# **Asbestos Survey and Limited Lead Paint Inspection**

Five Structures Grandview Lumber Property

Prepared for:

**Grandview School District** 

General Information 1.1
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Laboratory Data Not Numbered
AHERA Certificates Not Numbered



June 2019 Project No.: 64583.003 Phase No.: 0001

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#### **GENERAL INFORMATION**

#### **BUILDING DATA**

Five Structures
710 Wine Country Road
Prosser, WA

#### **CLIENT DATA**

Grandview School District 913 West 2nd Street Grandview, WA 98930

## **SURVEY SCOPE**

PBS Engineering and Environmental Inc. (PBS) has performed asbestos surveys of accessible areas of five structures located at 710 Wine Country Road in Grandview, Washington, in accordance with WAC 296-62-07721 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
- Lead paint sampling
- Suspect polychlorinated biphenyl (PCB) light ballast inspection
- Inspection summary
- Laboratory analytical data of bulk material sampled
- Photo documentation of representative materials

With regard to asbestos, PBS endeavored to locate all the suspect asbestos-containing materials in the five storage buildings on the property; 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.

A second asbestos survey was performed and a report provided for the old store on the east end of this property.

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.

Project Manager/Prime Inspector						
Accreditation #: IMR-19-7830A						
Signature	Date					
© 2019 PBS Engineering and Environmental Inc.						



John Price

5/16/2019 John Price Visual Inspection, Survey, and Sample

PBS has investigated accessible areas inside of the buildings 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.

<u>Result</u>	Material (type)	<u>Location</u>	Approx. Quantity
(+)	Gypsum Wallboard/Joint Compound	Building #5, north side of building, interior walls	400 SF
(+)	Vinyl Floor Tile/Mastic - 9-inch beige	Building #5, NE area of building, floor	160 SF

### **MATERIALS THAT TESTED NEGATIVE FOR ASBESTOS**

Samples of the following materials did not contain asbestos based on testing by a NVLAP participating laboratory. 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.

Material (type)	<u>Location</u>
Asphalt Impregnated Paper	Building #3, under composition 3-tab shingles
Asphalt Impregnated Paper	Building #4, under cedar shakes
Asphalt Impregnated Paper	Building #4, under composition 3-tab shingles
Caulk - white	Building #1, around door frame
Caulk - white	Building #3, around door frames and on siding
Caulk - white	Building #5, esterior around east window
Composition Shingles - brown (3)	Building #4, under metal roof
Composition Shingles - green (1)	Building #3, under metal roof
Composition Shingles - red/brown (2)	Building #3, under metal roof
Stapled-on Ceiling Tile	Building #5, NW room, ceiling

### **BACKGROUND**

On May 10, 2019, PBS performed a pre-demolition asbestos survey and lead paint inspection of the five storage buildings on the property located at 710 Wine Country Road in Grandview, Washington. The survey was requested by Wenaha Group in anticipation of demolition and renovation.

The five buildings are described as follows:

- Building #1 Older pole building structure which was framed with newer wood framing, trusses and purloins with metal siding. A lean-to structure was constructed along the north side of the building. One older wood door was re-used on the building, with some caulking around the framing. The remainder of the building is wood, metal, and concrete floor slab.
- Building #2 Newer pole building structure with no suspect asbestos-containing materials.
- Building #3 Old wood building with the east bay being on a concrete slab and the west end of the building being elevated on wood piers. Aside from some caulk around some door framing on the north side of the building, the two sections (east and west) have original composition 3-tab roofing with tar paper under corrugated metal roofing.
- Building #4 Older wood building with as many as six additions to the original building which appears to
  be on the west end, north side of the building. The entire building is built on multiple elevations/pours of
  concrete floor slabs. Only some tar paper under cedar shakes and older composition roofing under
  corrugated metal roofing were observed.
- Building #5 Older wood framed building on a concrete floor slab. This building is on a separate parcel and appears to have been some sort of service building with an open concrete floor shop and an office/service counter area and a restroom on the north end of the building. Floor tile, gypsum wallboard, and ceiling tiles were present inside the building with some caulking on the exterior windows and door.

The purpose of the survey was to locate, identify, and quantify accessible friable and non-friable asbestos-containing building materials for removal prior to demolition and renovation.

The survey is intended to satisfy Washington State Department of Labor and Industries (L&I) regulations in Washington Administrative Code (WAC) 296-62-07721 and Yakima Regional Clean Air Agency requirements in Regulation 1 subsection 3.07F to perform and asbestos survey prior to demolition or renovation. The survey is also intended to satisfy L&I hazard communication requirements.



June 2019

## **ASBESTOS SUMMARY**

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

## **Building #5**

- Joint compound on gypsum wallboard assemblies 2% asbestos was identified in the joint compound layers on the remaining gypsum wallboard walls on the north side of Building #5. This material is damaged along edges where sections of the walls were previously removed. The joint compound would be considered friable during demolition and renovation work. Additional analysis may be performed which could result in the total asbestos concentration of the wallboard system in being less than one percent (<1%) asbestos. See the regulatory conversation below for additional information.
- Asbestos-containing vinyl floor tile was observed in the northeast area of the building. The black mastic under the floor tile contains <1% asbestos. The tile is significantly damaged along the edges of the section of flooring. It is possible that dust from the floor tile has been spread throughout the building.

No ACM was identified in Buildings #1, #3, or #5. No suspect ACM was observed in Building #2, so no samples were collected from this building.

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

#### **Asbestos Regulations**

WAC 296-62-077 requires proper removal and handling of ACM by licensed and trained asbestos abatement contractors prior to building renovation or demolition.

Regulations define ACM as any material containing more than one percent asbestos. Although materials with <1% asbestos are not considered by regulatory agencies to be an ACM, they still have some asbestos content, and WAC has specific requirements for situations in which workers may encounter, disturb, or remove materials containing any concentration of asbestos. For the sake of hazard communication, these materials are included in the asbestos-containing materials section of this report.

L&I does require training for workers who impact materials with any amount of asbestos, if that impact could result in airborne fiber concentrations over the permissible exposure limit (PEL) of 0.1 fibers per cubic centimeter (f/cc) of air.

Refer to WAC 296-62-077 for additional information.



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### **LEAD-BASED PAINT**

#### **LEAD SUMMARY**

Paint was sampled for lead content for the sake of hazard communication.

Seven paint chip samples were collected from representative building components from Buildings #1, #3, #4, and #5 and submitted under chain of custody to EMSL Analytical, Inc of San Leandro, California, for analysis of lead content via flame atomic absorption (FLAA). The concentration of lead in the samples range from below the level of detection to 4.3% or 43,000 parts per million (ppm).

See the lead sample inventory section for representative building components and corresponding results.

Paint testing for this survey was limited in scope. The report information and testing results are not to be construed as an exhaustive investigation of lead-containing paint on all building surfaces. All paint on 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 percent or 5,000 ppm. Under L&I, any lead concentration in paint that may become airborne during construction operations triggers requirements in the Lead in Construction Standard WAC 296-155-176 to protect employees impacting the paint.

## PCB BALLASTS AND MERCURY LAMPS/SWITCHES

## Polychlorinated Biphenyls (PCBs)/Mercury Investigation

PBS conducted a visual inspection of the residence for suspect PCB lamp ballasts, mercury-containing fluorescent lamp tubes, and mercury-containing thermostat switches. PBS did not observe any of these materials. This investigation was a visual assessment only; no samples were collected.

## Mercury-Containing Compact Fluorescent Light Tubes/Switches Regulatory Issues

All mercury-containing compact fluorescent light bulbs and switches should be carefully handled, packaged, and recycled or disposed of in the appropriate manner.

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

- US Environmental Protection Agency Toxic Substance Control Act, TSCA, (Code of Federal Regulations Title 40, Part 761).
- RCRA, Resource Conservation and Recovery Act, 40 CFR Part 2761, Subpart D., 40 CFR 273.

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



June 2019



Photo 1. Building #1, view from north of building.



Photo 2. Building #1, view of interior west side of building.



Photo 3. Building #2, view from southeast of building.



Photo 4. Building #2, view from east side of building showing interior.



Photo 5. Building #3, view from northeast side of building.



Photo 6. Building #3, view of west interior of building.



Photo 7. Building #4, view from southeast showing west end of building.



Photo 8. Building #4, view from northwest showing north side of building.



Photo 9. Building #4, showing south side of original structure on east end of building.



Photo 10. Building #4, view from inside west bay showing east wall of another (second) addition to the original building in Photo 9 above.



Photo 11. Building #5, view from southeast of building.



Photo 12. Building #5, view of north interior showing gypsum wallboard with asbestos-containing joint compound and area of asbestos-containing 9-inch vinyl floor tile.

<b>Code</b> 64583.003-0001	Material		Location Results #1; north side; around door frame; white putty		LabCor Fugano
04583.003-0001	Cauik		#1, north side, around door fram	ie, white putty	LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	rubbery material, white with coating, gray	No Asbestos Detected	
64583.003-0002	Composition Shin	gles (1)	#3; NE corner; gray/green 3-tab		LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	rocky fibrous tar, black/green/white with coating, brown	No Asbestos Detected	
		Layer 2	rocky fibrous tar, black/green/white with coating, brown	No Asbestos Detected	
		Layer 3	rocky fibrous tar, black/green/white with coating, brown	No Asbestos Detected	
64583.003-0003	Asphalt Impregna	ted Paper	#3; south side; tar paper under 3-tab		LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	fibrous tar, black	No Asbestos Detected	
		Layer 2	tar, black/brown	No Asbestos Detected	
64583.003-0004	Composition Shin	gles (1)	#3; south side; gray/green 3-tab		LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	rocky fibrous tar, black with coating, brown	No Asbestos Detected	
		Layer 2	paint, gray	No Asbestos Detected	
		Layer 3	rocky fibrous tar, black with coating, brown	No Asbestos Detected	
64583.003-0005	Asphalt Impregna	ted Paper	#3; south side; tar paper under 3	-tab	LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	loose paint, gray	No Asbestos Detected	
		Layer 2	loose fibrous tar, black	No Asbestos Detected	



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<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>
64583.003-0006	Composition Shingles (2)		#3; SW corner; red/brown 3-tab		LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	rocky fibrous tar, black/red with coating, brown	No Asbestos Detected	
		Layer 2	rocky fibrous tar, black/red with coating, brown	No Asbestos Detected	
64583.003-0007	Composition Shin	ngles (2)	#3; north side; red/brown 3-tab		LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	paint, tan	No Asbestos Detected	
		Layer 2	rocky fibrous tar, black/gray	No Asbestos Detected	
64583.003-0008	Caulk		#3; north side; west door; white	outty	LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	rubbery material, white with paint, tan/green	No Asbestos Detected	
64583.003-0009	Caulk		#3; north side; center door; white	e putty	LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	rubbery material, white with coating, tan/gray	No Asbestos Detected	
64583.003-0010	Asphalt Impregna	ited Paper	#4; east end; shake roof; tar pape	er under cedar shakes	LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	compressed fibers, black/brown	No Asbestos Detected	
64583.003-0011	Composition Shin	ngles (3)	#4; north side; west bay; brown	3-tab	LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	coating, brown	No Asbestos Detected	
		Layer 2	rocky fibrous tar, black/green	No Asbestos Detected	
64583.003-0012	Asphalt Impregna	ited Paper	#4; north side; east end; tar pape	er	LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	paint, gray	No Asbestos Detected	
		Layer 2	fibrous tar, black	No Asbestos Detected	
		Layer 3	tar, black with coating, gray	No Asbestos Detected	



<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>
64583.003-0013	Vinyl Floor Tile/Ma	astic	#5; NE corner; 9-inch beige with black mastic		LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	hard vinyl, gray	2% Chrysotile	
		Layer 2	mastic, black	<1% Chrysotile	
64583.003-0014	Gypsum Wallboar Compound	d/Joint	#5; east side; gypsum with joint of	compound	LabCor Eugene, Inc.
	·	Layer:	Description:	Analysis:	
		Layer 1	paint, gray with fine compact powder, off-white	2% Chrysotile	
		Layer 2	fine compact powder, off- white with paper, white	2% Chrysotile	
		Layer 3	compact chalky material with paper, white	No Asbestos Detected	
64583.003-0015	Gypsum Wallboar Compound	d/Joint	#5; west end; gypsum with joint compound		LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	paint, green with fine compact powder, off-white	2% Chrysotile	
		Layer 2	fine compact powder, off-white	2% Chrysotile	
		Layer 3	compact chalky material with paper, white	No Asbestos Detected	
64583.003-0016	Stapled-on Ceiling	g Tile	#5; NW storage closet; 12"x24" v	vhite tile	LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	coating, white	No Asbestos Detected	
		Layer 2	compressed fibers, brown	No Asbestos Detected	
64583.003-0017	Caulk		#5; east window; white putty		LabCor Eugene, Inc.
		Layer:	Description:	Analysis:	
		Layer 1	hard compact powder, off- white	No Asbestos Detected	





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Asbestos and Environmental Analysis

Client: PBS Engineering and Environmental

400 Bradley Blvd Ste 300 Richland, WA 99352

Report Number: 190382R01 Report Date: 05/16/2019

P.O. No: n/a

Job Number: 190382

**Project Name:** 

**Project Number:** 64583.003 Phase 0001

**Project Notes:** 

64583.003-0001 Sample ID: S1 Date Analyzed: 05/15/2019 Client Sample ID: Analyst: Sarah Gallino

**Client Sample Description:** 

**Asbestos Mineral Fibers** Percent Percent: Chrysotile Asbestos: Amosite Crocidolite

Homogeneous

rubbery material, white 100 % NAD

with coating, gray

**Other Fibers Fibrous** Mineral

Glass Wool Other Cellulose Synthetic Matrix 100 %

Client Sample ID: 64583.003-0002 Sample ID: S2 Date Analyzed: 05/15/2019 **Client Sample Description:** Analyst: Sarah Gallino **Asbestos Mineral Fibers** Laver Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Layer 01 rocky fibrous tar, 35 % NAD black/green/white with coating, brown Layer 02 NAD rocky fibrous tar, 35 % black/green/white with coating, brown Layer 03 30 % rocky fibrous tar, NAD black/green/white with coating, brown Other Fibers Fibrous Mineral Other Glass Wool Cellulose Synthetic Matrix Layer 01 20 % 80 % Layer 02 20 % 80 % 20 % 80 % Layer 03

Client Sample ID: 64583.003-0003 Sample ID: S3 Date Analyzed: 05/15/2019 **Client Sample Description:** Analyst: Sarah Gallino

**Asbestos Mineral Fibers** Layer Percent: Chrysotile Amosite Crocidolite Asbestos:

Layer 01 95 % fibrous tar, black NAD

Laver 02 tar, black/brown 5 % NAD

**Other Fibers** Fibrous Mineral Glass Cellulose Wool Synthetic Other Matrix 30 % Layer 01 70 % 97 % Layer 02 3 %

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Percent



**Other Fibers** 

Layer 01 Layer 02 **Fibrous** 

Glass

Cellulose

20 %

20 %

Mineral

Wool

Synthetic

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

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Asbestos and Environmental Analysis

190382 Job Number: Report Number: 190382R01 Report Date: 05/16/2019 Sample ID: S4 Client Sample ID: 64583.003-0004 Date Analyzed: 05/15/2019 **Client Sample Description:** Analyst: Sarah Gallino **Asbestos Mineral Fibers** Percent Laver Percent: Chrysotile Amosite Crocidolite Asbestos: Layer 01 rocky fibrous tar, black 60 % NAD with coating, brown Layer 02 NAD paint, gray 5 % Layer 03 rocky fibrous tar, black 35 % NAD with coating, brown **Other Fibers** Fibrous Mineral Other Glass Wool Cellulose Synthetic Matrix 20 % 80 % Layer 01 96 % Layer 02 4 % Laver 03 20 % 80 % Client Sample ID: 64583.003-0005 Date Analyzed: Sample ID: S5 05/15/2019 **Client Sample Description:** Analyst: Sarah Gallino **Asbestos Mineral Fibers** Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Layer 01 loose paint, gray 30 % NAD Layer 02 loose fibrous tar, black 70 % NAD **Other Fibers Fibrous** Mineral Other Glass Cellulose Wool Synthetic Matrix 5 % 95 % Layer 01 Layer 02 15% 85 % Client Sample ID: 64583.003-0006 Sample ID: S6 Date Analyzed: 05/15/2019 **Client Sample Description:** Analyst: Sarah Gallino **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Crocidolite Asbestos: Amosite Layer 01 rocky fibrous tar, 50 % NAD black/red with coating, brown Layer 02 rocky fibrous tar, 50 % NAD black/red with coating, brown

Other

TESTING OF SOME OF SOM

Matrix

80 %

80 %

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Asbestos and Environmental Analysis

190382 Job Number: Report Number: 190382R01 Report Date: 05/16/2019 Client Sample ID: 64583.003-0007 Sample ID: S7 Date Analyzed: 05/15/2019 **Client Sample Description:** Analyst: Sarah Gallino **Asbestos Mineral Fibers** Percent Laver Percent: Chrysotile Amosite Crocidolite Asbestos: Layer 01 10 % NAD paint, tan Layer 02 rocky fibrous tar, 90 % NAD black/gray **Other Fibers** Fibrous Mineral Glass Wool Synthetic Other Cellulose Matrix Layer 01 100 % Layer 02 20 % 80 % Client Sample ID: 64583.003-0008 Sample ID: S8 Date Analyzed: 05/15/2019 **Client Sample Description:** Analyst: Sarah Gallino **Asbestos Mineral Fibers** Percent Laver Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous rubbery material, white 100 % NAD with paint, tan/green **Other Fibers Fibrous** Mineral Glass Cellulose Wool Synthetic Other Matrix 3 % 97 % Client Sample ID: 64583.003-0009 Sample ID: S9 Date Analyzed: 05/15/2019 **Client Sample Description:** Analyst: Sarah Gallino **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous rubbery material, white 100 % NAD with coating, tan/gray **Other Fibers** Fibrous Mineral Wool Other Glass Cellulose Synthetic Matrix 100 % Client Sample ID: 64583.003-0010 Sample ID: S10 Date Analyzed: 05/15/2019 **Client Sample Description:** Sarah Gallino Analyst: **Asbestos Mineral Fibers** Percent Percent: Chrysotile Crocidolite Asbestos: Amosite Homogeneous compressed fibers, 100 % NAD black/brown **Other Fibers Fibrous** Mineral Other Glass Wool Cellulose Synthetic Matrix 75 % 25 %

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Asbestos and Environmental Analysis

190382 Report Number: 190382R01 Job Number: Report Date: 05/16/2019 Client Sample ID: 64583.003-0011 Sample ID: S11 Date Analyzed: 05/16/2019 **Client Sample Description:** Analyst: Sarah Gallino **Asbestos Mineral Fibers** Percent Laver Percent: Chrysotile Amosite Crocidolite Asbestos: Layer 01 5 % NAD coating, brown Layer 02 rocky fibrous tar, 95 % NAD black/green **Other Fibers** Fibrous Mineral Glass Wool Synthetic Other Cellulose Matrix Layer 01 100 % Layer 02 20 % 80 % Client Sample ID: 64583.003-0012 Sample ID: S12 Date Analyzed: 05/16/2019 **Client Sample Description:** Analyst: Sarah Gallino **Asbestos Mineral Fibers** Percent Layer Chrysotile Percent: Amosite Crocidolite Asbestos: Layer 01 5 % NAD paint, gray Layer 02 85 % fibrous tar, black NAD Layer 03 tar, black with coating, 10 % NAD gray Mineral Other Fibers Fibrous Glass Cellulose Wool Other Synthetic Matrix Layer 01 3 % 97 % Layer 02 100 % Layer 03 2 % 98 % Client Sample ID: 64583.003-0013 Sample ID: S13 Date Analyzed: 05/16/2019 **Client Sample Description:** Analyst: Sarah Gallino **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Crocidolite Asbestos: Amosite Layer 01 96 % hard vinyl, gray 2 % 2 % Layer 02 mastic, black 4 % Trace < 1 % Fibrous Mineral Other Fibers Glass Cellulose Wool Synthetic Other Matrix Layer 01 98 % 100 % Layer 02

Comments: Chrysotile in Layer 02 may be due to contamination by Layer 01.

TESTING TO THE MANAGE AND CORP. SOURCE SOURC

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Asbestos and Environmental Analysis

Job Number: 190382 Report Number: 190382R01 Report Date: 05/16/2019 Sample ID: S14 Client Sample ID: 64583.003-0014 Date Analyzed: 05/16/2019 **Client Sample Description:** Analyst: Sarah Gallino **Asbestos Mineral Fibers** Percent Laver Percent: Chrysotile Amosite Crocidolite Asbestos: Layer 01 15% 2 % paint, gray with fine 2 % compact powder, offwhite Layer 02 fine compact powder, off-10 % 2 % 2 % white with paper, white Layer 03 compact chalky material 75 % NAD with paper, white **Other Fibers** Fibrous Mineral Glass Cellulose Wool Other Synthetic Matrix Layer 01 98 % Layer 02 40 % 58 % 5 % 95 % Layer 03 64583.003-0015 Sample ID: S15 05/16/2019 Client Sample ID: Date Analyzed: Sarah Gallino **Client Sample Description:** Analyst: **Asbestos Mineral Fibers** Percent Percent: Chrysotile Crocidolite Asbestos: Amosite Layer 01 20 % paint, green with fine 2 % 2 % compact powder, offwhite Layer 02 fine compact powder, off-15% 2 % 2 % white Laver 03 compact chalky material NAD 65 % with paper, white **Other Fibers Fibrous** Mineral Other Glass Wool Cellulose Synthetic Matrix 98 % Layer 01 50 % Layer 02 48 % 94 % Layer 03 1 % 5% Client Sample ID: 64583.003-0016 Sample ID: S16 Date Analyzed: 05/16/2019 **Client Sample Description:** Analyst: Sarah Gallino **Asbestos Mineral Fibers** Percent Layer Percent: Chrysotile Amosite Crocidolite Asbestos: Layer 01 5 % NAD coating, white Layer 02 compressed fibers, 95 % NAD brown **Other Fibers Fibrous** Mineral Other Glass Cellulose Wool Synthetic Matrix Layer 01 3 % 97% 100 % 0 % Layer 02

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Asbestos and Environmental Analysis

4 %

 Job Number:
 190382

 Report Number:
 190382R01

Report Date: 05/16/2019

NAD

96 %

<u>Client Sample ID:</u> **64583.003-0017** Sample ID: S17 Date Analyzed: 05/16/2019

Client Sample Description: Analyst: Sarah Gallino

Asbestos Mineral Fibers Layer Percent

Percent: Chrysotile Amosite Crocidolite Asbestos:

Homogeneous
hard compact powder, 100 % - - - -

hard compact powder, 100 % - - - - - off-white

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 40 CFR 763 Subpart E, Appendix E, 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.

Talc

• "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 July Alling
Sarah Gallino

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## TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Individuals signing this form wa original. The Receiver should co immediately to Sender.	rrant that the information provided in the information provided in the form, keep a copy and ret	s correct and complete. The Sender shown the original to the Sender. Receiver	ıld keep a copy shall report da	and send the mage of package
SENDER		RECEIVER		
Date Sent: May 13, 20	19	Date Received: 5-14-1	9	
PBS Engineering and Envi 400 Bradley Blvd., Suite 30 Richland, WA 99352 509.942.1600, Fax: 866.72	00	Address: 2620 River Rd.	LabCor Eugene, Inc. 2620 River Rd. Suite D Eugene, OR 97404 541.654.8656	
Paige Price		Sarah Gallino		
Paigu Prico Authorized Signature	5/13/19 11:32 Date Time	June Jalino Authorized Signature	5-14-19 Date	10:21am
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**Project No.:** 

64583.003

Phase 0001



3/2

## TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

64583.003-0015	
64583.003-0016	
64583.003-0017	
notification if samples wi Request verbal results by	esults to the above address.
SPECIAL INSTRUCTION	s: email results to: john.price@plosusa.com
	paige. price Oppsusa. com

## **LEAD SAMPLE INVENTORY**

<u>C</u>	<u>ode</u>	<u>Material</u>	<u>Analysis</u>	Location	<u>Lab</u>
P	AINT				
LE	364583.003-1001	Paint	0.34%	#1; north side; exterior; door; wood; white	EMSL Laboratory
LE	364583.003-1002	Paint	0.093%	#3; north side; exterior; wall; wood; beige; west section	EMSL Laboratory
LE	364583.003-1003	Paint	<0.0080%	#3; north side; exterior; joist; wood; beige	EMSL Laboratory
LE	364583.003-1004	Paint	4.3%	#4; interior; west end; original siding; wood; beige	EMSL Laboratory
LE	364583.003-1005	Paint	0.70%	#4; exterior; north side; sliding door; wood; beige	EMSL Laboratory
LE	864583.003-1006	Paint	0.069%	#4; exterior; south side; siding; wood; gray	EMSL Laboratory
LE	364583.003-1007	Paint	0.044%	#5; interior; north side; door; wood; white	EMSL Laboratory



June 2019



Attn: Paige Price

## **EMSL Analytical, Inc**

464 McCormick Street, San Leandro, CA 94577 (510) 895-3675 / (510) 895-3680

http://www.EMSL.com

sanleandrolab@emsl.com

(509) 735-2698 Phone: Fax: (509) 735-1867 Received: 05/14/19 9:00 AM

EMSL Order:

CustomerID:

CustomerPO:

ProjectID:

091910916

PBSE34

Collected: 05/14/2019

PBS Engineering & Environmental, Inc. 400 Bradley Blvd Suite 106 Richland, WA 99352

Project: 64583.003 PHASE 0001

## Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Weight	Lead <b>Concentration</b>
LB64583.003-1001	091910916-0001	05/14/2019	05/14/2019	0.263 g	0.34 % wt
LB64583.003-1002	091910916-0002	05/14/2019	05/14/2019	0.2657 g	0.093 % wt
LB64583.003-1003	091910916-0003	05/14/2019	05/14/2019	0.2736 g	<0.0080 % wt
LB64583.003-1004	091910916-0004	05/14/2019	05/14/2019	0.2499 g	4.3 % wt
LB64583.003-1005	091910916-0005	05/14/2019	05/14/2019	0.2676 g	0.70 % wt
LB64583.003-1006	091910916-0006	05/14/2019	05/14/2019	0.2574 g	0.069 % wt
LB64583.003-1007	091910916-0007	05/14/2019	05/14/2019	0.2537 g	0.044 % wt

Julian Neagu, Lead Laboratory Manager or other approved signatory

Juh/hz

\*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of 

Samples analyzed by EMSL Analytical, Inc San Leandro, CA A2LA Accredited Environmental Testing Cert #2845.09

Initial report from 05/14/2019 16:47:51

Project No.:

64583.003



Phase 0001

## TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

		correct and complete. The Sender shoul rn the original to the Sender. Receiver s	
SENDER		RECEIVER	
<b>Date Sent:</b> May 13, 2019		Date Received:	
PBS Engineering and Environme 400 Bradley Blvd., Suite 300 Richland, WA 99352 509.942.1600, Fax: 866.727.014		Company: EMSL Laboratory Address: 464 McCormick San Leandro, CA (510)895-3675	Street
Paige Price Name		Name	 A <i>P</i>
Paige Price	5/13/19	1/h on	5-14-19 F-C
Authorized Signature	Date	Authorized Signature	Date
Sender's ID No.  LB64583.003-1001  LB64583.003-1002  LB64583.003-1003  LB64583.003-1004  LB64583.003-1005  LB64583.003-1006  LB64583.003-1007	Brief Description	Receiver's ID No.	
ANALYSIS REQUESTED:  LEAD: Paint  Wipe  Soil/Misc.  Air  TCLP	PBS requests prior not	closed 7 sample(s) for LEAD content using A ification if samples will be disposed.  The results to the above address.  The samples will be disposed.	tomic Absorption Method.
SPECIAL INSTRUCTIONS: &MO	/	jerice posusa com	

1

# United States Department of Commerce National Institute of Standards and Technology



# Certificate of Accreditation to ISO/IEC 17025:2005

**NVLAP LAB CODE: 600145-0** 

# LabCor Eugene

Eugene, OR

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

## **Asbestos Fiber Analysis**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2019-01-01 through 2019-12-31

Effective Dates



For the National Voluntary Laboratory Accreditation Program



## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

## LabCor Eugene

2620 River Rd Suite D Eugene, OR 97404 Sarah Gallino Phone: 541-654-8656

Email: sgallino@labcoreug.net http://www.labcoreug.net

## ASBESTOS FIBER ANALYSIS

## **NVLAP LAB CODE 600145-0**

## **Bulk Asbestos Analysis**

<u>Code</u>	<u>Description</u>			
18/A01	EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples			
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials			

For the National Voluntary Laboratory Accreditation Program



## AIHA Laboratory Accreditation Programs, LLC

acknowledges that

## **EMSL Analytical, Inc**

464 McCormick Street, San Leandro, CA 94577

Laboratory ID: 101748

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

## LABORATORY ACCREDITATION PROGRAMS

FOOD Accred	ditation Expires: ditation Expires: May 01, 202 ditation Expires: ditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Beth Bair

Elizabeth Bair Chairperson, Analytical Accreditation Board

Revision 16: 03/21/2018

Cheryl O. Charton

Cheryl O. Morton

Managing Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 05/03/2018



## AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

## **EMSL Analytical, Inc**

464 McCormick Street, San Leandro, CA 94577

Issue Date: 05/03/2018

Laboratory ID: **101748** 

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

## **Environmental Microbiology Laboratory Accreditation Program (EMLAP)**

**Initial Accreditation Date: 04/01/2005** 

EMLAP Category	Field of Testing (FoT)	Method	Method Description (for internal methods only)
Fungal	Air - Culturable	Micro-SOP-202 (formerly EMSL M005)	Detection and Enumeration of Culturable Fungi From Environmental Samples
	Bulk - Culturable	Micro-SOP-202 (formerly EMSL M005)	Detection and Enumeration of Culturable Fungi From Environmental Samples
	Surface - Culturable	Micro-SOP-202 (formerly EMSL M005)	Detection and Enumeration of Culturable Fungi From Environmental Samples
	Air - Direct Examination	Micro-SOP-201 (formerly 05-TP-003.7)	Standard Operating Procedure for the Analysis of Airborne Fungal Spores, Hyphal Fragments, Pollen, Insect Fragments, Skin Fragments and Fibrous Particulate by Optical Microscopy of Spore Trap Samples
	Bulk - Direct Examination	Micro-SOP-200 (formerly EMSL M041)	Standard Operating Procedure for the Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, Pollen, Insect Fragments and Fibrous Material From Surface Samples
	Surface - Direct Examination	Micro-SOP-200 (formerly EMSL M041)	Standard Operating Procedure for the Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, Pollen, Insect Fragments and Fibrous Material From Surface Samples
	Air – Culturable	Micro-SOP-132 (formerly EMSL M009)	Detection and Enumeration of Culturable Bacteria from Environmental Samples
Bacterial	Bulk - Culturable	Micro-SOP-132 (formerly EMSL M009)	Detection and Enumeration of Culturable Bacteria from Environmental Samples
	Surface - Culturable	Micro-SOP-132 (formerly EMSL M009)	Detection and Enumeration of Culturable Bacteria from Environmental Samples

Effective: 03/12/2013

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EMLAP Category	Field of Testing (FoT)	Method	Method Description (for internal methods only)
Bacterial	Legionella	MICRO-SOP-105	ISO 11731:2017

A complete listing of currently accredited Environmental Microbiology laboratories is available on the AIHA-LAP, LLC website at: <a href="http://www.aihaaccreditedlabs.org">http://www.aihaaccreditedlabs.org</a>

Effective: 03/12/2013

101748\_Scope\_EMLAP\_2018\_04\_30

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## THIS IS TO CERTIFY THAT

# **JOHN PRICE**

# HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE for

# ASBESTOS INSPECTOR / MANAGEMENT PLANNER REFRESHER

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

Course Date:

01/10/2019

Course Location:

Richland, WA

Certificate:

IMR-19-7830A



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

**Expiration Date:** 

01/10/2020

For verification of the authenticity of this certificate contact:
PBS Environmental
4412 SW Corbett Avenue
Portland, OR 97239
(503) 248-1939

Stragor M. Baken

Greg Baker, Instructor