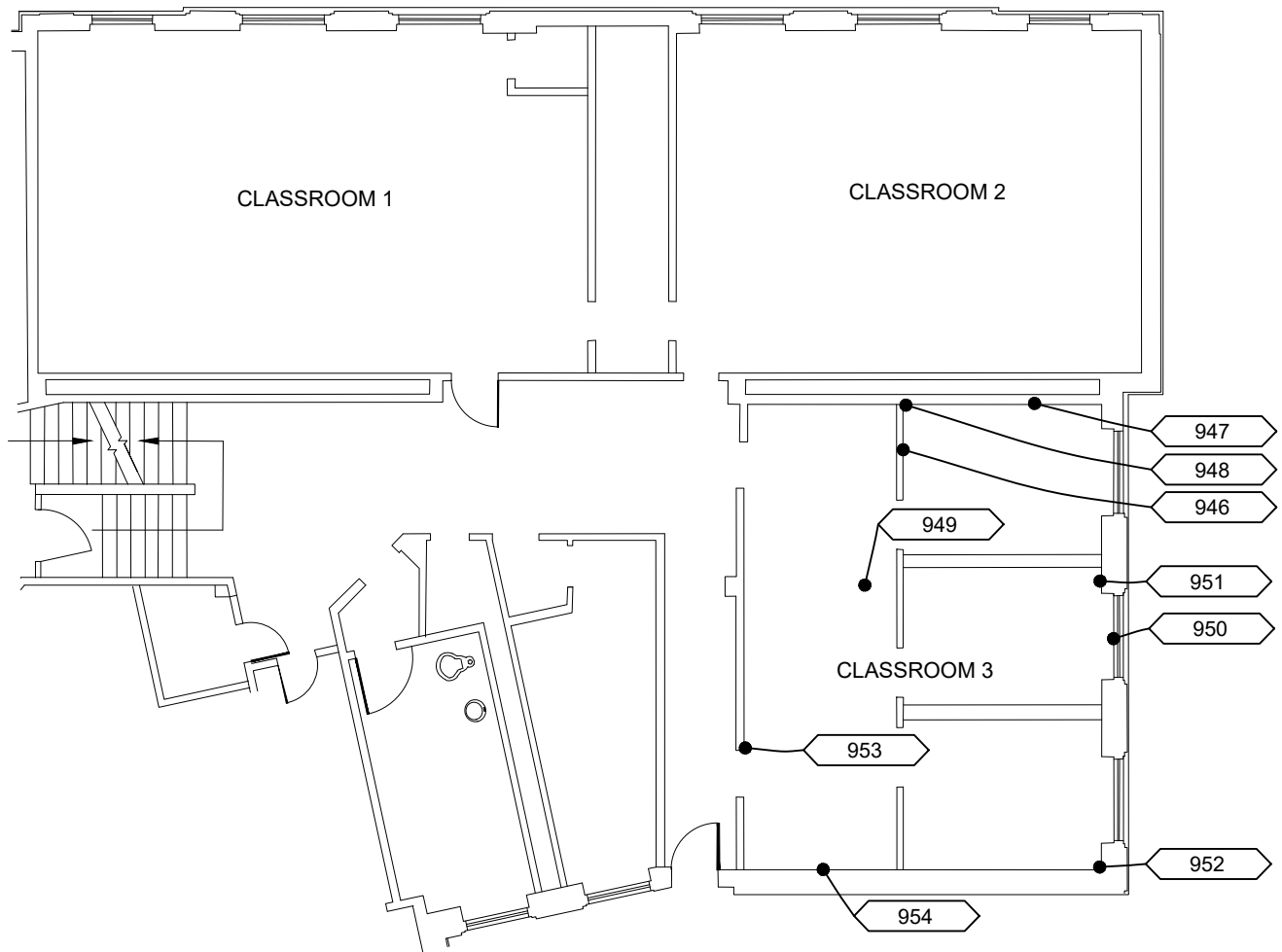
-  LEAD BASED PAINT SAMPLE (<1mg/cm sq)(HUD)
 -  LEAD BASED PAINT SAMPLE (≥1mg/cm sq)(HUD)
- SEE LEAD BASED PAINT TABULATION RESULTS FOR CONCENTRATION FOR LEAD SAMPLE NUMBER



ENVIRONMENT, ENERGY, HEALTH & SAFETY CONSULTANTS
 2400 College Road, Fairbanks, AK. 99709, 907-452-5688
 3105 Lakeshore Dr., Anchorage, AK. 99517 907-222-2445
 5438 Shaune Dr., Juneau, AK. 99801 907-586-6813

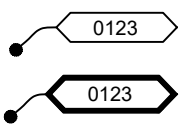
Classroom 1 & 2
 Lead Sample Locations & Results
 Child Care Renovation - Hazardous Materials Assessment
 City Hall, Fairbanks, Alaska

SCALE: As Shown	FIGURE: 6
DESIGN: DSF	
DRAWN: SPH	
PROJECT NO: 23-1058	
DWG: 231058a	
DATE: 08/15/2023	



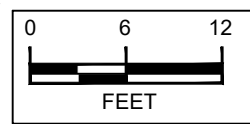
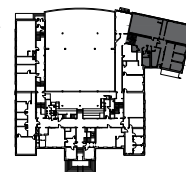
Lead Sample Results				
Number	Color	Surface	Substrate	Result (mg/cm ²)
946	stain	panel	wood	0.00
947	tan	wall	stucco	0.00
948	yellow	trim	wood	0.3
949	beige	floor	concrete	0.08
950	white	heat register	metal	0.22
951	white	wall	stucco	0.29
952	light brown	wall	stucco	0.28
953	blue	wall	stucco	0.00
954	white	wall	particle board	0.01

LEGEND



0123 LEAD BASED PAINT SAMPLE (<1mg/cm sq)(HUD)
 0123 LEAD BASED PAINT SAMPLE (≥1mg/cm sq)(HUD)

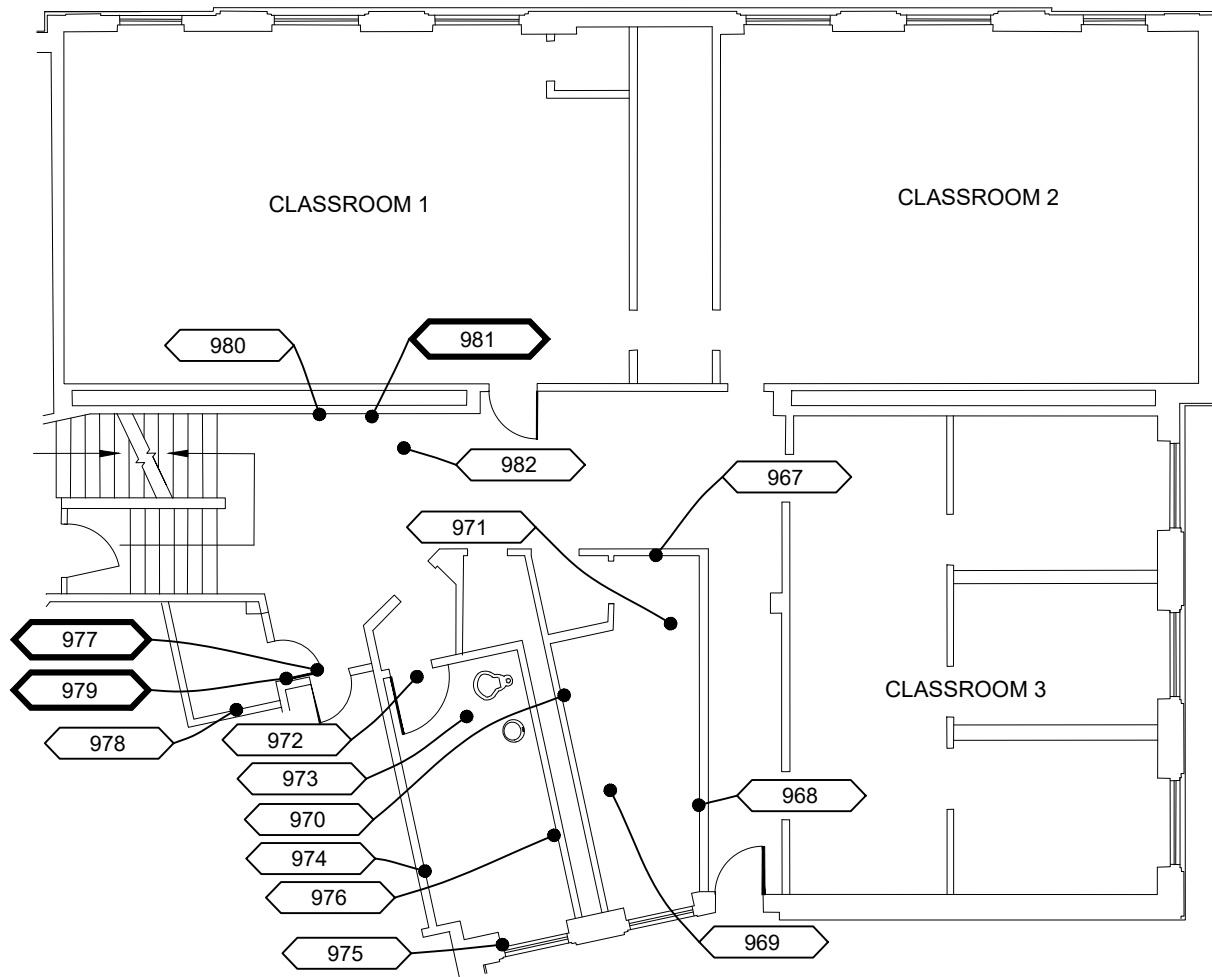
SEE LEAD BASED PAINT TABULATION RESULTS FOR CONCENTRATION FOR LEAD SAMPLE NUMBER



ENVIRONMENT, ENERGY, HEALTH & SAFETY CONSULTANTS
 2400 College Road, Fairbanks, AK. 99709, 907-452-5688
 3105 Lakeshore Dr., Anchorage, AK. 99517 907-222-2445
 5438 Shaune Dr., Juneau, AK. 99801 907-586-6813

Classroom 3
 Lead Sample Locations & Results
 Child Care Renovation - Hazardous Materials Assessment
 City Hall, Fairbanks, Alaska

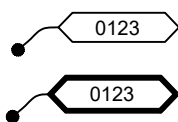
SCALE: As Shown	FIGURE: 7
DESIGN: DSF	
DRAWN: SPH	
PROJECT NO: 23-1058	
DWG: 231058a	
DATE: 08/15/2023	



Lead Sample Results				
Number	Color	Surface	Substrate	Result (mg/cm ²)
967	blue	wall	stucco	0.29
968	green over blue	wall	stucco	0.5
969	tan	bathroom stall	wood	0.22
970	white	wall	stucco	0.00
971	gray	floor	concrete	0.27
972	tan	floor	concrete	0.5
973	white	bathroom stall	wood	0.00
974	white	wall	stucco	0.9

Lead Sample Results				
Number	Color	Surface	Substrate	Result (mg/cm ²)
975	white	wall	stucco	0.7
976	white	wall	stucco	0.00
977	green	door	wood	2.1
978	green	wall	stucco	0.4
979	green	trim	wood	1.0
980	brown	molding	plastic	0.4
981	white over green	wall	stucco	1.0
982	epoxy on gray	floor tile	vinyl	0.00

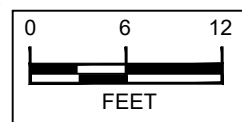
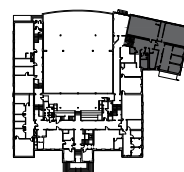
LEGEND



0123 LEAD BASED PAINT SAMPLE (<1mg/cm sq)(HUD)

0123 LEAD BASED PAINT SAMPLE (≥1mg/cm sq)(HUD)

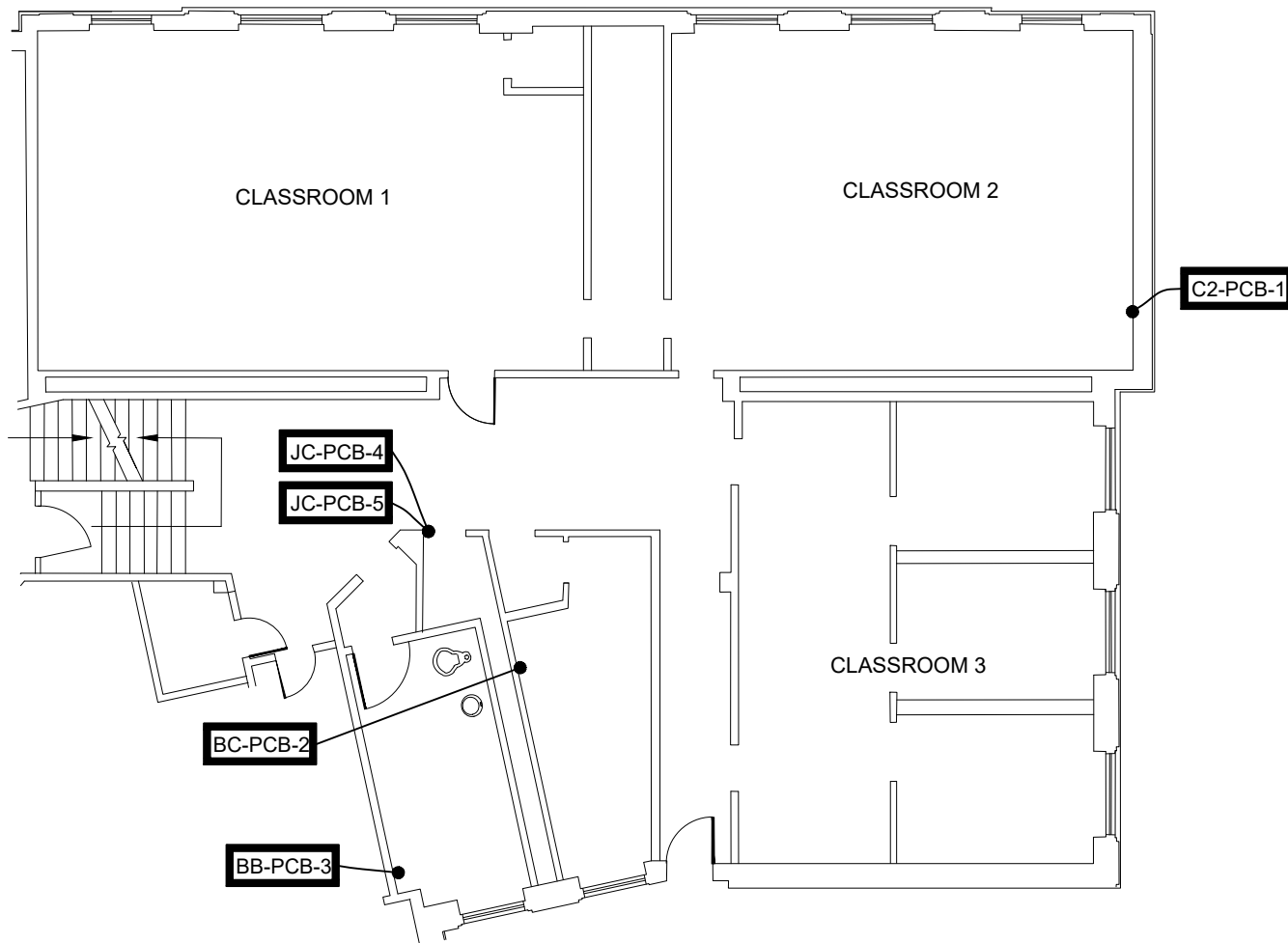
SEE LEAD BASED PAINT TABULATION RESULTS FOR CONCENTRATION FOR LEAD SAMPLE NUMBER



ENVIRONMENT, ENERGY, HEALTH & SAFETY CONSULTANTS
 2400 College Road, Fairbanks, AK. 99709, 907-452-5688
 3105 Lakeshore Dr., Anchorage, AK. 99517 907-222-2445
 5438 Shaune Dr., Juneau, AK. 99801 907-586-6813

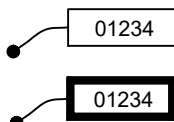
Other Areas
 Lead Sample Locations & Results
 Child Care Renovation - Hazardous Materials Assessment
 City Hall, Fairbanks, Alaska

SCALE: As Shown	FIGURE: 8
DESIGN: DSF	
DRAWN: SPH	
PROJECT NO: 23-1058	
DWG: 231058a	
DATE: 08/15/2023	



PCB Sample Results					
PCB Bulk by 3540/8082A (mg/kg)					
Sample ID	C2-PCB-1	BC-PCB-2	BB-PCB-3	JC-PCB-4	JC-PCB-5
Color	white/yellow over gray	tan over green over blue	white	orange over green	white over green
Aroclor-1016	ND	ND	ND	ND	ND
Aroclor-1221	ND	ND	ND	ND	ND
Aroclor-1232	ND	ND	ND	ND	ND
Aroclor-1242	ND	ND	ND	ND	ND
Aroclor-1248	ND	ND	ND	ND	ND
Aroclor-1254	5.2	3.3	2.1	2.1	5.6
Aroclor-1260	ND	0.40	ND	0.24	1.2
Aroclor-1262	0.85	ND	0.33	ND	ND
Aroclor-1268	ND	ND	ND	ND	ND

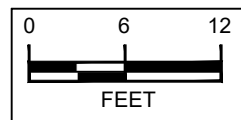
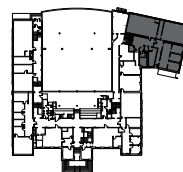
LEGEND



01234 PCB PAINT SAMPLE LOCATIONS
NEGATIVE (NO PCBs DETECTED)

01234 PCB PAINT SAMPLE LOCATIONS
POSITIVE (PCBs DETECTED)

SEE TABULATED RESULTS
FOR SAMPLE NUMBER &
RESULTS



ENVIRONMENT, ENERGY, HEALTH & SAFETY CONSULTANTS
2400 College Road, Fairbanks, AK. 99709, 907-452-5688
3105 Lakeshore Dr., Anchorage, AK. 99517 907-222-2445
5438 Shaune Dr., Juneau, AK. 99801 907-586-6813

Class 2 & Other Areas
PCB Sample Locations & Results
Child Care Renovation - Hazardous Materials Assessment
City Hall, Fairbanks, Alaska

SCALE: As Shown	FIGURE: 9
DESIGN: DSF	
DRAWN: SPH	
PROJECT NO: 23-1058	
DWG: 231058a	
DATE: 08/15/2023	

Attachment 2
Photo Pages

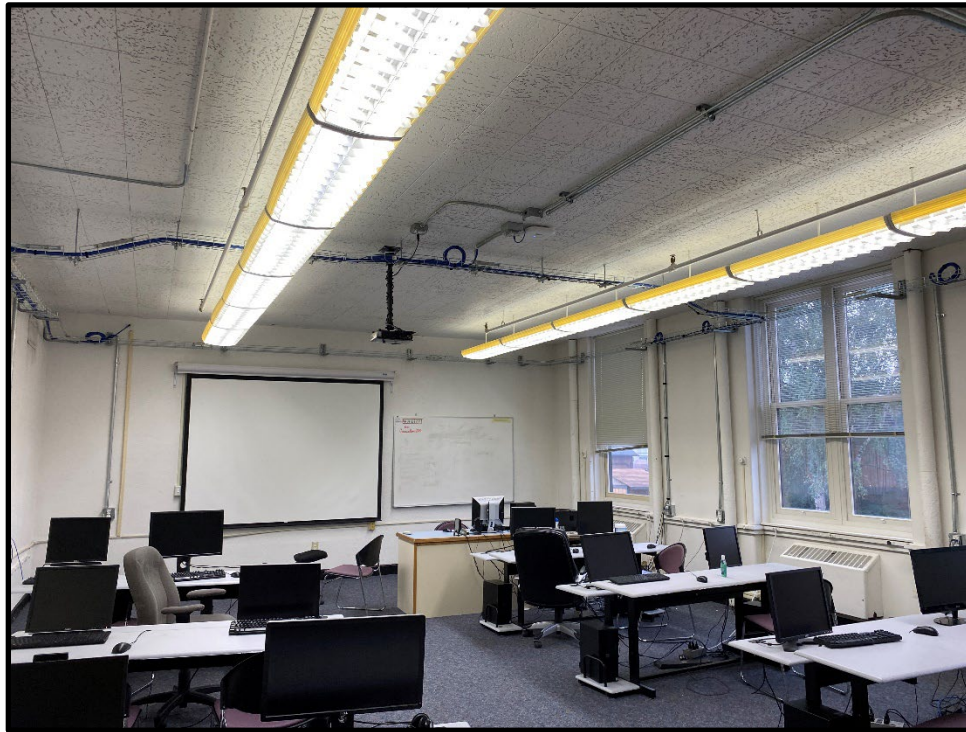


Photo 1: Classroom 1 has two layers of carpet over ACM flooring tiles



Photo 2: Classroom 2 has one layer of carpet over ACM flooring tiles



Photo 3: Asbestos containing TSI in restroom 2 on heat piping



Photo 4: Asbestos containing TSI in restroom 1 on heat piping



Photo 5: PCB containing paint was found on the interior and exterior of the janitor closet door.
Assume all doors are PCB containing.



Photo 6: PCB containing paint found on the divider stalls in restroom 2. Assume at restroom dividers are PCB containing.

Attachment 3
Laboratory Reports



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 042319893

Customer ID: NORT69

Customer PO:

Project ID:

Attention: Danielle Frick
Nortech Environmental & Engineer Cnslt.
2400 College Road
Fairbanks, AK 99709

Phone: (907) 452-5688
Fax: (907) 452-5694
Received Date: 08/11/2023 9:40 AM
Analysis Date: 08/13/2023 - 08/14/2023
Collected Date: 08/11/2023

Project: 23-1058

Test Report: Asbestos Analysis of Non-Friable Organic Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
ACM-1 042319893-0001	Classroom 3 Above Windows - White Sealant	White Non-Fibrous Homogeneous	99.3 Other	0.66 Fibrous_Other	No Asbestos Detected
ACM-2 042319893-0002	Classroom 3 Behind Tile - Mastic / Sealant	White Non-Fibrous Homogeneous	100 Other	<0.25 Fibrous_Other	No Asbestos Detected
ACM-3 042319893-0003	Classroom 3 Above Windows - White Sealant	White Non-Fibrous Homogeneous	100 Other	None	No Asbestos Detected
ACM-4 042319893-0004	Classroom 3 Above Windows - Patch Sealant	White Non-Fibrous Homogeneous	100 Other	None	No Asbestos Detected

Analyst(s)

Michael Bocchicchio (3)
Michelle Quach (1)

Samantha Rundstrom, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. EMSL suggests that samples reported as < 1% or none detected undergo additional analysis via TEM. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ PA ID# 68-00367, NVLAP Lab Code 101048-0

Initial report from: 08/14/2023 08:51:04

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012359529**LIMS Reference ID:** AB59529**EMSL Customer ID:** NORT69

August 04, 2023

Danielle Frick
Nortech Environmental & Engineer Cnslt. [NORT69]
2400 College Road
Fairbanks, AK 99709

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 7/28/2023. The results are tabulated on the attached pages for the following client designated project:

23-1058

The reference number for these samples is EMSL Order #: AB59529 . 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

Table of Contents

Cover Letter	1
Sample Condition on Receipt	3
Samples in Report	4
Positive Hits Summary	5
Sample Results	6
Quality Assurance Results	11
Certified Analyses	12
Certifications	12
Qualifiers, Definitions and Disclaimer	13
Chain of Custody PDF	14

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012359529**LIMS Reference ID:** AB59529**EMSL Customer ID:** NORT69

Attention: Danielle Frick
 Nortech Environmental & Engineer Cnslt. [NORT69]
 2400 College Road
 Fairbanks, AK 99709
 (907) 687-1227
 danielle.frick@nortechengr.com

Project Name: 23-1058**Customer PO:****EMSL Sales Rep:** Stefan Wiersgalla**Received:** 07/28/2023 09:30**Reported:** 08/04/2023 13:35**Sample Condition on Receipt****Cooler ID: Default Cooler****Temperature: 21.7 °C**

Custody Seals	Y
Containers Intact	Y
COC/Labels Agree	Y
Preservation Confirmed	Y

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012359529**LIMS Reference ID:** AB59529**EMSL Customer ID:** NORT69

Attention: Danielle Frick
 Nortech Environmental & Engineer Cnslt. [NORT69]
 2400 College Road
 Fairbanks, AK 99709
 (907) 687-1227
 danielle.frick@nortechengr.com

Project Name: 23-1058
Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 07/28/2023 09:30
Reported: 08/04/2023 13:35

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AB59529-01	C2-PCB-1	Solid	07/26/2023	07/28/2023
AB59529-02	BC-PCB-2	Solid	07/26/2023	07/28/2023
AB59529-03	BB-PCB-3	Solid	07/26/2023	07/28/2023
AB59529-04	JC-PCB-4	Solid	07/26/2023	07/28/2023
AB59529-05	JC-PCB-5	Solid	07/26/2023	07/28/2023

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012359529**LIMS Reference ID:** AB59529**EMSL Customer ID:** NORT69

Attention: Danielle Frick
 Nortech Environmental & Engineer Cnslt. [NORT69]
 2400 College Road
 Fairbanks, AK 99709
 (907) 687-1227
 danielle.frick@nortechengr.com

Project Name: 23-1058

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 07/28/2023 09:30
Reported: 08/04/2023 13:35

Positive Hits Summary

Lab ID	Client ID					Sampled
AB59529-01	C2-PCB-1					07/26/23 10:35
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW 846-8082A	Aroclor-1254	5.2		mg/kg	07/31/2023 13:40	
SW 846-8082A	Aroclor-1262	0.85		mg/kg	07/31/2023 13:40	
Lab ID	Client ID					Sampled
AB59529-02	BC-PCB-2					07/26/23 11:30
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW 846-8082A	Aroclor-1254	3.3		mg/kg	07/31/2023 12:57	
SW 846-8082A	Aroclor-1260	0.40		mg/kg	07/31/2023 12:57	
Lab ID	Client ID					Sampled
AB59529-03	BB-PCB-3					07/26/23 12:15
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW 846-8082A	Aroclor-1254	2.1		mg/kg	07/31/2023 14:01	
SW 846-8082A	Aroclor-1262	0.33		mg/kg	07/31/2023 14:01	
Lab ID	Client ID					Sampled
AB59529-04	JC-PCB-4					07/26/23 12:20
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW 846-8082A	Aroclor-1254	2.1		mg/kg	07/31/2023 14:22	
SW 846-8082A	Aroclor-1260	0.24		mg/kg	07/31/2023 14:22	
Lab ID	Client ID					Sampled
AB59529-05	JC-PCB-5					07/26/23 12:30
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW 846-8082A	Aroclor-1254	5.6		mg/kg	07/31/2023 14:43	
SW 846-8082A	Aroclor-1260	1.2		mg/kg	07/31/2023 14:43	

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012359529

LIMS Reference ID: AB59529

EMSL Customer ID: NORT69

Attention: Danielle Frick
 Nortech Environmental & Engineer Cnslt. [NORT69]
 2400 College Road
 Fairbanks, AK 99709
 (907) 687-1227
 danielle.frick@nortechengr.com

Project Name: 23-1058

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 07/28/2023 09:30
Reported: 08/04/2023 13:35

Sample Results

Sample: C2-PCB-1
AB59529-01 (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		1	0.24	mg/kg	07/28/23 11:27	07/31/23 13:40	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1221	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 13:40	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1232	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 13:40	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1242	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 13:40	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1248	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 13:40	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1254	5.2		1	0.24	mg/kg	07/28/23 11:27	07/31/23 13:40	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1260	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 13:40	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1262	0.85		1	0.24	mg/kg	07/28/23 11:27	07/31/23 13:40	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1268	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 13:40	MS/TL1	SW846 3546	SW 846-8082A
Surrogate(s)	Recovery	Q		Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>	61%			21-123		07/28/23 11:27	07/31/23 13:40	MS/TL1	SW846 3546	SW 846-8082A
<i>Surrogate: Decachlorobiphenyl</i>	90%			17-128		07/28/23 11:27	07/31/23 13:40	MS/TL1	SW846 3546	SW 846-8082A


EMSL Analytical, Inc.

 200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012359529

LIMS Reference ID: AB59529

EMSL Customer ID: NORT69

Attention: Danielle Frick
 Nortech Environmental & Engineer Cnslt. [NORT69]
 2400 College Road
 Fairbanks, AK 99709
 (907) 687-1227
 danielle.frick@nortechengr.com

Project Name: 23-1058

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 07/28/2023 09:30
Reported: 08/04/2023 13:35

Sample Results

(Continued)

Sample: BC-PCB-2
AB59529-02 (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	07/28/23 11:27	07/31/23 12:57	MS/TL	SW846 3546	SW 846-8082A
Aroclor-1221	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 12:57	MS/TL	SW846 3546	SW 846-8082A
Aroclor-1232	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 12:57	MS/TL	SW846 3546	SW 846-8082A
Aroclor-1242	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 12:57	MS/TL	SW846 3546	SW 846-8082A
Aroclor-1248	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 12:57	MS/TL	SW846 3546	SW 846-8082A
Aroclor-1254	3.3		1	0.24	mg/kg	07/28/23 11:27	07/31/23 12:57	MS/TL	SW846 3546	SW 846-8082A
Aroclor-1260	0.40		1	0.24	mg/kg	07/28/23 11:27	07/31/23 12:57	MS/TL	SW846 3546	SW 846-8082A
Aroclor-1262	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 12:57	MS/TL	SW846 3546	SW 846-8082A
Aroclor-1268	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 12:57	MS/TL	SW846 3546	SW 846-8082A
Surrogate(s)	Recovery	Q		Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>	56%			21-123		07/28/23 11:27	07/31/23 12:57	MS/TL	SW846 3546	SW 846-8082A
<i>Surrogate: Decachlorobiphenyl</i>	59%			17-128		07/28/23 11:27	07/31/23 12:57	MS/TL	SW846 3546	SW 846-8082A

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012359529

LIMS Reference ID: AB59529

EMSL Customer ID: NORT69

Attention: Danielle Frick
 Nortech Environmental & Engineer Cnslt. [NORT69]
 2400 College Road
 Fairbanks, AK 99709
 (907) 687-1227
 danielle.frick@nortechengr.com

Project Name: 23-1058
Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 07/28/2023 09:30
Reported: 08/04/2023 13:35

Sample Results

(Continued)

Sample: BB-PCB-3
AB59529-03 (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	0.24	mg/kg	07/28/23 11:27	07/31/23 14:01	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1221	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 14:01	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1232	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 14:01	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1242	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 14:01	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1248	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 14:01	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1254	2.1		1	0.24	mg/kg	07/28/23 11:27	07/31/23 14:01	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1260	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 14:01	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1262	0.33		1	0.24	mg/kg	07/28/23 11:27	07/31/23 14:01	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1268	ND		1	0.24	mg/kg	07/28/23 11:27	07/31/23 14:01	MS/TL1	SW846 3546	SW 846-8082A
Surrogate(s)	Recovery	Q		Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>	54%			21-123		07/28/23 11:27	07/31/23 14:01	MS/TL1	SW846 3546	SW 846-8082A
<i>Surrogate: Decachlorobiphenyl</i>	56%			17-128		07/28/23 11:27	07/31/23 14:01	MS/TL1	SW846 3546	SW 846-8082A

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012359529

LIMS Reference ID: AB59529

EMSL Customer ID: NORT69

Attention: Danielle Frick
 Nortech Environmental & Engineer Cnslt. [NORT69]
 2400 College Road
 Fairbanks, AK 99709
 (907) 687-1227
 danielle.frick@nortechengr.com

Project Name: 23-1058
Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 07/28/2023 09:30
Reported: 08/04/2023 13:35

Sample Results

(Continued)

Sample: JC-PCB-4
AB59529-04 (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		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:22	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1221	ND		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:22	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1232	ND		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:22	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1242	ND		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:22	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1248	ND		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:22	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1254	2.1		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:22	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1260	0.24		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:22	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1262	ND		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:22	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1268	ND		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:22	MS/TL1	SW846 3546	SW 846-8082A
Surrogate(s)	Recovery	Q		Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>	25%			21-123		07/28/23 11:27	07/31/23 14:22	MS/TL1	SW846 3546	SW 846-8082A
<i>Surrogate: Decachlorobiphenyl</i>	41%			17-128		07/28/23 11:27	07/31/23 14:22	MS/TL1	SW846 3546	SW 846-8082A

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012359529

LIMS Reference ID: AB59529

EMSL Customer ID: NORT69

Attention: Danielle Frick
 Nortech Environmental & Engineer Cnslt. [NORT69]
 2400 College Road
 Fairbanks, AK 99709
 (907) 687-1227
 danielle.frick@nortechengr.com

Project Name: 23-1058

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 07/28/2023 09:30
Reported: 08/04/2023 13:35

Sample Results

(Continued)

Sample: JC-PCB-5
AB59529-05 (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	0.23	mg/kg	07/28/23 11:27	07/31/23 14:43	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1221	ND		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:43	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1232	ND		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:43	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1242	ND		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:43	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1248	ND		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:43	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1254	5.6		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:43	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1260	1.2		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:43	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1262	ND		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:43	MS/TL1	SW846 3546	SW 846-8082A
Aroclor-1268	ND		1	0.23	mg/kg	07/28/23 11:27	07/31/23 14:43	MS/TL1	SW846 3546	SW 846-8082A
Surrogate(s)	Recovery	Q		Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>	47%			21-123		07/28/23 11:27	07/31/23 14:43	MS/TL1	SW846 3546	SW 846-8082A
<i>Surrogate: Decachlorobiphenyl</i>	55%			17-128		07/28/23 11:27	07/31/23 14:43	MS/TL1	SW846 3546	SW 846-8082A


EMSL Analytical, Inc.

 200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012359529

LIMS Reference ID: AB59529

EMSL Customer ID: NORT69

Attention: Danielle Frick
 Nortech Environmental & Engineer Cnslt. [NORT69]
 2400 College Road
 Fairbanks, AK 99709
 (907) 687-1227
 danielle.frick@nortechengr.com

Project Name: 23-1058

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 07/28/2023 09:30
Reported: 08/04/2023 13:35

Quality Control

GC-SVOA

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	-------------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------

Batch: BBG0552 - SW846 3546
Blank (BBG0552-BLK1)

Prepared: 7/28/2023 Analyzed: 7/31/2023

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		63	21-123
Surrogate: Decachlorobiphenyl		0.5000		71	17-128

LCS (BBG0552-BS1)

Prepared: 7/28/2023 Analyzed: 7/31/2023

Aroclor-1016	2.86	0.25	mg/kg	5.000	57	37-120
Aroclor-1260	3.14	0.25	mg/kg	5.000	63	45-121

Surrogate(s)

Surrogate: Tetrachloro-m-xylene		0.5000		57	21-123
Surrogate: Decachlorobiphenyl		0.5000		66	17-128

Matrix Spike (BBG0552-MS1)
Source: AB59529-02

Prepared: 7/28/2023 Analyzed: 7/31/2023

Aroclor-1016	2.66	0.24	mg/kg	4.878	ND	54	30-133
Aroclor-1260	3.01	0.24	mg/kg	4.878	0.384	54	30-134

Surrogate(s)

Surrogate: Tetrachloro-m-xylene		0.4878		50	21-123
Surrogate: Decachlorobiphenyl		0.4878		54	17-128

Matrix Spike Dup (BBG0552-MSD1)
Source: AB59529-02

Prepared: 7/28/2023 Analyzed: 7/31/2023

Aroclor-1016	3.37	0.23	mg/kg	4.651	ND	73	30-133	24	28
Aroclor-1260	3.71	0.23	mg/kg	4.651	0.384	72	30-134	21	28

Surrogate(s)

Surrogate: Tetrachloro-m-xylene		0.4651		63	21-123
Surrogate: Decachlorobiphenyl		0.4651		67	17-128

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012359529**LIMS Reference ID:** AB59529**EMSL Customer ID:** NORT69

Attention: Danielle Frick
 Nortech Environmental & Engineer Cnslt. [NORT69]
 2400 College Road
 Fairbanks, AK 99709
 (907) 687-1227
 danielle.frick@nortechengr.com

Project Name: 23-1058

Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 07/28/2023 09:30
Reported: 08/04/2023 13:35

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SW 846-8082A 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 [2C]	11097-69-1	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1260	11096-82-5	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1260 [2C]	11096-82-5	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1262	37324-23-5	NJDEP,NYSDOH,PADEP
Aroclor-1262 [2C]	37324-23-5	NJDEP,NYSDOH,PADEP
Aroclor-1268	11100-14-4	NJDEP,NYSDOH,PADEP

List of Certifications

Code	Description	Number	Expires
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2023
California ELAP	California Water Boards	1877	06/30/2024
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2023
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2023
NYSDOH	New York State Department of Health	10872	04/01/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2023

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.

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012359529**LIMS Reference ID:** AB59529**EMSL Customer ID:** NORT69

Attention: Danielle Frick
 Nortech Environmental & Engineer Cnslt. [NORT69]
 2400 College Road
 Fairbanks, AK 99709
 (907) 687-1227
 danielle.frick@nortechengr.com

Project Name: 23-1058
Customer PO:
EMSL Sales Rep: Stefan Wiersgalla
Received: 07/28/2023 09:30
Reported: 08/04/2023 13:35

Notes and Definitions

Item	Definition
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit
%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.



Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
EMAIL: c@emsl.com

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

AB59529

Customer Information	Customer ID:				Billing Information	Billing ID:			
	Company Name:	Nortech				Company Name:	Nortech Environmental & Engineer Cnslt.		
	Contact Name:	Danielle Frick				Billing Contact:	Danielle Frick		
	Street Address:	2400 College Rd				Street Address:	2400 College Road		
	City, State, Zip:	Fairbanks	AK	99709		Country:	US		
Phone:	9074525688			Phone:	907-452-5688				
Email(s) for Report:	danielle.frick@nortechengr.com			Email(s) for Invoice:					

Project Name/No: 23-1058 Purchase Order:

EMSL LIMS Project ID: (If applicable, EMSL will provide) US State where samples collected: AK State of Connecticut (CT) must select project location:
 Commercial (Taxable) Residential (Non-Taxable)

Samples for Compliance? Yes No If Yes, for NPDES? Yes No Other (Specify) PWS ID: State Reporting Required? Yes No

Samples Collected by (Check One): EMSL CLIENT Samples Received Chilled? Yes No Sample(s) Temperature Upon Receipt (LAB ONLY)

Sampled By Name: Danielle Frick Sampled By Signature: No. of Samples in Shipment: 5

Turn-Around-Time (TAT) Standard Turn-Around-Time: 2 Weeks The following TAT's are subject to Lab approval. Call lab to confirm TAT before submittal: 1 Week 4 Days 3 Days 2 Days 1 Day

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix W=Water S=Soil A=Air SL=Sludge O=Other	Preservative 1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other <small>Describe below in Special Instructions</small>	List Test(s) Needed (Write in test below, then check on sample line:)								Comments
						Test 1:	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	
1 C2-PCB-1			7/26/23 1035	Paint		<input checked="" type="checkbox"/>								white/ yellow/ gray
2 BC-PCB-2			7/26/23 1130	Paint		<input checked="" type="checkbox"/>								tan/ green/ blue
3 BB-PCB-3			7/26/23 1215	Paint		<input checked="" type="checkbox"/>								white/ blue
4 JC-PCB-4			7/26/23 1220	Paint		<input checked="" type="checkbox"/>								orange/ green

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Reporting Requirements: Results Only Results and QC Reduced Deliverables Hzresults EDD Excel Other (Describe Above)

Method of Shipment: FedEx Sample Condition Upon Receipt:

Relinquished by: Danielle Frick Date/Time: 7/27/23 0900 Received by: Date/Time:

Relinquished by: Date/Time: Received by: Date/Time: 7/28/23 9:30am



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

1159529

EMSL At Table of Contents

200 Route 130 North

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675

EMAIL: c@emsl.com

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix	Preservative	List Test(s) Needed (Write in test below, then check on sample line:)								Comments
				W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other <i>Describe in Special Instructions</i>	Test 1:	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	
5 JC-PCB-5	<input type="checkbox"/>	<input type="checkbox"/>	7/26/23 1230	Paint		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	white/ green
	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Method of Shipment: FedEx		Sample Condition Upon Receipt:	
Relinquished by: Danielle Frick	Date/Time: 7/27/23 0900	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - COC-07 Chemistry R11 02/26/2021

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042318539
Customer ID: NORT69
Customer PO:
Project ID:

Attn: Janine Way
Nortech Environmental & Engineer Cnslt.
2400 College Road
Fairbanks, AK 99709
Phone: (907) 452-5688
Fax: (907) 452-5694
Collected:
Received: 7/28/2023
Analyzed: 8/07/2023
Proj: City Hall / 23-1058

Summary Test Report for Asbestos Analysis of Bulk Material

Client Sample ID: C3A-BA-1 **Lab Sample ID:** 042318539-0001

Sample Description: Classroom 3A/Brown Cove Base

TEST	Analyzed		Non-Asbestos		Asbestos	Comment
	Date	Color	Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/04/2023	Brown	0.0%	100%	None Detected	

Client Sample ID: C3A-BA-2 **Lab Sample ID:** 042318539-0002

Sample Description: Classroom 3A/2'x4' Ceiling Tiles Type 1

TEST	Analyzed		Non-Asbestos		Asbestos	Comment
	Date	Color	Fibrous	Non-Fibrous		
PLM	8/05/2023	Gray/White	80.0%	20.0%	None Detected	

Client Sample ID: C3A-BA-3 **Lab Sample ID:** 042318539-0003

Sample Description: Classroom 3A/2'x4' Ceiling Tiles Type 2

TEST	Analyzed		Non-Asbestos		Asbestos	Comment
	Date	Color	Fibrous	Non-Fibrous		
PLM	8/05/2023	Gray/White	80.0%	20.0%	None Detected	

Client Sample ID: C3D-BA-4 **Lab Sample ID:** 042318539-0004

Sample Description: Classroom 3D/2'x4' Ceiling Tiles Type 3

TEST	Analyzed		Non-Asbestos		Asbestos	Comment
	Date	Color	Fibrous	Non-Fibrous		
PLM	8/05/2023	Gray/White	80.0%	20.0%	None Detected	

Client Sample ID: C3B-BA-5-Insulation **Lab Sample ID:** 042318539-0005

Sample Description: Classroom 3B/TSI Piping with Insulation Jacket

TEST	Analyzed		Non-Asbestos		Asbestos	Comment
	Date	Color	Fibrous	Non-Fibrous		
PLM	8/05/2023	Yellow	95.0%	5.0%	None Detected	

Client Sample ID: C3B-BA-5-Mastic **Lab Sample ID:** 042318539-0005A

Sample Description: Classroom 3B/Mastic

TEST	Analyzed		Non-Asbestos		Asbestos	Comment
	Date	Color	Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/04/2023	White/Silver/Yellow	8.4%	91.6%	None Detected	

Client Sample ID: C3B-BA-6-Floor Tile **Lab Sample ID:** 042318539-0006

Sample Description: Classroom 3B/Floor Tile

TEST	Analyzed		Non-Asbestos		Asbestos	Comment
	Date	Color	Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/04/2023	Gray	0.0%	94.5%	5.5% Chrysotile	



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042318539
Customer ID: NORT69
Customer PO:
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material

Client Sample ID: C3B-BA-6-Mastic **Lab Sample ID:** 042318539-0006A

Sample Description: Classroom 3B/Black Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/04/2023	Black	0.0%	94.3%	2.3% Amosite 3.4% Chrysotile	

Client Sample ID: C3C-BA-7-Carpet **Lab Sample ID:** 042318539-0007

Sample Description: Classroom 3C/Brown Carpet

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/05/2023	Brown	85.0%	15.0%	None Detected	

Client Sample ID: C3C-BA-7-Mastic **Lab Sample ID:** 042318539-0007A

Sample Description: Classroom 3C/Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/04/2023	Yellow	0.0%	100%	None Detected	

Client Sample ID: C3D-BA-8-Floor Tile **Lab Sample ID:** 042318539-0008

Sample Description: Classroom 3D/Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/04/2023	Gray	0.0%	94.2%	5.8% Chrysotile	

Client Sample ID: C3D-BA-8-Mastic **Lab Sample ID:** 042318539-0008A

Sample Description: Classroom 3D/Black Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
400 PLM PtCt Grav. Red.	8/04/2023	Black	0.0%	100%	<0.25% Chrysotile	

Client Sample ID: C3A-BA-9 **Lab Sample ID:** 042318539-0009

Sample Description: Classroom 3A/White Paint

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/04/2023	White/Black	0.0%	100%	None Detected	

SAMPLE RESULT INVALIDATED THROUGH RESAMPLING



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042318539
Customer ID: NORT69
Customer PO:
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material

Client Sample ID: C2-BA-11 **Lab Sample ID:** 042318539-0011

Sample Description: Classroom 2/White Ceiling Tile (1'x1')

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/06/2023	Brown/White	95.0%	5.0%	None Detected	

Client Sample ID: C2-BA-12-Floor Tile **Lab Sample ID:** 042318539-0012

Sample Description: Classroom 2/Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/04/2023	Gray	0.0%	93.4%	6.6% Chrysotile	

Client Sample ID: C2-BA-12-Mastic **Lab Sample ID:** 042318539-0012A

Sample Description: Classroom 2/Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
400 PLM PtCt Grav. Red.	8/04/2023	Black	0.0%	100%	<0.25% Chrysotile	

Client Sample ID: C2-BA-13 **Lab Sample ID:** 042318539-0013

Sample Description: Classroom 2/Black Caulk

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/04/2023	White/Black	0.0%	100%	None Detected	

Client Sample ID: C2-BA-14-Carpet **Lab Sample ID:** 042318539-0014

Sample Description: Classroom 2/Orange Carpet

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/05/2023	Orange	85.0%	15.0%	None Detected	

Client Sample ID: C2-BA-14-Mastic **Lab Sample ID:** 042318539-0014A

Sample Description: Classroom 2/Yellow Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/06/2023	Yellow	0.0%	100%	None Detected	

Client Sample ID: C2-BA-15-Insulation **Lab Sample ID:** 042318539-0015

Sample Description: Classroom 2/TSI Piping with Insulation Jacket

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/05/2023	Yellow	95.0%	5.0%	None Detected	

Client Sample ID: C2-BA-15-Mastic **Lab Sample ID:** 042318539-0015A

Sample Description: Classroom 2/Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/06/2023	White/Silver/Yellow	6.2%	93.8%	None Detected	



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042318539
Customer ID: NORT69
Customer PO:
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material

Client Sample ID: C1-BA-16 **Lab Sample ID:** 042318539-0016

Sample Description: Classroom 1/Ceiling Tile (1'x1')

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/05/2023	Brown/White	90.0%	10.0%	None Detected	

Client Sample ID: C1-BA-17-Insulation **Lab Sample ID:** 042318539-0017

Sample Description: Classroom 1/TSI Piping with Insulation Jacket

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/06/2023	White/Yellow	95.0%	5.0%	None Detected	Result includes a small amount of inseparable attached material

Client Sample ID: C1-BA-17-Mastic **Lab Sample ID:** 042318539-0017A

Sample Description: Classroom 1/Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/06/2023	White/Silver/Yellow	8.7%	91.3%	None Detected	

Client Sample ID: C1-BA-18-Floor Tile **Lab Sample ID:** 042318539-0018

Sample Description: Classroom 1/Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/06/2023	Gray	0.0%	92.8%	7.2% Chrysotile	

Client Sample ID: C1-BA-18-Mastic 1 **Lab Sample ID:** 042318539-0018A

Sample Description: Classroom 1/Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/06/2023	Black	0.0%	100%	None Detected	

Client Sample ID: C1-BA-18-Mastic 2 **Lab Sample ID:** 042318539-0018B

Sample Description: Classroom 1/Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/06/2023	Yellow	0.0%	100%	None Detected	

Client Sample ID: C1-BA-19 **Lab Sample ID:** 042318539-0019

Sample Description: Classroom 1/Uncovered Floor Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/06/2023	Black/Yellow	0.90%	99.1%	None Detected	

Client Sample ID: C1-BA-20-GWB **Lab Sample ID:** 042318539-0020

Sample Description: Classroom 1/GWB

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/06/2023				Layer Not Present	



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042318539
Customer ID: NORT69
Customer PO:
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material

Client Sample ID: C1-BA-20-Joint Compound **Lab Sample ID:** 042318539-0020A
Sample Description: Classroom 1/J.C

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/06/2023	Tan/White	0.0%	100.0%	None Detected	Inseparable paint / coating layer included in analysis

Client Sample ID: C1-BA-20-Caulking **Lab Sample ID:** 042318539-0020B
Sample Description: Classroom 1/Caulking

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/06/2023	White	0.0%	100%	None Detected	

Client Sample ID: C1-BA-21 **Lab Sample ID:** 042318539-0021
Sample Description: Classroom 1/Wall Textured J.C

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/06/2023	White	0.0%	100.0%	None Detected	

Client Sample ID: C1-BA-22 **Lab Sample ID:** 042318539-0022
Sample Description: Classroom 1/Wall Textured J.C

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/07/2023	White	0.0%	100.0%	None Detected	

Client Sample ID: BC-BA-23 **Lab Sample ID:** 042318539-0023
Sample Description: Bathroom C/Friable TSI Pipe Insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/06/2023	White/Green	40.0%	22.0%	30% Amosite	Inseparable paint / coating layer included in analysis
					8% Chrysotile	Inseparable paint / coating layer included in analysis

Client Sample ID: BB-BA-24 **Lab Sample ID:** 042318539-0024
Sample Description: Bathroom B/Friable TSI Pipe Insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/06/2023	Brown/Gray/Tan	20.0%	30.0%	50% Chrysotile	

Client Sample ID: BB-BA-25 **Lab Sample ID:** 042318539-0025
Sample Description: Bathroom B/Friable TSI Pipe Insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/07/2023	White	0.0%	60.0%	30% Amosite	
					10% Chrysotile	

Client Sample ID: C1-BA-26 **Lab Sample ID:** 042318539-0026
Sample Description: Classroom 1/Stucco Walls

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/06/2023	Gray/White	0.0%	100.0%	None Detected	Result includes a small amount of inseparable attached material



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042318539
Customer ID: NORT69
Customer PO:
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material

Client Sample ID: BB-BA-27-Cove Base **Lab Sample ID:** 042318539-0027

Sample Description: Bathroom B/Cove Base

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/06/2023	Beige	0.0%	100%	None Detected	

Client Sample ID: BB-BA-27-Mastic **Lab Sample ID:** 042318539-0027A

Sample Description: Bathroom B/Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	8/06/2023	Yellow	0.0%	100%	None Detected	

Client Sample ID: HW-BA-28 **Lab Sample ID:** 042318539-0028

Sample Description: Hallway/Surface Texture

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/06/2023	White	0.0%	100.0%	None Detected	

Analyst(s):

Gregory Barry	400 PLM PtCt Grav. Red (2) PLM Grav. Reduction (9)
Keishla Vazquez Caraballo	PLM (10)
Michael Bocchicchio	PLM (8) PLM Grav. Reduction (10)
Michelle Quach	PLM (2)

Reviewed and approved by:

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

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

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ PA ID# 68-00367, NVLAP Lab Code 101048-0

Initial report from: 08/07/2023 09:53:25