

Asbestos Survey Report

Riverdale High School
9727 SW Terwilliger Blvd
Portland, OR 97219

Prepared for:

Riverdale School District

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Sample Inventories	2.1
Laboratory Data	Not Numbered
AHERA Certificates	Not Numbered



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GENERAL INFORMATION

BUILDING DATA

Riverdale High School
9727 SW Terwilliger Blvd
Portland, OR 97219

CLIENT DATA

Riverdale School District
11733 SW Breyman Ave
Portland, OR 97219

BACKGROUND INFORMATION

SURVEY SCOPE

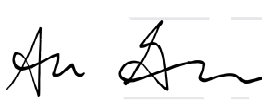
PBS Engineering and Environmental Inc. (PBS) has performed a general asbestos survey of accessible interior building areas in accordance with OSHA in 29 CFR 1910.1001 and compiled a report with the following information:

- The type, location, and approximate quantity of suspect asbestos-containing materials
- Bulk sampling of selected suspect building materials
- Inspection summary
- Laboratory analytical data of bulk material sampled

With regard to asbestos, PBS endeavored to locate all the suspect asbestos-containing materials inside the building; however, suspect asbestos-containing materials may be present and concealed within wall, ceiling, or floor spaces. If suspect materials are uncovered during demolition activities that are not identified in this report, testing should be performed prior to impact.

PBS has conducted a physical inspection of the building, 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.

Sean Grabiner
Project Manager/Prime Inspector
Accreditation #: IRO-22-4508B

 Digitally signed by Sean Grabiner
Date: 2024.01.17 16:46:55 -08'00'

Signature

Date

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INSPECTION SUMMARY

DATES	SURVEYED BY	ACTIVITY
11/10/2023	Sean Grabiner	Begin Survey
11/17/2023	Sean Grabiner	Complete Survey

PBS has investigated accessible areas inside of the building(s) to locate suspect asbestos-containing building materials (ACBM). Suspect materials may be present in concealed areas (e.g., behind walls and under carpet). The findings are listed below.

ASBESTOS MATERIALS

The following materials either tested positive, or, based on the experience of PBS field personnel, were not tested and should be considered asbestos-containing. Materials that had mixed results are considered positive. Materials not sampled may contain asbestos and should be tested to verify asbestos content prior to impact through demolition, renovation, etc.
(+) Tested Positive, (M) Mixed Results, (P) Presumed Positive, (T) Previously Tested Positive.

See sample inventory for specific results.

<u>Results</u>	<u>Material Description</u>	<u>Location</u>	<u>Details</u>
(M) 2%	Residual Black Flooring Mastic Associated with 12-inch Vinyl Floor Tiles	Original Building; Lower Level Classrooms	NOT QUANTIFIED Non-friable Good Response Action: Manage in place.

INSPECTION SUMMARY

MATERIALS THAT TESTED NEGATIVE FOR ASBESTOS

The following materials tested negative based on ASHARA sampling minimums and testing by NVLAP participating laboratories. Although no asbestos was detected, it is possible that further sampling could indicate asbestos content. It may be prudent to test prior to impact through demolition, renovation, etc.

<u>Material (type)</u>	<u>Location</u>
Yellow Carpet Mastic	Throughout Entire Building
12-inch Grey Vinyl Floor Tile and Associated Black Mastic	Original Building; Server Room 203A
Gypsum Wallboard and Associated Joint Compound	Throughout Entire Building
4-inch Black Covebase and Associated Cream Mastic	Throughout Entire Building
Black Sink Undercoating	Throughout Entire Building
1' x 1' White Peghole Ceiling Tile and Associated Brown Mastic	Original Building; Main Floor Classrooms
Grey Spray-on Fibrous Fireproofing	Throughout Entire Building
Black Lab Countertop	Original Building; Lower Level Classrooms 100 and 101
Grey Duct Seam Sealant	Original Building; Multiple Locations
6-inch Black Covebase and Associated Cream Mastic	Throughout Entire Building
2' x 4' White Pin and Fissure Lay-in Ceiling Tile	Throughout Entire Building
Wall and Ceiling Plaster	Original Building; Multiple Locations
Black Roofing Debris	Original Building; Attic
2' x 4' White Gypsum Lay-in Ceiling Tile	New Building; Kitchen
Blue Sheet Floor Covering and Associated White Mastic	New Building; Multiple Locations
Beige Sheet Floor Covering and Associated Yellow Mastic	New Building; Breakroom 118
Blue Speckled Sheet Floor Covering and Associated Cream Mastic	New Building; Lower Level Entrance Near Maintenance Office
Blue Rubber Flooring and Associated Tan Mastic	New Building; Weight Room 115
Grey Mortar Associated with CMU Walls	New Building; Multiple Locations
Cream Colored Mastic Associated with FRP Wall Panels	New Building; Custodial Closets

INSPECTION SUMMARY

BACKGROUND

Between November 10 and 17, 2023, PBS performed a general asbestos survey of Riverdale High School located at 9727 SW Terwilliger Blvd in Portland, Oregon. The survey was requested by Riverdale School District.

The purpose of the survey was to locate, identify, and quantify accessible friable and non-friable asbestos-containing building materials to aid in the creation of new Asbestos Hazard Emergency Response Act (AHERA) documents.

The survey is also intended to satisfy Occupational Safety and Health Administration (OSHA) hazard communication requirements as well as requirements by the Department of Environmental Quality (DEQ) to perform an asbestos inspection prior to renovation or demolition activities under Oregon Administrative Rule (OAR) 340-248-0270.

ASBESTOS SUMMARY

The campus was inspected by a PBS AHERA accredited inspector to determine the presence, location, and approximate quantity of asbestos-containing materials (ACM). 85 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:

- Residual black flooring mastic associated with non-asbestos 12-inch vinyl floor tiles was identified in the lower-level classrooms of the original construction. Results were mixed. Until additional sampling can be performed, mastic associated with all 12-inch vinyl floor tiles in the lower level classrooms of the original construction should be considered asbestos-containing.

At the time of this survey, all asbestos-containing building materials were observed to be in good condition.

Please refer to the asbestos bulk sample inventory for more sample details.

Asbestos Regulations

DEQ, Environmental Protection Agency (EPA), and OSHA regulations require proper removal and handling of ACM by licensed and trained asbestos abatement contractors prior to building renovations or demolition.

EPA, DEQ, and OSHA all define ACM as any material containing more than 1% asbestos. Although materials equal to or less than 1% are not considered by regulatory agencies to be an ACM, they still have some asbestos content, and Oregon OSHA has specific requirements for situations in which workers may encounter, disturb, or remove materials containing any level of asbestos. For the sake of hazard communication, these materials are included in the asbestos-containing materials section of this report.

In 1995, Oregon OSHA adopted 29 Code of Federal Regulations (CFR) Part 1926.1101 governing asbestos under OAR 437-003-1926.1101. The regulation has made significant changes in work procedures and how asbestos materials are managed. OSHA believes that the single biggest risk of asbestos exposure is to 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.

DEQ's OAR 340, Division 248 also covers asbestos abatement requirements, removal notifications, licensing, and certifications for contractors.

INSPECTION SUMMARY

For more information regarding the removal of asbestos-containing materials, please refer to the following:

1. Oregon Occupational Safety and Health Administration, OAR 437-003-1926.1101
2. Department of Environmental Quality, OAR-340, Division 248

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27638.000-0001	Mastic	Original building; corridor at room 204; yellow carpet mastic		Eurofins LabCor PDX
		Layer: Layer 1	Description: mastic, tan	Analysis: No Asbestos Detected
27638.000-0002	Mastic	Original building; room 203; yellow carpet mastic		Eurofins LabCor PDX
		Layer: Layer 1	Description: mastic, tan	Analysis: No Asbestos Detected
27638.000-0003	Mastic	Original building; room 103; yellow carpet mastic		Eurofins LabCor PDX
		Layer: Layer 1	Description: mastic, tan	Analysis: No Asbestos Detected
27638.000-0004	Vinyl Floor Tile/Mastic	Original building; server room 203A: 12"x12" gray floor tile with black mastic		Eurofins LabCor PDX
		Layer: Layer 01	Description: hard vinyl, grey	Analysis: No Asbestos Detected
		Layer 02	mastic, black	No Asbestos Detected
27638.000-0005	Vinyl Floor Tile/Mastic	Original building; server room 203A; 12"x12" gray floor tile with black mastic		Eurofins LabCor PDX
		Layer: Layer 01	Description: hard vinyl, grey	Analysis: No Asbestos Detected
		Layer 02	mastic, black	No Asbestos Detected
27638.000-0006	Vinyl Floor Tile/Mastic	Original building; server room 203A; 12"x12" gray floor tile with black mastic		Eurofins LabCor PDX
		Layer: Layer 01	Description: hard vinyl, grey	Analysis: No Asbestos Detected
		Layer 02	mastic, black	No Asbestos Detected
27638.000-0007	Gypsum Wallboard/Joint Compound	Original building; server room 203A; gypsum wallboard with joint compound		Eurofins LabCor PDX
		Layer: Layer 01	Description: fine compact powder, white with paint, off-white	Analysis: No Asbestos Detected
		Layer 02	compact chalky material with paper, white	No Asbestos Detected

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27638.000-0008	Gypsum Wallboard/Joint Compound	Original building; copy room; gypsum wallboard with joint compound		Eurofins LabCor PDX
		Layer:	Description:	
		Layer 01	fine compact powder, white with paint, off-white	
		Layer 02	compact chalky material with paper, white	No Asbestos Detected
27638.000-0009	Gypsum Wallboard/Joint Compound	Original building; room 101; gypsum wallboard with joint compound		Eurofins LabCor PDX
		Layer:	Description:	
		Layer 01	fine compact powder, white	
		Layer 02	compact chalky material with paper, white	No Asbestos Detected
27638.000-0010	Covebase/Mastic	Original building; server 203A: 4" black base with cream mastic		Eurofins LabCor PDX
		Layer:	Description:	
		Layer 01	rubbery material, black	
		Layer 02	mastic, off-white	No Asbestos Detected
27638.000-0011	Covebase/Mastic	Original building; room 100; 4" black base with cream mastic		Eurofins LabCor PDX
		Layer:	Description:	
		Layer 01	rubbery material, black	
		Layer 02	mastic, off-white	No Asbestos Detected
27638.000-0012	Covebase/Mastic	Original building; corridor at room 104; 4" black base with cream mastic		Eurofins LabCor PDX
		Layer:	Description:	
		Layer 01	rubbery material, black	
		Layer 02	mastic, off-white	
		Layer 03	fine compact powder, white	No Asbestos Detected
27638.000-0013	Sink Undercoating	Original building; room 102; black sink undercoat		Eurofins LabCor PDX
		Layer:	Description:	
		Layer 1	loose particulate, black	
27638.000-0014	Sink Undercoating	Original building; room 102; black sink undercoat		Eurofins LabCor PDX
		Layer:	Description:	
		Layer 1	loose particulate, black	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27638.000-0015	Sink Undercoating	Original building; room 102; black sink undercoat		Eurofins LabCor PDX
	Layer: Layer 1	Description: loose particulate, black	Analysis: No Asbestos Detected	
27638.000-0016	Glued-on Ceiling Tiles	Original building; room 201; 1'x1' white peghole tile with brown mastic		Eurofins LabCor PDX
	Layer: Layer 01	Description: compressed fibers, brown	Analysis: No Asbestos Detected	
	Layer 02	mastic, brown	No Asbestos Detected	
27638.000-0017	Glued-on Ceiling Tiles	Original building; room 204; 1'x1' white peghole tile with brown mastic		Eurofins LabCor PDX
	Layer: Layer 01	Description: compressed fibers, brown	Analysis: No Asbestos Detected	
	Layer 02	mastic, brown	No Asbestos Detected	
27638.000-0018	Glued-on Ceiling Tiles	Original building; room 200; 1'x1' white peghole tile with brown mastic		Eurofins LabCor PDX
	Layer: Layer 01	Description: compressed fibers, brown	Analysis: No Asbestos Detected	
	Layer 02	mastic, brown	No Asbestos Detected	
27638.000-0019	Fireproofing	Original building; mech 105; gray fireproofing		Eurofins LabCor PDX
	Layer: Layer 1	Description: fibrous material, white with paint, white	Analysis: No Asbestos Detected	
27638.000-0020	Fireproofing	Original building; mech 105; gray fireproofing		Eurofins LabCor PDX
	Layer: Layer 1	Description: fibrous material, grey	Analysis: No Asbestos Detected	
27638.000-0021	Fireproofing	Original building; mech 105; gray fireproofing		Eurofins LabCor PDX
	Layer: Layer 1	Description: fibrous material, grey	Analysis: No Asbestos Detected	
27638.000-0022	Lab Counter Top	Original building; room 100; black lab countertop		Eurofins LabCor PDX
	Layer: Layer 1	Description: countertop, black	Analysis: No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27638.000-0023	Lab Counter Top	Original building; room 101; black lab countertop		Eurofins LabCor PDX
	Layer: Layer 1	Description: countertop, black	Analysis: No Asbestos Detected	
27638.000-0024	Lab Counter Top	Original building; room 101; black lab countertop		Eurofins LabCor PDX
	Layer: Layer 1	Description: countertop, black	Analysis: No Asbestos Detected	
27638.000-0025	Vinyl Floor Tile/Mastic	Original building; room 102; 12"x12" white floor tile with yellow mastic		Eurofins LabCor PDX
	Layer: Layer 01	Description: hard vinyl, white	Analysis: No Asbestos Detected	
	Layer 02	mastic, brown/black	< 1% Chrysotile	
27638.000-0026	Vinyl Floor Tile/Mastic	Original building; room 102; 12"x12" white floor tile with yellow mastic		Eurofins LabCor PDX
	Layer: Layer 01	Description: hard vinyl, white	Analysis: No Asbestos Detected	
	Layer 02	mastic, brown	No Asbestos Detected	
27638.000-0027	Vinyl Floor Tile/Mastic	Original building; room 102; 12"x12" white floor tile with yellow mastic		Eurofins LabCor PDX
	Layer: Layer 01	Description: hard vinyl, white	Analysis: No Asbestos Detected	
	Layer 02	mastic, brown/black	2% Chrysotile	
27638.000-0028	Duct Mastic	Original building; room 102; gray duct seam mastic		Eurofins LabCor PDX
	Layer: Layer 1	Description: putty, gray	Analysis: No Asbestos Detected	
27638.000-0029	Duct Mastic	Original building; room 102; gray duct seam mastic		Eurofins LabCor PDX
	Layer: Layer 1	Description: putty, gray	Analysis: No Asbestos Detected	
27638.000-0030	Duct Mastic	Original building; room 102; gray duct seam mastic		Eurofins LabCor PDX
	Layer: Layer 1	Description: putty, gray	Analysis: No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27638.000-0031	Covebase/Mastic	Original building; room 102; 6" black base with cream mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	rubbery material, brown	No Asbestos Detected	
	Layer 02	fibrous material, tan with mastic, tan	No Asbestos Detected	
27638.000-0032	Covebase/Mastic	Original building; room 102; 6" black base with cream mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	rubbery material, brown	No Asbestos Detected	
	Layer 02	mastic, tan	No Asbestos Detected	
	Layer 03	paint, off-white with fine compact powder, off-white	No Asbestos Detected	
27638.000-0033	Covebase/Mastic	Original building; room 102; 6" black base with cream mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	rubbery material, gray	No Asbestos Detected	
	Layer 02	mastic, tan	No Asbestos Detected	
	Layer 03	fibrous material, white	No Asbestos Detected	
27638.000-0034	Lay-in Ceiling Tile	Original building; room 100; 2'x4' pin and fissure ceiling tile		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	paint, off-white with fine compact powder, off-white	No Asbestos Detected	
	Layer 02	compressed fibers, gray	No Asbestos Detected	
27638.000-0035	Lay-in Ceiling Tile	Original building; room 101; 2'x4' pin and fissure ceiling tile		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	paint, off-white with fine compact powder, off-white	No Asbestos Detected	
	Layer 02	compressed fibers, gray	No Asbestos Detected	
27638.000-0036	Lay-in Ceiling Tile	Original building; room 106; 2'x4' pin and fissure ceiling tile		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	paint, off-white with fine compact powder, off-white	No Asbestos Detected	
	Layer 02	compressed fibers, gray	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27638.000-0037	Wall and Ceiling Plaster	Original building; room 102; plaster on gypsum		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	paint, white	No Asbestos Detected	
	Layer 02	granular compact powder, white	No Asbestos Detected	
	Layer 03	compact chalky material with paper, white	No Asbestos Detected	
27638.000-0038	Wall and Ceiling Plaster	Original building; room 202; plaster wall		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	paint, tan with fine compact powder, off-white	No Asbestos Detected	
	Layer 02	granular compact powder, gray	No Asbestos Detected	
27638.000-0039	Wall and Ceiling Plaster	Original building; room 100; plaster on concrete		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	paint, tan with fine compact powder, off-white	No Asbestos Detected	
	Layer 02	granular compact powder, gray	No Asbestos Detected	
	Layer 03	granular compact powder, white	No Asbestos Detected	
27638.000-0040	Material Debris	Original building; attic; black roofing debris		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	loose fibrous material, golden brown	No Asbestos Detected	
27638.000-0041	Material Debris	Original building; attic; black roofing debris		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	fibrous tar, black	No Asbestos Detected	
27638.000-0042	Material Debris	Original building; attic; black roofing debris		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1			
Comments: Sample not submitted.				

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27638.000-0043	Lay-in Ceiling Tile	New building; kitchen; 2'x4' white gypsum ceiling tile		Eurofins LabCor PDX
	Layer: Layer 1	Description: compact chalky material with paper, white	Analysis: No Asbestos Detected	
27638.000-0044	Lay-in Ceiling Tile	New building; kitchen; 2'x4' white gypsum ceiling tile		Eurofins LabCor PDX
	Layer: Layer 1	Description: compact chalky material with paper, white	Analysis: No Asbestos Detected	
27638.000-0045	Lay-in Ceiling Tile	New building; kitchen; 2'x4' white gypsum ceiling tile		Eurofins LabCor PDX
	Layer: Layer 1	Description: compact chalky material with paper, white	Analysis: No Asbestos Detected	
27638.000-0046	Sheet Floor Covering	New building; kitchen; blue sheet flooring with gray mastic		Eurofins LabCor PDX
	Layer: Layer 01	Description: hard vinyl, blue	Analysis: No Asbestos Detected	
	Layer 02	fine compact powder, grey with mastic, white	No Asbestos Detected	
27638.000-0047	Sheet Floor Covering	New building; kitchen; blue sheet flooring with gray mastic		Eurofins LabCor PDX
	Layer: Layer 01	Description: hard vinyl, blue	Analysis: No Asbestos Detected	
	Layer 02	mastic, white	No Asbestos Detected	
27638.000-0048	Sheet Floor Covering	New building; nurse's office; blue sheet flooring with gray mastic		Eurofins LabCor PDX
	Layer: Layer 01	Description: hard vinyl, blue	Analysis: No Asbestos Detected	
	Layer 02	fine compact powder, grey with mastic, white	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27638.000-0049	Sheet Floor Covering	New building; breakroom 118; beige sheet floor with yellow mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	linoleum, grey/brown	No Asbestos Detected	
	Layer 02	fibrous backing, brown	No Asbestos Detected	
	Layer 03	mastic, yellow	No Asbestos Detected	
27638.000-0050	Sheet Floor Covering	New building; breakroom 118; beige sheet floor with yellow mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	linoleum, grey/brown	No Asbestos Detected	
	Layer 02	fibrous backing, brown	No Asbestos Detected	
	Layer 03	mastic, yellow	No Asbestos Detected	
27638.000-0051	Sheet Floor Covering	New building; breakroom 118; beige sheet floor with yellow mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	hard vinyl, tan	No Asbestos Detected	
	Layer 02	fibrous backing, brown	No Asbestos Detected	
27638.000-0052	Fireproofing	New building; custodial office; gray fireproofing		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibers, gray	No Asbestos Detected	
27638.000-0053	Fireproofing	New building; office next to room 226; gray fireproofing		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibers, gray	No Asbestos Detected	
27638.000-0054	Fireproofing	New building; office next to room 226; gray fireproofing		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibers, gray	No Asbestos Detected	
27638.000-0055	Lay-in Ceiling Tile	New building; corridor at 225; 2'x4' pin and fissure ceiling tile		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibers, gray	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27638.000-0056	Lay-in Ceiling Tile	New building; classroom 221; 2'x4' pin and fissure ceiling tile		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	paint, white	No Asbestos Detected	
	Layer 02	compressed fibers, gray	No Asbestos Detected	
	Layer 03	fine compact powder, tan	No Asbestos Detected	
27638.000-0057	Lay-in Ceiling Tile	New building; classroom 127; 2'x4' pin and fissure ceiling tile		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	paint, white	No Asbestos Detected	
	Layer 02	compressed fibers, gray	No Asbestos Detected	
	Layer 03	fine compact powder, tan	No Asbestos Detected	
27638.000-0058	Covebase/Mastic	New building; kitchen; 6" black base with cream mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	rubbery material, black	No Asbestos Detected	
	Layer 02	mastic, tan	No Asbestos Detected	
	Layer 03	fine compact powder, off-white	No Asbestos Detected	
27638.000-0059	Covebase/Mastic	New building; nurse's office; 6" black base with cream mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	rubbery material, gray	No Asbestos Detected	
	Layer 02	mastic, tan	No Asbestos Detected	
	Layer 03	fine compact powder, off-white	No Asbestos Detected	
27638.000-0060	Covebase/Mastic	New building; elevator room; 6" black base with cream mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	rubbery material, black	No Asbestos Detected	
	Layer 02	mastic, tan	No Asbestos Detected	
	Layer 03	fine compact powder, off-white	No Asbestos Detected	
27638.000-0061	Covebase/Mastic	New building; room 127; 4" black base with cream mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	rubbery material, black	No Asbestos Detected	
	Layer 02	mastic, tan	No Asbestos Detected	
	Layer 03	fine compact powder, off-white	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27638.000-0062	Covebase/Mastic	New building; maverick room; 4" black base with cream mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	rubbery material, black	No Asbestos Detected	
	Layer 02	mastic, tan	No Asbestos Detected	
	Layer 03	fine compact powder, off-white	No Asbestos Detected	
27638.000-0063	Covebase/Mastic	New building; main office; 4" black base with cream mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	rubbery material, black	No Asbestos Detected	
	Layer 02	fine compact powder, off-white with paper, tan	No Asbestos Detected	
27638.000-0064	Mastic	New building; maverick room; yellow carpet mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	mastic, pink	No Asbestos Detected	
27638.000-0065	Mastic	New building; room 127; yellow carpet mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	mastic, tan	No Asbestos Detected	
	Layer 02	woven fibers, white	No Asbestos Detected	
27638.000-0066	Mastic	New building; main office; yellow carpet mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	loose particulate, tan	No Asbestos Detected	
27638.000-0067	Gypsum Wallboard/Joint Compound	New building; maverick room; gypsum wallboard with joint compound		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	fine compact powder, off-white	No Asbestos Detected	
	Layer 02	compact chalky material with paper, white	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27638.000-0068	Gypsum Wallboard/Joint Compound	New building; mechanical room; gypsum wallboard with joint compound		Eurofins LabCor PDX
		Layer:	Description:	
		Layer 01	paint, tan with fine compact powder, off-white	
		Layer 02	fine compact powder, off-white with paper, tan	
27638.000-0069	Gypsum Wallboard/Joint Compound	Layer 03	compact chalky material with paper, white	Eurofins LabCor PDX
		Layer:	Description:	
		Layer 01	paint, tan with fine compact powder, off-white	
		Layer 02	fine compact powder, off-white with paper, tan	
27638.000-0070	Gypsum Wallboard/Joint Compound	Layer 03	compact chalky material with paper, white	Eurofins LabCor PDX
		Layer:	Description:	
		Layer 01	fine compact powder, off-white	
		Layer 02	compact chalky material with paper, white	
27638.000-0071	Gypsum Wallboard/Joint Compound	Layer:	Description:	Eurofins LabCor PDX
		Layer 1	fine compact powder, off-white	
		Layer 2	compact chalky material with paper, white	
27638.000-0072	Sheet Floor Covering	Layer:	Description:	Eurofins LabCor PDX
		Layer 1	compact material, blue	
		Layer:	Description:	
27638.000-0073	Sheet Floor Covering	Layer:	Description:	Eurofins LabCor PDX
		Layer 1	compact material, blue	
		Layer:	Description:	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27638.000-0074	Sheet Floor Covering	New building; building entrance near maintenance office; blue speckled sheet floor with cream mastic		Eurofins LabCor PDX
	Layer: Layer 1	Description: compact material, blue	Analysis: No Asbestos Detected	
27638.000-0075	Rubber Flooring/Mastic	New building; weight room 115; blue rubber flooring with tan mastic		Eurofins LabCor PDX
	Layer: Layer 1	Description: compact material, blue	Analysis: No Asbestos Detected	
27638.000-0076	Rubber Flooring/Mastic	New building; weight room 115; blue rubber flooring with tan mastic		Eurofins LabCor PDX
	Layer: Layer 1	Description: compact material, blue	Analysis: No Asbestos Detected	
27638.000-0077	Rubber Flooring/Mastic	New building; weight room 115; blue rubber flooring with tan mastic		Eurofins LabCor PDX
	Layer: Layer 1	Description: compact material, blue	Analysis: No Asbestos Detected	
27638.000-0078	Mortar	New building; boys locker room; gray grout associated CMU wall		Eurofins LabCor PDX
	Layer: Layer 1	Description: cementitious material, gray with paint, green	Analysis: No Asbestos Detected	
27638.000-0079	Mortar	New building; girls locker room; gray grout associated CMU wall		Eurofins LabCor PDX
	Layer: Layer 1	Description: cementitious material, gray with paint, tan	Analysis: No Asbestos Detected	
27638.000-0080	Mortar	New building; corridor at library; gray grout associated CMU wall		Eurofins LabCor PDX
	Layer: Layer 1	Description: cementitious material, gray with paint, tan	Analysis: No Asbestos Detected	
27638.000-0081	Mastic	New building; custodial at room 200; cream colored FRP panel mastic		Eurofins LabCor PDX
	Layer: Layer 01	Description: Paint, off-white with fine compact powder, off-white	Analysis: No Asbestos Detected	
	Layer 02	Mastic, white	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27638.000-0082	Mastic	New building; custodial across from room 100; cream colored FRP panel mastic		Eurofins LabCor PDX
		Layer:	Description:	Analysis:
		Layer 01	paint, off-white with fine compact powder, off-white	No Asbestos Detected
		Layer 02	Mastic, white	No Asbestos Detected
27638.000-0083	Mastic	New building; custodial across from room 129; cream colored FRP panel mastic		Eurofins LabCor PDX
		Layer:	Description:	Analysis:
		Layer 01	Paint, off-white with fine compact powder, off-white	No Asbestos Detected
		Layer 02	Mastic, white	No Asbestos Detected
27638.000-0084	Sink Undercoating	New building; workroom 10A; black sink undercoating		Eurofins LabCor PDX
		Layer:	Description:	Analysis:
		Layer 1	loose particulate, black	No Asbestos Detected
27638.000-0085	Sink Undercoating	New building; workroom 118; black sink undercoating		Eurofins LabCor PDX
		Layer:	Description:	Analysis:
		Layer 1	loose particulate, black	No Asbestos Detected

PLM - Visual Estimate Extended Final Report

Job Number: 233230

Client: PBS Engineering and Environmental

**Address: 4412 S Corbett Avenue
Portland, OR 97239**

Project Name:

Project No.: 27638.000 Phase 0001 Task 005

PO Number:

Sub Project:

Reference No.:

Report Number: 233230R01

Report Date: 12/19/2023

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

Eurofins Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
233230 - S1	27638.000-0001 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S2	27638.000-0002 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S3	27638.000-0003 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S4	27638.000-0004 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S5	27638.000-0005 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S6	27638.000-0006 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S7	27638.000-0007 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S8	27638.000-0008 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S9	27638.000-0009 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S10	27638.000-0010 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S11	27638.000-0011 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S12	27638.000-0012 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S13	27638.000-0013 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S14	27638.000-0014 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S15	27638.000-0015 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S16	27638.000-0016 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S17	27638.000-0017 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S18	27638.000-0018 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S19	27638.000-0019 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S20	27638.000-0020 -	PLM - Visual Estimate Extended		12/8/2023
233230 - S21	27638.000-0021 -	PLM - Visual Estimate Extended		12/8/2023

PLM - Visual Estimate Extended Final Report

Job Number: 233230

Client: PBS Engineering and Environmental

Project Name:

Report Number: 233230R01

Report Date: 12/19/2023

233230 - S22	27638.000-0022 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S23	27638.000-0023 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S24	27638.000-0024 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S25	27638.000-0025 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S26	27638.000-0026 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S27	27638.000-0027 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S28	27638.000-0028 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S29	27638.000-0029 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S30	27638.000-0030 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S31	27638.000-0031 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S32	27638.000-0032 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S33	27638.000-0033 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S34	27638.000-0034 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S35	27638.000-0035 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S36	27638.000-0036 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S37	27638.000-0037 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S38	27638.000-0038 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S39	27638.000-0039 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S40	27638.000-0040 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S41	27638.000-0041 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S43	27638.000-0043 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S44	27638.000-0044 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S45	27638.000-0045 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S46	27638.000-0046 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S47	27638.000-0047 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S48	27638.000-0048 -	PLM - Visual Estimate Extended	12/8/2023

PLM - Visual Estimate Extended Final Report

Job Number: 233230

Client: PBS Engineering and Environmental

Project Name:

Report Number: 233230R01

Report Date: 12/19/2023

233230 - S49	27638.000-0049 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S50	27638.000-0050 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S51	27638.000-0051 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S52	27638.000-0052 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S53	27638.000-0053 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S54	27638.000-0054 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S55	27638.000-0055 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S56	27638.000-0056 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S57	27638.000-0057 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S58	27638.000-0058 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S59	27638.000-0059 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S60	27638.000-0060 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S61	27638.000-0061 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S62	27638.000-0062 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S63	27638.000-0063 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S64	27638.000-0064 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S65	27638.000-0065 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S66	27638.000-0066 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S67	27638.000-0067 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S68	27638.000-0068 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S69	27638.000-0069 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S70	27638.000-0070 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S71	27638.000-0071 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S72	27638.000-0072 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S73	27638.000-0073 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S74	27638.000-0074 -	PLM - Visual Estimate Extended	12/8/2023

PLM - Visual Estimate Extended Final Report

Job Number: 233230

Client: PBS Engineering and Environmental

Report Number: 233230R01

Report Date: 12/19/2023

Project Name:

233230 - S75	27638.000-0075 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S76	27638.000-0076 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S77	27638.000-0077 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S78	27638.000-0078 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S79	27638.000-0079 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S80	27638.000-0080 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S81	27638.000-0081 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S82	27638.000-0082 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S83	27638.000-0083 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S84	27638.000-0084 -	PLM - Visual Estimate Extended	12/8/2023
233230 - S85	27638.000-0085 -	PLM - Visual Estimate Extended	12/8/2023

PLM - Visual Estimate Extended Final Report

Job Number: 233230

Client: PBS Engineering and Environmental

Project Name:

Report Number: 233230R01

Report Date: 12/19/2023

PLM - Visual Estimate Extended The submitted sample(s) were analyzed according to the 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. 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 HCl, 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.

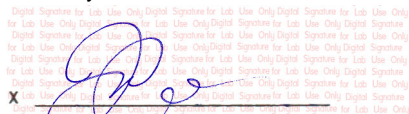
NAD is No Asbestos Detected. Asbestos consists of the six following minerals: chrysotile, amosite, crocidolite, anthophyllite, actinolite, and tremolite.

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,



Tim Cammann
Eurofins - LabCor Portland

BULK SAMPLE ASBESTOS ANALYSIS

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01
Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID:	27638.000-0001				Sample ID:	S1		Date Analyzed:	12/14/2023
Client Sample Description:					Analyst:	David Andrews			
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite					Percent Asbestos:
Homogeneous									
mastic, tan	100 %	-	-	-					NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other				Matrix
	-	-	-	5 %	-	-	-	-	95 %
Client Sample ID:	27638.000-0002				Sample ID:	S2		Date Analyzed:	12/14/2023
Client Sample Description:					Analyst:	David Andrews			
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite					Percent Asbestos:
Homogeneous									
mastic, tan	100 %	-	-	-					NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other				Matrix
	-	-	-	3 %	-	-	-	-	97 %
Client Sample ID:	27638.000-0003				Sample ID:	S3		Date Analyzed:	12/14/2023
Client Sample Description:					Analyst:	David Andrews			
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite					Percent Asbestos:
Homogeneous									
mastic, tan	100 %	-	-	-					NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other				Matrix
	-	-	-	-	-	-	-	-	100 %
Client Sample ID:	27638.000-0004				Sample ID:	S4		Date Analyzed:	12/14/2023
Client Sample Description:					Analyst:	David Andrews			
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite					Percent Asbestos:
Layer 01									
hard vinyl, grey	95 %	-	-	-					NAD
Layer 02									
mastic, black	5 %	-	-	-					NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other				Matrix
Layer 01	-	-	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	-	-	100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01
Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0005		Sample ID: S5			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
hard vinyl, grey	95 %	-	-	-	NAD	
Layer 02						
mastic, black	5 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Client Sample ID: 27638.000-0006		Sample ID: S6			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
hard vinyl, grey	95 %	-	-	-	NAD	
Layer 02						
mastic, black	5 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Client Sample ID: 27638.000-0007		Sample ID: S7			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
fine compact powder, white with paint, off-white	20 %	-	-	-	NAD	
Layer 02						
compact chalky material with paper, white	80 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	2 %	10 %	-	-	-	88 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01
Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0008		Sample ID: S8			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
fine compact powder, white with paint, off-white	20 %	-	-	-		NAD
Layer 02						
compact chalky material with paper, white	80 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	2 %	10 %	-	-	-	88 %

Client Sample ID: 27638.000-0009		Sample ID: S9			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
fine compact powder, white	20 %	-	-	-		NAD
Layer 02						
compact chalky material with paper, white	80 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	2 %	10 %	-	-	-	88 %

Client Sample ID: 27638.000-0010		Sample ID: S10			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
rubbery material, black	70 %	-	-	-		NAD
Layer 02						
mastic, off-white	30 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01
Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0011		Sample ID: S11			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
rubbery material, black	80 %	-	-	-		NAD
Layer 02						
mastic, off-white	20 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 27638.000-0012		Sample ID: S12			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
rubbery material, black	20 %	-	-	-		NAD
Layer 02						
mastic, off-white	50 %	-	-	-		NAD
Layer 03						
fine compact powder, white	30 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	100 %

Client Sample ID: 27638.000-0013		Sample ID: S13			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
loose particulate, black	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01
Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0014		Sample ID: S14		Date Analyzed: 12/14/2023	
Client Sample Description:				Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose particulate, black	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	-	-	-	Matrix 100 %
Client Sample ID: 27638.000-0015		Sample ID: S15		Date Analyzed: 12/14/2023	
Client Sample Description:				Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose particulate, black	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	-	-	-	Matrix 100 %
Client Sample ID: 27638.000-0016		Sample ID: S16		Date Analyzed: 12/14/2023	
Client Sample Description:				Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
compressed fibers, brown	70 %	-	-	-	NAD
Layer 02					
mastic, brown	30 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	90 %	-	-	Matrix 10 %
Layer 02	-	-	-	-	100 %
Client Sample ID: 27638.000-0017		Sample ID: S17		Date Analyzed: 12/14/2023	
Client Sample Description:				Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
compressed fibers, brown	90 %	-	-	-	NAD
Layer 02					
mastic, brown	10 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	90 %	-	-	Matrix 10 %
Layer 02	-	-	-	-	100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01
Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0018		Sample ID: S18			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
compressed fibers, brown	70 %	-	-	-	NAD	
Layer 02						
mastic, brown	30 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	90 %	-	-	-	10 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 27638.000-0019		Sample ID: S19			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
fibrous material, white with paint, white	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	15 %	-	-	-	85 %

Client Sample ID: 27638.000-0020		Sample ID: S20			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
fibrous material, grey	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	80 %	5 %	-	-	-	15 %

Client Sample ID: 27638.000-0021		Sample ID: S21			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
fibrous material, grey	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	80 %	5 %	-	-	-	15 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

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Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0022		Sample ID: S22		Date Analyzed: 12/14/2023	
Client Sample Description:				Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
countertop, black	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	-	-	-	Matrix 100 %
Client Sample ID: 27638.000-0023		Sample ID: S23		Date Analyzed: 12/14/2023	
Client Sample Description:				Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
countertop, black	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	-	-	-	Matrix 100 %
Client Sample ID: 27638.000-0024		Sample ID: S24		Date Analyzed: 12/14/2023	
Client Sample Description:				Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
countertop, black	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	-	-	-	Matrix 100 %
Client Sample ID: 27638.000-0025		Sample ID: S25		Date Analyzed: 12/14/2023	
Client Sample Description:				Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
hard vinyl, white	90 %	-	-	-	NAD
Layer 02					
mastic, brown/black	10 %	Trace	-	-	< 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	-	-	-	Matrix 100 %
Layer 02	-	-	-	-	Matrix 100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
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Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0026		Sample ID: S26			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
hard vinyl, white	95 %	-	-	-	NAD	
Layer 02						
mastic, brown	5 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 27638.000-0027		Sample ID: S27			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
hard vinyl, white	90 %	-	-	-	NAD	
Layer 02						
mastic, brown/black	10 %	2 %	-	-	2 %	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	98 %

Client Sample ID: 27638.000-0028		Sample ID: S28			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
putty, gray	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: 27638.000-0029		Sample ID: S29			Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
putty, gray	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

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Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0030	Sample ID: S30				Date Analyzed: 12/14/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous putty, gray	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix 100 %
	-	-	-	-	-	
Client Sample ID: 27638.000-0031	Sample ID: S31				Date Analyzed: 12/15/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01 rubbery material, brown	80 %	-	-	-		NAD
Layer 02 fibrous material, tan with mastic, tan	20 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix 100 %
Layer 01	-	-	-	-	-	100 %
Layer 02	-	50 %	-	-	-	50 %
Client Sample ID: 27638.000-0032	Sample ID: S32				Date Analyzed: 12/15/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01 rubbery material, brown	80 %	-	-	-		NAD
Layer 02 mastic, tan	10 %	-	-	-		NAD
Layer 03 paint, off-white with fine compact powder, off- white	10 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	Trace	-	-	-	100 %
Layer 03	-	3 %	-	-	-	97 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

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Report Date: 12/19/2023

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P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0033		Sample ID: S33			Date Analyzed: 12/15/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
rubbery material, gray	40 %	-	-	-		NAD
Layer 02						
mastic, tan	30 %	-	-	-		NAD
Layer 03						
fibrous material, white	30 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	Trace	-	Trace	-	100 %
Layer 03	-	75 %	-	Trace	-	25 %

Client Sample ID: 27638.000-0034		Sample ID: S34			Date Analyzed: 12/15/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
paint, off-white with fine compact powder, off- white	10 %	-	-	-		NAD
Layer 02						
compressed fibers, gray	90 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	Trace	Trace	-	-	100 %
Layer 02	-	35 %	15 %	-	-	50 %

Client Sample ID: 27638.000-0035		Sample ID: S35			Date Analyzed: 12/15/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
paint, off-white with fine compact powder, off- white	10 %	-	-	-		NAD
Layer 02						
compressed fibers, gray	90 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	Trace	Trace	-	-	100 %
Layer 02	-	35 %	15 %	-	-	50 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

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Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID:	27638.000-0036		Sample ID:	S36		Date Analyzed:	12/15/2023	
Client Sample Description:						Analyst:	Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Layer 01								
paint, off-white with fine compact powder, off- white	10 %	-	-	-				NAD
Layer 02								
compressed fibers, gray	90 %	-	-	-				NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
Layer 01	-	Trace	Trace	-	-	-	-	100 %
Layer 02	-	35 %	15 %	-	-	-	-	50 %

Client Sample ID:	27638.000-0037		Sample ID:	S37		Date Analyzed:	12/15/2023	
Client Sample Description:						Analyst:	Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Layer 01								
paint, white	30 %	-	-	-				NAD
Layer 02								
granular compact powder, white	40 %	-	-	-				NAD
Layer 03								
compact chalky material with paper, white	30 %	-	-	-				NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
Layer 01	-	Trace	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	-	-	98 %
Layer 03	Trace	10 %	-	-	-	-	-	90 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01

Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0038		Sample ID: S38			Date Analyzed: 12/15/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
paint, tan with fine compact powder, off- white	20 %	-	-	-	NAD	
Layer 02						
granular compact powder, gray	80 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	98 %

Client Sample ID: 27638.000-0039		Sample ID: S39			Date Analyzed: 12/15/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
paint, tan with fine compact powder, off- white	30 %	-	-	-	NAD	
Layer 02						
granular compact powder, gray	35 %	-	-	-	NAD	
Layer 03						
granular compact powder, white	35 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	Trace	-	-	-	100 %
Layer 03	-	Trace	-	-	-	100 %

Client Sample ID: 27638.000-0040		Sample ID: S40			Date Analyzed: 12/15/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
loose fibrous material, golden brown	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	85 %	-	-	-	15 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01
Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0041		Sample ID: S41			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
fibrous tar, black	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	70 %	-	-	-	30 %

Client Sample ID: 27638.000-0042		Sample ID: S42			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: David Andrews	
Comments: Sample not submitted.						

Client Sample ID: 27638.000-0043		Sample ID: S43			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
compact chalky material with paper, white	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	2 %	10 %	-	-	-	88 %

Client Sample ID: 27638.000-0044		Sample ID: S44			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
compact chalky material with paper, white	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	2 %	10 %	-	-	-	88 %

Client Sample ID: 27638.000-0045		Sample ID: S45			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
compact chalky material with paper, white	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	2 %	10 %	-	-	-	88 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01
Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0046		Sample ID: S46			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
hard vinyl, blue	90 %	-	-	-	NAD	
Layer 02						
fine compact powder, grey with mastic, white	10 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 27638.000-0047		Sample ID: S47			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
hard vinyl, blue	95 %	-	-	-	NAD	
Layer 02						
mastic, white	5 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 27638.000-0048		Sample ID: S48			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
hard vinyl, blue	90 %	-	-	-	NAD	
Layer 02						
fine compact powder, grey with mastic, white	10 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01
Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0049		Sample ID: S49			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
linoleum, grey/brown	75 %	-	-	-		NAD
Layer 02						
fibrous backing, brown	20 %	-	-	-		NAD
Layer 03						
mastic, yellow	5 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	25 %	-	-	-	75 %
Layer 02	-	100 %	-	-	-	0 %
Layer 03	-	-	-	-	-	100 %

Client Sample ID: 27638.000-0050		Sample ID: S50			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
linoleum, grey/brown	80 %	-	-	-		NAD
Layer 02						
fibrous backing, brown	15 %	-	-	-		NAD
Layer 03						
mastic, yellow	5 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	25 %	-	-	-	75 %
Layer 02	-	100 %	-	-	-	0 %
Layer 03	-	-	-	-	-	100 %

Client Sample ID: 27638.000-0051		Sample ID: S51			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
hard vinyl, tan	50 %	-	-	-		NAD
Layer 02						
fibrous backing, brown	50 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	40 %	-	-	-	60 %
Layer 02	-	80 %	-	-	-	20 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01

Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0052		Sample ID: S52		Date Analyzed: 12/18/2023	
Client Sample Description:				Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibers, gray	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Mineral Cellulose Wool	Synthetic	Other	Matrix
	- Trace	60 %	-	-	40 %
Client Sample ID: 27638.000-0053		Sample ID: S53		Date Analyzed: 12/18/2023	
Client Sample Description:				Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibers, gray	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Mineral Cellulose Wool	Synthetic	Other	Matrix
	- Trace	60 %	-	-	40 %
Client Sample ID: 27638.000-0054		Sample ID: S54		Date Analyzed: 12/18/2023	
Client Sample Description:				Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibers, gray	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Mineral Cellulose Wool	Synthetic	Other	Matrix
	- Trace	60 %	-	-	40 %
Client Sample ID: 27638.000-0055		Sample ID: S55		Date Analyzed: 12/18/2023	
Client Sample Description:				Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibers, gray	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Mineral Cellulose Wool	Synthetic	Other	Matrix
	- Trace	60 %	-	-	40 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01

Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0056		Sample ID: S56			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
paint, white	10 %	-	-	-		NAD
Layer 02						
compressed fibers, gray	80 %	-	-	-		NAD
Layer 03						
fine compact powder, tan	10 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	Trace	Trace	-	-	100 %
Layer 02	-	Trace	60 %	-	-	40 %
Layer 03	-	5 %	-	-	-	95 %

Client Sample ID: 27638.000-0057		Sample ID: S57			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
paint, white	10 %	-	-	-		NAD
Layer 02						
compressed fibers, gray	80 %	-	-	-		NAD
Layer 03						
fine compact powder, tan	10 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	Trace	Trace	-	-	100 %
Layer 02	-	Trace	60 %	-	-	40 %
Layer 03	-	5 %	-	-	-	95 %

Client: PBS Engineering and Environmental
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Portland, OR 97239

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Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0058		Sample ID: S58			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
rubbery material, black	60 %	-	-	-	NAD	
Layer 02						
mastic, tan	20 %	-	-	-	NAD	
Layer 03						
fine compact powder, off-white	20 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	5 %	-	Trace	-	95 %
Layer 03	-	2 %	-	-	-	98 %

Client Sample ID: 27638.000-0059		Sample ID: S59			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
rubbery material, gray	70 %	-	-	-	NAD	
Layer 02						
mastic, tan	15 %	-	-	-	NAD	
Layer 03						
fine compact powder, off-white	15 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	Talc 10 %	90 %
Layer 02	-	5 %	-	Trace	-	95 %
Layer 03	-	Trace	-	-	-	100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01

Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0060		Sample ID: S60			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
rubbery material, black	80 %	-	-	-		NAD
Layer 02						
mastic, tan	10 %	-	-	-		NAD
Layer 03						
fine compact powder, off-white	10 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	5 %	-	Trace	-	95 %
Layer 03	-	2 %	-	-	-	98 %

Client Sample ID: 27638.000-0061		Sample ID: S61			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
rubbery material, black	75 %	-	-	-		NAD
Layer 02						
mastic, tan	15 %	-	-	-		NAD
Layer 03						
fine compact powder, off-white	10 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	5 %	-	Trace	-	95 %
Layer 03	-	3 %	-	-	-	97 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01

Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0062		Sample ID: S62			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
rubbery material, black	90 %	-	-	-	NAD	
Layer 02						
mastic, tan	5 %	-	-	-	NAD	
Layer 03						
fine compact powder, off-white	5 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	5 %	-	Trace	-	95 %
Layer 03	-	3 %	-	-	-	97 %

Client Sample ID: 27638.000-0063		Sample ID: S63			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
rubbery material, black	50 %	-	-	-	NAD	
Layer 02						
fine compact powder, off-white with paper, tan	50 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	40 %	-	-	-	60 %

Client Sample ID: 27638.000-0064		Sample ID: S64			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
mastic, pink	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	Trace	-	-	-	100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01
Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0065		Sample ID: S65		Date Analyzed: 12/18/2023	
Client Sample Description:				Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, tan	30 %	-	-	-	NAD
Layer 02					
woven fibers, white	70 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	-	-	5 %	-
Layer 02	-	-	-	95 %	-
					Matrix 95 % 5 %

Client Sample ID: 27638.000-0066		Sample ID: S66		Date Analyzed: 12/18/2023	
Client Sample Description:				Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose particulate, tan	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	Trace	-	-	-
					Matrix 100 %

Client Sample ID: 27638.000-0067		Sample ID: S67		Date Analyzed: 12/18/2023	
Client Sample Description:				Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, off-white	10 %	-	-	-	NAD
Layer 02					
compact chalky material with paper, white	90 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	5 %	-	-	-
Layer 02	Trace	10 %	-	-	-
					Matrix 95 % 90 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01
Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0068		Sample ID: S68			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
paint, tan with fine compact powder, off-white	10 %	-	-	-		NAD
Layer 02						
fine compact powder, off-white with paper, tan	10 %	-	-	-		NAD
Layer 03						
compact chalky material with paper, white	80 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	Trace	4 %	-	-	-	96 %
Layer 02	-	25 %	-	-	-	75 %
Layer 03	Trace	10 %	-	-	-	90 %

Client Sample ID: 27638.000-0069		Sample ID: S69			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
paint, tan with fine compact powder, off-white	15 %	-	-	-		NAD
Layer 02						
fine compact powder, off-white with paper, tan	5 %	-	-	-		NAD
Layer 03						
compact chalky material with paper, white	80 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	Trace	-	-	-	100 %
Layer 02	-	50 %	-	-	-	50 %
Layer 03	Trace	10 %	-	-	-	90 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01
Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0070		Sample ID: S70			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
fine compact powder, off-white	10 %	-	-	-	NAD	
Layer 02						
compact chalky material with paper, white	90 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	Trace	-	-	-	100 %
Layer 02	-	10 %	-	-	-	90 %

Client Sample ID: 27638.000-0071		Sample ID: S71			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
fine compact powder, off-white	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	Trace	-	-	-	100 %

Client Sample ID: 27638.000-0072		Sample ID: S72			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
compact material, blue	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: 27638.000-0073		Sample ID: S73			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
compact material, blue	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01
Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0074		Sample ID: S74		Date Analyzed: 12/18/2023	
Client Sample Description:				Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compact material, blue	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	-	-	-	Matrix 100 %
Client Sample ID: 27638.000-0075		Sample ID: S75		Date Analyzed: 12/18/2023	
Client Sample Description:				Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compact material, blue	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	-	-	-	Matrix 100 %
Client Sample ID: 27638.000-0076		Sample ID: S76		Date Analyzed: 12/18/2023	
Client Sample Description:				Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compact material, blue	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	-	-	-	Matrix 100 %
Client Sample ID: 27638.000-0077		Sample ID: S77		Date Analyzed: 12/18/2023	
Client Sample Description:				Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compact material, blue	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	-	-	-	Matrix 100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01
Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0078		Sample ID: S78		Date Analyzed: 12/18/2023	
Client Sample Description:				Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
cementitious material, gray with paint, green	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	-	-	-	Matrix 100 %
Client Sample ID: 27638.000-0079		Sample ID: S79		Date Analyzed: 12/18/2023	
Client Sample Description:				Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
cementitious material, gray with paint, tan	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	-	-	-	Matrix 100 %
Client Sample ID: 27638.000-0080		Sample ID: S80		Date Analyzed: 12/18/2023	
Client Sample Description:				Analyst: Kyle DeBow	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
cementitious material, gray with paint, tan	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	-	-	-	Matrix 100 %
Client Sample ID: 27638.000-0081		Sample ID: S81		Date Analyzed: 12/18/2023	
Client Sample Description:				Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
Paint, off-white with fine compact powder, off-white	10 %	-	-	-	NAD
Layer 02					
Mastic, white	90 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	-	-	-	Matrix 100 %
Layer 02	-	-	-	-	Matrix 100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01
Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

Project Notes:

Client Sample ID: 27638.000-0082		Sample ID: S82			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
paint, off-white with fine compact powder, off-white	10 %	-	-	-	NAD	
Layer 02						
Mastic, white	90 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 27638.000-0083		Sample ID: S83			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: David Andrews	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
Paint, off-white with fine compact powder, off-white	10 %	-	-	-	NAD	
Layer 02						
Mastic, white	90 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 27638.000-0084		Sample ID: S84			Date Analyzed: 12/18/2023	
Client Sample Description:					Analyst: Samantha Layne	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
loose particulate, black	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 233230R01

Report Date: 12/19/2023

Job Number: 233230

P.O. No: n/a

Project Name:

Project Number: 27638.000 Phase 0001 Task 005

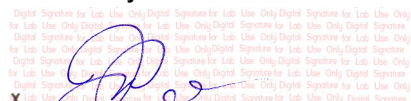
Project Notes:

Client Sample ID:		27638.000-0085		Sample ID:		S85		Date Analyzed:		12/18/2023	
Client Sample Description:								Analyst:		Samantha Layne	
<u>Asbestos Mineral Fibers</u>		Layer								Percent Asbestos:	
		Percent:		Chrysotile		Amosite		Crocidolite			
Homogeneous											
loose particulate, black		100 %		-		-		-		NAD	
<u>Other Fibers</u>		Fibrous		Mineral							
		Glass		Cellulose		Wool		Synthetic		Other	
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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
Tim Cammann
Eurofins - LabCor Portland



233230

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 27638.000 Phase 0001 Task 005

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: December 08, 2023

PBS Engineering and Environmental Inc.

4412 S Corbett Avenue

Portland, OR 97239

503.248.1939, Fax: 866.727.0140

Name

Authorized Signature

Date

Time

Sender's ID No.

Brief Description

27638.000-0001

27638.000-0002

27638.000-0003

27638.000-0004

27638.000-0005

27638.000-0006

27638.000-0007

27638.000-0008

27638.000-0009

27638.000-0010

27638.000-0011

27638.000-0012

27638.000-0013

27638.000-0014

RECEIVER

Date Received: 12/8/23

Company: Eurofins LabCor PDX

Address: 4321 S Corbett Avenue

Portland, OR 97239

(503) 224-5055

Name

Authorized Signature

Date

Time

Receiver's ID No.



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

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27638.000-0029		
27638.000-0030		
27638.000-0031		
27638.000-0032		
27638.000-0033		
27638.000-0034		
27638.000-0035		
27638.000-0036		
27638.000-0037		
27638.000-0038		
27638.000-0039		



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

27638.000-0040		
27638.000-0041		
27638.000-0042		
27638.000-0043		
27638.000-0044		
27638.000-0045		
27638.000-0046		
27638.000-0047		
27638.000-0048		
27638.000-0049		
27638.000-0050		
27638.000-0051		
27638.000-0052		
27638.000-0053		
27638.000-0054		
27638.000-0055		
27638.000-0056		
27638.000-0057		
27638.000-0058		
27638.000-0059		
27638.000-0060		
27638.000-0061		
27638.000-0062		
27638.000-0063		
27638.000-0064		



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

27638.000-0065		
27638.000-0066		
27638.000-0067		
27638.000-0068		
27638.000-0069		
27638.000-0070		
27638.000-0071		
27638.000-0072		
27638.000-0073		
27638.000-0074		
27638.000-0075		
27638.000-0076		
27638.000-0077		
27638.000-0078		
27638.000-0079		
27638.000-0080		
27638.000-0081		
27638.000-0082		
27638.000-0083		
27638.000-0084		
27638.000-0085		



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Please analyze the enclosed 85 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:

7 Day

SPECIAL INSTRUCTIONS:

05

THIS IS TO CERTIFY THAT

SEAN GRABINER

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ONLINE AHERA ASBESTOS INSPECTOR REFRESHER

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

Course Date: 01/05/2024

Course Location: Online

Certificate: IRO-24-4508B



CCB #SRA0615 4-Hr Training

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

Expiration Date: 01/05/2025

For verification of the authenticity of this certificate contact:
PBS Engineering and Environmental Inc.
4412 S Corbett Avenue
Portland, OR 97239

503-248-1939

A handwritten signature in black ink, reading "Andy Fridley".

Andy Fridley, Instructor

THIS IS TO CERTIFY THAT

SEAN GRABINER

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS MANAGEMENT PLANNER REFRESHER

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

Course Date: 01/12/2024

Course Location: Online

Certificate: MPR-24-4508B



AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

Expiration Date: 01/12/2025

For verification of the authenticity of this certificate contact:
PBS Engineering and Environmental Inc.
4412 S Corbett Avenue
Portland, OR 97239
503.248.1939

A handwritten signature in black ink, which appears to read "Andy Fridley", is written over a horizontal line.

Andy Fridley, Instructor