Limited Hazardous Materials Survey Report

Ayer House (formerly AP Building) 1417 Columbia St. SW

Olympia, WA 98501 State of Washington Project No. 2021-244

Prepared for: State of Washington Department of Enterprise Services (DES) Engineering & Architectural Services (E&AS) P.O. Box 41476 Olympia, WA 98504

REVISED July 29, 2021 PBS Project No. 40535.494



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AA Lead Paint Chip Sample Inventory
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AA Lead Paint Chip Chain of Custody Documentation

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1 INTRODUCTION

1.1 Project Background

PBS Engineering and Environmental, Inc. (PBS) performed a limited hazardous materials survey of the Ayer House (formerly AP Building) located at 1417 Columbia Street SW in Olympia, Washington. The intent of this investigation is to ensure that the State of Washington is in compliance with applicable regulatory requirements that a "good faith inspection" for ACMs be performed prior to renovation or demolition activities.

At the request of DES E&AS, all accessible areas of the building were inspected for the presence of Asbestos-Containing Materials (ACMs), Lead Containing Paint (LCP), polychlorinated biphenyls (PCBs) and mercury-containing components.

The Ayer House consists of a two-story wood-framed former residential structure with a concrete basement foundation, currently used as office space. Interior finishes generally consist of carpet over hardwood floors in most rooms and hallways, with sheet flooring at entries and the kitchen area, and ceramic tile in restrooms. Walls consist of both plaster/lath and gypsum wallboard, with cellulose fiberboard substrates in various locations. Glued-on acoustical ceiling tiles (12") exist in various rooms. Exterior siding and windows are wood, and roofing consists of composition shingles.

PBS previously inspected the Ayer House in 1994 for the presence of accessible ACMs. Pertinent information has been incorporated into this investigation.

1.2 Survey Process

Accessible areas included in the project scope were inspected by AHERA Certified Building Inspector Cel Alvarez (Cert. No. 176590 Exp. 1/22/2021) and Martin Estira (Cert. No 175867 Exp. 12/4/2020) on April 9, 2020. PBS endeavored to inspect all accessible areas within the scope of work. Inaccessible areas consist of those requiring selective demolition, fall protection, or confined space entry protocols in order to gain access.

When observed, suspect materials were sampled, or presumed to contain asbestos. Fifty-four (54) bulk samples were collected of suspect asbestos-containing materials as part of this investigation. All samples were assigned a unique identification number and transmitted for analysis to Seattle Asbestos Test (NVLAP #201057-0) under chain-of-custody protocols. Samples were analyzed according to EPA Method 600R-93/116 using Polarized Light Microscopy (PLM), which has a reliable limit of quantification of 1% asbestos by volume. Information regarding the type and location of sampled materials can be found on the attached PLM Sample Inventory.

Suspect ACMs may exist in inaccessible areas of the building. PBS endeavored to determine the presence and estimate the condition of suspect materials in all accessible areas. While PBS has endeavored to identify the ACM that may be found in concealed locations, additional unidentified ACM may exist.

2 FINDINGS

2.1 Asbestos-Containing Materials (ACMs)

The following materials were found to contain greater than 1% asbestos:

- Duct Felt Tape Basement HVAC Ducts approx. 185 LF exposed, undetermined quantity in concealed locations in walls/ceilings (previous inspection data);
- Insulting Cement Boiler Units approx. 60 LF (previous inspection data);

The following materials were found to contain 1% asbestos or less:

• Window Putty – Basement North – Eight windows, approx. 1' x 2' ea.;



Sampling of Basement windows in 1995 identified 1% asbestos via "point count" methodology. By regulation, this material does not meet the definition of "asbestos-containing material", which is defined as having greater than one percent asbestos. Sampling of representative window putty at the First Floor in 2021 detected no asbestos. See Section 3 Recommendations for additional information.

The following materials were sampled as part of this investigation and found to contain no asbestos:

- Carpet Mastic various locations throughout;
- 12" Glued-on Ceiling Tile/Mastic various locations throughout;
- Window Putty Throughout (Excluding Basement);
- Yellow Ceramic Tile/Mortar Kitchen;
- Pink Ceramic Tile/Mortar Restrooms;
- Gypsum Wallboard/Joint Compound various locations throughout
- Wall Plaster various locations throughout;
- Ceiling Plaster/fiberboard various locations throughout.

The following materials were sampled as part of PBS' previous investigation and found to contain no asbestos:

- Wall Plaster various locations throughout;
- Sheet Floor Covering First Floor West Hallway;
- Gypsum Wallboard/Joint Compound various locations throughout;
- Gray Flue Cement North Basement;
- White Flue Cement South Basement;
- Window Putty Basement North;

Refer to Appendix A for a complete listing of current PLM bulk sampling and associated laboratory analysis.

2.2 Lead-Containing Paint (LCP)

Five (5) representative painted coatings were sampled for lead content during this survey. The samples were assigned a unique identification number and transmitted to NVL Laboratories (AIHA IH #101861) in Seattle, Washington under chain-of-custody protocols for analysis using Flame Atomic Absorption.

Lead was detected in four (4) of the samples collected:

- Gray paint on west entry door frame 13.0%.
- White paint on interior wood window frame 0.064%
- Off-white paint on exterior wood siding 1.50%
- White wood on exterior wood window frame 6.90%

For a complete listing of representative bulk sampling and associated laboratory analysis, refer to Appendix B.

2.3 Mercury-Containing Components

All fluorescent light tubes are presumed to contain mercury. Approximately forty (40) four-foot fluorescent lamps and five (5) compact fluorescent light bulbs were observed during our investigation. Caution should be exercised during demolition to not break these lamps/bulbs.

2.4 PCB-Containing Components

PBS inspected representative fluorescent light fixture ballasts that are to be removed to facilitate the planned demolition. Fluorescent light fixtures throughout the building were inspected and found to contain electronic ballasts. Electronic ballasts do not contain PCB-laden oil.



3 RECOMMENDATIONS

3.1 ACMs

Prior to impact by renovation or demolition, all ACMs should be removed and properly disposed of by a qualified State of Washington licensed asbestos abatement contractor in accordance with all applicable local, state and federal regulations. Any ACMs that may be impacted by demolition activities should only be impacted by properly trained and protected personnel using appropriate work practices.

Window putty at the Basement level was analyzed via point-count method and determined to contain 1% asbestos. The State of Washington Department of Labor and Industries regulations require various employee/worker compliance for all trades during activities impacting materials containing 1% or less asbestos, including but not limited to asbestos awareness training, initial exposure monitoring, worker protection, engineering controls (use of wet methods and HEPA vacuums for debris cleanup), worker training and supervision by an asbestos "competent person" (WAC 296-62-077).

The possibility exists that suspect ACM may be present in equipment, wall, and ceiling cavities, and in select areas included in the scope of renovations. These may include, but are not limited to pipe insulation, below slab components vapor barriers, and construction adhesives and wall mastics. In the event that suspect ACM is uncovered during demolition, contractors should stop work immediately and inform the owner promptly for confirmation testing. All untested materials should be presumed asbestos-containing or tested for asbestos content prior to impact.

3.2 LCP

Representative paint coatings were found to contain detectable lead. Paint coatings may exist in inaccessible areas of the building or in secondary coatings on building components. Any previously unidentified painted coatings should be considered lead containing until sampled and proven otherwise.

Impact of paint with detectable concentrations of lead requires construction activities to be performed in accordance with the State of Washington Department of Labor and Industries regulation for Lead in Construction (WAC 296-155-176).

3.3 Mercury-Containing Components

All fluorescent lamps and CFL bulbs at this site are presumed to be mercury-containing. PBS recommends that all fluorescent lamps be carefully handled and recycled/disposed of in accordance with the contract documents and applicable regulations during demolition activities. Breakage of lamps should be avoided to prevent potential exposures to mercury. Washington Department of Safety and Health requires specific training, handling, engineering controls and disposal practices when performing this work. All waste shall be handled in accordance with WAC 173-303.

3.4 PCB-Containing Components

PBS recommends all light ballasts be inspected prior to disposal. Magnetic ballasts should be presumed to contain PCBs and properly removed, stored, transported and disposed of in accordance with Washington Administrative Code (WAC) 173-303 Dangerous Waste Regulations and 40 CFR Part 761 Subpart D. Electronic ballasts do not contain PCBs and can be disposed of as general debris in compliance with applicable codes and endpoint facility requirements.



Report prepared by:

Report reviewed by:

Ferman Fletcher AHERA Building Inspector Cert. #IR-21_8539B Exp. 4/01/2022 Tim Ogden Principal/ Sr. Project Manager, AHERA Building Inspector Cert. #IR-21-2008A, exp. 4/01/2022



APPENDIX A

PLM Asbestos Bulk Sampling Information

PLM Asbestos Bulk Sample Inventory PLM Asbestos Bulk Sample Laboratory Data Sheets Chain of Custody

Historical Asbestos Survey Information - PBS, April 1995

Ayer House, Olympia, WA Washington State Department of Enterprise Services PLM ASBESTOS SAMPLE INVENTORY

PBS Sample #	Material Type	Sample Location	<u>Lab Description</u>	Lab Result	<u>Lab</u>
40535.494 -A01	Carpet mastic	1st Floor; room South of main entry	Layer 1: Yellow mastic	NAD	SAT
40535.494 -A02	12" Glued-on acoustical ceiling tile Glue	1st Floor; room North of main entry	Layer 1: Brown fibrous material with paint Layer 2: Brown mastic	NAD NAD	SAT
40535.494 -A03	12" Glued-on acoustical ceiling tile	2nd Floor; Northeast corner room	Layer 1: Yellow mastic with paint Layer 2: Brown fibrous material with paint	NAD NAD	SAT
	Glue		Layer 3: Brown mastic	NAD	
40535.494 -A04	Firebrick	1st Floor; fireplace	Layer 1: Gray hard sandy/brittle material	NAD	SAT
40535.494 -A05	Window putty	1st Floor; West elevation	Layer 1: Beige brittle material with paint	NAD	SAT
40535.494 -A06	Window putty	1st Floor; North elevation; West end	Layer 1: Beige brittle material with paint and debris	NAD	SAT
40535.494 -A07	Window putty	1st Floor; North elevation; East end	Layer 1: Beige brittle material with paint	NAD	SAT
40535.494 -A08	Yellow ceramic tile backsplash Mortar	1st Floor; kitchen	Layer 1: Yellow ceramic Layer 2: Gray sandy/brittle material	NAD NAD	SAT
40535.494 -A09	Pink ceramic floor tile / Mortar	2nd Floor; West bathroom	Layer 1: Pink/yellow ceramic	NAD	SAT
40535.494 -A10	Pink ceramic floor tile / Mortar	2nd Floor; East bathroom	Layer 1: Pink/beige ceramic	NAD	SAT
40535.494 -A11	Joint compound Gypsum wallboard	1st Floor; hallway	Layer 1: White powdery material with paint and paper Layer 2: White chalky material with paper	NAD NAD	SAT
40535.494 -A12	Wall plaster	1st Floor; North entry	Layer 1: Off-white soft/elastic material with trace paint Layer 2: Gray sandy/brittle material	NAD NAD	SAT
40535.494 -A13	Plaster over fiberboard	2nd Floor; Southeast closet	Layer 1: Gray sandy/brittle material with paint Layer 2: Brown fibrous material	NAD NAD	SAT

Ayer House, Olympia, WA Washington State Department of Enterprise Services

PBS Engineering + Environmental PBS Project #40535.494

PBS Sample #	Material Type	Sample Location	Lab Description	<u>Lab Result</u>	<u>Lab</u>
40535.494 -A14	Singles and tar/plastic	North roof area	Layer 1: Black asphaltic material with sand	NAD	SAT
			Layer 2: Black asphaltic material with sand	NAD	
			Layer 3: Black asphaltic material with sand	NAD	
			Layer 4: Black asphaltic material	NAD	
			Layer 5: Black plastic	NAD	
40535.494 -A15	Singles and tar/plastic	South roof area	Layer 1: Black asphaltic material with sand	NAD	SAT
			Layer 2: Black asphaltic material with sand	NAD	
			Layer 3: Black asphaltic material	NAD	
			Layer 4: Black plastic	NAD	

SEATTLE ASBESTOS TEST, LLC

Lymwood Laboralory, 19701 Scriber Lake Road, Suite 103, Lymwood, WA 98036, Tel: 425,673,9850, Fax: 425,673,9810, NVLAP Lab Code: 200768-0

www.senttleasbestostest.com, admin@seattleasbestostest.com

Project Manager: Mr. Ferman Fletcher, Ms. Michelle Dodson, Mr. Tim Ogden

Client: PBS Engineering and Environmental, Scattle

Address: 214 E Galer Street, Suite 300, Seattle, WA

98102

Tel: 206.233.9639

Date Report Issued: 6/30/2021

Date Analyzed: 6/30/2021

Client Job#: 40535,494

Project Location: Ayer House

Laboratory batch#: 202110563

Samples Received: 13

Enclosed please find the test results for the bulk samples submitted to our laboratory for asbestos analysis. Analysis was performed using polarized light microscopy (PLM) in accordance with Test Method US EPA - 40 CFR Appendix E of Part 763, Interim Method of Determination of Asbestos in Bulk Insulation Samples and Test Method US EPA/600/R-93/116.

Percentages for this report are done by visual estimate and relate to the suggested acceptable error ranges by the method. Since variation in data increases as the quantity of asbestos decreases toward the limit of detection, the EPA recommends point counting for samples containing between <1% and 10% asbestos (NESHAP, 40 CFR Part 61). Statistically, point counting is a more accurate method. If you feel a point count might be beneficial, please feel free to call and request one.

The test results refer only to the samples or items submitted and tested. The accuracy with which these samples represent the actual materials is totally dependent on the acuity of the person who took the samples. This report must not be used by the client to claim product certification, approval, or endorsement by Seattle Asbestos Test, LLC, NVLAP, NIST, or any agency of the Federal government. The test report or calibration certificate shall not be reproduced except in full, without written approval of the laboratory. If the sample is inhomogeneous the sub-samples of the components are analyzed separately as layers. This report in its entirety consists of this cover leter, the customer sampling COC or data sheet, and the analytical report which is page numbered.

This report is highly confidential and will not be released without your consent. Samples are archived for 30 days after the analysis, and disposed of as hazardous waste, thereafter.

Thank you for using our service and let us know if we can further assist you.

Sincerely

Samo

Steve (Fanyao) Zhang Approved Signatory



Project: Ayer House		Project #: 40535.494
Analysis requested: PLM		Date: 6/29/21
Reling'd by/Signature:	77	Date/Time: 6/29/21
Received by/Signature. Corp	y teo la fee	Date/Time: 6/29/21 16:31
E-mail results to:		
Brian Stanford	Cel Alvarez	Mike Smith
☐ Willem Mager	☐ Janet Murphy	Ferman Fletcher
Gregg Middaugh	☐ Kaitlin Soukup	☐ Holly Tuttle
Mark Hiley	Martin Estira	Ryan Hunter
☐ Tim Ogden	Justin Day	Eman Jabali
Prudy Stoudt-McRae	Michelle Dodson	
E-mail all invoices to: seattleap@p	bsusa.com	
TURN AROUND TIME:		
1 Hour	24 Hours	☐ 3-5 Days
2 Hours	48 Hours	Other
A Hours		

	SAMPLE DATA FORM						
Sample #	Material	Location	Lab				
40535.494-A01	Carpet Mastic	1st Floor, Rm South of Main Entry	SAT				
-A02	12" GACT/Glue	1st Floor; Rm North of Main Entry					
-A03		2 nd Floor; NE corner Room					
-A04	Firebrick	1st Floor; Fireplace					
-A05	Window Putty	1st Floor, W. elevation					
-A06		1st Floor, N. elevation; W. end					
-A07		1st Floor; N. elevation; E. end					
-A08	Yellow Ceramic Tile Backsplash/Mortar	1st Floor; Kitchen					
-A09	Pink Ceramic Floor tile/Mortar	2 nd Floor, W. Bathroom					
-A10		2 nd Floor; E. Bathroom					
-A11	JC/GWB (Composite Analysis Requested if Applicable)	1st Floor; Hallway					
-A12	Wall Plaster	1st Floor; N. entry					
-A13	Plaster over Fiberboard	2 nd Floor; SE closet					

SEATTLE ASBESTOS TEST

Lymrwood Laboratory: 19701 Scriber Lake Road, Stitle 103, Lymrwood. WA 98036. Tel: 425.673.9850, Fax: 425.673.9610, NVLAP Lab Code: 200768-0

Disclaimer. This report must not be used by the client to claim product certification, approval, or endorsement by Seattle Asbestos Test, LLC, NVLAP, NIST, or any agency of the Federal government.

ANALYTICAL LABORATORY REPORT

[PLM] EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples; EPA 600/R-93/115: Method for the Determination of Asbestos in Bulk Building Materials

(PLM)

Mr. Ferman

Fletcher, Ms. Michelle Dodson, Mr. Tim Ogden

PBS Engineering and Client: PBS Engineering and Environmental, Seattle

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

June 40535,494

Batch#: 202110563

Date Received: 6/29/2021

Project Loc., Ayer House

Date Analyzed: 6/30/2021

Samples Analyzad: 13

Lab 10	Climit Sample ID	Layer	Description	16	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibe	
1	40535.494-A01	1	Yellow mastic		None detected	Mastic/binder	2	Cellulose	
2	40535 404 403	1	Brown fibrous material with paint		None detected	Filler, Paint	91	Cellulose	
2	40535.494-A02	2	Brown mastic		None detected	Mastic/binder	3	Cellulose	
3			1	Yellow mastic with paint		None detected	Mastic/binder, Paint	3	Cellulose
	40535.494-A03	2	Brown fibrous material with paint		None detected	Filler, Paint	86	Cellulose	
		3	Brown mastic		None detected	Mastic/binder	2	Cellulose	
4	40535.494-A04	1	Gray hard sandy/brittle material		None detected	Sand, Filler, Cement/binder	3	Cellulose	
5	40535.494-A05	1	Beige brittle material with paint		None detected	Binder, Filler, Paint	2	Cellulose	
6	40535.494-A06	1	Beige brittle material with paint and debris		None detected	Binder, Filler, Paint, Debris	3	Cellulose	
7	40535.494-A07	1	Beige brittle material with paint		None detected	Binder, Filler, Paint	2	Cellulose	
8	40535,494-A08	1	Yellow ceramic		None detected	Ceramic/binder		None detecte	
-0	40555,494-A06	2	Gray sandy/brittle material		None detected	Sand, Filler, Binder	2	Cellulose	
9	40535.494-A09	1	Pink/yellow ceramic		None detected	Ceramic/binder		None detecte	
10	40535.494-A10	1	Pink/beige ceramic		None detected	Ceramic/binder		None detecte	
11	40535.494-A11	1	White powdery material with paint and paper		None detected	Binder, Filler, Paint	20	Cellulose	
		2	White chalky material with paper		None detected	Binder/filler, Gypsum/binder	25	Cellulose	
12	40535.494-A12	1	Off-white soft/elastic material with trace paint		None detected	Binder, Filler, Paint	3	Cellulose	
		2	Gray sandy/brittle material		None detected	Sand, Filler, Binder	2	Cellulose	
12	40535.494-A13	1	Gray sandy/brittle material with paint		None detected	Sand, Filler, Binder, Paint	3	Cellulose	
13	40030.494-A13	2	Brown fibrous material		None detected	Filler	89	Cellulose	

SEATTLE ASBESTOS TEST, LLC.

Lyrinwood Laboratory: 19701 Scriber Lake Read, Suite 103, Lyrinwood. WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

www.seattleasbestostest.com, admin@seattleasbestostest.com

Mr. Tim Ogden, Mr. Ryan Hunter, Ms. Michelle Project Manager:

Dodson

Client: PBS Engineering and Environmental, Seattle Address: 214 E Galer Street, Suite 300, Seattle, WA

98102

Tel- 206,233,9639

Date Report Issued: 7/26/2021

Date Analyzed: 7/26/2021

Client Job#: 40535,494

Project Location: Ayer (AP) House

Laboratory batch#: 202110780

Samples Received: 2

Enclosed please find the test results for the bulk samples submitted to our laboratory for asbestos analysis. Analysis was performed using polarized light microscopy (PLM) in accordance with Test Method US EPA - 40 CFR Appendix E of Part 763, Interim Method of Determination of Asbestos in Bulk Insulation Samples and Test Method US EPA/600/R-93/116.

Percentages for this report are done by visual estimate and relate to the suggested acceptable error ranges by the method. Since variation in data increases as the quantity of asbestos decreases toward the limit of detection, the EPA recommends point counting for samples containing between <1% and 10% asbestos (NESHAP, 40 CFR Part 61). Statistically, point counting is a more accurate method. If you feel a point count might be beneficial, please feel free to call and request one.

The test results refer only to the samples or items submitted and tested. The accuracy with which these samples represent the actual materials is totally dependent on the acuity of the person who took the samples. This report must not be used by the client to claim product certification, approval, or endorsement by Seattle Asbestos Test, LLC, NVLAP. NIST, or any agency of the Federal government. The test report or calibration certificate shall not be reproduced except in full, without written approval of the laboratory. If the sample is inhomogeneous the sub-samples of the components are analyzed separately as layers. This report in its entirety consists of this cover leter, the customer sampling COC or data sheet, and the analytical report which is page numbered.

This report is highly confidential and will not be released without your consent. Samples are archived for 30 days after the analysis, and disposed of as hazardous waste thereafter.

Thank you for using our service and let us know if we can further assist you.

Sincerely

Theren

Steve (Fanyao) Zhang Approved Signatory

202110780



LABORATORY CHAIN OF CUSTODY

Project: AYER (AP) HOUSE	Project #: 40535. 494		
Analysis requested: PCM	Date: 7 23 2021		
Relinq'd by/Signature: Pyon L	women 12yr De	Date/Time: 7 73 7021	
Received by/Signature: Caralya	100 Gyla	Date/Time: 7/23/2/ 1/:36	
Em	ail ALL INVOICES to: seattleap@	pbsusa.com	
E-mail results to:			
☐ Brian Stanford	☐ Janet Murphy	Mike Smith	
☐ Willem Mager	☐ Kaitlin Soukup	Ferman Fletcher	
Gregg Middaugh	Martin Estira	Ryan Hunter	
Mark Hiley	☐ Justin Day	Michelle Dodson	
Tim Ogden	Claire Tsai	- Interior Dodson	
Prudy Stoudt-McRae	Holly Tuttle		
TURN AROUND TIME:			
1 Hour	* 24 Hours	3-5 Days	
2 Hours	48 Hours	Other	
4 Hours			

SAMPLE DATA FORM					
Sample #	Material	Location	Lab		
A14	Shingles + TAR PUPSTIC	NORTH ROSE ANTA	SAT		
21 4	Shingles + Ton/ PLASTIC	SOUTH ROOF AREA	Ţ		

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

Disclaimer: This report must not be used by the client to claim product certification, approval, or endorsement by Seattle Asbestos Test, LLC, NVLAP, NIST, or any agency of the Federal government.

ANALYTICAL LABORATORY REPORT

[PLM] EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples; EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

[PLM]

Mr. Tim Ogden, Mr. Attn.: Ryan Hunter, Ms. Michelle Dodson

client: PBS Engineering and Environmental, Seattle

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Job#: 40535.494 Samples Rec'd: 2

Batchil: 202110780 Date Analyzed: 7/26/2021

Date Received: 7/23/2021

Samples Analyzed: 2

Project Loc.: Ayer (AP) House

Analyzed by: Carolyl Yea

Thung

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers	
		1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	27	Glass fibers	
		2	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	25	Glass fibers	
1	A14	3	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	23	Glass fibers	
		4	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose	
			5 Black plastic	Black plastic	L	None detected	Plastic		None detected
2	2	A15	1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	21	Glass fibers
			2	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	25	Glass fibers
	6.19	3	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose	
		4	Black plastic		None detected	Plastic		None detected	

CODE	MATERIAL / LOCATION	ANALYSIS / LAB
7045.21-001	Wall Plaster (1) Basement - Southwest	NAD PBS
7045.21-002	Wall Plaster (1) Basement - East door frame	NAD PBS
7045.21-003	Wall Plaster Basement - stairwell	NAD PBS
7045.21-004	Sheet Floor Covering First floor West hallway	NAD PBS
7045.21-005	Gypsum Wallboard Basement North	NAD (All layers) PBS
7045.21-006	Gypsum Wallboard Basement North	NAD (All layers) PBS
7045.21-007	Plaster (2) Gray Flue Cement - North side	NAD PBS
7045.21-008	Plaster (3) White Flue cement - South side	NAD PBS
7045.21-009	Duct Felt Tape Basement North unit	55% Chrysotile (Paperlike, green/gray) PBS
7045.21-010	Duct Felt Tape Basement Northeast duct	60% Chrysotile (Paperlike, green/gray) PBS

^{*}NAD = No Asbestos Detected
*Samples will be disposed of after 330/95 unless Owner notifies PBS.

A.P. Building - #98
Bulk Sample Inventory

CODE	MATERIAL / LOCATION	ANALYSIS / LAB
7045.21-011	Insulating Cement Boiler cement/cork - North unit	NAD (Dark gray, cement-like) 5% Chrysotile (Dark gray,friable) PBS
7045.21-012	Window Putty Basement North	1% Chrysotile (Compound, tan-cream) PBS
7045.21-013	Window Putty Basement North	<1% Chrysotile (Beige putty material) R.J. Lee Group

^{*}NAD = No Asbestos Detected

^{*}Samples will be disposed of after 330/95 unless Owner notifies PBS.

PBS ENVIRONMENTAL

1220 S.W. MORRISON STREET PORTLAND, OREGON 97205 (503) 248-1939

BULK SAMPLE ASBESTOS ANALYSIS

Client: Washington Department of General Ser Report Date: 2/03/95

1058 Capitol Way Date Received: 2/03/95

Olympia, WA 98504 Client Project ID: N/A

PBS Project No.: 7045.21

Page No.: 1 of 6

Client Sample ID: 7045.21-001

PBS Lab ID: 95-00-437

Percent of Sample: 100%

Asbestiform Mineral Fibers

Total % Asbestos Fibers: NAD

Other Fibers

Cellulose 2%

NO ASBESTOS DETECTED

COMMENTS: Plaster, White/gray.

Client Sample ID: 7045.21-002

PBS Lab ID: 95-00-438

Percent of Sample: 100%

Asbestiform Mineral Fibers

Total % Asbestos Fibers: NAD

Other Fibers

Cellulose 2%

NO ASBESTOS DETECTED

COMMENTS: Plaster, White/gray.

Client: Washington Department of General Ser Report Date: 2/03/95

1058 Capitol Way Date Received: 2/03/95

Olympia, WA 98504 Client Project ID: N/A

PBS Project No.: 7045.21 Page No.: 2 of 6

Client Sample ID: 7045.21-003

PBS Lab ID: 95-00-439

Percent of Sample: 100%

Asbestiform Mineral Fibers

Total % Asbestos Fibers: NAD

Other Fibers
Cellulose 1%

NO ASBESTOS DETECTED

COMMENTS: Plaster, White/gray.

Client Sample ID: 7045.21-004

PBS Lab ID: 95-00-440

Percent of Sample: 100%

Asbestiform Mineral Fibers

Total % Asbestos Fibers: NAD

Other Fibers
Cellulose 20%

NO ASBESTOS DETECTED

COMMENTS: Sheet vinyl, Green-gray/tan.

Client: Washington Department of General Ser Report Date: 2/03/95

1058 Capitol Way Date Received: 2/03/95

Olympia, WA 98504 Client Project ID: N/A

PBS Project No.: 7045.21

Page No.: 3 of 6

Client Sample ID: 7045.21-005

PBS Lab ID: 95-00-441

Percent of Sample: LAYER 1 LAYER 2 LAYER 3

Asbestiform Mineral Fibers

Total % Asbestos Fibers: NAD NAD NAD

Other Fibers
Fibrous Glass - 3

Fibrous Glass - 3%
Cellulose 1% 99% 4%

NO ASBESTOS DETECTED

COMMENTS: Layer 1: White compound, Layer 2: Gray paper,

Layer 3: White gypsum. Ashed layer 1.

Client Sample ID : 7045.21-006

PBS Lab ID: 95-00-442

Percent of Sample: LAYER 1 LAYER 2 LAYER 3

Asbestiform Mineral Fibers

Total % Asbestos Fibers: NAD NAD NAD

Other Fibers
Fibrous Glass - 4%

Cellulose 1% 98% 3%

NO ASBESTOS DETECTED

COMMENTS: Layer 1: White compound, Layer 2: Gray paper,

Layer 3: White gypsum.

NAD = No Asbestos Detected. NIST accreditation may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested. Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM. Samples will be disposed of in 90 days.

Client: Washington Department of General Ser Report Date: 2/03/95

1058 Capitol Way Date Received: 2/03/95 Olympia, WA 98504 Client Project ID: N/A

mpia, WA 98504 Client Project ID: N/A PBS Project No.: 7045.21

Page No.: 4 of 6

Client Sample ID: 7045.21-007

PBS Lab ID: 95-00-443

Percent of Sample: 100%

Asbestiform Mineral Fibers

Total % Asbestos Fibers: NAD

Other Fibers
Wollastonite 35%

NO ASBESTOS DETECTED

COMMENTS: Cementlike, Dk.gray. Sample ashed.

Client Sample ID : 7045.21-008

PBS Lab ID: 95-00-444

Percent of Sample: 100%

Asbestiform Mineral Fibers

Total % Asbestos Fibers: NAD

Other Fibers
Wollastonite 38%

NO ASBESTOS DETECTED

COMMENTS: Cementlike, Dk.gray/white.

Client: Washington Department of General Ser Report Date: 2/03/95

1058 Capitol Way Date Received: 2/03/95

Olympia, WA 98504 Client Project ID: N/A PBS Project No.: 7045.21

Page No.: 5 of 6

Client Sample ID: 7045.21-009

PBS Lab ID: 95-00-445

Percent of Sample: 100%

Asbestiform Mineral Fibers

Chrysotile 55%

Total % Asbestos Fibers: 55%

Other Fibers

Cellulose 48

TOTAL % ASBESTOS: 55%

COMMENTS: Paperlike, Green/gray.

Client Sample ID : 7045.21-010

PBS Lab ID: 95-00-446

Percent of Sample: 100%

Asbestiform Mineral Fibers

Chrysotile 60%

Total % Asbestos Fibers: 60%

Other Fibers

Cellulose 2%

TOTAL % ASBESTOS: 60%

COMMENTS: Paperlike, Green/gray.

Client: Washington Department of General Ser Report Date: 2/03/95

1058 Capitol Way

Date Received:

2/03/95

Olympia, WA 98504

Client Project ID:

N/A

PBS Project No.:

7045.21

Page No.:

6 of 6

Client Sample ID : 7045.21-011

PBS Lab ID: 95-00-447

Percent of Sample: LAYER 1 LAYER 2

Asbestiform Mineral Fibers

Chrysotile - 5%

Total % Asbestos Fibers: NAD 5%

Other Fibers

Cellulose - 1%
Mineral wool - 50%
Wollastonite 35%

COMBINED TOTAL % ASBESTOS: 2%

COMMENTS: Layer 1: Dk.gray cementlike, Layer 2: Dk.gray friable.

Client Sample ID : 7045.21-012

PBS Lab ID: 95-00-448

Percent of Sample: 100%

Asbestiform Mineral Fibers

Chrysotile 1%

Total % Asbestos Fibers: 1%

Other Fibers

Cellulose 1%

TOTAL % ASBESTOS: 1%

COMMENTS: Compound, Tan-cream.

Reviewed by: Reviewed by: Approved Signatory Anal

Analyst(s): Man Ninh

NAD = No Asbestos Detected. NIST accreditation may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested. Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM. Samples will be disposed of in 90 days.

PBS ENVIRONMENTAL

1220 S.W. MORRISON STREET PORTLAND, OREGON 97205

(503) 248-1939

BULK SAMPLE ASBESTOS ANALYSIS

Client: Washington Department of General Ser Report Date: 4/10/95

Date Received: 4/10/95 1058 Capitol Way Client Project ID: N/A

98504 Olympia, WA 7045.21 PBS Project No.:

> 1 of 1 Page No.:

Client Sample ID : 7045.21-012

PBS Lab ID: 95-01-357

Percent of Sample: 100%

Asbestiform Mineral Fibers

Chrysotile

Total % Asbestos Fibers: 18

TOTAL % ASBESTOS: See point-count result below

COMMENTS: Compound, beige-cream. Point-count result: 4 fibers/400 points counted; 1% ASBESTOS per 40CFR, Part 763, Subpt. F, Appx. A.

18

Analyst(s): Rollie A. Champe

NAD = No Asbestos Detected. NIST accreditation may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested. Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM. Samples will be disposed of in 90 days.

Tabre I

Polarized Light Analysis Results Project

Mineral Fibrous Synthetic Other NonFibrous Run Date Glass Fibers Fibers Material Analyst 100 % 1/31/95 -Nonasbestos---Sample Appearance Client Sample Number Chrysotile Amosite Crocidolite Anthophyllite Tremolite Actinolite Cellulose Wool ----Asbestos----Sample Number /

7045.21-013 1524566CPL

Beige putty material

<1 Tr %

NFM: Qtz, Carb, Binder, Opaq, Gyp, Mag, Fine Grains, Misc. Part.

Homogeneous

William Driver Authorized Signature.

(510) 486-8319 (510) 486-0927 Friday, February 3, 1995 Phone Fax

RJ Lee Group, Inc. Berkeley

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

P B S ENVIRONMENTAL

RECEIVER

DATE RECEIVED 30 JAN 1995

COMPANY PBS Laboratory

ADDRESS 1220 S.W. Morrison #600

Portland, OR 97205

TRANSMITTAL AND CHAIN OF CUSTODY FOR BULK SAMPLES

roject No. 7045.21

January 27, 1995

220 South Findlay Street

BS Environmental

ENDER

ate Senti

Attn:

ividuals signing this form warrant that the information that is applicable to their title is correct and complete. The Sender uld keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the der. Receiver shall report damage of package immediately to Sender.

Det	orah Minas Hoved Business Alah Mura	SION Services 1/21/95	Name 115	E CHAMPE E- A- (lame 22-30 JA
horise	Bignature	Date	Authorized S	ignature Date
ì	Sender's ID No.	' Brief Descrip		Receiver's ID No.
	7045.21-00	o1	D	<u> 45-cc-437</u>
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	7045.21-00	3		- 444
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	7045.21-00	5		
	7045.21-00	06		1/1/13
	7045.21-00	7		
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	7045.21-00	9		
	7045.21-01			146
	7045.21-01	1		
	7045.21-01	.2		1 -4-18

P B S ENVIRONMENTAL

RECEIVER

DATE RECEIVED 32. JAN 1995

COMPANY PBS Laboratory

ADDRESS 1220 S.W. Morrison #600

TRANSMITTAL AND CHAIN OF CUSTODY FOR BULK SAMPLES

roject No. 7045.21

ate Sent: January 27, 1995

BS Environmental

ENDER

ividuals signing this form warrant that the information that is applicable to their title is correct and complete. The Sender uld keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the der. Receiver shall report damage of package immediately to Sender.

20 South Findlay St Seattle, WA 98108 206) 233-9639	reet	Po	ortland, OR 97205	
Deborah HIVASS. Payloreg Business Persiah Maras	Services /27 /95	ROLLIE Name Fillian	A (hampe 30	JAN 1995
horized Signature	Date	Authorized Signat	Date	
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7045.21-001 7045.21-002 7045.21-003 7045.21-004 7045.21-005 7045.21-007 7045.21-008 7045.21-009 7045.21-009			95-co-437 -438 -436 -440 -441 -443 -443 -445 -446	POINT-LOUM LAB NO.
7045.21-011 ** 7045.21-012	* POINT - COUNT		1 -4-18	95-01-35
otification if samples will be di	mples for asbestos content using PLM sposed. Request fax results by:	AH/PMDate	•	i, PBS

Δ	DE	F	NI)I	X	R
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AA Lead Paint Chip Sampling Information

AA Lead Paint Chip Bulk Sample Inventory
AA Lead Paint Chip Sample Laboratory Data Sheets
Chain of Custody

AA LEAD PAINT CHIP SAMPLE INVENTORY

PBS Sample #	Paint Color / Component or Substrate	Sample Location	Results (mg/kg)	Results (%)	<u>Lab</u>
40535.494 -APb01	White / Plaster / Wall	Entry vestibule	<52	<0.0052	NVL
40535.494 -APb02	Gray / Wood / Exterior door frame	West elevation	130000	13	NVL
40535.494 -APb03	White / Wood / Interior window frame	1st Floor; Southeast room	640	0.064	NVL
40535.494 -APb04	Off-white / Wood / Siding	West elevation	15000	1.5	NVL
40535.494 -APb05	White / Wood / Window frame	West elevation	69000	6.9	NVL

July 1, 2021



Ferman Fletcher

PBS Environmental - Seattle
214 E Galer St. Suite. 300

Seattle, WA 98102

NVL Batch # 2111530.00

RE: Total Metal Analysis

Method: EPA 7000B Lead by FAA <paint>

Item Code: FAA-02

Client Project: 40535.494 Location: Ayer House

Dear Mr. Fletcher,

NVL Labs received 5 sample(s) for the said project on 6/30/2021. Preparation of these samples was conducted following protocol outlined in EPA 3051/7000B, unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with EPA 7000B Lead by FAA <paint>. The results are usually expressed in mg/Kg and percentage (%). Test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more detail.

At NVL Labs all analyses are performed under strict guidelines of the Quality Assurance Program. This report is considered highly confidential and will not be released without your approval. Samples are archived after two weeks from the analysis date. Please feel free to contact us at 206-547-0100, in case you have any questions or concerns.

Sincerely.

Shalini Patel, Lab Supervisor

Enc.: Sample results







Analysis Report

Total Lead (Pb)

Client: PBS Environmental - Seattle Address: 214 E Galer St. Suite. 300

Seattle, WA 98102

Attention: Mr. Ferman Fletcher

Project Location: Ayer House



Batch #: 2111530.00

Matrix: Paint Method: EPA 3051/7000B

Method: EPA 3051/7000B Client Project #: 40535.494 Date Received: 6/30/2021 Samples Received: 5

Samples Analyzed: 5

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
21076344	40535.494-APb01	0.1922	52	< 52	< 0.0052
21076345	40535.494-APb02	0.1883	53	130000	13
21076346	40535.494-APb03	0.1927	52	640	0.064
21076347	40535.494-APb04	0.1990	50	15000	1.5
21076348	40535.494-APb05	0.1972	51	69000	6.9

Sampled by: Client

Analyzed by: Umer Khan Reviewed by: Shalini Patel

Date Analyzed: 06/30/2021 Date Issued: 07/01/2021

Shalini Patel, Lab Supervisor

mg/ Kg =Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

'<' = Below the reporting Limit

RL = Reporting Limit

Note: Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 2021-0630-9

FAA-02

LEAD LABORATORY SERVICES



	Company Pl	BS Environmental - Sea	ttle	NVL Batch Number 2	111530.00		
	Address 21	14 E Galer St. Suite. 300)	TAT 1 Day		AH No	
	Se	eattle, WA 98102		Rush TAT		_	
Proje	ct Manager M	r. Ferman Fletcher		Due Date 7/1/2021	Time 11	:45 AM	
	Phone (2	06) 233-9639		Email ferman.fletcher@	pbsusa.com		
	Cell (2	06) 491-1389		Fax (866) 727-0140			
Proj	ect Name/Nu	mber: 40535.494	Project Loc	ation: Ayer House			
Subc	ategory Flam	e AA (FAA)					
Ite	m Code FAA-	02 EPA 7	000B Lead by FAA	<paint></paint>			
То	tal Numbe	r of Samples5				Rush Samples	
	Lab ID	Sample ID	Description				A/R
1	21076344	40535.494-APb01					Α
2	21076345	40535.494-APb02					Α
3	21076346	40535.494-APb03					А
4	21076347	40535.494-APb04					Α
5	21076348	40535.494-APb05					Α

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Drop Box				
Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Fatima Khan		NVL	6/30/21	800
Analyzed by	Umer Khan		NVL	6/30/21	
Results Called by					
☐ Faxed ☐ Emailed					
Special Instructions:		'			

Date: 6/30/2021 Time: 8:56 AM Entered By: Kelly AuVu





Project: Ayer House		Project #: <u>40535.494</u>
Analysis requested: AAS for Pb		Date: 6/29/21
Relinq'd by/Signature:		Date/Time: 6/29/21
Received by/Signature:	in Mulass	Date/Time: 6/30/21 800000 (
E-mail results to: Brian Stanford Willem Mager Gregg Middaugh Mark Hiley Tim Ogden Prudy Stoudt-McRae	Cel Alvarez Janet Murphy Kaitlin Soukup Martin Estira Justin Day Michelle Dodson	☐ Mike Smith ☐ Ferman Fletcher ☐ Holly Tuttle ☐ Ryan Hunter ☐ Eman Jabali
E-mail all invoices to: seattleap@pbsus TURN AROUND TIME: 1 Hour 2 Hours 4 Hours	24 Hours 48 Hours	3-5 Days Other

	SAMPLE DATA	FORM	
Sample #	Material	Location	Lab
40535.494- APb01	White/Plaster/Wall	Entry Vestibule	NVL
-APb02	Grey/Wood/Exterior Door Frame	W. Elevation	
APb03	White/Wood/Interior Window Frame	1st Floor; SE room	
-APb04	Off-white/Wood/Siding	W. elevation	
-APb05	White/Wood/Window Frame	W. elevation	

Kelly Au Vu

From: Ferman L. Fletcher < Ferman.Fletcher@pbsusa.com>

Sent: Wednesday, June 30, 2021 11:43 AM

To: Kelly Au Vu Cc: NVL Labs

Subject: Re: Project Ayer House

24 hr tat please

Sent from my Verizon, Samsung Galaxy smartphone Get Outlook for Android

From: Kelly Au Vu <kelly.a@nvllabs.com>
Sent: Wednesday, June 30, 2021 8:59:28 AM

To: Ferman L. Fletcher < Ferman. Fletcher @pbsusa.com >

Cc: NVL Labs < labonline@nvllabs.com>

Subject: Project Ayer House

Hello,

Please see the attached COC.

There is no turn around time marked, please let us know what turn you are needing.

Samples will be placed on hold.

Thanks & Regards,

Kelly Au Vu Client Services Specialist



www.nvllabs.com

Your feedback is very important to us!

ph: 206.547.0100 | fax: 206.634.1936 toll free: 1.888.NVL.LABS (685.5227)

4708 Aurora Avenue North, Seattle, WA 98103

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Certifications

THIS IS TO CERTIFY THAT

FERMAN L FLETCHER

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date:

04/01/2021

M PBS

Portland, OR

Course Location:

Training; AHERA is the Asbestos Hazard Emergency Response Act enacting Title II

4-Hour AHERA Inspector Refresher

CCB #SRA0615 4-Hr Training

of Toxic Substance Control Act (TSCA)

04/01/2022

Expiration Date:

Certificate: IR-21-8539B

For verification of the authenticity of this certificate contact:

PBS Engineering and Environmental Inc. 4412 S Corbett Avenue

4412 S Corbett Avenue Portland, Oregon 97239

503.248.1939

anders Fidery

Andy Fridley, Instructor

THIS IS TO CERTIFY THAT

TIM OGDEN

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date:

04/01/2021

Portland, OR

Course Location:

IR-21-2008A

Certificate:

For verification of the authenticity of this certificate contact:

PBS Engineering and Environmental Inc. 4412 S Corbett Avenue Portland, Oregon 97239

503.248.1939

N PBS

CCB #SRA0615 4-Hr Training

4-Hour AHERA Inspector Refresher Training; AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

Expiration Date: 04/01/2022

Custer Fielly

Andy Fridley, Instructor