# **Pre-Renovation Limited Hazardous Building Materials Survey Report**

Washington Center for Deaf and Hard of Hearing Youth (CDHY) Northrop Hall 611 Grand Boulevard Vancouver, Washington 98661

# Prepared for:

Washington State Department of Enterprise Services (DES) PO Box 41476

Olympia, Washington 98504

General Information	1.1
Inspection Summary	1.2
Survey Drawings	HS1 - HS3
Hazardous Material Sample Inventories	3.1
Laboratory Data	Not Numbered
AHERA Certificate	Not Numbered

September 2022 PBS Project 25570.006, Phase 0001



# **General Information**

### **CLIENT DATA**

Washington DES PO Box 41476 Olympia, Washington 98504

### **BUILDING DATA**

Washington CDHY – Northrop Hall 611 Grand Boulevard Vancouver, Washington 98661

Year(s) Built: Circa 1952

# **Survey Scope**

PBS Engineering and Environmental Inc. (PBS) has performed a limited pre-renovation hazardous building materials survey of accessible areas within the scope of work at Northrop Hall at Washington CDHY and compiled this report with the following information:

- Inspection Summary
  - o Asbestos-containing building materials (ACBM)
  - Lead paint
  - Suspect polychlorinated biphenyl (PCB) containing equipment
  - o Mercury-containing light fixtures and equipment
  - o Inventory of chlorofluorocarbon (CFC) and/or hydrochlorofluorocarbon (HCFC) cooling equipment
- Hazardous materials sample inventories including laboratory analytical data of bulk materials sampled
- Floorplan drawings indicating hazardous material sample locations

With regards to asbestos, PBS endeavored to locate all assessable suspect asbestos-containing materials (ACM) within the scope of work; however, suspect ACMs may be present and concealed inside energized and/or inaccessible equipment and interstitial wall, ceiling, or floor spaces. If suspect materials are uncovered during demolition or renovation activities that are not identified in this report, testing should be performed prior to impact. It should be noted that roof sampling was not performed as part of this survey. It is PBS' understanding that the roof was recently installed and will not be replaced as part of this project. If roof impacts are required to complete the scope of this renovation, sampling should be performed to determine asbestos content prior to impact. Lead paint sampling is representative of only major components within the building interior and exterior.

PBS has conducted a physical inspection of the site; compiled this report consistent with the survey scope; and certifies that the information is correct and accurate within the standards of professional quality and contractual obligations.

Joe Lucas, CIH Project Manager Accreditation Numbe	er: IR-22-3527B	Brian Wehner Industrial Hygienist / Prime Inspector Accreditation Number: IR-22-7306B	
Signature	Date	Signature	Date
©2022 PBS Engineering a	nd Environmental Inc.		



### **BACKGROUND**

Between August and September 2022, PBS Engineering and Environmental Inc. (PBS) performed a limited prerenovation hazardous building materials survey of Northrop Hall at the Washington Center for Deaf and Hard of Hearing Youth (CDHY) campus, located at 611 Grand Boulevard in Vancouver, Washington. The survey was requested by Washington State Department of Enterprise Services (DES) in anticipation of planned renovation activities.

The purpose of the survey was to identify regulated hazardous building materials prior to impact via renovation activities and satisfy the Washington State Department of Labor and Industries' requirement that a "good faith inspection" for asbestos-containing materials (ACM) be conducted prior to renovation and demolition activities. The survey is intended to satisfy Occupational Safety and Health Administration (OSHA) hazard communication requirements as well as requirements by the Washington Administrative Code (WAC) to perform an asbestos inspection prior to renovation or demolition activities under WAC 296-62-07721 and WAC 296-155-176.

During the survey, samples were collected of all accessible suspect ACM and representative lead-containing paint. Asbestos samples were submitted under chain of custody to Lab/Cor Inc. in Portland, Oregon, for polarized light microscopy (PLM) asbestos analysis. Paint chips were collected from representative building components to quantify lead content. Lead samples were submitted under chain of custody to RJ Lee Group in Monroeville, Pennsylvania, for analysis by flame atomic absorption spectrometry (FLAAS).

In addition, representative light fixtures were inspected for PCB-containing ballasts and mercury-containing vapor light tubes. Finally, hydrochlorofluorocarbon- (HCFC) or chlorofluorocarbon (CFC)-containing refrigeration equipment were quantified. Our findings are summarized below.

# **BUILDING DESCRIPTIONS**

Northrop Hall was constructed in 1952 and consists of a single, slab-on-grade, metal framed masonry building. Interior wall finishes include gypsum wallboard, ceramic tiles with grout and plaster. Floors are finished with vinyl floor tile, carpet, magnesite, wood, and finished concrete. Ceilings are comprised of 12-inch splined ceiling tiles, gypsum wallboard and plaster. Window assemblies are metal framed with single glass panes. A roofing replacement occurred in 2018 and a new Thermoplastic Polyolefin (TPO) singly-ply membrane appears to have been installed. It is unknown if the old roof was removed or remains in place under the TPO roof.

# **ASBESTOS SUMMARY**

Northrop Hall was inspected by a PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspector to determine the presence, location, and approximate quantity of ACM. 103 bulk samples of building materials, suspected of containing asbestos, were collected and submitted under chain of custody to Lab/Cor Portland Inc. of Portland, Oregon, for polarized light microscopy (PLM) analysis. The following materials were found to contain asbestos:

- Asbestos-containing pipe insulation with associated asbestos-containing mudded hard fittings were
  observed in mechanical rooms and are assumed to be concealed within interstitial wall, floor, and
  ceiling spaces. There is approximately 4,000 linear feet of this material throughout the building
- Asbestos-containing tank insulation was found on two boiler tanks in the basement mechanical room on the north side of the building. Approximately 300 square feet of this material was identified.
- Asbestos-containing cement asbestos board (CAB) panels are concealed in radiator units throughout the building. There is approximately 1,700 square feet of CAB paneling.



- Asbestos-containing 9" and 12" green vinyl floor tile with associated asbestos-containing black mastic on concrete throughout the main floor. This material was observed in exposed and concealed (under carpet) conditions. Roughly 8,000 square feet of this material was identified on the main floor.
- Asbestos-containing perimeter window caulking and glazing (located on interior and exterior of the windows) was observed on perimeter aluminum window walls throughout the classrooms. There are approximately 24 of these windows measuring 25'x8'.
- Asbestos-containing brown perimeter window caulking was observed on interior windows at the main office. There are approximately 3 of these windows measuring 7'x5'.
- Asbestos-containing frame sealant was identified on aluminum storefronts on the exterior of the building. There are approximately 2 storefronts measuring 20'x12'.
- Asbestos-containing black chalkboards were discovered in various classrooms. These black chalkboards
  may be concealed behind newer corkboards and white boards throughout the school. Approximately 20
  of these black chalkboards, measuring 8'x4', exist throughout the building.
- Less than 1% (<1%) asbestos-containing covebase mastic was found sporadically located throughout the building. This material was observed in a concealed condition under newer covebase systems.

Please refer to the asbestos materials inventory, asbestos bulk sample inventory, laboratory reports, and survey drawings for specific sample test results, descriptions, and locations.

# **Asbestos Regulations**

PBS recommends that all ACM to be impacted by the project be removed prior to demolition activities. A qualified Washington State licensed asbestos abatement contractor should be employed to remove all such ACM according to all applicable local, state, and federal regulations.

Materials containing <1% asbestos are not regulated by the Environmental Protection Agency (EPA), the Washington State Department of Ecology (Ecology), or the Southwest Clean Air Agency (SWCAA) and may be disposed of as general construction debris. However, workers impacting materials with <1% asbestos must adhere to OSHA and the Washington State Department of Labor and Industries (L&I) regulatory requirements. These requirements are outlined in WAC 296-62-17712 (2), 296-62-07722 (5), and 296-62-0728. These regulations outline training requirements, personal protective equipment, proper work practices and negative exposure assessment completion.

OSHA provides federal regulations governing asbestos (29 CFR Part 1926.1101). These regulations have made significant changes in work procedures and how ACM are removed. OSHA believes that the single biggest concern is for workers who unknowingly or improperly disturb ACM. Hazard communication, training, personal protection, work practices, exposure monitoring, and recordkeeping are all major components of the regulation. Work impacting asbestos is subject to the requirements of various regulations, including, but not limited to: 40 CFR Part 61, NESHAPS; 40 CFR Part 763, AHERA; WAC 296-62 and 296-65; and SWCAA.

# MATERIALS THAT TESTED NEGATIVE FOR ASBESTOS

The following materials tested negative based on Asbestos School Hazard Abatement Reauthorization Act (ASHARA) sampling minimums and testing by National Voluntary Laboratory Accreditation Program (NVLAP) participating laboratories. Although no asbestos was detected, it is possible that further sampling could indicate asbestos content.



Material	Location
Wall and Ceiling Plaster	Throughout survey scope of work area
9"x9" Red Vinyl Floor Tile with Associated Mastic	Classrooms throughout survey scope of work area
Various Colors and Sizes of Covebase	Classrooms throughout survey scope of work area
Black Sink Undercoating	First floor; teachers' lounge room 108 on stainless
Red Brick with Gray Mortar	Exterior of building
Gypsum and Joint Compound	Restroom ceilings
Magnesite Flooring	Throughout hallways of the survey scope of work area
Carpet Mastics (Various Colors)	Throughout survey scope of work area
Brown Corkboard Mastic	Throughout survey scope of work area
12"x12" Splined Ceiling Tiles	Throughout survey scope of work area
Ceramic Tile and Grout (Blue and Aqua)	Throughout hallways and restrooms of the survey scope of work area
Yellow Laminate Countertop Mastic	Casework and shelving throughout the building
Brown Vinyl Stair Tread and Mastic	First floor; south end of main hallway on magnesite flooring
Gray HVAC Seam Sealant	South mechanical room, around HVAC fan unit seams
White Mechanical Isolation Cloth	At HVAC ducting connections
Off-White Perimeter Window Frame Caulk	Second floor; elevator lobby, around interior perimeter of window frame
Off-White Pipe Vent Caulk	Second floor; south lower roof, around pipe vent
Gray Window Caulk	Second floor; south lower roof, exterior perimeter of vinyl window frame
Off-White Window Caulk	Second floor; south lower roof, exterior vinyl window frame and flashing
Gray Door Frame Caulk	First floor; north exterior door frame
Gray CMU Block	Northwest side of building; exterior mech room

# **LEAD SUMMARY**

Paint was sampled for lead content for the sake of hazard communication. Six paint chip samples were collected from representative building components from painted interior and exterior building components. Samples were submitted under chain of custody to RJ Lee Group of Monroeville, Pennsylvania, for analysis of lead content via flame atomic absorption (FLAA). Lead analysis results revealed that lead is present in all six submitted samples, with concentrations ranging from 0.779 to 33,300 parts per million (ppm).

See the lead sample inventory section of this report for representative building components and corresponding results. Additionally, refer to the hazardous materials survey drawings for sample locations and additional information. The paint testing conducted for this survey was limited in scope. The report information and testing



results are not to be considered an exhaustive investigation of lead-containing paint on all building surfaces. All painted surfaces not identified in this report should be presumed to contain lead.

# **Lead-Containing Paint Regulations**

The Consumer Product Safety Commission limit for lead in consumer paint products is 0.009 percent or 90 ppm or greater. The Department of Housing and Urban Development (HUD) and the EPA define lead-based paint as that which contains 0.5% or 5,000 ppm. Under OSHA, any lead concentration in paint that may become airborne during construction operations triggers requirements in the OSHA Lead in Construction Standard 29 CFR 1926.62 to protect employees impacting the paint.

Washington L&I regulations for Lead in Construction (WAC 296-62-155) govern the impact of painted surfaces with detectable concentrations of lead. The WAC standard outlines worker exposure limits, personal protection requirements, and employer responsibility for exposure assessment, training, housekeeping, and recordkeeping. OSHA's Lead in Construction Standard applies to all work where employees may be exposed to lead in construction, alteration, or repair activities. This includes demolition of structures where lead-containing materials are present.

# Disposal

Under WAC 173-303 Dangerous Waste Regulations, waste characterization should be performed via Toxicity Characteristic Leaching Procedure in accordance with EPA Method 1311 for waste streams suspected of containing lead prior to disposal. Refer to the WAC Dangerous Waste Regulations for proper disposal of lead-based painted demolition waste.

# POLYCHLORINATED BIPHENYLS (PCBS) SUMMARY

PBS inspected representative light fixture ballasts throughout the buildings and discovered a variety of ballasts including newer electronic ballasts and older magnetic ballasts. Electronic ballasts do not have potential PCB-containing oil, however, magnetic ballasts may. Because of the limited nature of the light fixture ballast investigation, PBS recommends that all light fixture ballasts be inspected prior to demolition activities. Magnetic ballasts, regardless of "No PCBs" labeling, should be presumed to contain PCBs and be properly removed, stored, transported, and disposed of in accordance with applicable regulations. Approximately 50 PCB-containing light fixture ballasts are anticipated to be present throughout the buildings. If there is visual evidence that a ballast is PCB-containing or there is suspicion of a PCB leak or spill, a qualified contractor should handle and dispose of the light ballast and contaminated fixtures.

# **PCB Regulations**

In 1976, Congress banned PCB manufacturing in the United States due to their toxic effects. In July 1979, EPA phased out the processing and use of PCBs, except in totally enclosed equipment. Some sealants installed before the 1976 ban or after 1979 may contain PCBs. EPA prohibits the use or continued use of bulk products that contain 50 ppm or greater PCBs in accordance with 40 Code of Federal Regulations (CFR), Part 761. In addition, EPA requires disposal of these materials in accordance with 40 CFR, section 761.62 - Disposal of PCB Bulk Product Waste.

PBS recommends that all PCB-containing materials and equipment be removed and disposed of in accordance with applicable regulations including 40 CFR Part 761 and appropriate EPA Guidance documents. All potential PCB handling and disposal should be performed by trained and experienced hazardous materials remediation professionals using appropriate engineering controls and work practices, in accordance with all applicable local, state and federal regulations pending an initial exposure assessment. See project specifications and drawings regarding the project requirements for PCB handling and disposal.



# **MERCURY SUMMARY**

Fluorescent light tubes and High Intensity Discharge (HID) lights are suspected of containing mercury vapors. Approximately 800 fluorescent light tubes were inventoried in the building. Fluorescent light tubes should be carefully handled, packaged, and recycled in the appropriate manner.

# **Mercury Regulations**

Please refer to the following documents for requirements for removal and disposal of mercury-containing equipment:

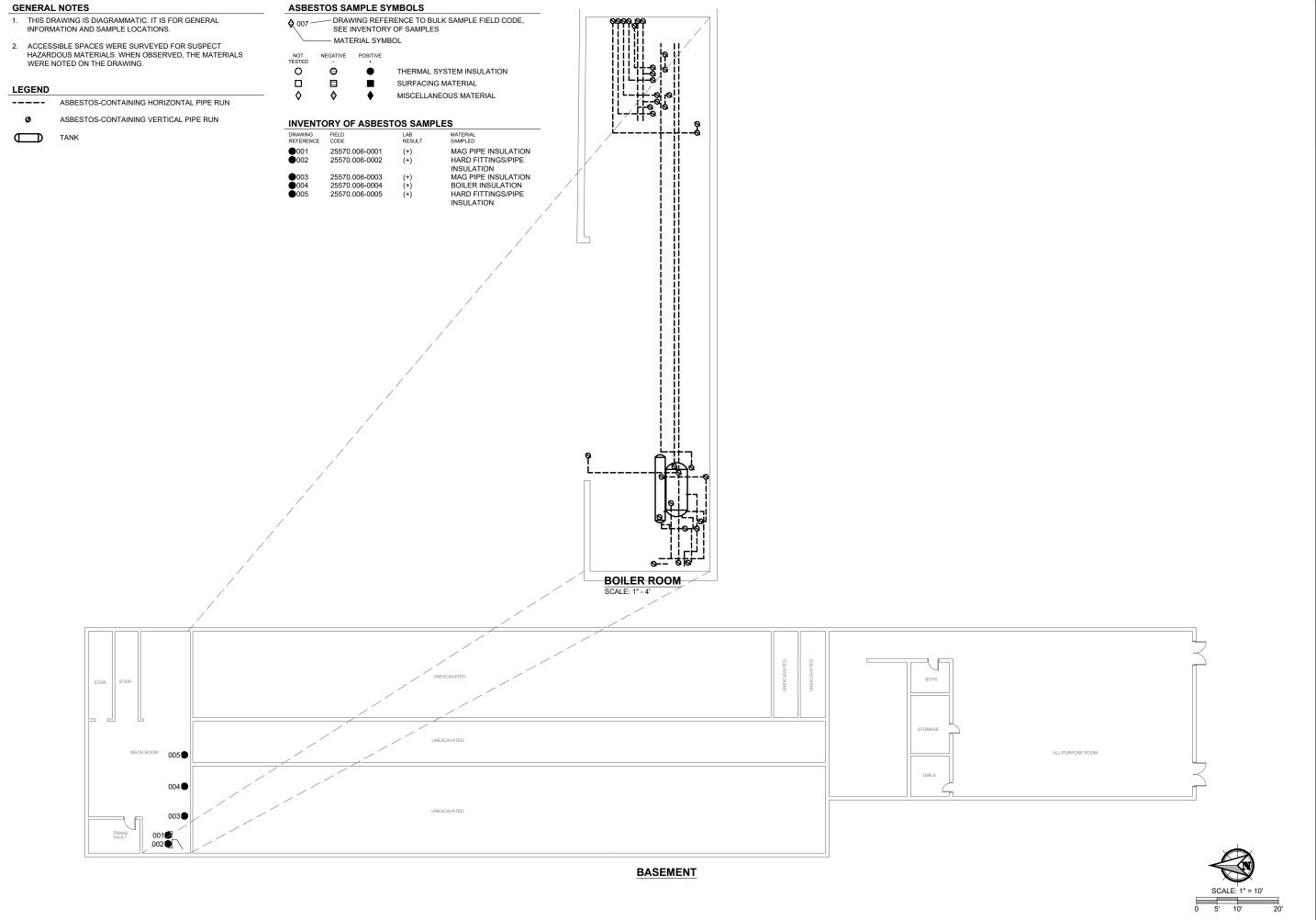
- 1. US Department of Labor, Occupational Safety and Health Administration (OSHA)
- 2. RCRA, Resource Conservation and Recovery Act, 40 CFR Part 2761, Subpart D., 40 CFR 273

# **Hydrochloro-/Chlorofluorocarbon-Containing Equipment**

PBS observed refrigeration appliances, window air conditioning units in all classrooms in the building. This equipment potentially contains refrigerant (Freon) that may contain HCFC or CFC which contributes to ozone depletion and is regulated by Ecology. PBS recommends that all working refrigeration and cooling devices be recycled whole or refrigerants are evacuated and recovered prior to demolition and disposal. Those devices that will be demolished can be sent to a recycling facility where the refrigerant, oils, and metals can be recovered and recycled or disposed of appropriately.

This report is not suitable as a bid document or an asbestos abatement design. The purpose of this report is risk hazard communication only.





PREPARED FOR: WASHINGTON DEPARTMENT OF ENTERPRISE SERVICES

SHEET DRAWING NO: HS<sub>1</sub> HEET 1 OF 3

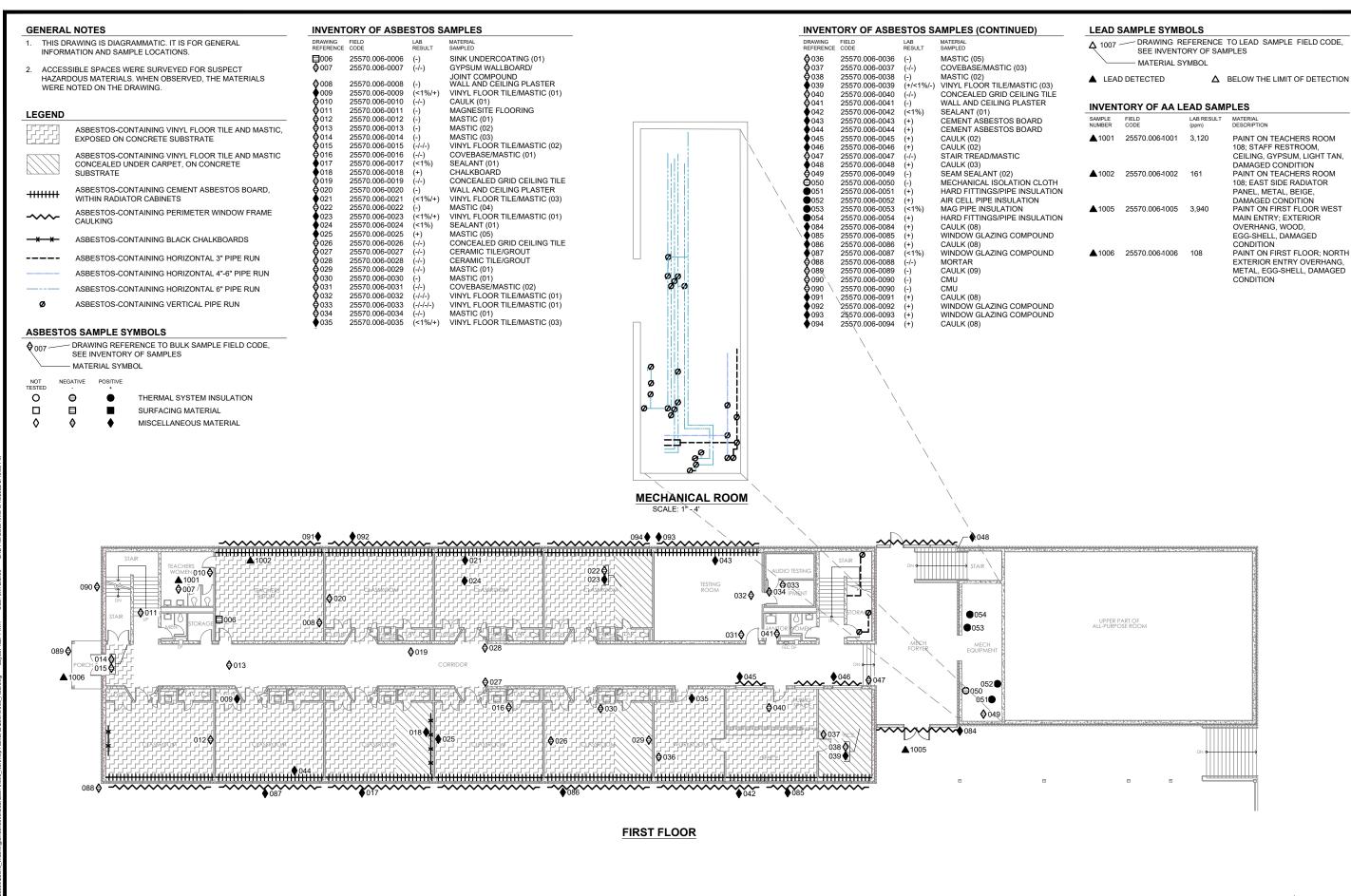
PROJECT NUMBER: 25570.006

DRAWN BY JAB CHECKED: DATE: SEPTEMBER 2022

WASHINGTON CENTER FOR DEAF AND HARD OF HEARING

611 GRAND BOULEVARD, VANCOUVER, WASHINGTON

HAZARDOUS MATERIAL SURVEY PLAN - NORTHROP HALL



SCALE: 1" = 10'

PREPARED FOR: WASHINGTON DEPARTMENT OF ENTERPRISE SERVICES

WASHINGTON CENTER FOR DEAF AND HARD OF HEARING HAZARDOUS MATERIAL SURVEY PLAN - NORTHROP HALL WASHINGTON VANCOUVER, BOULEVARD, GRAND

611

DRAWN BY JAB CHECKED

DATE: SEPTEMBER 2022 PROJECT NUMBER: 25570.006

SHEET DRAWING NO HS<sub>2</sub> HEET 2 OF 3

ASBESTOS-CONTAINING CEMENT ASBESTOS BOARD, ++++++++ WITHIN RADIATOR CABINETS

ASBESTOS-CONTAINING PERIMETER WINDOW FRAME

ASBESTOS-CONTAINING BLACK CHALKBOARDS

# ASBESTOS SAMPLE SYMBOLS

- DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES MATERIAL SYMBOL

NEGATIVE 0

 $\Theta$  $\Diamond$ 

THERMAL SYSTEM INSULATION SURFACING MATERIAL MISCELLANEOUS MATERIAL

### **INVENTORY OF ASBESTOS SAMPLES**

25570.006-0083 (-

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
<b>4</b> 055	25570.006-0055	(-/-)	VINYL FLOOR TILE/MASTIC (01)
♦ 056	25570.006-0056	(+/-)	CEMENT ASBESTOS BOARD
♦ 057	25570.006-0057	(<1%)	SEALANT (01)
<b>4</b> 058	25570.006-0058	(-)	COVEBASE/MASTIC (01)
<b>4</b> 059	25570.006-0059	(-)	MASTIC (01)
<b>4</b> 060	25570.006-0060	(-/-)	CONCEALED GRID CEILING TILE
<b>4</b> 061	25570.006-0061	(-)	CAULK (04)
<b>\$</b> 062	25570.006-0062	(-)	COVEBASE/MASTIC (04)
<b>Ģ</b> 063	25570.006-0063	(-/-)	MECHANICAL ISOLATION CLOTH
<b>Q</b> 064	25570.006-0064	(-/-)	VINYL FLOOR TILE/MASTIC (04)
<b>♦</b> 065	25570.006-0065	(+)	CHALKBOARD
<b>\$</b> 066	25570.006-0066	(-)	WALL AND CEILING PLASTER
<b>Q</b> 067	25570.006-0067	(-/-)	COVEBASE/MASTIC (05)
<b>\$</b> 068	25570.006-0068	(-)	MASTIC (05)
<b>Q</b> 069	25570.006-0069	(-/-)	VINYL FLOOR TILE/MASTIC (04)
<b>070</b>	25570.006-0070	(+)	WINDOW GLAZING COMPOUND
<b>Q</b> 071	25570.006-0071	(-)	MASTIC (06)
<b>Q</b> 072	25570.006-0072	(-)	WALL AND CEILING PLASTER
<b>Q</b> 073	25570.006-0073	(+)	WINDOW GLAZING COMPOUND
<b>Q</b> 074	25570.006-0074	(-)	VINYL FLOOR TILE/MASTIC (05)
<b>Q</b> 075	25570.006-0075	(-)	CONCEALED GRID CEILING TILE
<b>\$</b> 076	25570.006-0076	(-/-/-)	VINYL FLOOR TILE/MASTIC (04)
<b>077</b>	25570.006-0077	(<1%)	MASTIC (07)
<b>Q</b> 078	25570.006-0078	(-)	CONCEALED GRID CEILING TILE
<b>079</b>	25570.006-0079	(+)	WINDOW GLAZING COMPOUND
<b>Q</b> 080	25570.006-0080	(-)	MAG PIPE INSULATION
<b>Q</b> 081	25570.006-0081	(-)	CAULK (05)
<b>Q</b> 082	25570.006-0082	(-)	CAULK (06)

CAULK (07)

# LEAD SAMPLE SYMBOLS

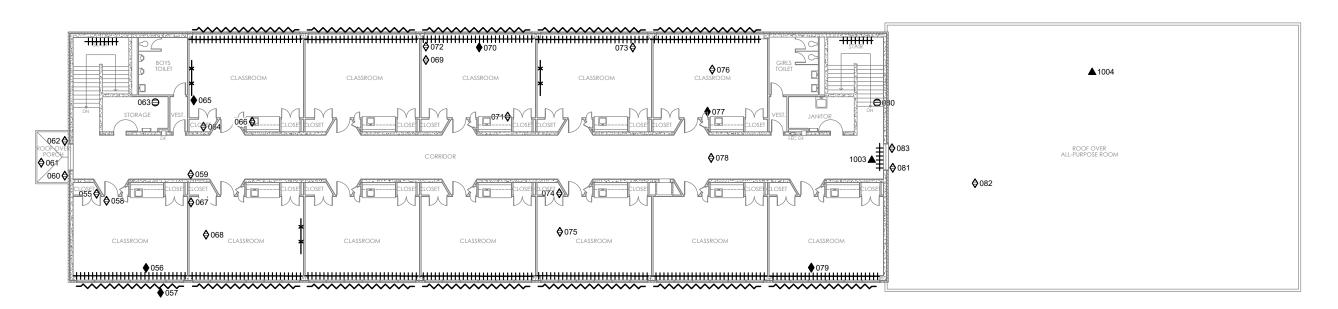
△ 1007 — DRAWING REFERENCE TO LEAD SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES - MATERIAL SYMBOL

▲ LEAD DETECTED

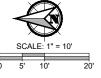
△ BELOW THE LIMIT OF DETECTION

# (02) INVENTORY OF AA LEAD SAMPLES

SAMPLE NUMBER	FIELD CODE	LAB RESULT (ppm)	MATERIAL DESCRIPTION
▲1003	25570.006-1003	6,450	PAINT ON SECOND FLOOR HALLWAY; FAR SOUTH END, RADIATOR PANEL, METAL, GRAY/BLUE, DAMAGED CONDITION
▲1004	25570.006-1004	16,100	PAINT ON SECOND FLOOR SOUTH LOWER ROOF; ROOF VENT, METAL, OFF-WHITE, DAMAGED CONDITION



**SECOND FLOOR** 



PREPARED FOR: WASHINGTON DEPARTMENT OF ENTERPRISE SERVICES

WASHINGTON CENTER FOR DEAF AND HARD OF HEARING HAZARDOUS MATERIAL SURVEY PLAN - NORTHROP HALL 611 GRAND BOULEVARD, VANCOUVER, WASHINGTON

DRAWN BY JAB CHECKED:

DATE: SEPTEMBER 2022 PROJECT NUMBER: 25570.006 SHEET DRAWING NO:

HS<sub>3</sub> SHEET **3** OF **3** 

<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0001	Mag Pipe Insulation	on	Basement; southeast corner, pipe brown 4" return line	insulation, white, from	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	fibrous powder, white/brown	3% Chrysotile, 6% Amosite	Э
25570.006-0002	Hard Fittings/Pipe	Insulation	Basement; southeast corner, hard 6" steam line	I fitting, white, from gray	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	fibrous powder, white/brown	4% Chrysotile, 9% Amosite	9
25570.006-0003	Mag Pipe Insulation	on	Basement; southeast corner, pipe gray 3" line	e insulation, white, from	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	fibrous material, brown/gray	3% Chrysotile	
25570.006-0004	Boiler Insulation		Basement; southeast corner, large	e tank insulation, white	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	fibrous powder, white/brown	4% Chrysotile, 9% Amosite	9
25570.006-0005	Hard Fittings/Pipe	Insulation	Basement; middle of east wall, ha	ard fitting, white, off of	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	fibrous powder, white/brown	4% Chrysotile, 9% Amosite	9
25570.006-0006	Sink Undercoating	<b>j</b> (01)	First floor; teachers room, 108, or undercoating	n stainless sink, black sink	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	loose mastic, black	No Asbestos Detected	
25570.006-0007	Gypsum Wallboar Compound	d/Joint	First floor; teachers room, 108, st white wallboard with white comp		Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	hard compact powder, off- white	No Asbestos Detected	
		Layer 02	granular compact powder, white	No Asbestos Detected	
25570.006-0008	Wall and Ceiling P	laster	First floor; teachers room, 108, so wall plaster	outh wall, gray, granular	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	loose granular powder, gray	No Asbestos Detected	



<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>	
25570.006-0009	Vinyl Floor Tile/M	lastic (01)		First floor; classroom 107, closet, on concrete, 9" by 9" green vinyl floor tile with black mastic		
		Layer:	Description:	Analysis:		
		Layer 01	hard vinyl, green	<1% Chrysotile		
		Layer 02	mastic, black	2% Chrysotile		
25570.006-0010	Caulk (01)		First floor; teachers room, 108, s perimeter wood door frame, wh		Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 01	rubbery material, white	No Asbestos Detected		
		Layer 02	powdery particulate, green	No Asbestos Detected		
25570.006-0011	Magnesite Floorin	ng	First floor; north stairwell, gray speckled magnesite flooring		Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 1	loose granular material, white/tan/gray	No Asbestos Detected		
25570.006-0012	Mastic (01)		First floor; classroom 109, south on plaster, brown, flaky mastic	wall, behind corkboard,	Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 1	loose granular material, white with mastic, brown	No Asbestos Detected		
25570.006-0013	Mastic (02)		First floor; north end of hallway, magnesite, light yellow carpet m	•	Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 1	mastic, white	No Asbestos Detected		
25570.006-0014	Mastic (03)		First floor; north entry, under way	ılk off carpet, on vinyl tile,	Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 1	mastic, brown/tan	No Asbestos Detected		
25570.006-0015	Vinyl Floor Tile/M	lastic (02)	First floor; north entry, under wa 12" by 12" green vinyl	alk off carpet, on concrete,	Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 01	coating, black/off-white	No Asbestos Detected		
		Layer 02	hard vinyl, light green	No Asbestos Detected		
		Layer 03	mastic, yellow	No Asbestos Detected		



<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>	
25570.006-0016	Covebase/Mastic	(01)	First floor; classroom 105, east w brown mastic	First floor; classroom 105, east wall, black covebase with brown mastic		
		Layer:	Description:	Analysis:		
		Layer 01	rubbery material, brown	No Asbestos Detected		
		Layer 02	mastic, brown	No Asbestos Detected		
25570.006-0017	Sealant (01)		First floor; classroom 105, west window sealant	vindows, white/gray, firm	Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 1	hard compact powder, off- white	<1% Chrysotile		
25570.006-0018	Chalkboard		First floor; classroom 105, south	wall, black chalkboard	Lab Cor	
2557 01000 0010	C.iamsoura	Layer:	Description:	Analysis:	20.0 00.	
		Layer 1	fibrous cement, gray	8% Chrysotile		
25570.006-0019	25570.006-0019 Concealed Grid Ceiling Tile		First floor; hallway outside room 106, 12" by 12" splined ceiling tile, off-white		Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 01	coating, tan	No Asbestos Detected		
		Layer 02	compressed fibers, gray	No Asbestos Detected		
25570.006-0020	Wall and Ceiling F	Plaster	First floor; classroom 106, gray p corkboard	plaster wall behind	Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 1	granular compact powder, gray/white	No Asbestos Detected		
25570.006-0021	Vinyl Floor Tile/M	astic (03)	First floor; classroom 104, on covinyl floor tile with black mastic	ncrete, 12" x 12" green	Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 01	hard vinyl, green	<1% Chrysotile		
		Layer 02	mastic, black	4% Chrysotile		
25570.006-0022	Mastic (04)		First floor; classroom 102, under vinyl tile, orange/yellow carpet r	, , ,	Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 1	loose mastic, tan	No Asbestos Detected		



<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>	
25570.006-0023	Vinyl Floor Tile/Ma	astic (01)	First floor; classroom 102, 9" by 9 with black mastic	First floor; classroom 102, 9" by 9" green vinyl floor tile with black mastic		
	Layer:		Description:	Analysis:		
		Layer 01	hard vinyl, green	<1% Chrysotile		
		Layer 02	mastic, black	3% Chrysotile		
25570.006-0024	Sealant (01)		First floor; classroom 104, east w window sealant	indows, white/gray, firm	Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 1	hard compact powder, gray	<1% Chrysotile		
25570.006-0025	Mastic (05)		First floor; classroom 103, north mastic	wall, black covebase	Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 1	hard compact material, black/tan	5% Chrysotile		
25570.006-0026	5570.006-0026 Concealed Grid Ceiling Tile		First floor; classroom 101, 12" by 12" splined ceiling tile, off-white		Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 01	coating, off-white	No Asbestos Detected		
		Layer 02	compressed fibers, gray	No Asbestos Detected		
25570.006-0027	Ceramic Tile/Grou	t	First floor; hallway outside classroom 103, aqua 2" by 2" ceramic wall tile		Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 01	ceramic material, off-white	No Asbestos Detected		
		Layer 02	hard compact material, green	No Asbestos Detected		
25570.006-0028	Ceramic Tile/Grou	t	First floor; hallway outside classroom 104, blue 2" by 2" ceramic wall tile with gray grout		Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 01	ceramic material, green/tan	No Asbestos Detected		
		Layer 02	hard compact powder, white	No Asbestos Detected		
25570.006-0029	Mastic (01)		First floor; classroom 101, brown on south wall	mastic behind corkboard	Lab Cor	
		Layer:	Description:	Analysis:		
		Layer 01	cork material, brown	No Asbestos Detected		
		Layer 02	granular mastic material, brown/white	No Asbestos Detected		



<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0030	Mastic (01)		First floor; classroom 101, east w brown mastic	Lab Cor	
		Layer:	Description:	Analysis:	
		Layer 1	granular mastic material, brown/white	No Asbestos Detected	
25570.006-0031	Covebase/Mastic	(02)	First floor; testing room 122, wes covebase with brown mastic	t hall, 4" brown vinyl	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	rubbery material, brown	No Asbestos Detected	
		Layer 02	mastic, brown with fine compact powder, off-white	No Asbestos Detected	
25570.006-0032	Vinyl Floor Tile/M	astic (01)	First floor; testing room 122, sou concrete, 9" by 9" red vinyl floor	•	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	mastic, tan	No Asbestos Detected	
		Layer 02	hard vinyl, red	No Asbestos Detected	
		Layer 03	cementitious material, gray	No Asbestos Detected	
25570.006-0033	033 Vinyl Floor Tile/Mastic (01)		First floor; room 121, middle of room, under carpet, on concrete, 9" by 9" red vinyl floor tile with black mastic		Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	mastic, tan	No Asbestos Detected	
		Layer 02	hard vinyl, red	No Asbestos Detected	
		Layer 03	cementitious material, gray	No Asbestos Detected	
		Layer 04	fine compact powder, off-white	No Asbestos Detected	
25570.006-0034	Mastic (01)		First floor; room 121, behind carp mastic, brown corkboard, brown		Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	vinyl, tan	No Asbestos Detected	
		Layer 02	mastic, brown with coating, off- white	No Asbestos Detected	
25570.006-0035	Vinyl Floor Tile/M	astic (03)	First floor; workroom 112, east si floor tile with black mastic on co	, ,	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	hard vinyl, green	<1% Chrysotile	
		Layer 02	mastic, black	2% Chrysotile	



<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0036	Mastic (06)		First floor; workroom 112, north s laminate, yellow mastic	Lab Cor	
		Layer:	Description:	Analysis:	
		Layer 1	loose particulate, brown	No Asbestos Detected	
25570.006-0037	Covebase/Mastic	(03)	First floor; principal's office, north covebase with yellow mastic	n wall, 6" light brown	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	coating, off-white/green	No Asbestos Detected	
		Layer 02	rubbery material, brown	No Asbestos Detected	
25570.006-0038	Mastic (02)		First floor; principal's office, north yellow carpet mastic	n carpet, on vinyl tile,	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	loose particulate, off-white with mastic, brown	No Asbestos Detected	
25570.006-0039 Vinyl Floor Tile/Mastic (03)		astic (03)	First floor; principal's office, north carpet, on concrete, green vinyl floor tile with black mastic		Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	mastic, black	2% Chrysotile	
		Layer 02	hard vinyl, green	<1% Chrysotile	
		Layer 03	mastic, tan	No Asbestos Detected	
25570.006-0040	Concealed Grid Co	eiling Tile	First floor; main office, 12" by 12' tile	off-white splined ceiling	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	coating, tan	No Asbestos Detected	
		Layer 02	compressed fibers, gray	No Asbestos Detected	
25570.006-0041	Wall and Ceiling P	laster <b>Layer:</b>	First floor; janitor closet, west wa <b>Description:</b>		Lab Cor
		Layer 1	loose granular powder, white/gray	No Asbestos Detected	
25570.006-0042	Sealant (01)		First floor; main office, northwest window sealant	window, white/gray, firm	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	hard compact powder, gray	<1% Chrysotile	



25570.006-0048   Cement Asbestos Board   First floor; testing room 122, east side, in radiator unit, gray/white cement asbestos board panel   Description:   Analysis:   8% Chrysotile   Analysis:   8% Chrysotile   Analysis:   8% Chrysotile   Analysis:   8% Chrysotile   25570.006-0044   Cement Asbestos Board   Pirst floor; classroom 107, west side, in radiator unit, gray/white cement asbestos board panel   Description:   Analysis:   A	<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>
Layer 1 fibrous cement, gray 8% Chrysotile  25570.006-0044 Cement Asbestos Board gray/white cement asbestos board panel  Layer: Description: Analysis:	25570.006-0043	Cement Asbestos	Board	3		Lab Cor
September   Sept			Layer:	Description:	Analysis:	
Layer:   Description:   Descriptio			Layer 1	fibrous cement, gray	8% Chrysotile	
Layer 1 fibrous cement, gray 8% Chrysotile  25570.006-0045 Caulk (02)  Layer: Description: Analysis: Layer 1 hard compact material, gray/brown  25570.006-0046 Caulk (02)  Layer: Description: Analysis: Layer 1 hard compact material, gray/brown  Layer: Description: Analysis: Layer 1 hard compact material, gray/brown  Layer: Description: Analysis: Layer 1 hard compact material, gray/brown  25570.006-0047 Stair Tread/Mastic  Layer: Description: Analysis: Layer: Description: Analysis: Layer 01 prown vinyl stair tread with yellow mastic Layer 02 mastic, white No Asbestos Detected mastic, white No Asbestos Detected  25570.006-0048 Caulk (03)  Layer: Description: Analysis: Layer 02 mastic, white No Asbestos Detected perimeter of window system, between metal frame & brick, dark gray, firm, caulking Layer: Description: Analysis: Layer 1 hard compact material, gray/brown  25570.006-0048 Caulk (03)  Layer: Description: Analysis: Layer 1 hard compact material, gray/brown  25570.006-0049 Seam Sealant (02)  Seam Sealant (02)  First floor; south side of building, east entry, around perimeter of window system, between metal frame & brick, dark gray, firm, caulking Layer: Description: Analysis: Layer 1 hard compact material, gray No Asbestos Detected  25570.006-0049 Seam Sealant (02)  Layer: Description: Analysis: Layer 1 rubbery material, gray No Asbestos Detected  25570.006-0050 Mechanical Isolation Cloth Layer: Description: Analysis: Layer 1 rubbery material, gray No Asbestos Detected  25570.006-0050 Mechanical Isolation Cloth Layer: Description: Analysis:	25570.006-0044	Cement Asbestos	Board			Lab Cor
Layer   Description:   Analysis:   Layer 0   Layer 0   Description:   Analysis:   Layer 1   hard compact material, gray/brown   Stair Tread/Mastic   Layer 1   Layer 1   hard compact material, gray/brown   Stair Tread/Mastic   Layer 0   Pescription:   Analysis:   Layer 0   prown vinyl stair tread with yellow mastic   Layer 0   prown vinyl stair tread with yellow mastic   Layer 0   prown vinyl stair tread with yellow mastic   Layer 0   prown vinyl stair tread with yellow mastic   No Asbestos Detected   Pescription:   Analysis:   Layer 0   Pescription:   Analysis:   hard compact material, gray, firm, caulking   Seam Sealant (02)   Pescription:   Analysis:   Layer 1   prown yellow prown yellow; firm, caulking   Pescription:   Analysis:   Layer 1   prown yellow; firm, gray   No Asbestos Detected   Laber   Pescription:   Analysis:   Laber 0   Pescription:   Laber 0   Pescription:   Analysis:   Laber 0   Pescription:   An			Layer:	Description:	Analysis:	
Layer:   Description:   Analysis:   Layer:   Description:   Analysis:   S% Chrysotile   S570.006-0046   Caulk (02)   First floor; outside principal's office on west wall around perimeter of metal window, brown, firm, window caulking   Layer:   Description:   Analysis:   Analysis:			Layer 1	fibrous cement, gray	8% Chrysotile	
Layer 1 hard compact material, gray/brown  25570.006-0046 Caulk (02)  Layer: Description: Analysis: Layer 1 hard compact material, gray/brown  Layer: Description: Analysis: Layer 1 hard compact material, gray/brown  25570.006-0047 Stair Tread/Mastic Layer: First floor; south side of hallway, stairs, on magnesite, brown vinyl stair tread with yellow mastic Layer 01 rubbery material, brown No Asbestos Detected mastic, white No Asbestos Detected No Asbestos Detected  25570.006-0048 Caulk (03)  First floor; south side of building, east entry, around perimeter of window system, between metal frame & brick, dark gray, firm, caulking  Layer: Description: Analysis: Layer 1 hard compact material, gray/brown  25570.006-0049 Seam Sealant (02)  First floor; south mechanical room, around HVAC unit seams, gray, flexible caulking  Layer: Description: Analysis: Layer 1 rubbery material, gray No Asbestos Detected  25570.006-0050 Mechanical Isolation Cloth First floor; south mechanical room, on HVAC duct joint, white, woven, mechanical insulation cloth Analysis: Lab Corporation: Analysis:  Lab Corporation: Analysis: Lab Corporation: Analysis:  Lab Corporation: Analysis:  Lab Corporation: Analysis:	25570.006-0045	Caulk (02)				Lab Cor
25570.006-0046 Caulk (02)  Layer: Layer 1 bard compact material, gray/brown  25570.006-0047 Stair Tread/Mastic Layer 0 Description: Layer 1 bard compact material, gray/brown  25570.006-0047 Stair Tread/Mastic Layer 1 brown vinyl stair tread with yellow mastic Layer 10 rubbery material, brown No Asbestos Detected Layer 02 mastic, white No Asbestos Detected No Asbestos Detected  25570.006-0048 Caulk (03)  Layer: Description: Analysis: Layer 10 rubbery material, brown No Asbestos Detected Sprink, dark gray, firm, caulking Layer: Description: Analysis: Layer 1 bard compact material, gray/brown  25570.006-0049 Seam Sealant (02) First floor; south mechanical room, around HVAC unit seams, gray, flexible caulking Layer: Description: Analysis: Layer 1 rubbery material, gray No Asbestos Detected  Analysis: Layer 1 rubbery material, gray No Asbestos Detected  25570.006-0050 Mechanical Isolation Cloth First floor; south mechanical room, on HVAC duct joint, white, woven, mechanical insulation cloth Analysis:			Layer:	Description:	Analysis:	
Layer:   Description:   Analysis:   Lab Cor gray/brown   Stair Tread/Mastic   Layer 1   hard compact material, gray/brown   Stair Tread/Mastic   First floor; south side of hallway, stairs, on magnesite, brown vinyl stair tread with yellow mastic   Layer 01   rubbery material, brown   No Asbestos Detected   No Asbestos			Layer 1	•	5% Chrysotile	
Layer 1 hard compact material, gray/brown  Stair Tread/Mastic First floor; south side of hallway, stairs, on magnesite, brown vinyl stair tread with yellow mastic  Layer: Description: Analysis:  Layer 01 rubbery material, brown No Asbestos Detected mastic, white No Asbestos Detected No Asbestos Detected  25570.006-0048 Caulk (03)  First floor; south side of building, east entry, around perimeter of window system, between metal frame & brick, dark gray, firm, caulking  Layer: Description: Analysis:  Layer 1 hard compact material, 6% Chrysotile gray/brown  Seam Sealant (02)  First floor; south mechanical room, around HVAC unit seams, gray, flexible caulking  Layer: Description: Analysis:  Layer 1 rubbery material, gray No Asbestos Detected  25570.006-0050 Mechanical Isolation Cloth First floor; south mechanical room, on HVAC duct joint, white, woven, mechanical insulation cloth Analysis:  Lab Cor	25570.006-0046	Caulk (02)				Lab Cor
25570.006-0047 Stair Tread/Mastic First floor; south side of hallway, stairs, on magnesite, brown vinyl stair tread with yellow mastic  Layer: Description: Analysis: Layer 01 rubbery material, brown No Asbestos Detected No Asbestos Detected No Asbestos Detected No Asbestos Detected  25570.006-0048 Caulk (03)  Layer: Description: Analysis: Layer 1 hard compact material, gray/brown  25570.006-0049 Seam Sealant (02)  Layer: Description: Analysis: Layer 1 hard compact material, gray/brown  25570.006-0049 Seam Sealant (02)  Layer: Description: Analysis: Layer 1 rubbery material, gray No Asbestos Detected  25570.006-0050 Mechanical Isolation Cloth Layer: First floor; south mechanical room, around HVAC duct joint, white, woven, mechanical insulation cloth Layer: Description: Analysis: Lab Cor white, woven, mechanical insulation cloth Layer: Description: Analysis:  Lab Cor white, woven, mechanical insulation cloth Layer: Description: Analysis:			Layer:	Description:	Analysis:	
brown vinyl stair tread with yellow mastic  Layer: Description: Analysis: Layer 01 rubbery material, brown No Asbestos Detected  Eayer 02 mastic, white No Asbestos Detected  Layer 03 perimeter of window system, between metal frame & brick, dark gray, firm, caulking  Layer: Description: Analysis: Layer 1 hard compact material, gray Analysis: Eayer 1 perimeter of window system, between metal frame & brick, dark gray, firm, caulking  Layer 1 hard compact material, gray Bescription: Analysis: Layer: Description: Analysis: Layer: Description: Analysis: Layer: Description: Analysis: Lab Cor white, woven, mechanical room, on HVAC duct joint, white, woven, mechanical insulation cloth Analysis:			Layer 1	·	6% Chrysotile	
Layer 01 rubbery material, brown No Asbestos Detected No Asbestos Detected  25570.006-0048 Caulk (03)  First floor; south side of building, east entry, around perimeter of window system, between metal frame & brick, dark gray, firm, caulking  Layer: Description: Analysis:  Layer 1 hard compact material, gray/brown  25570.006-0049 Seam Sealant (02)  First floor; south mechanical room, around HVAC unit seams, gray, flexible caulking  Layer: Description: Analysis:  Layer 1 rubbery material, gray No Asbestos Detected  25570.006-0050 Mechanical Isolation Cloth  First floor; south mechanical room, on HVAC duct joint, white, woven, mechanical insulation cloth  Layer: Description: Analysis:	25570.006-0047	Stair Tread/Mastic				Lab Cor
Layer 02 mastic, white No Asbestos Detected  25570.006-0048 Caulk (03)  First floor; south side of building, east entry, around perimeter of window system, between metal frame & brick, dark gray, firm, caulking  Layer: Description: Analysis:  Layer 1 hard compact material, gray/brown  25570.006-0049 Seam Sealant (02)  First floor; south mechanical room, around HVAC unit seams, gray, flexible caulking  Description: Analysis:  Layer 1 rubbery material, gray  No Asbestos Detected  25570.006-0050 Mechanical Isolation Cloth Layer: Description: Analysis:  Layer: Analysis:  Lab Cor  Analysis:  Lab Cor  Analysis:			Layer:	Description:	Analysis:	
25570.006-0048 Caulk (03)  Layer:  Layer 1  Pescription:  Layer 1  Pescription:  Layer:  Description:  Layer:  Layer:  Description:  Layer:  Layer:  Description:  Layer:  Layer:  Description:  Layer:  Layer:  Layer:  Description:  Layer:  Layer:  Description:  Layer:  Layer:  Description:  Layer:  Layer:  Description:  Layer:  Description:  Analysis:  Layer:  Layer:  Layer:  Description:  Analysis:  Layer:  Layer:  Description:  Analysis:  Layer:  Layer:  Description:  Layer:  Description:  Analysis:  Lab Cor  Analysis:			Layer 01	rubbery material, brown	No Asbestos Detected	
perimeter of window system, between metal frame & brick, dark gray, firm, caulking  Layer: Description: Analysis: Layer 1 hard compact material, gray/brown  25570.006-0049 Seam Sealant (02) First floor; south mechanical room, around HVAC unit seams, gray, flexible caulking  Layer: Description: Analysis: Layer 1 rubbery material, gray No Asbestos Detected  25570.006-0050 Mechanical Isolation Cloth Layer: Description: Analysis:  Layer: Analysis:  Lab Cor white, woven, mechanical room, on HVAC duct joint, white, woven, mechanical insulation cloth  Layer: Description: Analysis:			Layer 02	mastic, white	No Asbestos Detected	
Layer 1 hard compact material, 6% Chrysotile gray/brown  25570.006-0049 Seam Sealant (02) First floor; south mechanical room, around HVAC unit seams, gray, flexible caulking  Layer: Description: Analysis: Layer 1 rubbery material, gray No Asbestos Detected  25570.006-0050 Mechanical Isolation Cloth First floor; south mechanical room, on HVAC duct joint, white, woven, mechanical insulation cloth  Layer: Description: Analysis:	25570.006-0048	Caulk (03)		perimeter of window system, b		Lab Cor
25570.006-0049 Seam Sealant (02) First floor; south mechanical room, around HVAC unit seams, gray, flexible caulking  Layer: Description: Analysis: Layer 1 rubbery material, gray No Asbestos Detected  25570.006-0050 Mechanical Isolation Cloth First floor; south mechanical room, on HVAC duct joint, white, woven, mechanical insulation cloth  Layer: Description: Analysis:			Layer:	Description:	Analysis:	
seams, gray, flexible caulking  Layer: Description: Analysis:  Layer 1 rubbery material, gray No Asbestos Detected  25570.006-0050 Mechanical Isolation Cloth  First floor; south mechanical room, on HVAC duct joint, white, woven, mechanical insulation cloth  Layer: Description: Analysis:			Layer 1	•	6% Chrysotile	
Layer 1 rubbery material, gray No Asbestos Detected  25570.006-0050 Mechanical Isolation Cloth First floor; south mechanical room, on HVAC duct joint, white, woven, mechanical insulation cloth  Layer: Description: Analysis:	25570.006-0049	Seam Sealant (02)	1		om, around HVAC unit	Lab Cor
25570.006-0050 Mechanical Isolation Cloth First floor; south mechanical room, on HVAC duct joint, white, woven, mechanical insulation cloth  Layer: Description: Analysis:			Layer:	Description:	Analysis:	
white, woven, mechanical insulation cloth  Layer: Description: Analysis:			Layer 1	rubbery material, gray	No Asbestos Detected	
	25570.006-0050	Mechanical Isolati	on Cloth		-	Lab Cor
Layer 1 woven fibers, white No Asbestos Detected			Layer:	Description:	Analysis:	
			Layer 1	woven fibers, white	No Asbestos Detected	



<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0051	Hard Fittings/Pipe	Insulation	First floor; south mechanical roo fibrous, pipe insulation	m, from 6" line, white,	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	fibrous powder, white	6% Chrysotile, 6% Amosite	е
25570.006-0052	Air Cell Pipe Insula	ation	First floor; south mechanical roo white corrugated pipe insulation		Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	fibrous material, brown/red	5% Chrysotile	
25570.006-0053	Mag Pipe Insulation	on	First floor; south mechanical roo fluffy pipe insulation	m, from 6" line, white,	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	fibrous powder, off-white	<1% Chrysotile, 8% Amos	ite
25570.006-0054	Hard Fittings/Pipe	Insulation	First floor; south mechanical roo fibrous, pipe insulation	m, from 6" line, white,	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	fibrous powder, white	8% Chrysotile, 8% Amosite	е
25570.006-0055	Vinyl Floor Tile/Ma	astic (01)	Second floor; classroom 212, in o	closet on concrete, 9" by	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	hard vinyl, green	No Asbestos Detected	
		Layer 02	thin mastic, brown	No Asbestos Detected	
25570.006-0056	Cement Asbestos	Board	Second floor; classroom 212, we gray/white cement asbestos boa		Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	fibrous cement, gray	8% Chrysotile	
		Layer 02	fibrous backing, brown	No Asbestos Detected	
25570.006-0057	Sealant (01)		Second floor; classroom 212; we window sealant	st side, white/gray, firm,	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	hard compact powder, light gray	<1% Chrysotile	
25570.006-0058	Covebase/Mastic	(01)	Second floor; classroom 212, easwith brown mastic	t wall, 4" black, covebase,	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	loose hard material, black/brown	No Asbestos Detected	



<u>Code</u>	<u>Material</u>		Location	<u>Results</u>	<u>Lab</u>
25570.006-0059	Mastic (01)		Second floor; north side of hallw corkboard, brown mastic	ay, west wall, behind	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	loose particulate, brown/white/tan	No Asbestos Detected	
25570.006-0060	Concealed Grid C (02)	eiling Tile	Second floor; elevator lobby, on by 12" white pinhole and fissure		Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	coating, white	No Asbestos Detected	
		Layer 02	compressed fibrous material, tan/gray	No Asbestos Detected	
25570.006-0061	Caulk (04)		Second floor; elevator lobby, no of metal window frame, white fle	·	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	loose particulate, off- white/pink/gray	No Asbestos Detected	
25570.006-0062	Covebase/Mastic	(04)	Second floor; classroom 212, socovebase with tan mastic	Lab Cor	
		Layer:	Description:	Analysis:	
		Layer 1	loose particulate, white/green/yellow	No Asbestos Detected	
25570.006-0063	Mechanical Isolat	ion Cloth	Second floor; north storage roor woven mechanical isolation clot		Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	woven fibers with coating, tan	No Asbestos Detected	
		Layer 02	granular compact powder, off- white	No Asbestos Detected	
25570.006-0064	Vinyl Floor Tile/M	lastic (04)	Second floor; classroom 210, no by 9" red vinyl floor tile with bro		Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	vinyl, red/yellow/orange	No Asbestos Detected	
		Layer 02	mastic, brown	No Asbestos Detected	
25570.006-0065	Chalkboard		Second floor; classroom 210, no chalkboard	rth wall, black, white	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	fibrous powder with paint, gray/green	25% Chrysotile	



<u>Code</u>	Material Wall and Ceiling F	Plactor	Location Second floor; classroom 210, sou	Results	<u>Lab</u> Lab Cor
23370.000-0000	Wall allu Celling F	lastei	granular wall plaster	atti cioset, siliali, gray,	Lab Coi
		Layer:	Description:	Analysis:	
		Layer 1	loose granular powder, gray/off-white/blue	No Asbestos Detected	
25570.006-0067	Covebase/Mastic	(05)	Second floor; classroom 211, easwith tan mastic	st wall, 5" tan covebase	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	rubbery material, light gray	No Asbestos Detected	
		Layer 02	rubbery mastic material, off- white/tan	No Asbestos Detected	
25570.006-0068	Mastic (05)		Second floor; classroom 211, une tile, yellow carpet mastic	der carpet, on vinyl floor	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	loose mastic, tan/yellow	No Asbestos Detected	
25570.006-0069	Vinyl Floor Tile/M	astic (04)	Second floor; classroom 206, und by 9" red vinyl floor tile with bro	-	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	vinyl, red	No Asbestos Detected	
		Layer 02	thin coating with mastic, yellow/brown	No Asbestos Detected	
25570.006-0070	Window Glazing (	Compound	Second floor; classroom 206, ext between glass and metal frame,		Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	loose particulate, gray/off- white	2% Chrysotile	
25570.006-0071	Mastic (06)		Second floor; classroom 206, we laminate, yellow mastic	st side, under countertop	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	loose particulate, tan/brown	No Asbestos Detected	
25570.006-0072	Wall and Ceiling F	Plaster	Second floor; classroom 206, east plaster	st wall, gray, granular wall	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	loose granular powder, gray/off-white	No Asbestos Detected	



<b>Code</b> 25570.006-0073	Material Window Glazing (	Compound	<b>Location</b> Second floor; classroom 204, ext	Results erior of window assembly,	<u>Lab</u> Lab Cor
	_	Layer:	between glass and metal frame, <b>Description:</b>	white, window glazing  Analysis:	
		Layer 1	loose particulate, gray/off- white	2% Chrysotile	
25570.006-0074	Vinyl Floor Tile/M	astic (05)	Second floor; classroom 205, clo concrete, 9" by9" green vinyl floo	•	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	vinyl, green, with thin coating, clear/tan/brown	No Asbestos Detected	
25570.006-0075	Concealed Grid Co	eiling Tile	Second floor; classroom 205, 12 ceiling tile, on splined ceiling gri	=	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	compressed fibers, gray with paint, tan	No Asbestos Detected	
25570.006-0076	Vinyl Floor Tile/M	astic (04)	Second floor; classroom 202, on by9" red vinyl floor tile with brow		Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	hard vinyl, red	No Asbestos Detected	
		Layer 02	fine compact powder, off- white/tan	No Asbestos Detected	
		Layer 03	thin mastic, black	No Asbestos Detected	
25570.006-0077	Mastic (07)		Second floor; classroom 202, we mastic	st wall, brown covebase	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	loose mastic particulate, green/brown	<1% Chrysotile	
25570.006-0078	Concealed Grid Co	eiling Tile	Second floor; hallway outside cla ceiling grid, 12" by 12" off-white	-	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	compressed fibers, gray with paint, tan	No Asbestos Detected	
25570.006-0079	Window Glazing (	Compound	Second floor; classroom 201, ext between glass and metal frame, glazing	=	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	hard compact powder, off- white/gray with coating, black	3% Chrysotile	



<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0080	Magnesite Floorir	ng	Second floor; top of south stairw magnesite flooring	vell, gray speckled	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	loose particulate, off- white/gray	No Asbestos Detected	
25570.006-0081	Caulk (05)		Second floor; south lower roof, e caulk, white, between metal and		Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	soft rubbery material, off-white	No Asbestos Detected	
25570.006-0082	Caulk (06)		Second floor; south lower roof, p	pipe vent caulk, white	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	soft rubbery material, off-white	No Asbestos Detected	
25570.006-0083	Caulk (07)		Second floor; south lower roof, e caulk, gray, between metal and r		Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	loose rubbery particulate, gray	No Asbestos Detected	
25570.006-0084	Caulk (08)		First floor; west main entrance, e caulk, brown	xterior window frame	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	soft powdery material, brown/gray	3% Chrysotile	
25570.006-0085	Window Glazing (	Compound	First floor; west exterior, exterior between glass and metal frame	window glazing, white,	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	hard compact powder, off- white/gray	2% Chrysotile	
25570.006-0086	Caulk (08)		First floor; west exterior, exterior brown	window frame caulk,	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	mastic, brown with coating, off- white	3% Chrysotile	
25570.006-0087	Window Glazing (	Compound	First floor; west exterior, exterior between glass and metal frame	window glazing, white,	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	hard compact powder, off- white/green	<1% Chrysotile	



<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0088	Mortar		First floor; northwest exterior corred/gray	rner, brick and mortar,	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 01	hard compact powder, red	No Asbestos Detected	
		Layer 02	granular compact powder, gray	No Asbestos Detected	
25570.006-0089	Caulk (09)		First floor; north exterior, door fr	ame caulk, gray with red	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	rubbery material, gray with coating, brown	No Asbestos Detected	
25570.006-0090	CMU		First floor; north exterior, CMU b coating	lock, gray, with red	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	granular powder, gray/red/brown	No Asbestos Detected	
25570.006-0091	Caulk (08)		First floor; east side, north end, e window frame caulk	exterior, brown perimeter	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	compact powdery material, gray/brown	3% Chrysotile	
25570.006-0092	Window Glazing	Compound	First floor; east side, north end, b frame, white, firm window glazin	_	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	loose particulate, off- white/brown	2% Chrysotile	
25570.006-0093	Window Glazing	Compound	First floor; east side, south end, k frame, white, firm window glazin	_	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	compact powdery material, gray/white/brown	2% Chrysotile	
25570.006-0094	Caulk (08)		First floor; east side, south end, a exterior window frame, between window frame caulking		Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	soft compact powder, brown/gray	2% Chrysotile	



<u>Code</u>	<u>Material</u>	<u>Analysis</u>	<u>Location</u>	<u>Lab</u>
PAINT				
LB25570.006-1001	Paint	3,120 ppm	Teachers room 108; staff restroom, ceiling, gypsum, light tan, damaged condition	R.J. Lee Group
LB25570.006-1002	Paint	161 ppm	Teachers room 108; east side radiator panel, metal, beige, damaged condition	R.J. Lee Group
LB25570.006-1003	Paint	6,450 ppm	Second floor hallway; far south end, radiator panel, metal, gray/blue, damaged condition	R.J. Lee Group
LB25570.006-1004	Paint	16,100 ppm	Second floor south lower roof; roof vent, metal, off-white, damaged condition	R.J. Lee Group
LB25570.006-1005	Paint	3,940 ppm	First floor west main entry; exterior overhang, wood, egg-shell, damaged condition	R.J. Lee Group
LB25570.006-1006	Paint	108 ppm	First floor; north exterior entry overhang, metal, egg-shell, damaged condition	R.J. Lee Group

3. 14

4321 South Corbett Ave., Ste A Portland, OR 97239

Phone: (503) 224-5055 www.labcorpdx.com

# **PLM - Visual Estimate Extended Final Report**

Job Number: 222398

Client: PBS Engineering and Environmental

Address: 4412 S Corbett Avenue Portland, OR 97239

**Project Name:** 

Inc.

Project No.: 25570.006 Phase 0001

PO Number: Sub Project: Reference No.: Report Number: 222398R01 Report Date: 8/9/2022

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

	·	·	
Lab/Cor Sample #	Client Sample # and Description	Analysis Notes	Date Received
222398 - S1	25570.006-0001 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S2	25570.006-0002 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S3	25570.006-0003 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S4	25570.006-0004 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S5	25570.006-0005 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S6	25570.006-0006 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S7	25570.006-0007 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S8	25570.006-0008 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S9	25570.006-0009 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S10	25570.006-0010 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S11	25570.006-0011 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S12	25570.006-0012 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S13	25570.006-0013 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S14	25570.006-0014 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S15	25570.006-0015 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S16	25570.006-0016 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S17	25570.006-0017 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S18	25570.006-0018 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S19	25570.006-0019 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S20	25570.006-0020 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S21	25570.006-0021 -	PLM - Visual Estimate Extended	8/5/2022

Phone: (503) 224-5055 www.labcorpdx.com

# **PLM - Visual Estimate Extended Final Report**

Job Number: 222398 R01

Client: PBS Engineering and Environmental Report Date: 8/9/2022

Client: PE	SS Engineering and Environmen	tal	Report Date: 8/9/2022
Project Name:			
222398 - S22	25570.006-0022 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S23	25570.006-0023 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S24	25570.006-0024 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S25	25570.006-0025 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S26	25570.006-0026 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S27	25570.006-0027 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S28	25570.006-0028 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S29	25570.006-0029 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S30	25570.006-0030 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S31	25570.006-0031 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S32	25570.006-0032 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S33	25570.006-0033 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S34	25570.006-0034 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S35	25570.006-0035 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S36	25570.006-0036 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S37	25570.006-0037 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S38	25570.006-0038 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S39	25570.006-0039 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S40	25570.006-0040 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S41	25570.006-0041 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S42	25570.006-0042 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S43	25570.006-0043 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S44	25570.006-0044 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S45	25570.006-0045 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S46	25570.006-0046 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S47	25570.006-0047 -	PLM - Visual Estimate	8/5/2022

Extended

4321 South Corbett Ave., Ste A Portland, OR 97239

Phone: (503) 224-5055 www.labcorpdx.com

# **PLM - Visual Estimate Extended Final Report**

Job Number: 222398 Report Number: 222398R01 Client: PBS Engineering and Environmental **Report Date: 8/9/2022** 

**Project Name:** 

222398 - S48	25570.006-0048 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S49	25570.006-0049 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S50	25570.006-0050 -	PLM - Visual Estimate Extended	8/5/2022

PLM - Visual The submitted sample(s) were analyzed according to the EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Estimate Extended Building Materials and EPA - 40CFR App. E to Subpart E of Part 763. The sample(s) were analyzed with a digital microscope in order to determine homogeneity, the presence of fibers, and make a preliminary estimate of any asbestos fibers present in the sample. The sample(s), and any observed layers, were then homogenized through techniques appropriate to that material and prepared for analysis by polarized light microscopy (PLM).

> Three slide mount preparations were made from random subsamples of the homogenized material. This material was then mounted in the suitable refractive index liquid needed to perform a full optical characterization of the observed fibers. When necessary, dilute HCI, instead of RI liquids, were used to remove cementitious binders to facilitate analysis. The entirety of the slide mount preparations were then analyzed by PLM. Any observed fibers were reported and their optical characteristics recorded according to the EPA 600-R-93-116 method.

Disclaimer This report, and the data contained therein, cannot be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. The results found in this report are based only on the submitted sample(s). LabCor has no control over sampling procedures. This report is only valid when signed by an analyst.

NAD is No Asbestos Detected. Asbestos consists of the six following minerals: chrysotile, amosite, crocidolite, anthophyllite, actinolite, and tremolite.

Additional gravimetric, point-count or TEM analysis may be recommended for samples testing at < or = 1% asbestos, or those with material binders that prevent the detection of small diameter fibers.

The following estimate of error for this method by visual estimation of asbestos percent are as follows:

1% asbestos: >0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error. 20% asbestos: 10-30% error.

Sincerely,

Muhammad Rauch

**PLM Analyst** 

# LabCor Lab/Cor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

PBS Engineering and Environmental

**BULK SAMPLE ASBESTOS ANALYSIS** 

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222398R01

Report Date: 08/09/2022

P.O. No: n/a

Job Number: 222398

**Project Name:** 

Inc

Client:

Project Number: 25570.006 Phase 0001

4412 S Corbett Avenue

Portland, OR 97239

**Project Notes:** Client Sample ID: 25570.006-0001 Date Analyzed: 08/08/2022 Sample ID: S1 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Crocidolite Asbestos: Amosite Homogeneous 100 % 3 % 6 % fibrous powder, 9 % white/brown Other Fibers **Fibrous** Mineral Glass Wool Other Cellulose Synthetic Matrix 91 % Client Sample ID: 25570.006-0002 Sample ID: S2 Date Analyzed: 08/08/2022 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Layer Percent Chrysotile Percent: Crocidolite Amosite Asbestos: Homogeneous fibrous powder, 100 % 4 % 9 % 13 % white/brown **Other Fibers** Fibrous Mineral Other Glass Wool Cellulose Synthetic Matrix 87 % Client Sample ID: 25570.006-0003 Sample ID: S3 Date Analyzed: 08/08/2022 **Client Sample Description:** Ryan Talaski-Brown Analyst: **Asbestos Mineral Fibers** Percent Laver Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous fibrous material, 100 % 3 % 3 % brown/gray Fibrous Mineral Other Fibers Other Glass Cellulose Wool Synthetic Matrix 80 % 17 % Client Sample ID: 25570.006-0004 Sample ID: S4 Date Analyzed: 08/08/2022 Analyst: **Client Sample Description:** Ryan Talaski-Brown **Asbestos Mineral Fibers** Percent Layer Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous fibrous powder, 100 % 4 % 9 % 13 % white/brown Fibrous Mineral Other Fibers Glass Wool Other Cellulose Synthetic Matrix



87 %

Inc.

# LabCor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

# **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Asbestos and Environmental Analysis

PBS Engineering and Environmental Client:

4412 S Corbett Avenue Portland, OR 97239

Job Number: 222398

**Project Name:** 

Project Number: 25570.006 Phase 0001

**Project Notes:** 

Report Number: 222398R01 Report Date: 08/09/2022

P.O. No: n/a

Client Comple ID: 255	70.006-0005		Comple ID:	CE		Data Analyzadi	08/08/2022
Client Sample ID: 2557 Client Sample Description			Sample ID:	35		Date Analyzed: Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibers						Allalyst.	Percent
ASSESTOS MINICIAI I ISCI.	Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Homogeneous							
fibrous powder, white/brown	100 %	4 %	9 %	-			13 %
	Fibrous Glass Cellulos 	Mineral e Wool -	Synthetic		Other -	-	Matrix 87 %
Client Sample ID: 255	70.006-0006		Sample ID:	S6		Date Analyzed:	08/08/2022
Client Sample Description	on:					Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibers		Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose mastic, black	100 %	-	-	-			NAD
	ibrous Glass Cellulos 	Mineral e Wool -	Synthetic 3 %		Other -	-	Matrix 97 %
Client Sample ID: 255	70.006-0007		Sample ID:	S7		Date Analyzed:	08/08/2022
Client Sample Description				<b>.</b>		Analyst:	Ryan Talaski-Brown
							•
Asbestos Mineral Fibers	<u>s</u> Layer						Percent
Asbestos Mineral Fibers	<u>s</u> Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Asbestos Mineral Fibers  Layer 01	<u>s</u> Layer Percent:	Chrysotile	Amosite	Crocidolite			
	Percent:	Chrysotile -	Amosite -	Crocidolite			
Layer 01 hard compact powder	Percent:	Chrysotile -	Amosite -	Crocidolite			Asbestos:
Layer 01  hard compact powder off-white	Percent:	Chrysotile - -	Amosite - -	Crocidolite			Asbestos:
Layer 01 hard compact powder off-white Layer 02 granular compact powder, white Other Fibers	Percent:	- - Mineral	Amosite Synthetic	Crocidolite	Other		Asbestos:
Layer 01 hard compact powder off-white Layer 02 granular compact powder, white Other Fibers	Percent: 20 % 80 %	- - Mineral	-	Crocidolite	Other -	-	Asbestos: NAD
Layer 01 hard compact powder off-white Layer 02 granular compact powder, white  Other Fibers F	Percent: , 20 % 80 % Fibrous Glass Cellulos	- - Mineral e Wool	-	Crocidolite		- -	Asbestos: NAD NAD Matrix
Layer 01 hard compact powder off-white Layer 02 granular compact powder, white Other Fibers Layer 01 Layer 02	Percent:  20 %  80 %  Fibrous Glass Cellulos	- - Mineral e Wool	-	-		- - - Date Analyzed:	Asbestos:  NAD  NAD  Matrix 100 %
Layer 01 hard compact powder off-white Layer 02 granular compact powder, white Other Fibers Layer 01 Layer 02	Percent:  20 %  80 %  Fibrous Glass Cellulos  - Trace  70.006-0008	- - Mineral e Wool	- Synthetic - -	-		-	Asbestos:  NAD  NAD  Matrix 100 % 100 %
Layer 01 hard compact powder off-white Layer 02 granular compact powder, white Other Fibers Layer 01 Layer 02 Client Sample ID: 255	Percent:  20 %  80 %  Fibrous Glass Cellulos  - Trace  70.006-0008  on:  Layer	- Mineral e Wool - -	Synthetic Sample ID:	- - S8		- Date Analyzed:	Matrix 100 % 100 %
Layer 01 hard compact powder off-white Layer 02 granular compact powder, white Other Fibers Layer 01 Layer 02  Client Sample ID: 255 Client Sample Descriptic Asbestos Mineral Fibers	Percent:  , 20 %  80 %  Fibrous Glass Cellulos Trace  70.006-0008 on:	- Mineral e Wool - -	- Synthetic - -	-		- Date Analyzed:	Asbestos:  NAD  NAD  Matrix 100 % 100 %  08/08/2022  Ryan Talaski-Brown
Layer 01 hard compact powder off-white Layer 02 granular compact powder, white Other Fibers  Layer 01 Layer 02  Client Sample ID: 255 Client Sample Description	Percent:  20 %  80 %  Fibrous Glass Cellulos  Trace  70.006-0008  on: Layer Percent:	- Mineral e Wool - -	Synthetic Sample ID:	- - S8		- Date Analyzed:	Matrix 100 % 100 %  08/08/2022 Ryan Talaski-Brown Percent Asbestos:
Layer 01 hard compact powder off-white Layer 02 granular compact powder, white Other Fibers  Layer 01 Layer 02  Client Sample ID: 255 Client Sample Description Asbestos Mineral Fibers Homogeneous loose granular powder gray	Percent:  20 %  80 %  Fibrous Glass Cellulos  Trace  70.006-0008  on: Layer Percent:  r, 100 %	- Mineral e Wool Chrysotile	Synthetic Sample ID:	- - S8		- Date Analyzed:	Asbestos:  NAD  NAD  Matrix 100 % 100 %  08/08/2022  Ryan Talaski-Brown  Percent
Layer 01 hard compact powder off-white Layer 02 granular compact powder, white Other Fibers  Layer 01 Layer 02  Client Sample ID: 255 Client Sample Description Asbestos Mineral Fibers Homogeneous loose granular powder gray Other Fibers	Percent:  20 %  80 %  Fibrous Glass Cellulos  Trace  70.006-0008  on: Layer Percent:  r, 100 %	- Mineral e Wool Chrysotile - Mineral	Synthetic Sample ID: Amosite	- - S8	-	- Date Analyzed:	Asbestos:  NAD  Matrix 100 % 100 %  08/08/2022 Ryan Talaski-Brown  Percent Asbestos:  NAD
Layer 01 hard compact powder off-white Layer 02 granular compact powder, white Other Fibers  Layer 01 Layer 02  Client Sample ID: 255 Client Sample Description Asbestos Mineral Fibers Homogeneous loose granular powder gray Other Fibers	Percent:  20 %  80 %  Fibrous Glass Cellulos  Trace  70.006-0008  on: Layer Percent:  r, 100 %	- Mineral e Wool Chrysotile - Mineral	Synthetic Sample ID:	- - S8		- Date Analyzed:	Matrix 100 % 100 %  08/08/2022 Ryan Talaski-Brown Percent Asbestos:

# LabCor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

# **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222398R01

P.O. No: n/a

Asbestos and Environmental Analysis

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239 Report Date: 08/09/2022

Job Number: 222398

**Project Name:** 

Inc.

25570.006 Phase 0001

Project Number: Project Notes:

Client Sample ID:	25570.00	6-0009		Sample ID:	S9		Date Analyzed:	08/08/2022
Client Sample Descr	iption:						Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fi	<u>bers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01								
hard vinyl, green		95 %	Trace	-	-			< 1 %
Layer 02								
mastic, black		5 %	2 %	-	-			2 %
Other Fibers	Fibrou Glass	-	Mineral se Wool	Synthetic		Other		Matrix
Layer 01	_	_	_	-		_	-	100 %
Layer 02	-	-	-	-		-	-	98 %
Comments: A grav	vimetric pi	eparation	and point-co	ount is recom	mended for lay	er 01.		
	25570.00		•	Sample ID:			Date Analyzed:	08/08/2022
Client Sample Descr		0 00.0		Cumpio ibi			Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fi	-	Layer						Percent
		Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Layer 01								
rubbery material,	white	98 %	-	-	-			NAD
Layer 02								
powdery particular green	te,	2 %	-	-	-			NAD
Other Fibers	Fibrou	-	Mineral					
	Glass	Cellulo	se Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-		-	-	100 %
Client Sample ID:	25570.00	6-0011		Sample ID:	S11		Date Analyzed:	08/08/2022
Client Sample Descr	iption:						Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fi	<u>bers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous								
loose granular ma white/tan/gray	iterial,	100 %	-	-	-			NAD
Other Fibers	Fibrou	_	Mineral					
	Glass -	Cellulo -	se Wool -	Synthetic -		Other -	-	Matrix 100 %



# LabCor La Portland

Inc

# Lab/Cor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

# **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222398R01

P.O. No: n/a

Report Date: 08/09/2022

Asbestos and Environmental Analysis

<u>Client:</u> PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 222398

**Project Name:** 

Project Number: 25570.006 Phase 0001

**Project Notes:** 

Client Sample ID: 25570.006-0012 Sample ID: S12 Date Analyzed: 08/08/2022 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Laver Percent Percent: Chrysotile Crocidolite Asbestos: Amosite Homogeneous loose granular material. 100 % NAD white with mastic, brown **Fibrous** Mineral Other Fibers Glass Wool Other Cellulose Synthetic Matrix 100 % Client Sample ID: 25570.006-0013 Sample ID: S13 Date Analyzed: 08/08/2022 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Asbestos: Amosite Crocidolite Homogeneous 100 % mastic, white NAD Mineral Other Fibers **Fibrous** Other Glass Cellulose Wool Synthetic Matrix 100 % Client Sample ID: 25570.006-0014 Sample ID: S14 Date Analyzed: 08/08/2022 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous 100 % mastic, brown/tan NAD Fibrous Mineral Other Fibers Glass Wool Other Cellulose Synthetic Matrix 100 % Client Sample ID: 25570.006-0015 Sample ID: S15 Date Analyzed: 08/08/2022 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Percent Percent: Chrysotile Asbestos: Amosite Crocidolite Layer 01 coating, black/off-white 10 % NAD Laver 02 hard vinyl, light green 88 % NAD Layer 03 mastic, yellow 2 % NAD **Other Fibers** Fibrous Mineral Other Glass Wool Synthetic Cellulose Matrix Layer 01 100 % Layer 02 100 % Layer 03 100 %



# LabCor Portland Inc 4321 South Cor

# Lab/Cor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

# **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222398R01

P.O. No: n/a

Report Date: 08/09/2022

Asbestos and Environmental Analysis

<u>Client:</u> PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 222398

**Project Name:** 

Project Number: 25570.006 Phase 0001

**Project Notes:** 

Client Sample ID: 25570.006-0016 Sample ID: S16 Date Analyzed: 08/08/2022 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Laver Percent Percent: Chrysotile Crocidolite Amosite Asbestos: Layer 01 rubbery material, brown 95 % NAD Layer 02 5 % NAD mastic, brown Other Fibers **Fibrous** Mineral Other Glass Cellulose Wool Synthetic Matrix 100 % Layer 01 Talc 4 % 96 % Layer 02 Client Sample ID: 25570.006-0017 Sample ID: S17 08/08/2022 Date Analyzed: **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Layer Percent Chrysotile Percent: Amosite Crocidolite Asbestos: Homogeneous hard compact powder, 100 % Trace < 1 % off-white **Other Fibers** Fibrous Mineral Other Glass Cellulose Wool Synthetic Matrix 100 % 25570.006-0018 08/08/2022 Client Sample ID: Sample ID: S18 Date Analyzed: **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Percent Layer Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous 100 % 8 % fibrous cement, gray 8 % Other Fibers **Fibrous** Mineral Other Glass Cellulose Wool Synthetic Matrix 92 % Client Sample ID: 25570.006-0019 Sample ID: S19 Date Analyzed: 08/08/2022 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Laver Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Layer 01 5 % NAD coating, tan Layer 02 95 % NAD compressed fibers, gray Other Fibers **Fibrous** Mineral Other Glass Cellulose Wool Synthetic Matrix 100 % Layer 01 35 % 35 % 30 % Layer 02



# LabCor Portland

# Lab/Cor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

# **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222398R01

P.O. No: n/a

Report Date: 08/09/2022

Asbestos and Environmental Analysis

Client: PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 222398

**Project Name:** 

Inc

**Project Number:** 25570.006 Phase 0001

**Project Notes:** 

Layer 02

Client Sample ID: 25570.006-0020 Sample ID: S20 Date Analyzed: 08/08/2022 **Client Sample Description:** Analyst: Ryan Talaski-Brown Percent **Asbestos Mineral Fibers** Laver Percent: Chrysotile Crocidolite Amosite Asbestos: Homogeneous granular compact 100 % NAD powder, gray/white **Fibrous** Mineral Other Fibers Glass Wool Other Cellulose Synthetic Matrix 100 % Client Sample ID: 25570.006-0021 Sample ID: S21 Date Analyzed: 08/08/2022 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Layer 01 hard vinyl, green 85 % Trace < 1 % Layer 02 15 % 4 % mastic, black 4 % Other Fibers Fibrous Mineral Glass Cellulose Wool Other Synthetic Matrix Layer 01 100 % 96 % Layer 02 Comments: A gravimetric prep and point-count is recommended for layer 01. Client Sample ID: 25570.006-0022 Sample ID: S22 Date Analyzed: 08/08/2022 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous 100 % loose mastic, tan NAD Other Fibers **Fibrous** Mineral Other Glass Wool Cellulose Synthetic Matrix 100 % Client Sample ID: 25570.006-0023 Sample ID: S23 Date Analyzed: 08/08/2022 **Client Sample Description:** Ryan Talaski-Brown Analyst: **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Layer 01 90 % hard vinyl, green Trace < 1 % Layer 02 10 % 3 % mastic, black 3 % Other Fibers Fibrous Mineral Wool Glass Other Cellulose Synthetic Matrix Layer 01 100 % 97 %



# LabCor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Asbestos and Environmental Analysis

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239 Report Number: 222398R01 Report Date: 08/09/2022

P.O. No: n/a

Job Number: 222398

**Project Name:** 

Inc.

Project Number: 25570.006 Phase 0001

**Project Notes:** 

Client Sample ID: 25	5570.006-	-0024		Sample ID:	S24		Date Analyzed:	08/08/2022
Client Sample Descrip	otion:						Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibe		Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous								
hard compact powd gray	ler,	100 %	Trace	-	-			< 1 %
Other Fibers	Fibrous		Mineral					
	Glass	Cellulose	e Wool	Synthetic		Other		Matrix
	-	-	-	-		-	-	100 %
Client Sample ID: 25	5570.006-	-0025		Sample ID:	S25		Date Analyzed:	08/08/2022
Client Sample Descrip	otion:						Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibe		Layer						Percent
	Р	Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Homogeneous								
hard compact mater black/tan	rial,	100 %	5 %	-	-			5 %
Other Fibers	Fibrous		Mineral					
	Glass -	Cellulose	e Wool	Synthetic -		Other -	_	Matrix 95 %
Client Sample ID: 25570.006-0026						_		
Client Sample ID: 25	5570.006-	-0026		Sample ID:	S26		Date Analyzed:	08/08/2022
		-0026		Sample ID:	S26		Date Analyzed: Analyst:	08/08/2022 Ryan Talaski-Brown
Client Sample Descrip	otion: <u>ers</u>	Layer	Chrysotile	Sample ID:	S26 Crocidolite		•	
Client Sample Descrip Asbestos Mineral Fibe	otion: <u>ers</u>	Layer		•			•	Ryan Talaski-Brown Percent
Client Sample Descrip Asbestos Mineral Fibe	otion: <u>ers</u>	Layer		•			•	Ryan Talaski-Brown Percent
Client Sample Descrip Asbestos Mineral Fibe Layer 01 coating, off-white	otion: <u>ers</u>	Layer Percent:		•			•	Ryan Talaski-Brown Percent Asbestos
Client Sample Descrip Asbestos Mineral Fibe Layer 01 coating, off-white	otion: <u>ers</u> l P	Layer Percent:		•			•	Ryan Talaski-Brown Percent Asbestos
Client Sample Descrip Asbestos Mineral Fibe Layer 01 coating, off-white Layer 02	otion: <u>ers</u> l P	Layer Percent: 5 %	Chrysotile - - Mineral	•		Other	•	Ryan Talaski-Brown Percent Asbestos: NAI
Client Sample Descrip Asbestos Mineral Fibe  Layer 01 coating, off-white  Layer 02 compressed fibers,	otion: ers l P gray Fibrous	Layer Percent: 5 %	Chrysotile - - Mineral	Amosite			•	Ryan Talaski-Brown Percent Asbestos:



# LabCor Portland

Inc

# Lab/Cor Portland, Inc. 4321 South Corbett Ave., Ste A

**BULK SAMPLE ASBESTOS ANALYSIS** 

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222398R01

P.O. No: n/a

Report Date: 08/09/2022

Asbestos and Environmental Analysis

Client: PBS Engineering and Environmental

Portland, OR 97239

4412 S Corbett Avenue Portland, OR 97239

Job Number: 222398

**Project Name:** 

**Project Number:** 25570.006 Phase 0001

**Project Notes:** 

Client Sample ID: 25570.006-0027 Sample ID: S27 Date Analyzed: 08/08/2022 **Client Sample Description:** Analyst: Ryan Talaski-Brown Percent **Asbestos Mineral Fibers** Laver Percent: Chrysotile Crocidolite Asbestos: Amosite Layer 01 ceramic material, off-50 % NAD white Layer 02 hard compact material, 50 % NAD green Other Fibers Fibrous Mineral Other Glass Wool Cellulose Synthetic Matrix 100 % Layer 01 Layer 02 \_ 100 % Client Sample ID: 25570.006-0028 Sample ID: S28 Date Analyzed: 08/08/2022 **Client Sample Description:** Ryan Talaski-Brown Analyst: **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Layer 01 ceramic material, 90 % NAD green/tan Layer 02 hard compact powder, 10 % NAD white Other Fibers **Fibrous** Mineral Other Glass Cellulose Wool Synthetic Matrix 100 % Layer 01 100 % Layer 02 Client Sample ID: 25570.006-0029 Sample ID: S29 Date Analyzed: 08/08/2022 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Crocidolite Asbestos: Amosite Layer 01 cork material, brown 85 % NAD Layer 02 15 % granular mastic material, NAD brown/white Other Fibers Fibrous Mineral Glass Wool Other Cellulose Synthetic Matrix Layer 01 100 % Layer 02 100 %



# LabCor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

# **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Asbestos and Environmental Analysis

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239 Report Number: 222398R01

**Report Date:** 08/09/2022

P.O. No: n/a

Job Number: 222398

**Project Name:** 

Inc.

Project Number: 25570.006 Phase 0001

**Project Notes:** 

Oliant Carriel ID: 0	VEEZO 001			0	020		Data Assalsses 1	00/00/2022
	25570.006	-0030		Sample ID:	530		Date Analyzed:	08/08/2022
Client Sample Descri	-	Lover					Analyst:	Ryan Talaski-Brown Percent
Asbestos Mineral Fib		Layer Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Homogeneous			, , , , ,	7	0.00.000			7.0200.001
granular mastic ma	aterial	100 %	_	_	_			NAD
brown/white	atoriui,	100 70						NAS
Other Fibers	Fibrous	3	Mineral					
	Glass	Cellulos	se Wool	Synthetic		Other		Matrix
	-	-	-	-		-	-	100 %
Client Sample ID: 2	25570.006	6-0031		Sample ID:	S31		Date Analyzed:	08/09/2022
Client Sample Descri	ption:						Analyst:	Muhammad Rauch
Asbestos Mineral Fib	<u>oers</u>	Layer						Percent
		Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Layer 01								
rubbery material, b	rown	45 %	-	-	-			NAD
Layer 02								
mastic, brown with		55 %	-	-	-			NAD
compact powder, c	OΠ-							
Other Fibers	Fibrous	2	Mineral					
Other ribers	Glass			Synthetic		Other		Matrix
Layer 01	_	Trace		Trace		_	_	100 %
Layer 02	_	-	_	-		_	_	100 %
				Camarda ID.	022		Data Analysis de	08/09/2022
Client Sample ID: 2 Client Sample Descri	25570.006	D-0032		Sample ID:	532		Date Analyzed: Analyst:	Muhammad Rauch
Asbestos Mineral Fil	-	Layer					AllalySt.	Percent
Asbestos Milierari II			Chrysotile	Amosite	Crocidolite			Asbestos:
Layer 01			-					
mastic, tan		10 %	-	-	-			NAD
Layer 02								
hard vinyl, red		75 %	-	-	-			NAD
Layer 03								
cementitious mate	rial,	15 %	-	-	-			NAD
• •	Fibrous	;	Mineral					
Other Fibers	Fibrous Glass	S Cellulos	Mineral se Wool	Synthetic		Other		Matrix
• •			se Wool	Synthetic		Other -	_	Matrix -
Other Fibers	Glass	Cellulos	se Wool	Synthetic - -		Other - -	- -	
Other Fibers  Layer 01	Glass -	Cellulos Trace	se Wool	Synthetic - - -		-	- - -	-



# Portland Lab/Cor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222398R01

P.O. No: n/a

Report Date: 08/09/2022

Asbestos and Environmental Analysis

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 222398

**Project Name:** 

Inc.

Project Number: 25570.006 Phase 0001

Client Sample ID: 2	5570.006	6-0033		Sample ID:	S33		Date Analyzed:	08/09/2022
Client Sample Descrip	ption:						Analyst:	Muhammad Rauch
Asbestos Mineral Fib		Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01								
mastic, tan		10 %	-	-	-			NAC
Layer 02								
hard vinyl, red		65 %	-	-	-			NAC
Layer 03								
cementitious mater gray	ial,	10 %	-	-	-			NAC
Layer 04								
fine compact powde white	er, off-	15 %	-	-	-			NAC
Other Fibers	Fibrous Glass	-	Mineral e Wool	Synthetic		Other		Matrix
Layer 01	-	20 %	-	Trace		-	-	80 %
Layer 02	-	30 %	-	-		-	-	70 %
Layer 03	-	-	-	-		-	-	100 %
Layer 04	-	Trace	-	-		-	-	100 %
Client Sample ID: 2	5570.006	6-0034		Sample ID:	S34		Date Analyzed:	08/09/2022
Client Sample Descri <sub>l</sub>	ption:						Analyst:	Muhammad Rauch
Asbestos Mineral Fib		Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01								
vinyl, tan		80 %	-	-	-			NAC
Layer 02								
mastic, brown with coating, off-white		20 %	-	-	-			NAI
Other Fibers	Fibrous Glass		Mineral e Wool	Synthetic		Other		Matrix
Layer 01	_	-	-	-		-	_	100 %
Layer 02	_	Trace	_	_		-	-	100 %



# Inc.

# LabCor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222398R01

P.O. No: n/a

Report Date: 08/09/2022

Asbestos and Environmental Analysis

PBS Engineering and Environmental Client:

4412 S Corbett Avenue Portland, OR 97239

Job Number: 222398

**Project Name:** 

Project Number: 25570.006 Phase 0001

	006-0035		Sample ID:	S35		Date Analyzed:	08/09/2022
Client Sample Description						Analyst:	Muhammad Rauch
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
hard vinyl, green	80 %	Trace	-	-			< 1 %
Layer 02							
mastic, black	20 %	2 %	-	-			2 %
Other Fibers Fibr	ous	Mineral					
Gla	iss Cellulo	se Wool	Synthetic		Other		Matrix
Layer 01 -	2 %	-	Trace		-	-	98 %
Layer 02 -	2 %	-	-		-	-	96 %
Client Sample ID: 25570.	006-0036		Sample ID:	S36		Date Analyzed:	08/09/2022
Client Sample Description			Campio is:			Analyst:	Muhammad Rauch
Asbestos Mineral Fibers	Layer					7 mary oc.	Percent
Nobbotto IIIII e a i i i i i i i i i i i i i i i i i i		Chrysotile	Amosite	Crocidolite			Asbestos:
Homogeneous							
loose particulate, brown	100 %	_	_	_			NAD
Other Fibers Fibr	ous	Mineral					
Gla			Synthetic		Other		Matrix
Tra	ce 35 %	_	-		_	_	65 %
Client Commis ID. 05570	000 0007		Commis ID:	627		Data Analysis de	00/00/2022
	006-0037		Sample ID:	537		Date Analyzed:	08/09/2022
Client Sample Description						Analyst:	Muhammad Rauch
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01		J, J.	7 111100110	O O O O O O O O			Assestes.
coating, off-white/green	15 %	_	_	_			NAD
Layer 02	13 /0						NAD
rubbery material, brown	85 %						NAD
		Minoral	_	_			NAD
Other Fibers Fibr		Mineral se Wool	Synthetic		Other		B. A. a. Aurice
	Trace	-	Synthetic		••		Matrix 100 %
Layeror	Trace		-		-	-	100 %
Layer 02 -	TTACE	<del>-</del>					100 %
	006-0038		Sample ID:	S38		Date Analyzed:	08/09/2022
Client Sample Description						Analyst:	Muhammad Rauch
<u>Asbestos Mineral Fibers</u>	Layer	Olam va adilla		0			Percent
	Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Homogeneous	4000/						
loose particulate, off- white with mastic, brown	100 %	-	-	-			NAD
Other Fibers Fibr		Mineral			Othor		
Gla	00		Synthetic		Other		Matrix
-							
	5 %	-	-		-	-	95 %



4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Asbestos and Environmental Analysis

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

**Report Number:** 222398R01 **Report Date:** 08/09/2022

P.O. No: n/a

Job Number: 222398

Project Name:

Inc.

Project Number: 25570.006 Phase 0001

Client Sample ID:	25570.00	6-0039		Sample ID:	S39		Date Analyzed:	08/09/2022
Client Sample Des	cription:						Analyst:	Muhammad Rauch
Asbestos Mineral I		Layer						Percent
		Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Layer 01								
mastic, black		20 %	2 %	-	-			2 %
Layer 02								
hard vinyl, greer	1	65 %	Trace	-	-			< 1 %
Layer 03								
mastic, tan		15 %	-	-	-			NAD
Other Fibers	Fibrou	s	Mineral					
	Glass	Cellulos	se Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	98 %
Layer 02	-	Trace	-	-		-	-	100 %
Layer 03	-	2 %	-	-		-	-	98 %
Client Sample ID:	25570.00	6-0040		Sample ID:	S40		Date Analyzed:	08/09/2022
Client Sample Des					- <del>-</del>		Analyst:	Muhammad Rauch
Asbestos Mineral I	-	Layer					<b></b>	Percent
			Chrysotile	Amosite	Crocidolite			Asbestos:
Layer 01								
coating, tan		10 %	-	-	-			NAD
Layer 02								
compressed fibe	ers, gray	90 %	-	-	-			NAD
Other Fibers	Fibrou	s	Mineral					
	Glass	Cellulos	se Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	90 %	-	5 %	-		-	-	5 %
Client Sample ID:	25570.00	6_00/1		Sample ID:	S/11		Date Analyzed:	08/09/2022
Client Sample Des		U-UU <del>-</del> 1		Cample ID.	041		Analyst:	Ryan Talaski-Brown
Asbestos Mineral		Layer					Allaiyst.	Percent
ASSESSION WITTER AT	10013	Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Homogeneous			·					
loose granular p white/gray	owder,	100 %	-	-	-			NAD
Other Fibers	Fibrou Glass	-	Mineral se Wool	Synthetic		Other		Matrice
	-	- -		-		-	-	Matrix 100 %



4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222398R01

P.O. No: n/a

Asbestos and Environmental Analysis

PBS Engineering and Environmental Client:

4412 S Corbett Avenue Portland, OR 97239

Report Date: 08/09/2022

Job Number: 222398

**Project Name:** 

Inc.

Project Number: 25570.006 Phase 0001

Client Sample ID: 25	5570.006-0042		Sample ID:	S42		Date Analyzed:	08/09/2022
Client Sample Descrip			oumpio is:	0.12		Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fib						,	Percent
		Chrysotile	Amosite	Crocidolite			Asbestos:
Homogeneous							
hard compact powd gray	der, 100 %	Trace	-	-			< 1 %
Other Fibers	Fibrous	Mineral					
	Glass Cellulo	se Wool	Synthetic		Other		Matrix
		-	-		-	-	100 %
Client Sample ID: 25	5570.006-0043		Sample ID:	S43		Date Analyzed:	08/09/2022
Client Sample Descrip	ption:					Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fib						ŕ	Percent
	Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Homogeneous							
fibrous cement, gra	y 100 %	8 %	-	-			8 %
Other Fibers	Fibrous	Mineral					
	Glass Cellulo	se Wool	Synthetic		Other		Matrix
		-	-		-	-	92 %
Client Sample ID: 25	5570.006-0044		Sample ID:	S44		Date Analyzed:	08/09/2022
Client Sample Descrip	ption:		Sample ID:	S44		Date Analyzed: Analyst:	08/09/2022 Ryan Talaski-Brown
	ption: <u>ers</u> Layer	Ohmun atili-					Ryan Talaski-Brown Percent
Client Sample Descrip Asbestos Mineral Fib	ption: <u>ers</u> Layer	Chrysotile	Sample ID: Amosite	S44 Crocidolite			Ryan Talaski-Brown
Client Sample Descrip Asbestos Mineral Fibe	otion: e <u>rs</u> Layer Percent:	·					Ryan Talaski-Brown Percent Asbestos:
Client Sample Descrip Asbestos Mineral Fibe Homogeneous fibrous cement, gra	ption: Layer Percent:	8 %					Ryan Talaski-Brown Percent
Client Sample Descrip Asbestos Mineral Fibe	ption: Layer Percent: y 100 % Fibrous	8 % Mineral	Amosite		Other		Ryan Talaski-Brown Percent Asbestos: 8 %
Client Sample Descrip Asbestos Mineral Fibe Homogeneous fibrous cement, gra	ption: Layer Percent:	8 % Mineral se Wool			Other		Ryan Talaski-Brown Percent Asbestos:  8 %  Matrix
Client Sample Descrip Asbestos Mineral Fibe Homogeneous fibrous cement, gra	ption: Layer Percent: y 100 % Fibrous	8 % Mineral	Amosite		Other -		Ryan Talaski-Brown Percent Asbestos: 8 %
Client Sample Descrip Asbestos Mineral Fibe Homogeneous fibrous cement, gra Other Fibers	ption: Layer Percent: y 100 % Fibrous	8 % Mineral se Wool	Amosite	Crocidolite -	Other -		Ryan Talaski-Brown Percent Asbestos:  8 %  Matrix
Client Sample Descrip Asbestos Mineral Fibe Homogeneous fibrous cement, gra Other Fibers	ption: Layer Percent:  y 100 % Fibrous Glass Cellulo 5570.006-0045	8 % Mineral se Wool	Amosite  - Synthetic -	Crocidolite -	Other -	Analyst:	Ryan Talaski-Brown Percent Asbestos:  8 %  Matrix 92 %
Client Sample Descrip Asbestos Mineral Fibe Homogeneous fibrous cement, gra Other Fibers  Client Sample ID: 28	ption:  pers Layer Percent:  y 100 % Fibrous Glass Cellulo  5570.006-0045 ption: pers Layer	8 % Mineral se Wool	Amosite  - Synthetic - Sample ID:	Crocidolite - S45	Other -	Analyst:	Ryan Talaski-Brown Percent Asbestos:  8 %  Matrix 92 %  08/09/2022 Ryan Talaski-Brown Percent
Client Sample Descrip Asbestos Mineral Fibe Homogeneous fibrous cement, gra Other Fibers  Client Sample ID: 25 Client Sample Descrip Asbestos Mineral Fibe	ption:  pers Layer Percent:  y 100 % Fibrous Glass Cellulo  5570.006-0045 ption: pers Layer	8 % Mineral se Wool	Amosite  - Synthetic -	Crocidolite -	Other -	Analyst:	Ryan Talaski-Brown Percent Asbestos:  8 %  Matrix 92 %  08/09/2022 Ryan Talaski-Brown
Client Sample Descrip Asbestos Mineral Fib Homogeneous fibrous cement, gra Other Fibers  Client Sample ID: 28 Client Sample Descrip Asbestos Mineral Fiber Homogeneous	ption:  lers Layer Percent:  y 100 % Fibrous Glass Cellulo  5570.006-0045 ption: lers Layer Percent:	8 % Mineral Wool - Chrysotile	Amosite  - Synthetic - Sample ID:	Crocidolite - S45	Other -	Analyst:	Ryan Talaski-Brown Percent Asbestos:  8 %  Matrix 92 %  08/09/2022 Ryan Talaski-Brown Percent Asbestos:
Client Sample Descrip Asbestos Mineral Fibe Homogeneous fibrous cement, gra Other Fibers  Client Sample ID: 25 Client Sample Descrip Asbestos Mineral Fibe	ption:  lers Layer Percent:  y 100 % Fibrous Glass Cellulo  5570.006-0045 ption: lers Layer Percent:	8 % Mineral se Wool	Amosite  - Synthetic - Sample ID:	Crocidolite - S45	Other -	Analyst:	Ryan Talaski-Brown Percent Asbestos:  8 %  Matrix 92 %  08/09/2022 Ryan Talaski-Brown Percent
Client Sample Descrip Asbestos Mineral Fibe Homogeneous fibrous cement, gra Other Fibers  Client Sample ID: 25 Client Sample Descrip Asbestos Mineral Fibe Homogeneous hard compact mate	ption: pers Layer Percent:  y 100 % Fibrous Glass Cellulo  5570.006-0045 ption: pers Layer Percent:  prial, 100 % Fibrous	8 % Mineral Wool - Chrysotile 5 % Mineral	Amosite  - Synthetic - Sample ID: Amosite -	Crocidolite - S45	-	Analyst:	Ryan Talaski-Brown Percent Asbestos:  8 %  Matrix 92 %  08/09/2022 Ryan Talaski-Brown Percent Asbestos:
Client Sample Descrip Asbestos Mineral Fibe Homogeneous fibrous cement, gra Other Fibers  Client Sample ID: 28 Client Sample Descrip Asbestos Mineral Fibe Homogeneous hard compact mate gray/brown	ption: pers Layer Percent:  y 100 % Fibrous Glass Cellulo  5570.006-0045 ption: pers Layer Percent:  prial, 100 %	8 % Mineral Wool - Chrysotile 5 % Mineral	Amosite  - Synthetic - Sample ID:	Crocidolite - S45	Other -	Analyst:	Ryan Talaski-Brown Percent Asbestos:  8 %  Matrix 92 %  08/09/2022 Ryan Talaski-Brown Percent Asbestos:



4321 South Corbett Ave., Ste A Portland, OR 97239

25570.006 Phase 0001

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

P.O. No: n/a

Asbestos and Environmental Analysis

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239 Report Number: 222398R01 Report Date: 08/09/2022

Job Number: 222398

**Project Name:** 

Inc.

Project Number: Project Notes:

Client Sample ID: 25570.006-0046	Sample ID:	S46		Date Analyzed:	08/09/2022
Client Sample Description:		-		Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibers Layer				•	Percent
Percent: Chrysotil	Amosite	Crocidolite			Asbestos:
Homogeneous					
hard compact material, 100 % 6 % gray/brown	-	-			6 %
Other FibersFibrousMineraGlassCelluloseWood	Synthetic		Other -	-	Matrix 94 %
Client Sample ID: 25570.006-0047	Sample ID:	S47		Date Analyzed:	08/09/2022
Client Sample Description:				Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibers Layer				•	Percent
Percent: Chrysotil	e Amosite	Crocidolite			Asbestos:
Layer 01					
rubbery material, brown 65 % -	-	-			NAD
Layer 02					
mastic, white 35 % -	-	-			NAD
Other Fibers Fibrous Minera Glass Cellulose Wool	ll Synthetic		Other		Matrix
Layer 01	-		_	_	100 %
Layer 02	_		_	_	100 %
	Commis ID:	C40		Data Analysis di	08/09/2022
Client Sample ID: 25570.006-0048 Client Sample Description:	Sample ID:	340		Date Analyzed:	
Asbestos Mineral Fibers Layer				Analyst:	Ryan Talaski-Brown Percent
Percent: Chrysotil	• Amosite	Crocidolite			Asbestos:
Homogeneous		2.23.23.10			
hard compact material, 100 % 6 %	_	_			6 %
					0 /0
gray/brown					
Other Fibers Fibrous Minera					
• •	l Synthetic		Other		Matrix
Other Fibers Fibrous Minera			Other -	<u>-</u>	Matrix 94 %
Other Fibers Fibrous Minera		S49	Other -	- Date Analyzed:	*********
Other Fibers Fibrous Minera Glass Cellulose Wool	Synthetic -	S49	Other -	- Date Analyzed: Analyst:	94 %
Other Fibers     Fibrous Glass     Mineral Wood       -     -       Client Sample ID:     25570.006-0049	Synthetic -	S49	Other -	•	94 %
Other Fibers Fibrous Cellulose Wood  Client Sample ID: 25570.006-0049  Client Sample Description:	Synthetic - Sample ID:	S49 Crocidolite	Other -	•	94 % 08/09/2022 Ryan Talaski-Brown
Other Fibers Fibrous Glass Cellulose Wood   Client Sample ID: 25570.006-0049  Client Sample Description: Asbestos Mineral Fibers Layer	Synthetic - Sample ID:		Other -	•	94 %  08/09/2022  Ryan Talaski-Brown  Percent
Other Fibers Fibrous Glass Cellulose Wood  Client Sample ID: 25570.006-0049 Client Sample Description: Asbestos Mineral Fibers Layer Percent: Chrysotil	Synthetic - Sample ID:		Other -	•	94 %  08/09/2022  Ryan Talaski-Brown  Percent
Client Sample ID: 25570.006-0049 Client Sample Description: Asbestos Mineral Fibers Layer Percent: Chrysotil Homogeneous	Synthetic  - Sample ID:  Amosite  -		Other -	•	94 %  08/09/2022  Ryan Talaski-Brown  Percent  Asbestos:
Other Fibers Glass Cellulose Wood Client Sample ID: 25570.006-0049 Client Sample Description: Asbestos Mineral Fibers Percent: Chrysotil Homogeneous rubbery material, gray 100 % -	Synthetic  - Sample ID:  Amosite  -		Other -	•	94 %  08/09/2022  Ryan Talaski-Brown  Percent  Asbestos:



#### LabCor Portland Inc

## Lab/Cor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Asbestos and Environmental Analysis

Client: PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239 Report Number: 222398R01 Report Date: 08/09/2022 P.O. No: n/a

Job Number: 222398

**Project Name:** 

25570.006 Phase 0001

25570.006-0050

Project Number: Project Notes:

Client Sample ID:

Sample ID: S50 Date Analyzed: 08/09/2022

Client Sample Description: Analyst: Ryan Talaski-Brown

Asbestos Mineral Fibers Layer Percent: Chrysotile Amosite Crocidolite Asbestos:

Homogeneous

woven fibers, white 100 % - - - NAD

Other Fibers Fibrous Mineral

Glass Cellulose Wool Synthetic Other Matrix

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Testing method is per EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials and EPA - 40CFR App. E to Subpart E of Part 763, PLM. This report and the data contained therein cannot be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

- "NAD" is No Asbestos Detected.
- · Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
- Material binders, such as those found in vinyl floor tiles, may prevent the detection of small diameter asbestos fibers. A gravimetric preparation and point-count is recommended for such samples.
- Quantitative analysis by PLM point count or TEM may be recommended for samples testing at < or = to 1% asbestos.
- The following estimate of error for this method by visual estimation of asbestos percent are as follows:
- 1% asbestos: >0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.
- This report pertains only to the samples listed on the report. Report considered valid only when signed by analyst.

Reviewed by:

Muhammad Rauch

**PLM Analyst** 

TESTING ®



## TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.:

25570.006

PBS Engineering and Environmental Inc.

Phase 0001

Individuals signing this form wa original. The Receiver should co immediately to Sender.	rrant that the information provided is mplete the form, keep a copy and retu	correct and complete. The urn the original to the Send	senaer snouta keep a cop er. Receiver shall report d	y und send the amage of package
SENDER		RECEIVER	$\sim 1/$	
Date Sent: August 05,	2022	Date Received:	8/5/20	
PBS Engineering and Envi 4412 S Corbett Avenue Portland, OR 97239 503.248.1939, Fax: 866.72	•	Company: Lab Address: 432 Port 503		
Name Authorized Signature	0/22_ (3#8) Date Time	Name Authorized Signa	ture Date	J:50 Time
Sender's ID No.	Brief Description	Recei	ver's ID No.	
25570.006-0001				-
25570.006-0002				_
25570.006-0003				_
25570.006-0004				
25570,006-0005				) <u>,</u>
25570.006-0006		<u>,</u>		<del></del>
25570.006-0007				_
25570.006-0008				_
25570.006-00 <del>0</del> 9				
25570.006-0010	· · · · · · · · · · · · · · · · · · ·		<u> </u>	<del></del>
25570.006-0011				
25570.006-0012				<del></del>
25570.006-0013				_
25570.006-0014				

Page 1

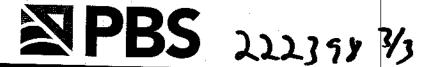
August 05, 2022



222398 3/

# TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES 25570.006-0015 25570.006-0016 25570.006-0017 25570.006-0018 25570.006-0019 25570.006-0020 25570.006-0021 25570.006-0022 25570.006-0023 25570.006-0024 25570.006-0025 25570.006-0026 25570.006-0027 25570.006-0028 25570.006-0029 25570.006-0030 25570.006-0031 25570.006-0032 25570.006-0033 25570.006-0034 25570.006-0035 25570.006-0036 25570.006-0037 25570.006-0038

25570.006-0039



# TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES 25570.006-0040 25570.006-0041 25570.006-0042 25570.006-0043 25570.006-0044 25570.006-0045 25570.006-0046 25570,006-0047 25570.006-0048 25570.006-0049 25570.006-0050 Please analyze the enclosed 50 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed. Request verbal results by: \_\_\_\_\_ AM/PM \_\_\_\_\_ Date. Please fax and mail the results to the above address. TURNAROUND DESIRED: 72 Hour SPECIAL INSTRUCTIONS:

4321 South Corbett Ave., Ste A Portland, OR 97239

Phone: (503) 224-5055 www.labcorpdx.com

## **PLM - Visual Estimate Extended Final Report**

**Job Number: 222463** 

Client: PBS Engineering and Environmental

Address: 4412 S Corbett Avenue Portland, OR 97239

Project Name:

Project No.: 25570.006 Phase 0001

PO Number: Sub Project: Reference No.:

Report Number: 222463R01 Report Date: 8/15/2022

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample #	Client Sample # and Description	Analysis Analy	sis Notes	Date Received
222463 - S1	25570.006-0051 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S2	25570.006-0052 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S3	25570.006-0053 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S4	25570.006-0054 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S5	25570.006-0055 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S6	25570.006-0056 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S7	25570.006-0057 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S8	25570.006-0058 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S9	25570.006-0059 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S10	25570.006-0060 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S11	25570.006-0061 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S12	25570.006-0062 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S13	25570.006-0063 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S14	25570.006-0064 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S15	25570.006-0065 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S16	25570.006-0066 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S17	25570.006-0067 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S18	25570.006-0068 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S19	25570.006-0069 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S20	25570.006-0070 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S21	25570.006-0071 -	PLM - Visual Estimate Extended		8/11/2022

Phone: (503) 224-5055 www.labcorpdx.com

### **PLM - Visual Estimate Extended Final Report**

Job Number: 222463

Client: PBS Engineering and Environmental

Report Number: 222463R01

Report Date: 8/15/2022

Client: PB Project Name:	S Engineering and Environmenta	al .	Report Date: 8/15/2022
222463 - S22	25570.006-0072 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S23	25570.006-0073 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S24	25570.006-0074 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S25	25570.006-0075 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S26	25570.006-0076 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S27	25570.006-0077 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S28	25570.006-0078 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S29	25570.006-0079 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S30	25570.006-0080 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S31	25570.006-0081 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S32	25570.006-0082 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S33	25570.006-0083 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S34	25570.006-0084 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S35	25570.006-0085 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S36	25570.006-0086 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S37	25570.006-0087 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S38	25570.006-0088 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S39	25570.006-0089 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S40	25570.006-0090 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S41	25570.006-0091 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S42	25570.006-0092 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S43	25570.006-0093 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S44	25570.006-0094 -	PLM - Visual Estimate Extended	8/11/2022

Phone: (503) 224-5055 www.labcorpdx.com

### **PLM - Visual Estimate Extended Final Report**

Job Number: 222463 Report Number: 222463R01 Client: PBS Engineering and Environmental Report Date: 8/15/2022

**Project Name:** 

PLM - Visual The submitted sample(s) were analyzed according to the EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Estimate Extended Building Materials and EPA - 40CFR App. E to Subpart E of Part 763. The sample(s) were analyzed with a digital microscope in order to determine homogeneity, the presence of fibers, and make a preliminary estimate of any asbestos fibers present in the sample. The sample(s), and any observed layers, were then homogenized through techniques appropriate to that material and prepared for analysis by polarized light microscopy (PLM).

> Three slide mount preparations were made from random subsamples of the homogenized material. This material was then mounted in the suitable refractive index liquid needed to perform a full optical characterization of the observed fibers. When necessary, dilute HCI, instead of RI liquids, were used to remove cementitious binders to facilitate analysis. The entirety of the slide mount preparations were then analyzed by PLM. Any observed fibers were reported and their optical characteristics recorded according to the EPA 600-R-93-116 method.

Disclaimer This report, and the data contained therein, cannot be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. The results found in this report are based only on the submitted sample(s). LabCor has no control over sampling procedures. This report is only valid when signed by an analyst.

NAD is No Asbestos Detected. Asbestos consists of the six following minerals: chrysotile, amosite, crocidolite, anthophyllite, actinolite, and tremolite.

Additional gravimetric, point-count or TEM analysis may be recommended for samples testing at < or = 1% asbestos, or those with material binders that prevent the detection of small diameter fibers.

The following estimate of error for this method by visual estimation of asbestos percent are as follows:

1% asbestos: >0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.

Sincerely,

Muhammad Rauch

**PLM Analyst** 

## LabCor Lab/Cor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

PBS Engineering and Environmental

**BULK SAMPLE ASBESTOS ANALYSIS** 

Phone: (503) 224-5055 www.labcorpdx.com

P.O. No: n/a

Report Number: 222463R01

Report Date: 08/15/2022

Job Number:

Project Name:

Inc

Client:

Project Number: 25570.006 Phase 0001

222463

4412 S Corbett Avenue

Portland, OR 97239

**Project Notes:** Client Sample ID: 25570.006-0051 Date Analyzed: 08/15/2022 Sample ID: S1 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous 100 % 6 % 6 % fibrous powder, white 12 % Other Fibers **Fibrous** Mineral Other Glass Cellulose Wool Synthetic Matrix 88 % Client Sample ID: 25570.006-0052 Sample ID: S2 Date Analyzed: 08/15/2022 Ryan Talaski-Brown **Client Sample Description:** Analyst: **Asbestos Mineral Fibers** Percent Percent: Chrysotile Crocidolite Asbestos: Amosite Homogeneous fibrous material, 100 % 5 % 5 % brown/red **Other Fibers Fibrous** Mineral Glass Cellulose Wool Other Synthetic Matrix 80 % 15 % Client Sample ID: 25570.006-0053 08/15/2022 Sample ID: S3 Date Analyzed: **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous fibrous powder, off-white 100 % Trace 8 % 8 % Mineral Other Fibers **Fibrous** Other Glass Wool Cellulose Synthetic Matrix 92 % Client Sample ID: 25570.006-0054 Sample ID: S4 08/15/2022 Date Analyzed: **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous 8 % fibrous powder, white 100 % 8 % 16 % Other Fibers **Fibrous** Mineral Glass Cellulose Other Wool Synthetic Matrix



84 %

# Portland Lab/Cor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222463R01

Report Date: 08/15/2022

Asbestos and Environmental Analysis

Client: PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

**P.O. No**: n/a

Job Number: 222463

**Project Name:** 

Inc.

Project Number: 25570.006 Phase 0001

Client Sample ID: 25570.00	6-0055		Sample ID:	S5		Date Analyzed:	08/15/2022
Client Sample Description:						Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01	i ercent.	Omysome	Amosite	Crocidonile			Aspesios.
hard vinyl, green	98 %	_	-	_			NAD
Layer 02							
thin mastic, brown	2 %	-	-	-			NAD
Other Fibers Fibrou Glass	-	Mineral se Wool	Synthetic		Other		Matrix
Layer 01 -	-	-	-		-	-	100 %
Layer 02 -	-	-	-		-	-	100 %
Client Sample ID: 25570.00	6-0056		Sample ID:	S6		Date Analyzed:	08/15/2022
Client Sample Description:						Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
fibrous cement, gray	75 %	8 %	-	-			8 %
Layer 02							
fibrous backing, brown	25 %	-	-	-			NAD
Other Fibers Fibrou Glass		Mineral se Wool	Synthetic		Other		Matrix
Layer 01 -	- Cellulos	_			-	_	Matrix 92 %
Layer 02 -	100 %	-	-		-	-	0 %
Client Sample ID: 25570.00	6-0057		Sample ID:	<b>S</b> 7		Date Analyzed:	08/15/2022
Client Sample Description:			•			Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		•	Percent Asbestos:
Homogeneous							
hard compact powder, light gray	100 %	Trace	-	-			< 1 %
Other Fibers Fibrou Glass	-	Mineral se Wool	Synthetic		Other		Matrix 100 %

#### LabCor Portland Inc

## Lab/Cor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222463R01

P.O. No: n/a

Report Date: 08/15/2022

Asbestos and Environmental Analysis

Client: PBS Engineering and Environmental

4412 S Corbett Avenue

Portland, OR 97239

222463

Job Number: **Project Name:** 

**Project Number:** 25570.006 Phase 0001

**Project Notes:** 

**Other Fibers** 

**Fibrous** 

Glass

Cellulose

Mineral

Wool

Synthetic

Client Sample ID: 25570.006-0058 Sample ID: S8 Date Analyzed: 08/15/2022 **Client Sample Description:** Analyst: Ryan Talaski-Brown Percent **Asbestos Mineral Fibers** Laver Percent: Chrysotile Crocidolite Amosite Asbestos: Homogeneous loose hard material. 100 % NAD black/brown Other Fibers **Fibrous** Mineral Glass Wool Other Cellulose Synthetic Matrix 100 % Client Sample ID: 25570.006-0059 Sample ID: S9 Date Analyzed: 08/15/2022 **Client Sample Description:** Analyst: Tim Cammann **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous 100 % loose particulate, NAD brown/white/tan Other Fibers Fibrous Mineral Other Glass Cellulose Wool Synthetic Matrix 15 % 85 % 25570.006-0060 Client Sample ID: Sample ID: S10 Date Analyzed: 08/15/2022 **Client Sample Description:** Analyst: Tim Cammann **Asbestos Mineral Fibers** Percent Layer Percent: Chrysotile Amosite Crocidolite Asbestos: Layer 01 coating, white 10 % NAD Layer 02 compressed fibrous 90 % NAD material, tan/gray Mineral Other Fibers **Fibrous** Other Glass Cellulose Wool Synthetic Matrix 100 % Layer 01 Layer 02 45 % 45 % 10 % Client Sample ID: 25570.006-0061 Sample ID: S11 Date Analyzed: 08/15/2022 **Client Sample Description:** Analyst: Tim Cammann **Asbestos Mineral Fibers** Layer Percent Chrysotile Percent: **Amosite** Crocidolite Asbestos: Homogeneous loose particulate, off-100 % NAD white/pink/gray



Matrix 100 %

Other

4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Asbestos and Environmental Analysis

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 222463

**Project Name:** 

Inc.

Project Number: 25570.006 Phase 0001

**Project Notes:** 

**Report Number:** 222463R01 **Report Date:** 08/15/2022

P.O. No: n/a

Client Sample ID: 25	5570.00	6-0062		Sample ID:	S12		Date Analyzed:	08/15/2022	
Client Sample Descrip	otion:						Analyst:	Tim Cammann	
Asbestos Mineral Fib		Layer	01	,					Percent
		Percent:	Chrysotile	Amosite	Crocidolite				Asbestos:
Homogeneous									
loose particulate, white/green/yellow		100 %	-	-	-				NAD
Other Fibers	Fibrous		Mineral			•			
	Glass	Cellulos	e Wool	Synthetic		Other		Mat	
	-	-	-	-		-	-	10	0 %
Client Sample ID: 25	5570.00	6-0063		Sample ID:	S13		Date Analyzed:	08/15/2022	
Client Sample Descrip	otion:						Analyst:	Tim Cammann	
Asbestos Mineral Fib	<u>ers</u>	Layer					_		Percent
		Percent:	Chrysotile	Amosite	Crocidolite				Asbestos:
Layer 01									
woven fibers with coating, tan		70 %	-	-	-				NAD
Layer 02									
granular compact powder, off-white		30 %	-	-	-				NAD
Other Fibers	Fibrous	3	Mineral						
	Glass	Cellulos	e Wool	Synthetic		Other		Mat	trix
Layer 01	5 %	75 %	-	-		-	-	20	0 %
Layer 02	-	5 %	-	-		-	-	99	5 %
Client Sample ID: 2	5570.00	6-0064		Sample ID:	S14		Date Analyzed:	08/15/2022	
Client Sample Descrip	otion:			•			Analyst:	Tim Cammann	
Asbestos Mineral Fib		Layer					, ,		Percent
			Chrysotile	Amosite	Crocidolite				Asbestos:
Layer 01									
vinyl, red/yellow/ora	inge	82 %	-	-	-				NAD
Layer 02									
mastic, brown		18 %	-	-	-				NAD
Other Fibers	Fibrous	8	Mineral						
	Glass	Cellulos	e Wool	Synthetic		Other		Mat	trix
Layer 01	-	-	-	-		-	-		0 %
Layer 02	_	Trace	_	_		_	_	10	0 %

Inc.

# LabCor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222463R01

P.O. No: n/a

Asbestos and Environmental Analysis

PBS Engineering and Environmental Client:

4412 S Corbett Avenue Portland, OR 97239

Report Date: 08/15/2022

Job Number: 222463

**Project Name:** 

25570.006 Phase 0001

Project Number: **Project Notes:** 

Client Sample ID: 2	5570.00	6-0065		Sample ID:	S15		Date Analyzed:	08/15/2022	
Client Sample Descri	ption:						Analyst:	Tim Cammann	
Asbestos Mineral Fib	<u>oers</u>	Layer	Ohmus skils		0				Percent
		Percent:	Chrysotile	Amosite	Crocidolite				Asbestos:
Homogeneous	_	400.0/	25 %						25.0/
fibrous powder with paint, gray/green		100 %		-	-				25 %
Other Fibers	Fibrou Glass		Mineral se Wool	0 11 11-		Other			
	Glass	Cellulo	se woo	Synthetic -					trix 5 %
				-		-		/	J 70
	5570.00	6-0066		Sample ID:	S16		Date Analyzed:	08/15/2022	
Client Sample Descri	•						Analyst:	Tim Cammann	_
Asbestos Mineral Fib	<u>oers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Homogeneous									
loose granular pow gray/off-white/blue	der,	100 %	-	-	-				NAD
Other Fibers	Fibrou		Mineral			•			
	Glass	Cellulo	se Wool	Synthetic		Other			trix
	-	-	-	-		-	-	1(	00 %
Client Sample ID: 2	5570.00	6-0067		Sample ID:	S17		Date Analyzed:	08/15/2022	
Client Sample Descri	•						Analyst:	Tim Cammann	
Asbestos Mineral Fib	<u>oers</u>	Layer	Chrantila	A !t .	Our side lite				Percent
I 04		Percent:	Chrysotile	Amosite	Crocidolite				Asbestos:
Layer 01	~h4	40 %							NAD
rubbery material, lig	gni	40 %	-	-	-				NAD
Layer 02		00.0/							
rubbery mastic ma off-white/tan	terial,	60 %	-	-	-				NAD
Other Fibers	Fibrou		Mineral	<b>.</b>		Othor			
	Glass	Cellulo	se Wool	Synthetic		Other			trix
Layer 01	-	-	-	-		-	-		00 %
Layer 02	-	-	-	-		-	-	10	00 %
Client Sample ID: 2	5570.00	6-0068		Sample ID:	S18		Date Analyzed:	08/15/2022	
Client Sample Descri	•						Analyst:	Tim Cammann	
Asbestos Mineral Fib	<u>oers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Homogeneous									
loose mastic, tan/y	ellow	100 %	-	-	-				NAD
Other Fibers	Fibrou Glass		Mineral se Wool	Synthetic		Other		Ma	trix
	_	4 %	_			_	-		6 %



# Inc.

# LabCor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222463R01

P.O. No: n/a

Report Date: 08/15/2022

Asbestos and Environmental Analysis

PBS Engineering and Environmental Client:

4412 S Corbett Avenue Portland, OR 97239

Job Number: 222463

**Project Name:** 

Project Number: 25570.006 Phase 0001

Client Sample ID:	25570.00	6-0069		Sample ID:	S19		Date Analyzed:	08/15/2022	
Client Sample Des	cription:						Analyst:	Tim Cammann	
Asbestos Mineral		Layer							Percent
		Percent:	Chrysotile	Amosite	Crocidolite				Asbestos:
Layer 01									
vinyl, red		90 %	-	-	-				NAD
Layer 02									
thin coating with yellow/brown	mastic,	10 %	-	-	-				NAD
Other Fibers	Fibrou		Mineral						
	Glass	Cellulos	e Wool	Synthetic		Other		Ma	trix
Layer 01	-	-	-	-		-	-	10	00 %
Layer 02	-	6 %	-	-		-	-	9	4 %
Client Sample ID:	25570.00	6-0070		Sample ID:	S20		Date Analyzed:	08/15/2022	
Client Sample Des		0 00.0		oumpio izi	020		Analyst:	Tim Cammann	
Asbestos Mineral	•	Layer					7 <b></b>	• • • • • • • • • • • • • • • • •	Percent
			Chrysotile	Amosite	Crocidolite				Asbestos:
Homogeneous									
loose particulate	9,	100 %	2 %	-	-				2 %
Other Fibers	Fibrou	s	Mineral						
<del></del>	Glass	Cellulos	e Wool	Synthetic		Other		Ma	trix
	-	3 %	-	-		-	-	9	5 %
Client Comple ID:	25570.00	C 0074		Comple ID:	C21		Data Analyzadi	00/45/2022	
Client Sample ID:	25570.00	6-00/1		Sample ID:	521		Date Analyzed:	08/15/2022	
Client Sample Des	•	Lavar					Analyst:	Tim Cammann	Dovoent
Asbestos Mineral		Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Homogeneous									
loose particulate tan/brown	€,	100 %	-	-	-				NAD
Other Fibers	Fibrou		Mineral			011			
	Glass	Cellulos	e Wool	Synthetic		Other		Ma	trix
	-	15 %	-	-		-	-	8	5 %
Client Sample ID:	25570.00	6-0072		Sample ID:	S22		Date Analyzed:	08/15/2022	
Client Sample Des	cription:			•			Analyst:	Tim Cammann	
Asbestos Mineral	•	Layer					• • •		Percent
_ <del></del>		Percent:	Chrysotile	Amosite	Crocidolite				Asbestos:
Homogeneous									
loose granular p gray/off-white	owder,	100 %	-	-	-				NAD
Other Fibers	Fibrou	s	Mineral						
<del></del>	Glass	Cellulos	e Wool	Synthetic		Other		Ма	trix
	-	-	-	-		-	-	10	00 %



#### LabCor Lab/Cor Portland, Inc. Portland

4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222463R01

P.O. No: n/a

Asbestos and Environmental Analysis

Client: PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Report Date: 08/15/2022

Job Number: 222463

compressed fibers, gray

with paint, tan **Other Fibers** 

100 %

Cellulose

2 %

Mineral

Wool

10 %

Synthetic

**Fibrous** 

Glass

30 %

**Project Name:** 

Inc

Project Number: 25570.006 Phase 0001

**Project Notes:** 

Client Sample ID: 25570.006-0073 Sample ID: S23 Date Analyzed: 08/15/2022 **Client Sample Description:** Analyst: Tim Cammann Percent **Asbestos Mineral Fibers** Laver Percent: Chrysotile Crocidolite Asbestos: Amosite Homogeneous loose particulate, 100 % 2 % 2 % gray/off-white Other Fibers **Fibrous** Mineral Glass Wool Other Cellulose Synthetic Matrix Trace 98 % Client Sample ID: 25570.006-0074 Sample ID: S24 Date Analyzed: 08/15/2022 **Client Sample Description:** Analyst: Tim Cammann **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Asbestos: Amosite Crocidolite Homogeneous 100 % vinyl, green, with thin NAD coating, clear/tan/brown Other Fibers Fibrous Mineral Wool Other Glass Cellulose Synthetic Matrix 8 % 92 % Client Sample ID: 25570.006-0075 Sample ID: S25 Date Analyzed: 08/15/2022 **Client Sample Description:** Analyst: Muhammad Rauch **Asbestos Mineral Fibers** Percent Layer Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous

Other



NAD

Matrix

58 %

4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Asbestos and Environmental Analysis

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239 ronmental

**Report Date:** 08/15/2022

Report Number: 222463R01

P.O. No: n/a

Job Number: 222463

**Project Name:** 

Inc.

25570.006 Phase 0001

Project Number: Project Notes:

Client Sample ID: 25570.0	06-0076		Sample ID:	S26		Date Analyzed:	08/15/2022
Client Sample Description:						Analyst:	Muhammad Rauch
Asbestos Mineral Fibers	Layer	Ohmun akii -		0			Percent
	Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Layer 01							
hard vinyl, red	70 %	-	-	-			NAD
Layer 02							
fine compact powder, off- white/tan	20 %	-	-	-			NAD
Layer 03							
thin mastic, black	10 %	-	-	-			NAD
Other Fibers Fibro	us	Mineral					
Gla	s Cellulo	se Wool	Synthetic		Other		Matrix
Layer 01 -	2 %	-	-		-	-	98 %
Layer 02 -	2 %	-	-		-	-	98 %
Layer 03 Trac	e -	-	-		-	-	100 %
Client Sample ID: 25570.0	06-0077		Sample ID:	S27		Date Analyzed:	08/15/2022
Client Sample Description:						Analyst:	Muhammad Rauch
Asbestos Mineral Fibers	Layer					•	Percent
	Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Homogeneous							
loose mastic particulate, green/brown	100 %	Trace	-	-			< 1 %
Other Fibers Fibro							< 1 %
	us	Mineral					C 1 76
Gla			Synthetic		Other		
Gla Trac	s Cellulo		Synthetic -		Other -	_	Matrix 98 %
Trac	s Cellulo	se Wool	•	S28	Other -	- Date Analyzed:	Matrix
Trac	e 2 %	se Wool	<u>-</u>	S28	Other -	- Date Analyzed: Analyst:	Matrix 98 %
Client Sample ID: 25570.0	Cellulo e 2 % 06-0078  Layer	se Wool -	Sample ID:		Other -	•	Matrix 98 % 08/15/2022 Muhammad Rauch Percent
Client Sample ID: 25570.0 Client Sample Description:	Cellulo e 2 % 06-0078  Layer	se Wool	<u>-</u>	S28 Crocidolite	Other -	•	Matrix 98 % 08/15/2022 Muhammad Rauch
Client Sample ID: 25570.0 Client Sample Description: Asbestos Mineral Fibers Homogeneous	Cellulo e 2 % 06-0078 Layer Percent:	se Wool -	Sample ID:		Other -	•	Matrix 98 % 08/15/2022 Muhammad Rauch Percent
Client Sample ID: 25570.0 Client Sample Description: Asbestos Mineral Fibers	Cellulo e 2 % 06-0078  Layer	se Wool -	Sample ID:		Other -	•	Matrix 98 % 08/15/2022 Muhammad Rauch Percent
Client Sample ID: 25570.0 Client Sample Description: Asbestos Mineral Fibers  Homogeneous compressed fibers, gray with paint, tan Other Fibers  Fibro	SS Cellulo e 2 %  06-0078  Layer Percent:  100 %  us	se Wool - Chrysotile - Mineral	Sample ID:		-	•	Matrix 98 % 08/15/2022 Muhammad Rauch Percent Asbestos:
Client Sample ID: 25570.0 Client Sample Description: Asbestos Mineral Fibers  Homogeneous compressed fibers, gray with paint, tan	SS Cellulo e 2 %  06-0078  Layer Percent:  100 %  us	se Wool - Chrysotile - Mineral	Sample ID:		Other - Other	•	Matrix 98 % 08/15/2022 Muhammad Rauch Percent Asbestos:



4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Asbestos and Environmental Analysis

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239 Report Number: 222463R01

Report Date: 08/15/2022

P.O. No: n/a

Job Number: 222463

Project Name:

Inc.

Project Number: 25570.006 Phase 0001

	70.006	6-0079		Sample ID:	S29		Date Analyzed:	08/15/2022	
Client Sample Descript							Analyst:	Muhammad Raud	
Asbestos Mineral Fiber		Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Homogeneous		i GIUCIII.	Jin y Soune	AIIIUSILE	Crocidonie				ASDESIOS:
hard compact powde	r	100 %	3 %						3 %
off-white/gray with	Ι,	100 /0	3 70	-	-				3 76
coating, black									
Other Fibers	Fibrous		Mineral						
	Glass	Cellulos	se Wool	Synthetic		Other		Mat	
	-	2 %	-	Trace		-	-	95	5 %
Client Sample ID: 255	70.006	6-0080		Sample ID:	S30		Date Analyzed:	08/15/2022	
Client Sample Descripti	ion:						Analyst:	Tim Cammann	
Asbestos Mineral Fiber		Layer							Percent
		Percent:	Chrysotile	Amosite	Crocidolite				Asbestos:
Homogeneous									
loose particulate, off- white/gray		100 %	-	-	-				NAD
Other Fibers	Fibrous		Mineral			011			
	Glass	Cellulos	se Wool	Synthetic		Other		Mat	
	-	-	-	-		-	-	10	0 %
Client Sample ID: 255	70.006	6-0081		Sample ID:	S31		Date Analyzed:	08/15/2022	
Client Sample Descript	ion:			•			Analyst:	Tim Cammann	
Client Sample Descripti Asbestos Mineral Fiber	rs	Layer		•			Analyst:	Tim Cammann	Percent
Asbestos Mineral Fiber	rs		Chrysotile	Amosite	Crocidolite		Analyst:	Tim Cammann	Percent Asbestos:
Asbestos Mineral Fiber	<u>rs</u>	Percent:	Chrysotile	•	Crocidolite		Analyst:	Tim Cammann	Asbestos:
Asbestos Mineral Fiber	<u>rs</u>		Chrysotile -	•	Crocidolite		Analyst:	Tim Cammann	
Asbestos Mineral Fiber  Homogeneous  soft rubbery material, white	<u>rs</u> , off- Fibrous	Percent:	- Mineral	Amosite	Crocidolite -	QU.	Analyst:	Tim Cammann	Asbestos:
Asbestos Mineral Fiber  Homogeneous  soft rubbery material, white	r <u>s</u> , off-	Percent:  100 %  Cellulos	- Mineral se Wool	•	Crocidolite -	Other	Analyst:	Mat	Asbestos: NAD
Asbestos Mineral Fiber  Homogeneous  soft rubbery material, white	<u>rs</u> , off- Fibrous	Percent:	- Mineral se Wool	Amosite	Crocidolite -	Other -	Analyst:	Mat	Asbestos:
Asbestos Mineral Fiber  Homogeneous soft rubbery material, white Other Fibers	<u>rs</u> , off- Fibrous	Percent:  100 %  Cellulos  Trace	- Mineral se Wool	Amosite	-	Other -	Analyst:	Mat 10 08/15/2022	Asbestos: NAD
Asbestos Mineral Fiber  Homogeneous soft rubbery material, white Other Fibers	rs off- Fibrous Glass -	Percent:  100 %  Cellulos  Trace	- Mineral se Wool	Amosite  - Synthetic -	-	Other -	<u>-</u>	<b>M</b> at 10	Asbestos: NAD
Asbestos Mineral Fiber  Homogeneous     soft rubbery material,     white  Other Fibers  Client Sample ID: 255	rs off- Fibrous Glass - 570.006 ion:	Percent:  100 %  Cellulos Trace  5-0082  Layer	- Mineral se Wool	Amosite  - Synthetic -	-	Other -	- Date Analyzed:	Mat 10 08/15/2022	Asbestos: NAD
Asbestos Mineral Fiber  Homogeneous soft rubbery material, white Other Fibers  Client Sample ID: 255 Client Sample Description	rs off- Fibrous Glass - 570.006 ion:	Percent:  100 %  Cellulos Trace  5-0082  Layer	- Mineral se Wool -	Amosite  - Synthetic - Sample ID:	- S32	Other -	- Date Analyzed:	Mat 10 08/15/2022	Asbestos:  NAD  rix 0 %
Asbestos Mineral Fiber  Homogeneous soft rubbery material, white Other Fibers  Client Sample ID: 255 Client Sample Descripti Asbestos Mineral Fiber	rs , off- Fibrous Glass - 570.006 ion:	Percent:  100 %  Cellulos Trace  5-0082  Layer	- Mineral se Wool -	Amosite  - Synthetic - Sample ID:	- S32	Other -	- Date Analyzed:	Mat 10 08/15/2022	Asbestos:  NAD  rix 0 %
Asbestos Mineral Fiber  Homogeneous soft rubbery material, white Other Fibers  Client Sample ID: 255 Client Sample Descripti Asbestos Mineral Fiber  Homogeneous soft rubbery material, white	rs , off- Fibrous Glass - 570.006 ion:	Percent:  100 %  Cellulos Trace  5-0082  Layer Percent:  100 %	- Mineral se Wool -	Amosite  - Synthetic - Sample ID:	- S32	Other -	- Date Analyzed:	Mat 10 08/15/2022	Asbestos:  NAD  rix 0 %  Percent Asbestos:
Asbestos Mineral Fiber  Homogeneous soft rubbery material, white Other Fibers  Client Sample ID: 255 Client Sample Descripti Asbestos Mineral Fiber  Homogeneous soft rubbery material, white	rs off- Fibrous Glass - 570.006 ion: rs	Percent:  100 %  Cellulo: Trace  6-0082  Layer Percent:  100 %	Mineral Wool  Chrysotile  Mineral	Amosite  - Synthetic - Sample ID:	- S32	Other -	- Date Analyzed:	Mat 10 08/15/2022	Asbestos:  NAD  rix 0 %  Percent Asbestos:  NAD



4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Asbestos and Environmental Analysis

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239 Report Number: 222463R01

Report Date: 08/15/2022

P.O. No: n/a

Job Number: 222463

**Project Name:** 

Inc.

25570.006 Phase 0001

**Project Notes:** 

Project Number:

Client Sample ID: 25	570 00e	. 0002		Sample ID:	633		Data Analyzadi	08/15/2022	
	570.006	-0083		Sample ID:	333		Date Analyzed:	Tim Cammann	
Client Sample Descript		Layer					Analyst:	riin Cammann	Percent
Asbestos Mineral Fibe			Chrysotile	Amosite	Crocidolite				Asbestos:
Homogeneous									
loose rubbery particulate, gray		100 %	-	-	-				NAD
Other Fibers	Fibrous		Mineral			Other			
	Glass -	Cellulos -	se Wool -	Synthetic -		Other -	-	Ma 10	trix 10 %
Client Sample ID: 25	570.006	-0084		Sample ID:	S34		Date Analyzed:	08/15/2022	
Client Sample Descript	tion:						Analyst:	Tim Cammann	
Asbestos Mineral Fibe		Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Homogeneous									
soft powdery materia brown/gray	al,	100 %	3 %	-	-				3 %
Other Fibers	Fibrous		Mineral						
	Glass	Cellulos	se Wool	Synthetic		Other		Ma	
	-	-	-	-		-	-	9	7 %
	570.006	-0085		Sample ID:	S35		Date Analyzed:	08/15/2022	
Client Sample Descript							Analyst:	Muhammad Rau	
Asbestos Mineral Fibe		Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Homogeneous									
hard compact powde off-white/gray	er,	100 %	2 %						
			2 /0	-	-				2 %
Other Fibers	Fibrous		Mineral	-	-				2 %
Other Fibers	Fibrous Glass -	Cellulos -	Mineral	Synthetic	-	Other -	-	<b>M</b> a 9	
		Cellulos -	Mineral Se Wool	Synthetic - Sample ID:	S36	Other -	- Date Analyzed:		trix
	Glass - 570.006	Cellulos -	Mineral Se Wool	-	S36	Other -	- Date Analyzed: Analyst:	9	trix 8 %
Client Sample ID: 25	Glass - 570.006 tion:	Cellulos -	Mineral Se Wool	-	S36	Other -		08/15/2022	trix 8 %
Client Sample ID: 25: Client Sample Descript Asbestos Mineral Fibe	Glass - 570.006 tion: ers	Cellulos - 5-0086	Mineral Se Wool	-	S36 Crocidolite	Other -		08/15/2022	trix 8 %
Client Sample ID: 25:	Glass - 570.006 tion: ers	Cellulos - 6-0086 Layer	Mineral Se Wool	Sample ID:		Other -		08/15/2022	trix 8 % ch Percent
Client Sample ID: 25: Client Sample Descript Asbestos Mineral Fibe	Glass - 570.006 tion: ers	Cellulos - 6-0086 Layer	Mineral Se Wool	Sample ID:		Other -		08/15/2022	trix 8 % ch Percent
Client Sample ID: 25: Client Sample Descript Asbestos Mineral Fibe Homogeneous mastic, brown with	Glass - 570.006 tion: ers	Cellulos - 6-0086  Layer Percent: 100 %	Mineral Wool  -  Chrysotile  3 %  Mineral	Sample ID:		Other -		08/15/2022	trix 8 %  ch Percent Asbestos:



#### LabCor Portland Inc

## Lab/Cor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222463R01

P.O. No: n/a

Report Date: 08/15/2022

Asbestos and Environmental Analysis

<u>Client:</u> PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Portland, OR 97239

Job Number: Project Name:

Project Number: 25570.006 Phase 0001

**Project Notes:** 

Client Sample ID: 25570.006-0087 Sample ID: S37 Date Analyzed: 08/15/2022 **Client Sample Description:** Analyst: Muhammad Rauch **Asbestos Mineral Fibers** Laver Percent Percent: Chrysotile Crocidolite Amosite Asbestos: Homogeneous hard compact powder, 100 % Trace < 1 % off-white/green **Fibrous** Mineral Other Fibers Glass Wool Other Cellulose Synthetic Matrix Trace 100 % Client Sample ID: 25570.006-0088 Sample ID: S38 Date Analyzed: 08/15/2022 **Client Sample Description:** Analyst: Muhammad Rauch **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Layer 01 hard compact powder, 40 % NAD red Layer 02 60 % granular compact NAD powder, gray **Other Fibers Fibrous** Mineral Other Glass Cellulose Wool Synthetic Matrix 100 % Layer 01 Trace Layer 02 100 % Client Sample ID: 25570.006-0089 Sample ID: S39 Date Analyzed: 08/15/2022 **Client Sample Description:** Analyst: Muhammad Rauch **Asbestos Mineral Fibers** Percent Layer Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous rubbery material, gray 100 % NAD with coating, brown Other Fibers Fibrous Mineral Glass Wool Other Cellulose Synthetic Matrix 100 % Trace Client Sample ID: 25570.006-0090 Sample ID: S40 08/15/2022 Date Analyzed: **Client Sample Description:** Analyst: Tim Cammann **Asbestos Mineral Fibers** Percent Layer Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous granular powder, 100 % NAD gray/red/brown Other Fibers **Fibrous** Mineral Other Glass Wool Cellulose Synthetic Matrix 100 %



4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Asbestos and Environmental Analysis

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 222463

**Project Name:** 

Inc.

Project Number: 25570.006 Phase 0001

**Project Notes:** 

**Report Number:** 222463R01 **Report Date:** 08/15/2022

P.O. No: n/a

Client Sample ID: 2	5570.006-0091		Sample ID:	S41		Date Analyzed:	08/15/2022	
Client Sample ID. 2			Jampie ID.	U <del>T</del> 1		Analyst:	Tim Cammann	
Asbestos Mineral Fib						Analysti		Percent
ASSESSES MINICIALLIA		t: Chrysotile	Amosite	Crocidolite				Asbestos:
Homogeneous								
compact powdery material, gray/brow	100 % n	3 %	-	-				3 %
Other Fibers	Fibrous Glass Cellu 	Mineral ulose Wool	Synthetic -		Other	-		trix 7 %
Client Sample ID: 2	5570.006-0092		Sample ID:	S42		Date Analyzed:	08/15/2022	
Client Sample Descrip	ption:					Analyst:	Tim Cammann	
Asbestos Mineral Fib		t: Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Homogeneous								
loose particulate, o white/brown	ff- 100 %	2 %	-	-				2 %
Other Fibers	Fibrous	Mineral						
	Glass Cellu	ılose Wool	Synthetic		Other		Ma	trix
	- Tra	ice -	-		-	-	9	8 %
Client Commis ID. 0	FF70 000 0000		0 In ID	C42		Data Analysis di	00/45/2022	
Client Sample ID: 2	5570.006-0093		Sample ID:	343		Date Analyzed:	08/15/2022	
Client Sample ID: 2			Sample ID:	545		Date Analyzed: Analyst:	Tim Cammann	
	ption: ers Layer	t: Chrysotile	Amosite	Crocidolite		-		Percent Asbestos:
Client Sample Descrip	ption: ers Layer		•			-		
Client Sample Descrip  Asbestos Mineral Fib  Homogeneous  compact powdery material,	ption: ers Layer	t: Chrysotile	•			-		
Client Sample Descrip Asbestos Mineral Fib Homogeneous compact powdery material, gray/white/brown	<b>ption:</b> l <u>ers</u> Layer Percen	t: Chrysotile	•			-		Asbestos:
Client Sample Descrip  Asbestos Mineral Fib  Homogeneous  compact powdery material,	ption: <u>vers</u> Layer Percen	t: Chrysotile 2 % Mineral	Amosite		Other	-	Tim Cammann	Asbestos:
Client Sample Descrip Asbestos Mineral Fib Homogeneous compact powdery material, gray/white/brown	ption: lers Layer Percen 100 %	t: Chrysotile 2 % Mineral	•		Other -	-	Tim Cammann	Asbestos:
Client Sample Descrip Asbestos Mineral Fib Homogeneous compact powdery material, gray/white/brown Other Fibers	ption: lers Layer Percen 100 %	t: Chrysotile 2 % Mineral	Amosite	Crocidolite -	Other -	-	Tim Cammann	Asbestos: 2 % trix
Client Sample Descrip Asbestos Mineral Fib Homogeneous compact powdery material, gray/white/brown Other Fibers	ption: Pers Layer Percen 100 % Fibrous Glass Cellu 5570.006-0094	t: Chrysotile 2 % Mineral	Amosite  - Synthetic -	Crocidolite -	Other -	Analyst:	Tim Cammann Ma 9	Asbestos: 2 % trix
Client Sample Descrip Asbestos Mineral Fib Homogeneous compact powdery material, gray/white/brown Other Fibers	ption: Pers Layer Percen  100 %  Fibrous Glass Cellu  5570.006-0094 ption:	t: Chrysotile 2 %  Mineral Wool -	Amosite  - Synthetic -	Crocidolite -	Other -	Analyst:	Ma 9	Asbestos: 2 % trix
Client Sample Descrip Asbestos Mineral Fib Homogeneous compact powdery material, gray/white/brown Other Fibers  Client Sample ID: 2 Client Sample Descrip	ption: Pers Layer Percen  100 %  Fibrous Glass Cellu  5570.006-0094 ption: Pers Layer	t: Chrysotile 2 %  Mineral Wool -	Amosite  - Synthetic - Sample ID:	Crocidolite - S44	Other -	Analyst:	Ma 9	Asbestos: 2 % trix 8 % Percent
Client Sample Descrip Asbestos Mineral Fib Homogeneous compact powdery material, gray/white/brown Other Fibers  Client Sample ID: 2 Client Sample Descrip Asbestos Mineral Fib	ption:  Pers Layer Percen  100 %  Fibrous Glass Cellu  5570.006-0094 ption: Percen  Percen	t: Chrysotile 2 %  Mineral Wool - t: Chrysotile	Amosite  - Synthetic - Sample ID:	Crocidolite - S44	Other -	Analyst:	Ma 9	Asbestos: 2 % trix 8 % Percent
Client Sample Descrip Asbestos Mineral Fib Homogeneous compact powdery material, gray/white/brown Other Fibers  Client Sample ID: 2 Client Sample Descrip Asbestos Mineral Fib Homogeneous soft compact powde	ption: Layer Percen  100 %  Fibrous Glass Cellu  5570.006-0094 ption: Layer Percen  er, 100 %  Fibrous	t: Chrysotile  2 %  Mineral Wool  -  t: Chrysotile  2 %  Mineral	Amosite  - Synthetic - Sample ID:	Crocidolite - S44	-	Analyst:	Ma 9	Asbestos:  2 %  trix 8 %  Percent Asbestos:
Client Sample Descrip Asbestos Mineral Fib Homogeneous compact powdery material, gray/white/brown Other Fibers  Client Sample ID: 2 Client Sample Descrip Asbestos Mineral Fib Homogeneous soft compact powdebrown/gray	ption:  lers Layer Percen  100 %  Fibrous Glass Cellu  5570.006-0094 ption: lers Layer Percen  er, 100 %	t: Chrysotile  2 %  Mineral Wool  -  t: Chrysotile  2 %  Mineral	Amosite  - Synthetic - Sample ID:	Crocidolite - S44	Other -	Analyst:	Ma 9	Asbestos:  2 %  trix 8 %  Percent Asbestos:  2 %



## LabCor Lab/Cor Portland, Inc.

4321 South Corbett Ave., Ste A Portland, OR 97239

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 222463R01

P.O. No: n/a

Report Date: 08/15/2022

Asbestos and Environmental Analysis

Client: PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 222463

Project Name:

Project Number: 25570.006 Phase 0001

**Project Notes:** 

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Testing method is per EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials and EPA - 40CFR App. E to Subpart E of Part 763, PLM. This report and the data contained therein cannot be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

- "NAD" is No Asbestos Detected.
- · Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
- Material binders, such as those found in vinyl floor tiles, may prevent the detection of small diameter asbestos fibers. A gravimetric preparation and point-count is recommended for such samples.
- Quantitative analysis by PLM point count or TEM may be recommended for samples testing at < or = to 1% asbestos.
- The following estimate of error for this method by visual estimation of asbestos percent are as follows:
- 1% asbestos: >0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.
- This report pertains only to the samples listed on the report. Report considered valid only when signed by analyst.

Reviewed by:

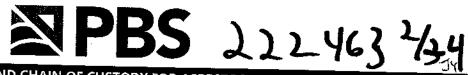
x Muhammad Rauch

PLM Analyst

Reviewed by:		·					•	
Results Release	sed on:				_			
Invoice Releas	sed on:			DD				
Verbal E	Email	Physical	V	PR		21	1	111
		•				גג	י נ	4h

verbar Email	Priysical	<b>DJ</b> 7 ) ) 462 424
TRAI	NSMITTAL AND CHAIN OF C	USTODY FOR ASBESTOS BULK SAMPLES
<b>Project No.:</b> 25570.00	<u> </u>	7
Individuals signing this form we original. The Receiver should co immediately to Sender.	arrant that the information provided Complete the form, keep a copy and r	f is correct and complete. The Sender should keep a copy and send the eturn the original to the Sender. Receiver shall report damage of package
SENDER		RECEIVER / /
Date Sent: August 11,	2022	Date Received: 8/1/22
PBS Engineering and Envi	ronmental Inc.	Company: Lab Cor
4412 S Corbett Avenue		Address: 4321 S Corbett Ave Ste A
Portland, OR 97239		, Portland, OR 97239
503.248.1939, Fax: 866.72	7.0140	503-224-5055
Name	<del></del>	MARE DOMANT
	0/1	Name
- W	_ 3/0/m 1330	SUMULIST.
Authorized Signature	Date Time	Authorized Signature Date Time
Sender's ID No.	<b>Brief Description</b>	Receiver's ID No.
25570 006- <del>0014</del> JY		
25570.006-0017 TY	·	
25570.006-0051		· · · · · · · · · · · · · · · · · · ·
25570,006-0052		
25570.006-0053		
25570.006-0054		·
25570.006-0055	· — — — — — — — — — — — — — — — — — — —	
25570.006-0056		
25570.006-0057		
25570.006-0058		
25570.006-0059		
25570.006-0060		
25570.006-0061		

25570.006-0062



## TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

25570.006-0063	·	. "
25570.006-0064		
25570.006-0065		
25570.006-0066		
25570.006-0067		
25570.006-0068		
25570.006-0069		
25570.006-0070		
25570.006-0071		
25570.006-0072	<u> </u>	
25570.006-0073		
25570.006-0074		·
25570.006-0075		
25570.006-0076		
25570.006-0077		,
25570.006-0078		
25570.006-0079		
25570.006-0080		
25570.006-0081		
25570.006-0082		
25570.006-0083		
25570.006-0084		
25570.006-0085		
25570.006-0086		
25570.006-0087		



2224633/44

## TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

25570.006-0088			· · · · · ·
25570.006-0089		*	
25570.006-0090			
25570.006-0091			<del>-</del> .
25570.006-0092			<u> </u>
25570.006-0093			_
25570.006-0094			_
Please analyze the enclosed 46 sample(s) for notification if samples will be disposed.  Request verbal results by: AM/PM Please fax and mail the results to the above TURNAROUND DESIRED:	Date.	LM with dispersion staining. PBS n	equests prior
TURNAROUND DESIRED: //2 Ho	our)		
SPECIAL INSTRUCTIONS:			
· .	· · ·	. J.	/ry.



#### LABORATORY REPORT

PBS Engineering & Environmental 4412 South Corbett Ave Portland, OR 97239

Attn: Alex Johnson Phone: 503-248-1939

Email: alex.johnson@pbsusa.com

RJ Lee Group Job No.: PA120820220018 Samples Received: August 12, 2022 Report Date: August 17, 2022 Client Project: 25570.006 Phase 0001

Purchase Order No.: N/A Matrix: Solid

Prep/Analysis: EPA 3050B / EPA 6010C-Paint

				Sample Co	oncentration	Minimum R	eporting Limit		-
Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg	Analysis Date	Q
LB25570.006-1001	PA120820220018-001	NP	Lead	0.312	3120	0.0121	121	8/15/2022	A
LB25570.006-1002	PA120820220018-002	NP	Lead	0.0161	161	0.00120	12.0	8/15/2022	A
LB25570.006-1003	PA120820220018-003	NP	Lead	0.645	6450	0.0159	159	8/15/2022	A
LB25570.006-1004	PA120820220018-004	NP	Lead	1.61	16100	0.123	1230	8/15/2022	A
LB25570.006-1005	PA120820220018-005	NP	Lead	0.394	3940	0.0115	115	8/15/2022	A
LB25570.006-1006	PA120820220018-006	NP	Lead	0.0108	108	0.00123	12.3	8/15/2022	A

#### Comments:

Report Qualifiers (Q):

P: PA-DEP Accredited (PA DEP Lab ID 02-00396, NELAP)
N: NY ELAP Accredited (NY ELAP Lab Code 10884)

A: AIHA LAP, LLC Accredited (Lab ID 100364)

E = Value above highest calibration standard

J = Value below lowest calibration standard but above MDL (Method Detection Limit)

L = LCS (Laboratory Control Standard)/SRM (Standard Reference Material) recovery

outside accepted recovery limits

H = Holding times for preparation or analysis exceeded

- : Test (analyte-matrix-preparation-analysis) is performed under RJLG's General Quality System requirements and is not part to any of the above scopes of accredidations

B = Analyte detected in the associated Method Blank

 $S = Spike \ Recovery \ outside \ accepted \ limits$ 

R = RPD (relative percent difference) outside accepted limits

 $D = RL \; (reporting \; limit \; verification) \; outside \; accepted \; limits$ 

NP = Not Provided

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.

This laboratory operates in accord with ISO 17025:2017 guidelines, and holds a limited scope of accreditations under different accrediting agencies; refer to http://www.rjlg.com/about-us/accreditations/ for more information and current status. Unless it is specifically stated otherwise (under the Q column using the appropriate accrediting agency qualifier(s)) the work contained in this report is performed under RJLG's General Quality System requirements and is not part of any scope of accreditations. This report may not be used to claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or to the sample(s) as received by the laboratory. Any reproduction of this document must be in full for the report to be valid.

Unless otherwise noted (either in the comments section of the report and/or with the appropriate qualifiers (Q) column) the following apply: (a) Samples were received in good condition, (b) All QC samples are within acceptable established limits, (c) All samples designated as NELAP meet the requirements of the NELAC standard; if not applicable qualifiers will be used to designate the non-compliance and (d) Results have not been blank corrected. Quality Control data is available upon request.

Philip Grindle

Laboratory Supervisor



#### TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

SENDER		RECEIVER			
Date Sent: August 11, 2022	2	Date Recei	ved: 08/12/22 10:0	8 am	
PBS Engineering and Environn	nental Inc.	Company:	Extraction (State Sector - Annies Activities (Sect		
1412 S Corbett Avenue		Address:	350 Hochberg Road		
Portland, OR 97239			Monroeville, PA 15146		
503.248.1939, Fax: 866.727.01	40	•	724-325-1776		
Her Subin		Emily Vara	10	ri e	
Name	1 /	Name			
h	8/4/22	Caly Voep		08/12/22	10:05
Authorized Signature	Date	Authorized	Signature	Date	
Sandada IB Na	D. CD.				
Sender's ID No.	Brief Description		Receiver's ID No.		
B25570.006-1001 B25570.006-1002				-	
B25570.006-1002				_	
.B25570.006-1004				-	
.B25570.006-1005				-	
Commence of the Commence of th		<u> </u>		-	
.B25570.006-1006	_			_	
ANALYSIS REQUESTED:	Please analyze the en PBS requests prior no		or LEAD content using Atomic Abso	rption Method.	
LEAD: Paint		,			
Wipe				9	
	Please fax and mail th	ne results to the abov	re address.		
☐ Soil/Misc.	TURNAROUND	DESIRED:			
☐ Air	72 Hour				
☐ TCLP	12 Hour				
SPECIAL INSTRUCTIONS:					
				340/BU	

**Project No.:** 

25570.006

Phase 0001

## THIS IS TO CERTIFY THAT

## **JOE LUCAS**

# 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

**PBS** 

Course Date: 01/27/2022

Course Location: Online,

Certificate: IR-22-3527B

For verification of the authenticity of this certificate contact:
PBS Engineering and Environmental Inc.

4412 S Corbett Avenue Portland, OR 97239 503,248.1939

#### 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:** 01/27/2023

Andy Fridley, Instructor

ander Fielly

## THIS IS TO CERTIFY THAT

## **BRIAN WEHNER**

# 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

**PBS** 

Course Date: 01/27/2022

Course Location: Online,

Certificate: IR-22-7306B

For verification of the authenticity of this certificate contact:
PBS Engineering and Environmental Inc.

4412 S Corbett Avenue Portland, OR 97239 503,248.1939

#### 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:** 01/27/2023

Andy Fridley, Instructor

ander Fielly