



25 May 2022

Ms. Michelle Scott  
Pioneers of Alaska  
Igloos No. 7 and 16  
314 Pioneer Alley  
Ketchikan, AK 99901

Re: Hazardous Materials Survey of the Ketchikan Pioneer Hall

Dear Ms. Scott:

On 6 May 2022, I performed a hazardous materials inspection of the Ketchikan Pioneer Hall in Ketchikan, Alaska, as part of planning for renovation of the building.

The building was constructed in 1900 as the Customs House and has been used as a meeting house for the Arctic Brothers and Pioneers of Alaska since in 1916. The building has seen many modifications, particularly in a major renovation that was undertaken in the 1970s.

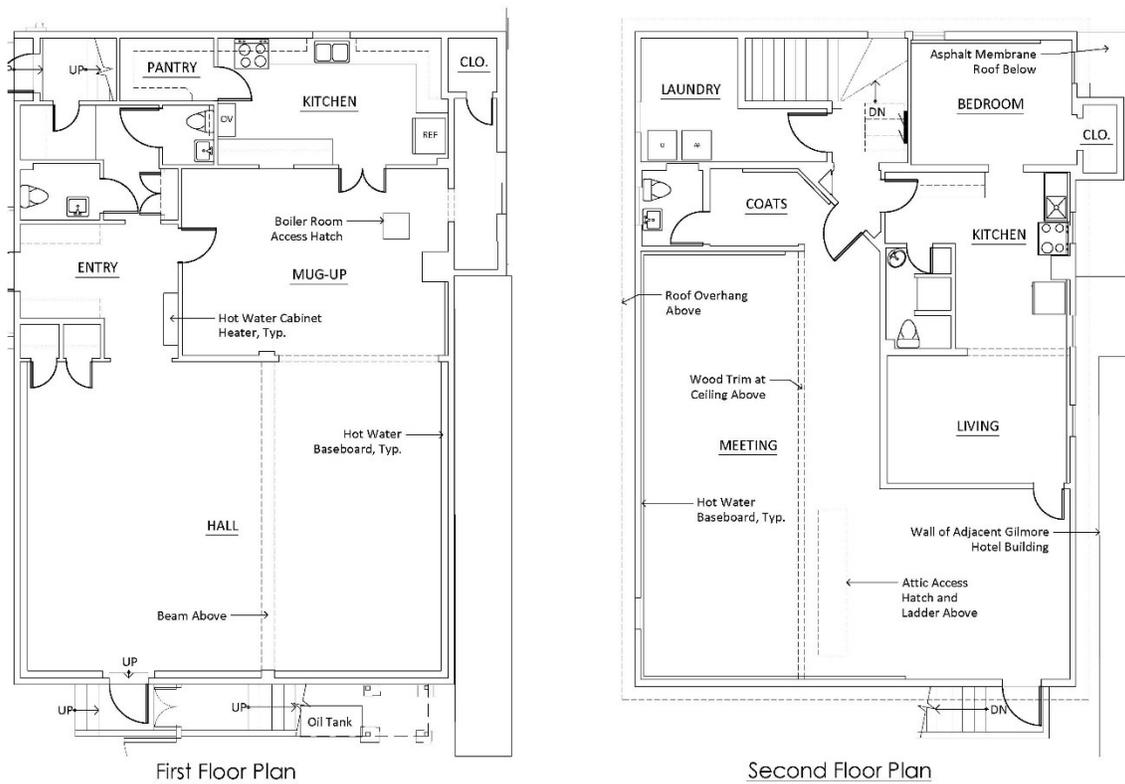
FIGURE 1. Ketchikan Pioneer Hall Location



The building is a wood-framed, two-story commercial building built on a wood post foundation. The first and second floors are wood, and the ceiling joists in the attic are floored to allow storage. Exterior finishes are wood siding on three sides and concrete asbestos board on one side (southeast side). The roof is finished with non-asbestos asphalt shingles. Many of the windows were removed during previous renovations, and the remaining windows are wood-framed. Interior finishes are a combination of cellulose board, gypsum wallboard, and veneered paneling board, with layers of all three materials in some locations. Original ceilings are cellulose nailed-on tiles; a suspended ceiling was added in the 1970s to hold fluorescent light fixtures. Downstairs floors are generally sheet vinyl, with carpet overlaid in the entry and stair areas. Upstairs floors are vinyl asbestos floor tile overlaid with carpet in most areas.

The building is heated via an oil-fired boiler located in a mechanical room in the crawl space, accessed from the center of the first floor. Hot water is provided from an electric water heater in the same location. The remainder of the crawl space is unfinished. Figure 2 shows the general layout.

FIGURE 2. Ketchikan Pioneer Hall Interior Layout



The building is a rectangular structure with an interior staircase along the northeast end and an exterior stair along the southwest end. All of the first floor and two-thirds of the second floor are meeting spaces, and approximately one third of the second floor houses a one-bedroom apartment.



## ASBESTOS

A walkthrough of the building was performed at the beginning of the site visit to prepare for sampling. Twenty-nine samples of suspect materials were collected for analysis for asbestos content by polarized light microscopy and were submitted to Atlas Laboratories, a NVLAP-certified laboratory located in Anchorage, AK. Sample results are attached for your records.

Materials sampled for asbestos content include:

- Sheet vinyl on floors throughout the first floor;
- Vinyl composite floor tile in the first floor closet (NW corner);
- Cellulose 12"x24" ceiling tile on original first and second floor ceilings;
- Gypsum wallboard on walls on the first floor;
- Gypsum wallboard on ceilings on the first floor;
- Cellulose board "Homasote" on walls throughout the first floor;
- Ceiling tile in suspended grids on the first floor ceiling;
- Thermal system insulation on heating piping above the first floor ceiling;
- Vinyl asbestos tile in the second floor apartment;
- Vinyl asbestos tile throughout the second floor;
- Sheet vinyl and stick-on tiles in the second floor apartment toilet room;
- Cement asbestos board exterior siding on the southeast side of the building;
- Miscellaneous stick-on floor tiles in apartment and upper landing;
- Gypsum wallboard on walls throughout the second floor;
- Cloth wrap on old knob and tube wiring in attic and walls;
- Thermal system insulation on the abandoned boiler in the crawl space; and
- Tar paper under exterior siding.

The following materials were found to contain asbestos:

- Sheet vinyl throughout the first floor (tan pebble pattern);
- Gypsum wallboard on first and second floor walls and some ceilings;
- Thermal system insulation on heating piping above first floor suspended ceilings, also suspected to be present within existing walls;
- Vinyl asbestos tile on the second floor (green marbled pattern);
- Cement asbestos board exterior siding on the southeast side of the building; and
- Thermal system insulation on abandoned boiler in the crawl space, also found mixed into the soil throughout the main area of the crawl space.

No asbestos was detected in any of the other samples.

## LEAD PAINT

Eight samples of interior paint on interior walls, ceilings, and trim and paint on exterior siding and trim were collected and submitted to Atlas Laboratories for analysis for total lead content. Lead was detected in all of the samples.



Finishes sampled for lead content include:

- Cream paint on original cellulose wallboard and ceiling tiles;
- Olive green paint on original wood tongue-and-groove siding on northeast wall of kitchen above ceiling;
- Mint green paint on original cellulose wallboard on first floor;
- White paint on wood interior trim throughout the building;
- White paint on wood exterior sills and sashes;
- Floor paint in closets and in laundry room;
- Green paint on exterior wood siding; and
- Mint green paint on wood exterior trim.

All sampled finished contained measurable lead. Five of the eight samples contained lead in excess of 5,000 ppm.

The facility was originally constructed in 1900, so any additional hidden original finishes are very likely to also contain lead. OSHA lead regulations apply to any paid work disturbing materials containing measurable lead. Since the upper level contains an apartment, the building meets the EPA definition of "target housing" and the EPA Lead Renovation, Repair, and Painting Rule applies to all finishes with greater than 5,000 ppm of lead.

#### OTHER HAZARDS

One mercury thermostat was identified in the building, located in the upstairs meeting room.

An aboveground heating fuel tank is located on the southwest side of the building. Given the age of the building, it is likely that abandoned underground fuel tanks also exist, possibly in unknown locations.

Older fluorescent fixtures are located in many of the rooms. Fluorescent lamps contain mercury and ballasts in older fixtures often contain PCBs.

#### RECOMMENDATIONS

Asbestos-containing materials are present throughout the building. Materials that contain asbestos can be left undisturbed or can be removed by a contractor with current ADOL asbestos abatement certification. Many of the materials present are regulated as OSHA Class 2 asbestos-containing material for removal and as nonfriable asbestos-containing material for disposal, but the thermal system insulation on piping and the abandoned boiler are OSHA Class 1 materials and must be handled as such. Class 1 removal adds more complexity to the project both in terms of regulatory notifications and work practices as well as increased cost for disposal.

Due to the lead content of all suspect finishes, workers on this project must hold current OSHA Lead in Construction training and all OSHA lead rules apply. Any work disturbing finishes that have greater than 5,000 ppm of lead also requires the crew to be managed by a supervisor with EPA Renovation, Repair, and Painting Rule training and to follow the guidance in this regulation.



Materials being disposed of at the local landfill must meet the requirement of either a Toxic Characteristic Leaching Profile (TCLP) measurement of less than 5 mg/l or 0.5% leachable lead. This can be accomplished by sampling the waste stream and sending the sample to an analytical laboratory for TCLP analysis, which can be done as soon as a project is developed that identifies what the specific waste stream will be.

The mercury thermostat in the upstairs meeting room should be replaced with a modern non-hazardous unit. The mercury vial should be disposed of as hazardous waste.

Fluorescent lamps contain mercury and should be disposed of as hazardous materials. Ballasts need to be checked for PCB content—any non-electronic ballasts that are not marked as “No PCBs” or “PCB free” should be assumed to contain PCBs and must be disposed of as hazardous materials.

Please feel free to contact me if you have any questions.

Regards,



Sigrid Dahlberg, P.E.

Principal Engineer

AHERA Project Designer No. 170337

AHERA Building Inspector No. ON-4644-11155-12170

EPA Lead Renovator # R-R-18814-21-0028-O





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



Lab Code: 200124-0

## Bulk Sample Analysis for Asbestos

Atlas Project #: L22-1026

Report #: 699018  
Report By: A. Lang  
Report Date: 05/16/2022

**Client: Dahlberg Design**  
222 Seward St. Suite 205  
Juneau, AK 99801  
Billing Number: 26026

Collected By: Client  
Collection Date: 05/06/2022  
Analysis By: A. Lang  
Analysis Date: 05/16/2022  
Received By: A. Lang  
Received Date: 05/10/2022

TAT: 5 Day

Sample Count: 29 Layer Count:  
46

Project Name/Location: Ketchikan Pioneer Hall Hazmat Survey

Client ID #	ATLAS ID#	Location:								
KPH-A1	AB22-2370	Mug Up Room (Also K, Hall, Pantry, Toilets)								
Homogeneous	Material	Color								
Yes	Sheet Vinyl 1	Tan/Gray/Pebbled								
		Layer								
		1 of 1								
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Asbestos Type</b></td> <td style="width: 50%;"><b>Asbestos %</b></td> </tr> <tr> <td>Chrysotile</td> <td>10%</td> </tr> <tr> <td colspan="2"><b>Other Fibrous Material</b></td> </tr> <tr> <td>Cellulose</td> <td>5%</td> </tr> </table>		<b>Asbestos Type</b>	<b>Asbestos %</b>	Chrysotile	10%	<b>Other Fibrous Material</b>		Cellulose	5%	<p>% Asbestos: 10%</p> <p>Other Fibrous Materials: 5%</p> <p>Non-Fibrous Materials: 85%</p>
<b>Asbestos Type</b>	<b>Asbestos %</b>									
Chrysotile	10%									
<b>Other Fibrous Material</b>										
Cellulose	5%									

Client ID #	ATLAS ID#	Location:								
KPH-A2	AB22-2371	1st Closet E Corner								
Homogeneous	Material	Color								
Yes	VAT / Asphaltic Flooring	Brown/Black/Square Pattern								
		Layer								
		1 of 1								
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2"><b>Asbestos: None Detected</b></td> </tr> <tr> <td colspan="2"><b>Other Fibrous Material</b></td> </tr> <tr> <td>Cellulose</td> <td>30%</td> </tr> <tr> <td>Synthetic</td> <td>10%</td> </tr> </table>		<b>Asbestos: None Detected</b>		<b>Other Fibrous Material</b>		Cellulose	30%	Synthetic	10%	<p>Other Fibrous Materials: 40%</p> <p>Non-Fibrous Materials: 60%</p>
<b>Asbestos: None Detected</b>										
<b>Other Fibrous Material</b>										
Cellulose	30%									
Synthetic	10%									

Client ID #	ATLAS ID#	Location:						
KPH-A3	AB22-2372	Nailed on, Above Hall Suspended Ceiling 12"X24"						
Homogeneous	Material	Color						
Yes	Ceiling Tile	Tan						
		Layer						
		1 of 1						
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2"><b>Asbestos: None Detected</b></td> </tr> <tr> <td colspan="2"><b>Other Fibrous Material</b></td> </tr> <tr> <td>Cellulose</td> <td>95%</td> </tr> </table>		<b>Asbestos: None Detected</b>		<b>Other Fibrous Material</b>		Cellulose	95%	<p>Other Fibrous Materials: 95%</p> <p>Non-Fibrous Materials: 5%</p>
<b>Asbestos: None Detected</b>								
<b>Other Fibrous Material</b>								
Cellulose	95%							



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Report By: A. Lang  
Report Date: 05/16/2022

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>			
KPH-A4	AB22-2373A	Kitchen Ceiling Hatch			
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>	
Yes		Mud	White	1 of 2	
<b>Asbestos: None Detected</b>					
<b>Other Fibrous: None Detected</b>					

**Non-Fibrous Materials: 100%**

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>			
KPH-A4	AB22-2373B	Kitchen Ceiling Hatch			
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>	
Yes		GWB	White/Brown	2 of 2	
<b>Asbestos: None Detected</b>					
<b>Other Fibrous Material</b>		<b>Fibrous %</b>			
Cellulose		15%		<b>Other Fibrous Materials: 17%</b>	
Fiberglass		2%			

**Non-Fibrous Materials: 83%**

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>			
KPH-A5	AB22-2374A	Above MugUp, With Clean Cloth Wrap			
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>	
Yes		Aircell TSI	Gray	1 of 2	
<b>Asbestos Type</b>		<b>Asbestos %</b>		<b>% Asbestos: 80%</b>	
Chrysotile		80%			
<b>Other Fibrous Material</b>		<b>Fibrous %</b>		<b>Other Fibrous Materials: 10%</b>	
Cellulose		10%			

**Non-Fibrous Materials: 10%**

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>			
KPH-A5	AB22-2374B	Above MugUp, With Clean Cloth Wrap			
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>	
Yes		Wrap	Beige	2 of 2	
<b>Asbestos: None Detected</b>					
<b>Other Fibrous Material</b>		<b>Fibrous %</b>		<b>Other Fibrous Materials: 99%</b>	
Cellulose		99%			

**Non-Fibrous Materials: 1%**



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## Bulk Sample Analysis for Asbestos

Atlas Project #: L22-1026

Report #: 699018  
Report By: A. Lang  
Report Date: 05/16/2022

Client ID #	ATLAS ID#	Location:						
KPH-A6	AB22-2375A	Above Mug Up, With Dirty Cloth Wrap						
Homogeneous		Material	Color	Layer				
Yes		Aircell TSI	Gray	1 of 2				
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Asbestos Type</b></td> <td style="width: 50%;"><b>Asbestos %</b></td> </tr> <tr> <td>Chrysotile</td> <td>60%</td> </tr> </table>		<b>Asbestos Type</b>	<b>Asbestos %</b>	Chrysotile	60%	% Asbestos: 60%		
<b>Asbestos Type</b>	<b>Asbestos %</b>							
Chrysotile	60%							
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Other Fibrous Material</b></td> <td style="width: 50%;"><b>Fibrous %</b></td> </tr> <tr> <td>Cellulose</td> <td>35%</td> </tr> </table>		<b>Other Fibrous Material</b>	<b>Fibrous %</b>	Cellulose	35%	Other Fibrous Materials: 35%		
<b>Other Fibrous Material</b>	<b>Fibrous %</b>							
Cellulose	35%							
		Non-Fibrous Materials: 5%						

Client ID #	ATLAS ID#	Location:										
KPH-A6	AB22-2375B	Above Mug Up, With Dirty Cloth Wrap										
Homogeneous		Material	Color	Layer								
Yes		Wrap	Brown	2 of 2								
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"><b>Asbestos: None Detected</b></td> </tr> </table>		<b>Asbestos: None Detected</b>										
<b>Asbestos: None Detected</b>												
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Other Fibrous Material</b></td> <td style="width: 50%;"><b>Fibrous %</b></td> </tr> <tr> <td>Cellulose</td> <td>70%</td> </tr> <tr> <td>Other</td> <td>5%</td> </tr> <tr> <td>Synthetic</td> <td>15%</td> </tr> </table>		<b>Other Fibrous Material</b>	<b>Fibrous %</b>	Cellulose	70%	Other	5%	Synthetic	15%	Other Fibrous Materials: 90%		
<b>Other Fibrous Material</b>	<b>Fibrous %</b>											
Cellulose	70%											
Other	5%											
Synthetic	15%											
		Non-Fibrous Materials: 10%										

Client ID #	ATLAS ID#	Location:						
KPH-A7	AB22-2376A	Above MugUp, With Painted Wrap						
Homogeneous		Material	Color	Layer				
Yes		Aircell TSI	Gray	1 of 2				
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Asbestos Type</b></td> <td style="width: 50%;"><b>Asbestos %</b></td> </tr> <tr> <td>Chrysotile</td> <td>80%</td> </tr> </table>		<b>Asbestos Type</b>	<b>Asbestos %</b>	Chrysotile	80%	% Asbestos: 80%		
<b>Asbestos Type</b>	<b>Asbestos %</b>							
Chrysotile	80%							
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Other Fibrous Material</b></td> <td style="width: 50%;"><b>Fibrous %</b></td> </tr> <tr> <td>Cellulose</td> <td>10%</td> </tr> </table>		<b>Other Fibrous Material</b>	<b>Fibrous %</b>	Cellulose	10%	Other Fibrous Materials: 10%		
<b>Other Fibrous Material</b>	<b>Fibrous %</b>							
Cellulose	10%							
		Non-Fibrous Materials: 10%						

Client ID #	ATLAS ID#	Location:						
KPH-A7	AB22-2376B	Above MugUp, With Painted Wrap						
Homogeneous		Material	Color	Layer				
Yes		Wrap	Green/Red	2 of 2				
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"><b>Asbestos: None Detected</b></td> </tr> </table>		<b>Asbestos: None Detected</b>						
<b>Asbestos: None Detected</b>								
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Other Fibrous Material</b></td> <td style="width: 50%;"><b>Fibrous %</b></td> </tr> <tr> <td>Cellulose</td> <td>40%</td> </tr> </table>		<b>Other Fibrous Material</b>	<b>Fibrous %</b>	Cellulose	40%	Other Fibrous Materials: 40%		
<b>Other Fibrous Material</b>	<b>Fibrous %</b>							
Cellulose	40%							
		Non-Fibrous Materials: 60%						



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Lab Code: 200124-0

## Bulk Sample Analysis for Asbestos

Atlas Project #: L22-1026

Report #: 699018  
Report By: A. Lang  
Report Date: 05/16/2022

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A8	AB22-2377A	Under Paneling in MugUp and Hall		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Homasote Wallboard	Green/Tan	1 of 1
<b>Asbestos: None Detected</b>				
<b>Other Fibrous Material</b>		<b>Fibrous %</b>		
Cellulose		90%	<b>Other Fibrous Materials: 90%</b>	
			<b>Non-Fibrous Materials: 10%</b>	

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A9	AB22-2378	In Suspended Ceilings, Hall and MugUp		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Ceiling Tile	Gray/White	1 of 1
<b>Asbestos: None Detected</b>				
<b>Other Fibrous Material</b>		<b>Fibrous %</b>		
Cellulose		60%	<b>Other Fibrous Materials: 80%</b>	
Mineral Wool		20%	<b>Non-Fibrous Materials: 20%</b>	

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A10	AB22-2379A	Entry Above Susp Ceiling		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Mud	Tan	1 of 2
<b>Asbestos Type</b>		<b>Asbestos %</b>		
Chrysotile		2%	<b>% Asbestos: 2%</b>	
<b>Other Fibrous: None Detected</b>				
<b>Non-Fibrous Materials: 98%</b>				

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A10	AB22-2379B	Entry Above Susp Ceiling		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		GWB	White/Brown	2 of 2
<b>Asbestos: None Detected</b>				
<b>Other Fibrous Material</b>		<b>Fibrous %</b>		
Cellulose		30%	<b>Other Fibrous Materials: 30%</b>	
<b>Non-Fibrous Materials: 70%</b>				



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Report #: 699018  
Report By: A. Lang  
Report Date: 05/16/2022

Client ID #	ATLAS ID#	Location:		
KPH-A11	AB22-2380A	Wall of Entry, N Corner		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Mud	Tan	1 of 2
		<b>Asbestos Type</b>	<b>Asbestos %</b>	% Asbestos: 2%
		Chrysotile	2%	
Other Fibrous: None Detected				

Non-Fibrous Materials: 98%

Client ID #	ATLAS ID#	Location:		
KPH-A11	AB22-2380B	Wall of Entry, N Corner		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		GWB	White/Tan	2 of 2
Asbestos: None Detected				
		<b>Other Fibrous Material</b>	<b>Fibrous %</b>	Other Fibrous Materials: 40%
		Cellulose	40%	

Non-Fibrous Materials: 60%

Client ID #	ATLAS ID#	Location:		
KPH-A12	AB22-2381A	Women's Toilet Rm 1st Floor Under Sink		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Mud	Tan	1 of 2
		<b>Asbestos Type</b>	<b>Asbestos %</b>	% Asbestos: 2%
		Chrysotile	2%	
Other Fibrous: None Detected				

Non-Fibrous Materials: 98%

Client ID #	ATLAS ID#	Location:		
KPH-A12	AB22-2381B	Women's Toilet Rm 1st Floor Under Sink		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		GWB	White/Brown	2 of 2
Asbestos: None Detected				
		<b>Other Fibrous Material</b>	<b>Fibrous %</b>	Other Fibrous Materials: 25%
		Cellulose	25%	

Non-Fibrous Materials: 75%

Client ID #	ATLAS ID#	Location:		
KPH-A13	AB22-2382	2nd Floor Coat Room Toilet Floor, Over Linoleum		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
No		VAT	Red/Brown	1 of 1
Asbestos: None Detected				
		<b>Other Fibrous Material</b>	<b>Fibrous %</b>	Other Fibrous Materials: 40%
		Cellulose	40%	

Non-Fibrous Materials: 60%



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<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A14	AB22-2383A	Apt Kitchen and Living Room and Probably Parts of Meeting		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		VAT	Green	1 of 2

Asbestos Type	Asbestos %	
Chrysotile	6%	
<b>Other Fibrous: None Detected</b>		

% Asbestos: 6%

Non-Fibrous Materials: 94%

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A14	AB22-2383B	Apt Kitchen and Living Room and Probably Parts of Meeting		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Mastic	Black	2 of 2

<b>Asbestos: None Detected</b>	
<b>Other Fibrous: None Detected</b>	

Non-Fibrous Materials: 100%

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A15	AB22-2384A	Apt Bedroom, White with Stamped Curlique Pattern		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Vinyl Flooring	White	1 of 3

<b>Asbestos: None Detected</b>	
<b>Other Fibrous: None Detected</b>	

Non-Fibrous Materials: 100%

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A15	AB22-2384B	Apt Bedroom, White with Stamped Curlique Pattern		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Mastic	Yellow	2 of 3

<b>Asbestos: None Detected</b>	
<b>Other Fibrous: None Detected</b>	

Non-Fibrous Materials: 100%

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A15	AB22-2384C	Apt Bedroom, White with Stamped Curlique Pattern		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Flooring	Black/Brown/Blue	3 of 3

<b>Asbestos: None Detected</b>		
Other Fibrous Material	Fibrous %	
Cellulose	50%	
Synthetic	10%	

Other Fibrous Materials: 60%

Non-Fibrous Materials: 40%



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Anchorage, AK 99501 (907) 258-8661



Lab Code: 200124-0

## Bulk Sample Analysis for Asbestos

Atlas Project #: L22-1026

Report #: 699018  
Report By: A. Lang  
Report Date: 05/16/2022

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A16	AB22-2385	Apt Bedroom Closet		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Asphaltic Tile	Red/Black	1 of 1
<b>Asbestos: None Detected</b>				
		<b>Other Fibrous Material</b>	<b>Fibrous %</b>	
		Cellulose	45%	<b>Other Fibrous Materials: 55%</b>
		Synthetic	10%	
<b>Non-Fibrous Materials: 45%</b>				

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A17	AB22-2386A	Apt Toilet Rm, Over Underlayment		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Vinyl Tile	Gray	1 of 2
<b>Asbestos: None Detected</b>				
<b>Other Fibrous: None Detected</b>				
<b>Non-Fibrous Materials: 100%</b>				

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A17	AB22-2386B	Apt Toilet Rm, Over Underlayment		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Adhesive	Clear	2 of 2
<b>Asbestos: None Detected</b>				
<b>Other Fibrous: None Detected</b>				
<b>Non-Fibrous Materials: 100%</b>				

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A18	AB22-2387A	Under Apt Toilet, Gold Medallions		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Sheet Vinyl 3	White/Tan	1 of 2
<b>Asbestos: None Detected</b>				
		<b>Other Fibrous Material</b>	<b>Fibrous %</b>	
		Fiberglass	4%	<b>Other Fibrous Materials: 4%</b>
<b>Non-Fibrous Materials: 96%</b>				

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A18	AB22-2387B	Under Apt Toilet, Gold Medallions		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Mastic	Tan	2 of 2
<b>Asbestos: None Detected</b>				
<b>Other Fibrous: None Detected</b>				
<b>Non-Fibrous Materials: 100%</b>				



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Lab Code: 200124-0

## Bulk Sample Analysis for Asbestos

Atlas Project #: L22-1026

Report #: 699018  
Report By: A. Lang  
Report Date: 05/16/2022

Client ID #	ATLAS ID#	Location:		
KPH-A19	AB22-2388A	Apartment Toilet Rm		
Homogeneous		Material	Color	Layer
Yes		Mud	Tan	1 of 2
		Asbestos Type		% Asbestos: 2%
		Chrysotile		
		Asbestos %		
		2%		
Other Fibrous: None Detected				

Non-Fibrous Materials: 98%

Client ID #	ATLAS ID#	Location:		
KPH-A19	AB22-2388B	Apartment Toilet Rm		
Homogeneous		Material	Color	Layer
Yes		GWB	White/Brown	2 of 2
Asbestos: None Detected				
		Other Fibrous Material		Other Fibrous Materials: 20%
		Cellulose		
		Fibrous %		
		20%		

Non-Fibrous Materials: 80%

Client ID #	ATLAS ID#	Location:		
KPH-A20	AB22-2389A	Exterior Siding on Southeast Wall of Bldg, from Upstairs Window		
Homogeneous		Material	Color	Layer
Yes		CAB	Gray	1 of 1
		Asbestos Type		% Asbestos: 20%
		Chrysotile		
		Asbestos %		
		20%		
Other Fibrous: None Detected				

Non-Fibrous Materials: 80%

Client ID #	ATLAS ID#	Location:		
KPH-A21	AB22-2390	Upstairs Coat Room Under Carpet		
Homogeneous		Material	Color	Layer
Yes		Flooring	Brown/Tan	1 of 1
Asbestos: None Detected				
		Other Fibrous Material		Other Fibrous Materials: 40%
		Synthetic		
		Fibrous %		
		40%		

Non-Fibrous Materials: 60%

Client ID #	ATLAS ID#	Location:		
KPH-A22	AB22-2391	Meeting Rm 2nd Floor SW Wall, GWB Outside of Paneling		
Homogeneous		Material	Color	Layer
Yes		Mud	White	1 of 1
Asbestos: None Detected				
Other Fibrous: None Detected				

Non-Fibrous Materials: 100%



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Lab Code: 200124-0

## Bulk Sample Analysis for Asbestos

Atlas Project #: L22-1026

Report #: 699018  
Report By: A. Lang  
Report Date: 05/16/2022

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A23	AB22-2392A	Upstairs Landing Outside Laundry, White With Wagon Train Design		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		VAT	White	1 of 2

Asbestos: None Detected
Other Fibrous: None Detected

Non-Fibrous Materials: 100%

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A23	AB22-2392B	Upstairs Landing Outside Laundry, White With Wagon Train Design		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Mastic	Tan	2 of 2

Asbestos: None Detected
Other Fibrous: None Detected

Non-Fibrous Materials: 100%

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A24	AB22-2393A	Meeting Rm W Corner		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Mud	Tan	1 of 3

Asbestos Type	Asbestos %
Chrysotile	2%
Other Fibrous: None Detected	

% Asbestos: 2%

Non-Fibrous Materials: 98%

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A24	AB22-2393B	Meeting Rm W Corner		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Homasote Board	Tan	2 of 3

Asbestos: None Detected	
Other Fibrous Material	Fibrous %
Cellulose	98%

Other Fibrous Materials: 98%

Non-Fibrous Materials: 2%

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A24	AB22-2393C	Meeting Rm W Corner		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Cloth	Gray	3 of 3

Asbestos: None Detected	
Other Fibrous Material	Fibrous %
Cellulose	99%

Other Fibrous Materials: 99%

Non-Fibrous Materials: 1%



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## Bulk Sample Analysis for Asbestos

Atlas Project #: L22-1026

Report #: 699018  
Report By: A. Lang  
Report Date: 05/16/2022

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A25	AB22-2394	Attic, Old Knob / Tube Style		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Wiring/Cover	Black/Tan	1 of 1
<b>Asbestos: None Detected</b>				
		<b>Other Fibrous Material</b>	<b>Fibrous %</b>	
		Cellulose	60%	<b>Other Fibrous Materials: 60%</b>
				<b>Non-Fibrous Materials: 40%</b>

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A26	AB22-2395A	Boiler Room		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Mud	White	1 of 2
<b>Asbestos: None Detected</b>				
<b>Other Fibrous: None Detected</b>				
				<b>Non-Fibrous Materials: 100%</b>

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A26	AB22-2395B	Boiler Room		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		GWB	White/Brown	2 of 2
<b>Asbestos: None Detected</b>				
		<b>Other Fibrous Material</b>	<b>Fibrous %</b>	
		Cellulose	30%	<b>Other Fibrous Materials: 30%</b>
				<b>Non-Fibrous Materials: 70%</b>

<b>Client ID #</b>	<b>ATLAS ID#</b>	<b>Location:</b>		
KPH-A27	AB22-2396	On Abandoned Boiler in Crawl Space, End Closest to Boiler Rm		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Mag TSI	Gray	1 of 1
		<b>Asbestos Type</b>	<b>Asbestos %</b>	
		Amosite	12%	<b>% Asbestos: 17%</b>
		Chrysotile	5%	
<b>Other Fibrous: None Detected</b>				
				<b>Non-Fibrous Materials: 83%</b>



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Lab Code: 200124-0

## Bulk Sample Analysis for Asbestos

Atlas Project #: L22-1026

Report #: 699018  
Report By: A. Lang  
Report Date: 05/16/2022

Client ID #	ATLAS ID#	Location:		
KPH-A28	AB22-2397	On Abandoned Boiler in Crawl Space, Top Face		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Mag TSI	White	1 of 1

Asbestos Type	Asbestos %
Amosite	6%
Chrysotile	2%
<b>Other Fibrous: None Detected</b>	

% Asbestos: 8%

Non-Fibrous Materials: 92%

Client ID #	ATLAS ID#	Location:		
KPH-A29	AB22-2398	Under Exterior Siding, W Corner of Bldg		
<b>Homogeneous</b>		<b>Material</b>	<b>Color</b>	<b>Layer</b>
Yes		Tar Paper	Black	1 of 1

<b>Asbestos: None Detected</b>	
Other Fibrous Material	Fibrous %
Cellulose	65%

Other Fibrous Materials: 65%

Non-Fibrous Materials: 35%

*Amanda Lang*

Amanda Lang, Laboratory Technical Manager

05/16/2022

Date

*Shelby*

05/16/2022

Date

Analysis performed by: EPA - 40 CFR Appendix E to Subpart E of Part 763 or EPA Method 600/R-93/116, at the discretion of the client or Atlas. All quantities reported are based on visual estimation by PLM, unless point-counting method is requested and noted for the sample.

TRACE = Less than 1% Asbestos

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 Atlas, and are subject to Atlas General Terms and Conditions (available upon request).

# CHAIN OF CUSTODY/TRANSMITTAL RECORD

L22 1026

222 Seward St, Suite 205

Juneau, AK 99801

907.723.8896



Project Name:		Ketchikan Pioneer Hall Hazmat Survey				ANALYSIS				
Sampler(s):		Sigrid Dahlberg				PLM				
Comments:		Pre-renovation sampling								
DATE	ID	SAMPLE TYPE & LOCATION	MATRIX	QTY					LAB No.	COMMENTS
6-May-22	KPH-A1	Sheet vinyl 1, tan pebbled, mug up room (also K, Hall, pantry, toilets)	BULK	1	✓					
	KPH-A2	VAT/asphaltic flooring, square pattern, 1st closet E corner								
	KPH-A3	Ceiling tile, nailed on, above Hall suspended ceiling 12'x24"								
	KPH-A4	GWB/mud, kitchen ceiling hatch								
	KPH-A5	Aircell TSI w clean cloth wrap, above MugUP								All aircell looks similar
	KPH-A6	Aircell TSI w dirty cloth wrap, above Mug Up								
	KPH-A7	Aircell TSI with painted wrap, above MugUp								
	KPH-A8	Homasote wallboard, under paneling in MugUp and Hall								
	KPH-A9	Ceiling tile in suspended ceilings, Hall and Mugup								
	KPH-A10	GWB/mud, entry above susp ceiling								
	KPH-A11	GWB/mud, wall of entry, N corner								
	KPH-A12	GWB/mud, women's toilet rm 1st floor under sink								

RELINQUISHED BY:	<i>Sigrid Dahlberg</i>	DATE/TIME	3 May 2022 3pm	RECEIVED BY:	A. Lang	DATE/TIME	5/10/22 11:30am	COMMENTS	
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		COMMENTS	
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		COMMENTS	
TEMPERATURE RECEIVED:		TURNAROUND TIME REQUESTED:		72 hours					

Courier Fee

114 007-9210-3524

# CHAIN OF CUSTODY/TRANSMITTAL RECORD

L22 1026

222 Seward St, Suite 205  
Juneau, AK 99801  
907.723.8896



Project Name: Ketchikan Pioneer Hall Hazmat Survey		ANALYSIS				
Sampler(s): Sigrid Dahlberg		PLM				
Comments: Pre-renovation sampling						
DATE	ID	SAMPLE TYPE & LOCATION	MATRIX	QTY	LAB No.	COMMENTS
6-May-22	KPH-A13	Red VAT over linoleum, 2nd floor coat room toilet floor	Bulk	1		
	KPH-A14	Green VAT, apt kitchen and living room and probably parts of Meeting room				
	KPH-A15	Vinyl flooring, white with stamped curlique pattern, apt bedroom				
	KPH-A16	Asphaltic tile, red, apt bedroom closet				
	KPH-A17	Sheet vinyl 3, gold medallions, underlayment and green VAT, apt toilet				
	KPH-A18	Sheet vinyl 3, gold medallions, underlayment and green VAT, apt toilet				
	KPH-A19	Green VAT, apt kitchen and living room and probably parts of Meeting room				
	KPH-A20	Vinyl flooring, white with stamped curlique pattern, apt bedroom				
	KPH-A21	Asphaltic tile, red, apt bedroom closet				
	KPH-A22	Sheet vinyl 3, gold medallions, underlayment and green VAT, apt toilet				
	KPH-A23	Sheet vinyl 3, gold medallions, underlayment and green VAT, apt toilet				
	KPH-A24	Homasote board plus cloth, Meeting Rm W corner				

RELINQUISHED BY: <i>Sigrid Dahlberg</i>	RECEIVED BY: <i>A. Lang</i>	DATE/TIME: <i>8 May 2022 3pm</i>	DATE/TIME: <i>5/10/22 11:30am</i>	COMMENTS
RELINQUISHED BY: <i>[Signature]</i>	RECEIVED BY:	DATE/TIME:	DATE/TIME:	COMMENTS
RELINQUISHED BY:	RECEIVED BY:	DATE/TIME:	DATE/TIME:	COMMENTS
TEMPERATURE RECEIVED:	TURNAROUND TIME REQUESTED: <span style="border: 1px solid black; border-radius: 50%; padding: 5px;">72 hours</span>			



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# THE ASBESTOS INSTITUTE

*Certifies that*

## Sigrid Dahlberg

has attended and received instruction in the EPA approved course

### AHERA Building Inspector Refresher

on

### January 17, 2022

and successfully completed and passed the competency exam.

Certificate:  
ON-4644-11155-011722

Date of Examination:  
17-Jan-2022

Date of Expiration:  
17-Jan-2023



William T. Cavness  
Director



Approved Instructor

**THE ASBESTOS INSTITUTE**

20033 N. 19<sup>th</sup> Ave, Building 6, Phoenix, AZ 85027

602-864-6564 – [www.theasbestosinstitute.com](http://www.theasbestosinstitute.com)

*This training meets all requirements for asbestos certification under Toxic Substance Control Act Title II.*







## PAINT CHIP SAMPLE COLLECTION LOG

### EPA RRP Protocol

Project Name: Ketchikan Pioneer Hall Pre-Renovation HazMat Survey  
Client: Amanda Welsh, Welsh Whitely Architects  
Address: 327 Bawden St, Ketchikan AK 99901  
Phone/email: 907.225.2412/amanda@welshwhitely.com

Project Location: 314 Pioneer Alley, Ketchikan AK 99901  
Sampling Date: 6 May 2022

Certified Renovator: Sigrid Dahlberg, P.E. #38371148, Exp 9/8/2024

### Paint Chip Sample Information

Sample No. KPH-L1 Collected by: S. Dahlberg  
Location: Interior  
Description: Cream paint on 12x24 cellulose ceiling tiles both levels  
Dimensions: 1"x3"  
Laboratory/Analyst Firm: ATC Laboratories, Anchorage AK  
Submission Date: 6 May 2022  
Results: 1,200 ppm

Sample No. KPH-L2 Collected by: S. Dahlberg  
Location: Interior wall above ceiling hatch  
Description: Olive green paint on original wood T&G siding, SW kitchen wall  
Dimensions: 1/4" x 2" 6 ea  
Laboratory/Analyst Firm: ATC Laboratories, Anchorage AK  
Submission Date: 6 May 2022  
Results: 280,000 ppm

Sample No. KPH-L3 Collected by: S. Dahlberg  
Location: Interior  
Description: Mint green paint on homasote walls behind paneling in MugUp  
Dimensions: 1" x 2" 2ea  
Laboratory/Analyst Firm: ATC Laboratories, Anchorage AK  
Submission Date: 6 May 2022  
Results: 170 ppm



Sample No. KPH-L4 Collected by: S. Dahlberg  
Location: Interior  
Description: White paint on wood interior trim throughout the building  
Dimensions: 1/8" x 6" 12 ea  
Laboratory/Analyst Firm: ATC Anchorage  
Submission Date: 6 May 2022  
Results: 13,000 ppm

Sample No. KPH-L5 Collected by: S. Dahlberg  
Location: Exterior  
Description: White paint on exterior sills and sashes  
Dimensions: 1" x 2" 3ea  
Laboratory/Analyst Firm: ATC Anchorage  
Submission Date: 6 May 2022  
Results: 9,400 ppm

Sample No. KPH-L6 Collected by: S. Dahlberg  
Location: Interior  
Description: Grey, blue, red, and green floor paint on 2nd floor laundry & closets  
Dimensions: 1/2" x 4" 10 ea  
Laboratory/Analyst Firm: ATC Anchorage  
Submission Date: 6 May 2022  
Results: 21,000 ppm

Sample No. KPH-L7 Collected by: S. Dahlberg  
Location: Exterior  
Description: Green paint on exterior wood siding  
Dimensions: 1/8" x 10" 12 ea  
Laboratory/Analyst Firm: ATC Anchorage  
Submission Date: 6 May 2022  
Results: 260 ppm

Sample No. KPH-L8 Collected by: S. Dahlberg  
Location: Exterior  
Description: Mint green paint on wood exterior trim  
Dimensions: 1/8" x 2" slivers, 8 ea  
Laboratory/Analyst Firm: ATC Anchorage  
Submission Date: 6 May 2022  
Results: 7,200 ppm

*All analysis Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

# United States Environmental Protection Agency

This is to certify that



Dahlberg Design

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint renovation, repair, and painting activities pursuant to 40 CFR Part 745.89

In the Jurisdiction of:

All EPA Administered States, Tribes, and Territories

This certification is valid from the date of issuance and expires December 29, 2022

NAT-F182161-1

Certification #

December 15, 2017

Issued On



*Michelle Price*

Michelle Price, Chief

Lead, Heavy Metals, and Inorganics Branch



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United States of America

# CERTIFICATE OF ACHIEVEMENT

This certificate is awarded to:



## SIGRID DAHLBERG

7655 North Douglas Hwy Juneau, AK 99801

Has Successfully Completed the EPA- Approved Refresher Lead Training Course

Per Subpart L, 40 CFR Part 745.225 In:

### RRP REFRESHER (EPA APPROVED)

COURSE DATE:	SEPTEMBER 8, 2021
EXAMINATION DATE:	SEPTEMBER 8, 2021
EXPIRATION DATE:	SEPTEMBER 8, 2024



Verify this Certificate

*Danaya N. Wilson*  
CEO & Training Program Manager

Credential License ID:  
38371148

*Michael A. Benedetto*  
Instructor

CHC Training Certificate No.  
R-R-18814-21-0028-O



Renew this Certificate

