



Engineering +
Environmental

Pre-Renovation Hazardous Building Materials Survey

Fern Ridge Middle School
88831 Territorial Road
Elmira, OR 97347

Prepared for:

Fern Ridge 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

Fern Ridge Middle School
88831 Territorial Road
Elmira, OR 97347

CLIENT DATA

Fern Ridge School District
88834 Territorial Road
Elmira, OR 97437

SURVEY SCOPE

PBS Engineering and Environmental Inc. (PBS) has performed a pre-renovation hazardous building materials survey of accessible building areas of Fern Ridge Middle School in Elmira, Oregon. The survey was performed in accordance with Occupational Safety and Health Administration (OSHA) in 29 Code of Federal Regulations (CFR) 1910.1001. This report is compiled 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
- Inspection summary
- Laboratory analytical data of bulk material sampled
- Suspect polychlorinated biphenyl (PCB) light ballast inspection

PBS endeavored to locate all of the suspect asbestos-containing materials in 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.

Derek May
Project Manager
Accreditation # IR-14-0009A

Rich Dufresne
Prime Inspector
Accreditation # MPR-14-0264A

 09/12/14

 Signature Date

 09/12/14

 Signature Date



INSPECTION SUMMARY

DATES	SURVEYED BY	ACTIVITY
7/21/2014	Rich Dufresne	Inspect and Sample

PBS has investigated accessible areas inside of the building(s) to locate suspect asbestos-containing materials (ACM). 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.

Result	Material (type)	Location	Approx. Quantity
(+)	Vinyl Floor Tile/Mastic; 12" White	Storage closet adjacent kitchen, Room 24	580 SF
(+)	Vinyl Floor Tile/Mastic; White 12"	Music room; under carpet	2,400 SF
(+)	Vinyl Floor Tile/Mastic; 12" White	Northeast science lab work room, and office copy room	400 SF
(+)	Vinyl Floor Tile/Mastic; 9" Red	Office areas, water heater closets	1,100 SF
(+)	Sheet Floor Covering; Yellow Aggregate	Kitchen	510 SF
(+)	Sheet Floor Covering; Yellow	Offices work room, restrooms, custodial restroom	300 SF
(+)	Sheet Floor Covering; Tan	Room 20 Home Economics; Classroom 19 closet	1,020 SF
(+)	Cement Asbestos Board Ceiling Panels	Band practice rooms	150 SF
(+)	Cement Asbestos Board Lab Tops and Sinks	Science classrooms	160 SF
(+)	Exterior Cement Asbestos Board Panels	Building exterior below windows	35 EA
(+)	Black Sink Undercoating	Classrooms 20, 21, 22, band room, science rooms, library and other various locations	20 EA
(+)	Joint Compound	Boy's restroom, Room 19 (less than 1% chrysotile)	400 SF

INSPECTION SUMMARY

(+)	Residual Mastic Under Carpet	Music room; music offices	3,200 SF
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MATERIALS WHICH 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>
Caulk/HVAC Sealant	Above music room office
Covebase/Mastic, Various Types	Throughout
Glued-on Ceiling Tiles and Associated Mastic	Weight room and band rooms
Gypsum Wallboard	Throughout
Lay-in Ceiling Tile; Various Types	Throughout
Leveling Compound	Various locations throughout
Masonry Paint	Interior and exterior concrete masonry unit (CMU) walls
Paper Felt/Black Building Paper	Building exterior
Roofing Material Debris	Above ceilings throughout
Vinyl Floor Tile/Mastic; 12" White With Blue Marble (1)	Multi-purpose commons and east corridor
Wall Mastic	Weight room, band room
Yellow Carpet Mastic	Various locations throughout

INSPECTION SUMMARY

BACKGROUND

On July 22, 2014, PBS Engineering and Environmental Inc. (PBS) performed a pre-renovation hazardous building materials survey of the Fern Ridge Middle School located at 88831 Territorial Road in Elmira, Oregon.

The purpose of the survey was to identify asbestos-containing building materials, lead-based paint and other hazardous building materials that be impacted by proposed building improvements.

This survey is compiled to satisfy the requirements to perform an asbestos inspection prior to any renovation or demolition activities under the Oregon Administrative Rule (OAR) 340-248-0270 and Occupational Safety and Health Administration (OSHA) hazard communication requirements.

ASBESTOS SUMMARY

Bulk samples of suspect asbestos-containing materials (ACM) were collected by a PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspector and submitted under chain-of-custody to Lab/Cor, Inc. of Portland, Oregon, for polarized light microscopy (PLM) analysis analysis.

- Asbestos-containing vinyl floor tile and associated mastic is present in various locations throughout the school. The floor tile is overlaid with carpet in many areas.

There is evidence of past asbestos flooring abatement projects; additional asbestos-containing vinyl floor tile may be concealed in other locations throughout the school building. Residual floor tile mastic was identified in samples of carpet mastic in the music room.

Asbestos-containing floor tile was observed in good condition in all areas with the exception of minor damage to the red, nine-inch (9") floor tile located in each of the three water heater rooms in the science classrooms wing. The material is non-friable in its current state.

- Asbestos-containing sheet floor covering is present in the kitchen, home economics classroom, and staff restrooms. In the restrooms, the sheet floor covering is used as a wainscot that extends approximately 4 feet up each wall.

The sheet floor covering was observed in good condition. The material is non-friable. However, when removed or damaged, the fibrous backing is highly friable.

- Cement asbestos board ceiling panels are present in the music practice rooms. The panels are perforated and installed into a "T" bar grid system.

The cement asbestos ceiling panels are non-friable and in good condition. The ceiling panels should not be disturbed as movement may dislodge asbestos fibers bound in the cement matrix.

- Cement asbestos board panels are also present at the exterior windows. The asbestos panels are installed below the windows in the aluminum window assemblies.

The cement asbestos panels are non-friable. Several damaged or cracked panels were observed although none of the damage is significant. Several panels have been replaced with plywood.

- The science classroom lab table tops and counter tops are asbestos-containing. The heavy black lab tops are non-friable and in good condition.

INSPECTION SUMMARY

- Stainless steel sinks, which utilize an asbestos-containing undercoating, are present in a variety of locations. The asbestos-containing coatings are spray applied as an insulator and sound dampener to the underside of the metal sinks. The asbestos-containing coating was observed in a variety of colors. The material is non-friable and in good condition.
- Less than one percent (<1%) asbestos was indicated in the joint compound of two samples (samples 17 and 21). Samples 17 and 21 were collected in the boy's restroom and Room 19, respectively. All other joint compound samples indicated no asbestos detected.

Please refer to the asbestos bulk sample inventory and laboratory report for specific asbestos sample locations and test results.

LEAD SUMMARY

Paint-chip samples were collected from representative interior and exterior painted building components. These samples represent the major painted components of the building. The paint samples were submitted under chain-of-custody to R.J. Lee Group in Monroeville, Pennsylvania, for lead analysis by flame atomic absorption (FLAA).

The paint chip samples revealed relatively low concentrations of lead in paint.

Please refer to the lead sample inventory and laboratory report for specific lead sample locations and test results.

For reference, the Environmental Protection Agency (EPA) uses 5,000 parts per million (ppm) as the threshold limit for the definition of lead-based paint. Lead in any concentration may become airborne above the OSHA action level during certain trigger activities. Lead safe work practices should always be employed when impacting paint that contains lead in any concentration.

POLYCHLORINATED BIPHENYL (PCB) CONTAINING BALLASTS AND MERCURY-CONTAINING LAMPS

Fluorescent light fixtures that utilize mercury-containing lamps and suspect polychlorinated biphenyl (PCB) containing ballasts were observed in the office areas. The inspector disassembled representative fixtures and observed "No PCB" labeling on the ballasts. Each ballast should be inspected by the demolition contractor to ensure that all ballasts are consistent with those observed.

Approximately 1200 four-foot lamps and 16 eight-foot lamps that contain mercury were observed. The lamps should be disposed of properly.

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
23544.000-0001	Glued-on Ceiling Tiles	Weight room; glued-on ceiling tiles, 12" fissures and pin perf		Lab Cor
		Layer: Layer 1	Description: compressed fibers, gray with paint, white	Analysis: No Asbestos Detected
23544.000-0002	Mastic	Weight room; glued-on ceiling tile, brown mastic		Lab Cor
		Layer: Layer 1	Description: mastic, brown	Analysis: No Asbestos Detected
23544.000-0003	Glued-on Ceiling Tiles	Weight room; glued-on ceiling tile, 12" pin perf		Lab Cor
		Layer: Layer 1	Description: compressed fibers, gray with paint, white	Analysis: No Asbestos Detected
23544.000-0004	Mastic	Weight room; glued-on ceiling tile, brown mastic		Lab Cor
		Layer: Layer 1	Description: mastic, brown	Analysis: No Asbestos Detected
23544.000-0005	Paint	Weight room; wall, masonry paint		Lab Cor
		Layer: Layer 1	Description: particulate with paint, green/off-white	Analysis: No Asbestos Detected
23544.000-0006	Gypsum Wallboard/Joint Compound	Weight room; office, gypsum wallboard with joint compound		Lab Cor
		Layer: Layer 1	Description: paint, green with fine compact powder, off-white	Analysis: No Asbestos Detected
		Layer: Layer 2	Description: compact chalky material with paper, white	Analysis: No Asbestos Detected
23544.000-0007	Mastic	Weight room; wall mastic, masonry panels		Lab Cor
		Layer: Layer 1	Description: loose mastic, orange	Analysis: No Asbestos Detected
23544.000-0008	Vinyl Floor Tile	East hallway; ramp area, 12" vinyl floor tile, white with blue marble, yellow mastic		Lab Cor
		Layer: Layer 1	Description: vinyl tile, off-white	Analysis: No Asbestos Detected
		Layer: Layer 2	Description: mastic, orange	Analysis: No Asbestos Detected

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
23544.000-0009	Lay-in Ceiling Tile	Hallway outside Room 22; lay-in ceiling tiles, 12" linear fissures and pin perf		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibers, gray with paint, white	No Asbestos Detected	
23544.000-0010	Sink Undercoating	Offices; Room 22, black sink undercoating		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	loose mastic, black	<1% Chrysotile	
23544.000-0011	Sink Undercoating	Offices; Room 21, black sink undercoating		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	loose mastic, black	<1% Chrysotile	
23544.000-0012	Material Debris	Hallway outside Room 22; above ceiling tiles, black roofing debris		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	tar, black	No Asbestos Detected	
	Layer 2	compressed fibers with powder, gray	No Asbestos Detected	
23544.000-0013	Covebase/Mastic	Room 21; 4" black covebase, brown mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, brown	No Asbestos Detected	
	Layer 2	mastic, brown	No Asbestos Detected	
23544.000-0014	Lay-in Ceiling Tile (2)	Room 21; 2'x4' pin perf lay-in ceiling tiles,		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibers, gray with paint, white	No Asbestos Detected	
23544.000-0015	Vinyl Floor Tile (1)	Storage closet; 12" white vinyl floor tile		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	vinyl tile, off-white/gray	<1% Chrysotile	
	Layer 2	mastic, black	3% Chrysotile	
23544.000-0016	Sheet Floor Covering	Kitchen; yellow aggregate sheet flooring		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	vinyl sheet, tan	No Asbestos Detected	
	Layer 2	fibrous backing, gray	40% Chrysotile	

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
23544.000-0017	Gypsum Wallboard/Joint Compound	Boy's restroom; gypsum wallboard, joint compound		Lab Cor
	Layer: Layer 1	Description: fine compact powder, off-white with paper backing	Analysis: <1% Chrysotile	
23544.000-0018	Sink Undercoating	Room 20; pink sink undercoating		Lab Cor
	Layer: Layer 1	Description: powdery putty, purple	Analysis: 3% Chrysotile	
23544.000-0019	Mastic	Room 19; carpet mastic		Lab Cor
	Layer: Layer 1	Description: mastic, orange with fibers	Analysis: No Asbestos Detected	
23544.000-0020	Lay-in Ceiling Tile	Room 19; lay-in ceiling tile		Lab Cor
	Layer: Layer 1	Description: compressed fibers, gray with paint, white	Analysis: No Asbestos Detected	
23544.000-0021	Gypsum Wallboard/Joint Compound	Room 19; gypsum wallboard, joint compound		Lab Cor
	Layer: Layer 1	Description: paint, white with fine compact powder, white	Analysis: <1% Chrysotile	
	Layer: Layer 2	Description: compact chalky material with paper, white	Analysis: No Asbestos Detected	
23544.000-0022	Lay-in Ceiling Tile	Room 19; closet, pin perf lay-in ceiling tile		Lab Cor
	Layer: Layer 1	Description: compressed fibers, gray with paint, white	Analysis: No Asbestos Detected	
23544.000-0023	Sheet Floor Covering	Room 19; closet, tan sheet flooring, yellow mastic		Lab Cor
	Layer: Layer 1	Description: vinyl sheet, tan	Analysis: No Asbestos Detected	
	Layer: Layer 2	Description: fibrous backing, gray	Analysis: 40% Chrysotile	
23544.000-0024	Covebase/Mastic	Band practice room; 4" covebase, black mastic		Lab Cor
	Layer: Layer 1	Description: rubbery material, brown	Analysis: No Asbestos Detected	
	Layer: Layer 2	Description: coating, white with fibrous backing	Analysis: No Asbestos Detected	

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
23544.000-0025	Cement Asbestos Board Layer: Layer 1	Band practice room; cement asbestos board, ceiling tiles Description: fibrous cement, gray with paint, white	Analysis: 15% Chrysotile	Lab Cor
23544.000-0026	Glued-on Ceiling Tiles Layer: Layer 1	Band practice room; glued-on ceiling tile Description: compressed fibers, gray with paint white	Analysis: No Asbestos Detected	Lab Cor
23544.000-0027	Mastic Layer: Layer 1 Layer 2	Band practice room; brown mastic Description: compressed fibers with powder, gray mastic, brown	Analysis: No Asbestos Detected No Asbestos Detected	Lab Cor
23544.000-0028	Vinyl Floor Tile/Mastic Layer: Layer 1 Layer 2 Layer 3	Music room; 12" white vinyl floor tile, black mastic Description: mastic, orange/black vinyl tile, off-white mastic, black	Analysis: No Asbestos Detected <1% Chrysotile No Asbestos Detected	Lab Cor
23544.000-0029	Lay-in Ceiling Tile (2) Layer: Layer 1	Music room office; pin perf lay-in ceiling tile Description: compressed fibers, gray with paint, white	Analysis: No Asbestos Detected	Lab Cor
23544.000-0030	Mastic Layer: Layer 1	Music room office; carpet mastic Description: putty, black with powder	Analysis: <1% Chrysotile	Lab Cor
23544.000-0031	Caulk Layer: Layer 1	Above music room office; HVAC caulk/sealant Description: putty, gray	Analysis: No Asbestos Detected	Lab Cor
23544.000-0032	Material Debris Layer: Layer 1	Attic above band office; roofing debris Description: loose fibrous particulate, gray/black	Analysis: No Asbestos Detected	Lab Cor
23544.000-0033	Mastic Layer: Layer 1	Band practice room; carpet mastic Description: hard compact powder, off-white with mastic, black/orange	Analysis: 4% Chrysotile	Lab Cor

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
23544.000-0034	Gypsum Wallboard/Joint Compound	Music (choir) room; gypsum wallboard, joint compound		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	paint, white with fine compact powder, white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23544.000-0035	Sink Undercoating	Band room closet; pink sink undercoating		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	powdery putty, purple	10% Chrysotile	
23544.000-0036	Cement Asbestos Board	Band room; by door, cement asbestos board		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	particulate, gray with mastic, black	15% Chrysotile	
23544.000-0037	Mastic/Leveling Compound	Main commons area; yellow mastic, leveling compound		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	hard compact powder, off-white with mastic, orange	No Asbestos Detected	
23544.000-0038	Vinyl Floor Tile/Mastic	Main office area; south office, red vinyl asbestos tile, black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	mastic, orange	No Asbestos Detected	
	Layer 2	vinyl tile, red	7% Chrysotile	
	Layer 3	mastic, black	3% Chrysotile	
23544.000-0039	Lay-in Ceiling Tile	Main office area; lay-in ceiling tiles		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibers, gray with paint, white	No Asbestos Detected	
23544.000-0040	Sheet Floor Covering	Office workroom; yellow sheet flooring		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	vinyl sheet, tan	No Asbestos Detected	
	Layer 2	fibrous backing, gray	40% Chrysotile	
23544.000-0041	Vinyl Floor Tile/Mastic (4)	Office workroom; 12" white vinyl floor tile, black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	vinyl tile, off-white	<1% Chrysotile	
	Layer 2	mastic, brown	No Asbestos Detected	
	Layer 3	mastic, black	3% Chrysotile	

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>	
23544.000-0042	Leveling Compound	Main office; northeast office, leveling compound		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	hard compact powder, off-white		No Asbestos Detected
	Layer 2	mastic, orange	No Asbestos Detected		
23544.000-0043	Covebase/Mastic	Office workroom; 4" black covebase, brown mastic		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	rubbery material, brown		No Asbestos Detected
	Layer 2	mastic, brown	No Asbestos Detected		
23544.000-0044	Sink Undercoating	Office workroom; black sink undercoating		Lab Cor	
		Layer:	Description:		Analysis:
	Layer 1	loose mastic, black	2% Chrysotile		
23544.000-0045	Gypsum Wallboard/Joint Compound	Main office area; gypsum wallboard, joint compound		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	paint, off-white		No Asbestos Detected
	Layer 2	compact chalky material with paper, white	No Asbestos Detected		
23544.000-0046	Vinyl Floor Tile/Mastic (3)	Water heater closet; 9" red vinyl floor tile, black mastic		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	vinyl tile, dark red		10% Chrysotile
	Layer 2	mastic, black	2% Chrysotile		
23544.000-0047	Vinyl Floor Tile/Mastic	Science lab, white vinyl floor tile, black mastic		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	vinyl tile, off-white		<1% Chrysotile
	Layer 2	mastic, black	3% Chrysotile		
23544.000-0048	Sink Undercoating	Northwest classrooms; north closet, black sink undercoating		Lab Cor	
		Layer:	Description:		Analysis:
	Layer 1	loose mastic, black	2% Chrysotile		
23544.000-0049	Cement Asbestos Board	Northwest classrooms; science room, black cement asbestos board counter tops		Lab Cor	
		Layer:	Description:		Analysis:
	Layer 1	fibrous cement, dark gray	15% Chrysotile, 8% Amosite		

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
23544.000-0050	Cement Asbestos Board	Northwest classrooms; science room, black cement asbestos board counter tops		Lab Cor
	Layer: Layer 1	Description: fibrous cement particulate, dark gray	Analysis: 15% Chrysotile, 8% Amosite	
23544.000-0051	Lay-in Ceiling Tile (1)	Classroom 12; lay-in ceiling tile		Lab Cor
	Layer: Layer 1	Description: compressed fibers, gray with paint, white	Analysis: No Asbestos Detected	
23544.000-0052	Material Debris	West hallway corridor; above ceiling tile, black roofing debris		Lab Cor
	Layer: Layer 1	Description: fibrous mastic, black	Analysis: No Asbestos Detected	
23544.000-0053	Gypsum Wallboard/Joint Compound	Room 13; gypsum wallboard, joint compound		Lab Cor
	Layer: Layer 1	Description: hard compact powder, off-white with paint, white	Analysis: No Asbestos Detected	
23544.000-0054	Gypsum Wallboard/Joint Compound	Northwest classroom corridor; gypsum wallboard, joint compound		Lab Cor
	Layer: Layer 1	Description: hard compact powder, off-white with paint, white	Analysis: No Asbestos Detected	
23544.000-0055	Gypsum Wallboard/Joint Compound	Lab room storage; gypsum wallboard, joint compound		Lab Cor
	Layer: Layer 1	Description: paint, white with fine compact powder, off-white	Analysis: No Asbestos Detected	
	Layer: Layer 2	Description: compact chalky material with paper, white	Analysis: No Asbestos Detected	
23544.000-0056	Material Debris	Southwest classroom; corridor, black roofing debris		Lab Cor
	Layer: Layer 1	Description: mastic, black	Analysis: No Asbestos Detected	
23544.000-0057	Lay-in Ceiling Tile (2)	Classroom 4		Lab Cor
	Layer: Layer 1	Description: compressed fibers, gray with paint, white	Analysis: No Asbestos Detected	

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
23544.000-0058	Lay-in Ceiling Tile	Classroom 7		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibers, gray with paint, white	No Asbestos Detected	
23544.000-0059	Material Debris	Main hallway corridor; lay-in ceiling tile debris		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibers, gray with paint, white	No Asbestos Detected	
23544.000-0060	Material Debris	Main hallway; corridor, black roofing debris		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	tar, black	No Asbestos Detected	
23544.000-0061	Building Paper	Locker room area; black vapor barrier building paper		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	paper backing with paint, white	No Asbestos Detected	
23544.000-0062	Vinyl Floor Tile/Mastic	Room 24; 12" white vinyl floor tile, black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	vinyl tile, off-white	<1% Chrysotile	
	Layer 2	mastic, black	3% Chrysotile	
23544.000-0063	Covebase/Mastic	Room 24; 4" black covebase, brown mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, brown	No Asbestos Detected	
	Layer 2	mastic, brown	No Asbestos Detected	
	Layer 3	fibrous particulate, gray	No Asbestos Detected	
23544.000-0064	Lay-in Ceiling Tile (2)	Room 9; lay-in ceiling tile		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibers, gray with paint, white	No Asbestos Detected	
23544.000-0065	Material Debris	Room 2; above ceiling, black roofing debris		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	loose granular particulate, gray with mastic, brown	No Asbestos Detected	
23544.000-0066	Gypsum Wallboard/Joint Compound	Room 2; gypsum wallboard, joint compound		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	paint, white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
23544.000-0067	Gypsum Wallboard/Joint Compound	Room 9; gypsum wallboard, joint compound		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	paint, white with fine compact powder	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23544.000-0068	Cement Asbestos Board	Outside Room 2; west side of school, cement asbestos board		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	fibrous cement, gray	15% Chrysotile	
23544.000-0069	Cement Asbestos Board	Outside Room 2; west side of school, cement asbestos board		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	fibrous cement, gray	15% Chrysotile	
23544.000-0070	Paint	Building exterior; exterior masonry paint		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	paint, beige with powder, off-white	No Asbestos Detected	
23544.000-0071	Paint	Building exterior; exterior masonry paint		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	paint, beige with powder, off-white	No Asbestos Detected	
23544.000-0072	Paint	Building interior; interior masonry paint		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	paint, beige with powder, off-white	No Asbestos Detected	
23544.000-0073	Cement Asbestos Board	Building exterior; cement asbestos board		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	fibrous cement, gray	15% Chrysotile	
23544.000-0074	Paint	Building exterior; exterior masonry paint		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	paint, beige with powder, off-white	No Asbestos Detected	

LEAD SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Analysis</u>	<u>Location</u>	<u>Lab</u>
PAINT				
LB23544.000-1001	Paint	269 ppm	Weight room; wall, concrete masonry unit (CMU), light green, intact condition	R.J. Lee Group
LB23544.000-1002	Paint	100 ppm	Music room; wall, gypsum, white, intact condition	R.J. Lee Group
LB23544.000-1003	Paint	3,290 ppm	Room #13; wall, gypsum, white, intact condition	R.J. Lee Group
LB23544.000-1004	Paint	<98.1 ppm	Gym; wall, plaster, white, intact condition	R.J. Lee Group
LB23544.000-1005	Paint	704 ppm	Locker room; wall, CMU, white, intact condition	R.J. Lee Group
LB23544.000-1006	Paint	<97.2 ppm	Shed exterior; siding, wood, gray, peeling condition	R.J. Lee Group
LB23544.000-1007	Paint	<93.0 ppm	Exterior wall; CMU, white, intact condition	R.J. Lee Group
LB23544.000-1008	Paint	2,510 ppm	Exterior gym wall; siding, wood, black, fair condition	R.J. Lee Group

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

Report Number: 141890R01
Report Date: 07/31/2014

Job Number: 141890

P.O. No: n/a

Project Name:

Project Number: 23544.000 Phase 0004

Project Notes:

Client Sample ID: 23544.000-0001	Sample ID: S1	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	Percent Asbestos:
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		
Homogeneous compressed fibers, gray with paint, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 25 % 50 % - - -		25 %

Client Sample ID: 23544.000-0002	Sample ID: S2	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	Percent Asbestos:
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		
Homogeneous mastic, brown	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -		100 %

Client Sample ID: 23544.000-0003	Sample ID: S3	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	Percent Asbestos:
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		
Homogeneous compressed fibers, gray with paint, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 25 % 50 % - - -		25 %

Client Sample ID: 23544.000-0004	Sample ID: S4	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	Percent Asbestos:
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		
Homogeneous mastic, brown	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -		100 %

Job Number: 141890

Report Number: 141890R01

Report Date: 07/31/2014

Client Sample ID: 23544.000-0005	Sample ID: S5	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
particulate with paint, green/off-white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -		100 %

Client Sample ID: 23544.000-0006	Sample ID: S6	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
paint, green with 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	- - - - -		100 %
Layer 02	- 2 % - - -		98 %

Client Sample ID: 23544.000-0007	Sample ID: S7	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
loose mastic, orange	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 2 % - - -		98 %

Client Sample ID: 23544.000-0008	Sample ID: S8	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
vinyl tile, off-white	90 % - - -		NAD
Layer 02			
mastic, orange	10 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- - - - -		100 %
Layer 02	- - - - -		100 %

Job Number: 141890

Report Number: 141890R01

Report Date: 07/31/2014

Client Sample ID: 23544.000-009	Sample ID: S9	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
compressed fibers, gray with paint, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 25 % 50 % - - -		25 %

Client Sample ID: 23544.000-0010	Sample ID: S10	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
loose mastic, black	100 % Trace - -		< 1 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -		100 %

Client Sample ID: 23544.000-0011	Sample ID: S11	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
loose mastic, black	100 % Trace - -		< 1 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -		100 %

Client Sample ID: 23544.000-0012	Sample ID: S12	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
tar, black	85 % - - -		NAD
Layer 02			
compressed fibers with powder, gray	15 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- - - - -		100 %
Layer 02	- 25 % 50 % - - -		15 %
			Perlite 10 %

Job Number: 141890

Report Number: 141890R01

Report Date: 07/31/2014

Client Sample ID: 23544.000-0013		Sample ID: S13			Date Analyzed: 07/30/2014		Percent Asbestos:
Client Sample Description:					Analyst: Ryan Brown		
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite		
Layer 01							
rubbery material, brown		80 %	-	-	-	NAD	
Layer 02							
mastic, brown		20 %	-	-	-	NAD	
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01		-	-	-	-	-	100 %
Layer 02		-	Trace	-	-	-	100 %

Client Sample ID: 23544.000-0014		Sample ID: S14			Date Analyzed: 07/30/2014		Percent Asbestos:
Client Sample Description:					Analyst: Ryan Brown		
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite		
Homogeneous							
compressed fibers, gray with paint, white		100 %	-	-	-	NAD	
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01		-	25 %	50 %	-	-	25 %

Client Sample ID: 23544.000-0015		Sample ID: S15			Date Analyzed: 07/30/2014		Percent Asbestos:
Client Sample Description:					Analyst: Ryan Brown		
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite		
Layer 01							
vinyl tile, off-white/gray		90 %	Trace	-	-	< 1 %	
Layer 02							
mastic, black		10 %	3 %	-	-	3 %	
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01		-	-	-	-	-	100 %
Layer 02		-	-	-	-	-	97 %

Client Sample ID: 23544.000-0016		Sample ID: S16			Date Analyzed: 07/30/2014		Percent Asbestos:
Client Sample Description:					Analyst: Ryan Brown		
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite		
Layer 01							
vinyl sheet, tan		50 %	-	-	-	NAD	
Layer 02							
fibrous backing, gray		50 %	40 %	-	-	40 %	
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01		-	-	-	-	-	100 %
Layer 02		-	60 %	-	-	-	0 %

Job Number: 141890

Report Number: 141890R01

Report Date: 07/31/2014

Client Sample ID: 23544.000-0017 **Sample ID:** S17 **Date Analyzed:** 07/30/2014
Client Sample Description: **Analyst:** Ryan Brown
Asbestos Mineral Fibers Layer Percent: Chrysotile Amosite Crocidolite **Percent Asbestos:**
Homogeneous
fine compact powder, off-white with paper backing 100 % Trace - - < 1 %
Other Fibers Fibrous Mineral **Matrix**
Glass Cellulose Wool Synthetic Other 96 %
- 4 % - - - -

Client Sample ID: 23544.000-0018 **Sample ID:** S18 **Date Analyzed:** 07/30/2014
Client Sample Description: **Analyst:** Ryan Brown
Asbestos Mineral Fibers Layer Percent: Chrysotile Amosite Crocidolite **Percent Asbestos:**
Homogeneous
powdery putty, purple 100 % 3 % - - 3 %
Other Fibers Fibrous Mineral **Matrix**
Glass Cellulose Wool Synthetic Other 97 %
- - - - - -

Client Sample ID: 23544.000-0019 **Sample ID:** S19 **Date Analyzed:** 07/30/2014
Client Sample Description: **Analyst:** Ryan Brown
Asbestos Mineral Fibers Layer Percent: Chrysotile Amosite Crocidolite **Percent Asbestos:**
Homogeneous
mastic, orange with fibers 100 % - - - NAD
Other Fibers Fibrous Mineral **Matrix**
Glass Cellulose Wool Synthetic Other 96 %
- 2 % - 2 % - -

Client Sample ID: 23544.000-0020 **Sample ID:** S20 **Date Analyzed:** 07/30/2014
Client Sample Description: **Analyst:** Ryan Brown
Asbestos Mineral Fibers Layer Percent: Chrysotile Amosite Crocidolite **Percent Asbestos:**
Homogeneous
compressed fibers, gray with paint, white 100 % - - - NAD
Other Fibers Fibrous Mineral **Matrix**
Glass Cellulose Wool Synthetic Other 25 %
- 25 % 50 % - - -

Job Number: 141890

Report Number: 141890R01

Report Date: 07/31/2014

Client Sample ID: 23544.000-0021	Sample ID: S21	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
paint, white with fine compact powder, white	10 % Trace - -		< 1 %
Layer 02			
compact chalky material with paper, white	90 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- - - - -	-	100 %
Layer 02	- 2 % - - -	-	98 %

Client Sample ID: 23544.000-0022	Sample ID: S22	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
compressed fibers, gray with paint, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 25 % 50 % - -	-	25 %

Client Sample ID: 23544.000-0023	Sample ID: S23	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
vinyl sheet, tan	50 % - - -		NAD
Layer 02			
fibrous backing, gray	50 % 40 % - -		40 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- - - - -	-	100 %
Layer 02	- 60 % - - -	-	0 %

Client Sample ID: 23544.000-0024	Sample ID: S24	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
rubbery material, brown	75 % - - -		NAD
Layer 02			
coating, white with fibrous backing	25 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- - - - -	-	100 %
Layer 02	- - - - -	-	100 %

Job Number: 141890

Report Number: 141890R01

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Client Sample ID: 23544.000-0025	Sample ID: S25	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
fibrous cement, gray with paint, white	100 % 15 % - -		15 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 85 %
-	- - - - -	-	

Client Sample ID: 23544.000-0026	Sample ID: S26	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
compressed fibers, gray with paint white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 25 %
-	25 % 50 % - - -	-	

Client Sample ID: 23544.000-0027	Sample ID: S27	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
compressed fibers with powder, gray	35 % - - -		NAD
Layer 02			
mastic, brown	65 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 25 %
Layer 01	- 25 % 50 % - - -	-	25 %
Layer 02	- Trace - - -	-	100 %

Client Sample ID: 23544.000-0028	Sample ID: S28	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
mastic, orange/black	15 % - - -		NAD
Layer 02			
vinyl tile, off-white	75 % Trace - -		< 1 %
Layer 03			
mastic, black	10 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 100 %
Layer 01	- - - - -	-	100 %
Layer 02	- - - - -	-	100 %
Layer 03	- - - - -	-	100 %



Job Number: 141890

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Client Sample ID: 23544.000-0029	Sample ID: S29				Date Analyzed: 07/30/2014	Percent Asbestos:
Client Sample Description:						
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		
Homogeneous						
compressed fibers, gray with paint, white	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	25 %	50 %	-	-	25 %

Client Sample ID: 23544.000-0030	Sample ID: S30				Date Analyzed: 07/30/2014	Percent Asbestos:
Client Sample Description:						
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		
Homogeneous						
putty, black with powder	100 %	Trace	-	-		< 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: 23544.000-0031	Sample ID: S31				Date Analyzed: 07/30/2014	Percent Asbestos:
Client Sample Description:						
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		
Homogeneous						
putty, gray	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: 23544.000-0032	Sample ID: S32				Date Analyzed: 07/30/2014	Percent Asbestos:
Client Sample Description:						
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		
Homogeneous						
loose fibrous particulate, gray/black	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	8 %	25 %	-	-	-	67 %

Client Sample ID: 23544.000-0033	Sample ID: S33				Date Analyzed: 07/30/2014	Percent Asbestos:
Client Sample Description:						
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		
Homogeneous						
hard compact powder, off-white with mastic, black/orange	100 %	4 %	-	-		4 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	96 %

Comments: Unable to separate the mastic from the powder for separate analysis.



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Report Number: 141890R01

Report Date: 07/31/2014

Client Sample ID: 23544.000-0034	Sample ID: S34	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
paint, white with fine compact powder, 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	- - - - -	-	100 %
Layer 02	- 2 % - - -	-	98 %

Client Sample ID: 23544.000-0035	Sample ID: S35	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
powdery putty, purple	100 % 10 % - -		10 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -	-	90 %

Client Sample ID: 23544.000-0036	Sample ID: S36	Date Analyzed: 07/30/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
particulate, gray with mastic, black	100 % 15 % - -		15 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -	-	85 %

Comments: Majority of sample was used because very little was submitted was for analysis.

Client Sample ID: 23544.000-0037	Sample ID: S37	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
hard compact powder, off-white with mastic, orange	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -	-	100 %

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Report Date: 07/31/2014

Client Sample ID: 23544.000-0038

Sample ID: S38

Date Analyzed: 07/31/2014

Client Sample Description:

Analyst: Ryan Brown

<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
mastic, orange	15 %	-	-	-	NAD	
Layer 02						
vinyl tile, red	70 %	7 %	-	-	7 %	
Layer 03						
mastic, black	15 %	3 %	-	-	3 %	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	93 %
Layer 03	-	-	-	-	-	97 %

Client Sample ID: 23544.000-0039

Sample ID: S39

Date Analyzed: 07/31/2014

Client Sample Description:

Analyst: Ryan Brown

<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
compressed fibers, gray with paint, white	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	25 %	50 %	-	-	25 %

Client Sample ID: 23544.000-0040

Sample ID: S40

Date Analyzed: 07/31/2014

Client Sample Description:

Analyst: Ryan Brown

<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
vinyl sheet, tan	50 %	-	-	-	NAD	
Layer 02						
fibrous backing, gray	50 %	40 %	-	-	40 %	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	60 %	-	-	-	0 %

Job Number: 141890

Report Number: 141890R01

Report Date: 07/31/2014

Client Sample ID: 23544.000-0041		Sample ID: S41			Date Analyzed: 07/31/2014	
Client Sample Description:					Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
vinyl tile, off-white	80 %	Trace	-	-	< 1 %	
Layer 02						
mastic, brown	10 %	-	-	-	NAD	
Layer 03						
mastic, black	10 %	3 %	-	-	3 %	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	97 %

Client Sample ID: 23544.000-0042		Sample ID: S42			Date Analyzed: 07/31/2014	
Client Sample Description:					Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
hard compact powder, off-white	85 %	-	-	-	NAD	
Layer 02						
mastic, orange	15 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 23544.000-0043		Sample ID: S43			Date Analyzed: 07/31/2014	
Client Sample Description:					Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
rubbery material, brown	92 %	-	-	-	NAD	
Layer 02						
mastic, brown	8 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	Talc Trace	100 %

Client Sample ID: 23544.000-0044		Sample ID: S44			Date Analyzed: 07/31/2014	
Client Sample Description:					Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
loose mastic, black	100 %	2 %	-	-	2 %	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	98 %

Job Number: 141890

Report Number: 141890R01

Report Date: 07/31/2014

Client Sample ID: 23544.000-0045	Sample ID: S45	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01 paint, off-white	8 % - - -		NAD
Layer 02 compact chalky material with paper, white	92 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- - - - -	-	100 %
Layer 02	- 2 % - - -	-	98 %

Client Sample ID: 23544.000-0046	Sample ID: S46	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01 vinyl tile, dark red	92 % 10 % - -		10 %
Layer 02 mastic, black	8 % 2 % - -		2 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- - - - -	-	90 %
Layer 02	- - - - -	-	98 %

Client Sample ID: 23544.000-0047	Sample ID: S47	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01 vinyl tile, off-white	90 % Trace - -		< 1 %
Layer 02 mastic, black	10 % 3 % - -		3 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- - - - -	-	100 %
Layer 02	- - - - -	-	97 %

Client Sample ID: 23544.000-0048	Sample ID: S48	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous loose mastic, black	100 % 2 % - -		2 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -	-	98 %

Job Number: 141890

Report Number: 141890R01

Report Date: 07/31/2014

Client Sample ID: 23544.000-0049	Sample ID: S49	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
fibrous cement, dark gray	100 % 15 % 8 % -		23 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 77 %
-	- - - - -	-	

Client Sample ID: 23544.000-0050	Sample ID: S50	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
fibrous cement particulate, dark gray	100 % 15 % 8 % -		23 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 77 %
-	- - - - -	-	

Client Sample ID: 23544.000-0051	Sample ID: S51	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
compressed fibers, gray with paint, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 25 %
-	- 25 % 50 % - - -	-	

Client Sample ID: 23544.000-0052	Sample ID: S52	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
fibrous mastic, black	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 98 %
-	- 2 % - - -	-	

Client Sample ID: 23544.000-0053	Sample ID: S53	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
hard compact powder, off-white with paint, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 100 %
-	- - - - -	-	

Job Number: 141890

Report Number: 141890R01

Report Date: 07/31/2014

Client Sample ID: 23544.000-0054	Sample ID: S54	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
hard compact powder, off-white with paint, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 100 %
	- - - - -		

Client Sample ID: 23544.000-0055	Sample ID: S55	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
paint, white with fine compact powder, off- white	15 % - - -		NAD
Layer 02			
compact chalky material with paper, white	85 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- 2 % - - -	- - -	98 %
Layer 02	- 2 % - - -	- - -	98 %

Client Sample ID: 23544.000-0056	Sample ID: S56	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
mastic, black	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	2 % 2 % - - -	- - -	96 %

Client Sample ID: 23544.000-0057	Sample ID: S57	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
compressed fibers, gray with paint, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 25 % 50 % - - -	- - -	25 %

Job Number: 141890

Report Number: 141890R01

Report Date: 07/31/2014

Client Sample ID: 23544.000-0058	Sample ID: S58	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
compressed fibers, gray with paint, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 25 % 50 % - - -		25 %

Client Sample ID: 23544.000-0059	Sample ID: S59	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
compressed fibers, gray with paint, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 25 % 50 % - - -		25 %

Client Sample ID: 23544.000-0060	Sample ID: S60	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
tar, black	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	Trace Trace - - -		-

Client Sample ID: 23544.000-0061	Sample ID: S61	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
paper backing with paint, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 75 % - - -		25 %

Client Sample ID: 23544.000-0062	Sample ID: S62	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
vinyl tile, off-white	90 % Trace - -		< 1 %
Layer 02			
mastic, black	10 % 3 % - -		3 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- - - - -		100 %
Layer 02	- - - - -		97 %

Job Number: 141890

Report Number: 141890R01

Report Date: 07/31/2014

Client Sample ID: 23544.000-0063		Sample ID: S63			Date Analyzed: 07/31/2014	
Client Sample Description:					Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
rubbery material, brown	85 %	-	-	-	NAD	
Layer 02						
mastic, brown	5 %	-	-	-	NAD	
Layer 03						
fibrous particulate, gray	10 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	Talc Trace	100 %
Layer 03	-	50 %	-	-	-	50 %

Client Sample ID: 23544.000-0064		Sample ID: S64			Date Analyzed: 07/31/2014	
Client Sample Description:					Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
compressed fibers, gray with paint, white	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	25 %	50 %	-	-	25 %

Client Sample ID: 23544.000-0065		Sample ID: S65			Date Analyzed: 07/31/2014	
Client Sample Description:					Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
loose granular particulate, gray with mastic, brown	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	5 %	5 %	-	-	-	90 %

Client Sample ID: 23544.000-0066		Sample ID: S66			Date Analyzed: 07/31/2014	
Client Sample Description:					Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
paint, white	25 %	-	-	-	NAD	
Layer 02						
compact chalky material with paper, white	75 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	98 %

Job Number: 141890

Report Number: 141890R01

Report Date: 07/31/2014

Client Sample ID: 23544.000-0067	Sample ID: S67	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
paint, white with fine compact powder	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 % - - -	-	98 %

Client Sample ID: 23544.000-0068	Sample ID: S68	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
fibrous cement, gray	100 % 15 % - -		15 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -	-	85 %

Client Sample ID: 23544.000-0069	Sample ID: S69	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
fibrous cement, gray	100 % 15 % - -		15 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -	-	85 %

Client Sample ID: 23544.000-0070	Sample ID: S70	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
paint, beige with powder, off-white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -	-	100 %

Client Sample ID: 23544.000-0071	Sample ID: S71	Date Analyzed: 07/31/2014	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
paint, beige with powder, off-white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -	-	100 %



Asbestos and Environmental Analysis

Job Number: 141890

Report Number: 141890R01

Report Date: 07/31/2014

Client Sample ID: 23544.000-0072

Sample ID: S72

Date Analyzed: 07/31/2014

Client Sample Description:

Analyst: Ryan Brown

<u>Asbestos Mineral Fibers</u>					Percent Asbestos:
Layer	Percent:	Chrysotile	Amosite	Crocidolite	
Homogeneous					
paint, beige with powder, off-white	100 %	-	-	-	NAD
<u>Other Fibers</u>					Matrix
Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	
-	-	-	-	-	100 %

Client Sample ID: 23544.000-0073

Sample ID: S73

Date Analyzed: 07/31/2014

Client Sample Description:

Analyst: Ryan Brown

<u>Asbestos Mineral Fibers</u>					Percent Asbestos:
Layer	Percent:	Chrysotile	Amosite	Crocidolite	
Homogeneous					
fibrous cement, gray	100 %	15 %	-	-	15 %
<u>Other Fibers</u>					Matrix
Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	
-	-	-	-	-	85 %

Client Sample ID: 23544.000-0074

Sample ID: S74

Date Analyzed: 07/31/2014

Client Sample Description:


Analyst: Ryan Brown

<u>Asbestos Mineral Fibers</u>					Percent Asbestos:
Layer	Percent:	Chrysotile	Amosite	Crocidolite	
Homogeneous					
paint, beige with powder, off-white	100 %	-	-	-	NAD
<u>Other Fibers</u>					Matrix
Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	
-	-	-	-	-	100 %

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous."Misc" is miscellaneous. "NAD" is No Asbestos Detected. Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite. Small diameter fibers such as those found in vinyl floor tiles, may not be detected by PLM. Asbestos detection interferences may result from material binders. Qualitative and quantitative TEM analysis may be recommended for difficult samples. Quantitative analysis by PLM point count or TEM is 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:

Digital Signature for Lab Use Only

Ryan M. Brown
Analyst





TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 23544.000 Phase 0004

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: July 24, 2014

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Harmony Kelly
Name
H. Kelly 7/24/14
Authorized Signature Date

RECEIVER

Date Received: 7/24/14 1:20 pm

Company: Lab Cor
Address: 4321 SW Corbett Ave Ste A
Portland, OR 97239
503-224-5055

H. Paulina Pro
Name
[Signature] 7/24/14
Authorized Signature Date

Sender's ID No.	Brief Description	Receiver's ID No.
23544.000-0001		
23544.000-0002		
23544.000-0003		
23544.000-0004		
23544.000-0005		
23544.000-0006		
23544.000-0007		
23544.000-0008		
23544.000-0009		
23544.000-0010		
23544.000-0011		
23544.000-0012		
23544.000-0013		
23544.000-0014		



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23544.000-0015		
23544.000-0016		
23544.000-0017		
23544.000-0018		
23544.000-0019		
23544.000-0020		
23544.000-0021		
23544.000-0022		
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23544.000-0024		
23544.000-0025		
23544.000-0026		
23544.000-0027		
23544.000-0028		
23544.000-0029		
23544.000-0030		
23544.000-0031		
23544.000-0032		
23544.000-0033		
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23544.000-0035		
23544.000-0036		
23544.000-0037		
23544.000-0038		
23544.000-0039		



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23544.000-0040		
23544.000-0041		
23544.000-0042		
23544.000-0043		
23544.000-0044		
23544.000-0045		
23544.000-0046		
23544.000-0047		
23544.000-0048		
23544.000-0049		
23544.000-0050		
23544.000-0051		
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23544.000-0055		
23544.000-0056		
23544.000-0057		
23544.000-0058		
23544.000-0059		
23544.000-0060		
23544.000-0061		
23544.000-0062		
23544.000-0063		
23544.000-0064		



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23544.000-0065		
23544.000-0066		
23544.000-0067		
23544.000-0068		
23544.000-0069		
23544.000-0070		
23544.000-0071		
23544.000-0072		
23544.000-0073		
23544.000-0074		

Please analyze the enclosed 74 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.

Request verbal results by: _____ AM/PM _____ Date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED: 72 Hour

SPECIAL INSTRUCTIONS:

RD/NC

LABORATORY REPORT

 PBS Environmental - Portland, OR
 4412 Southwest Corbett Ave.
 Portland, OR 97239

 RJ Lee Group Job No.: PA250720140011
 Samples Received: July 25, 2014
 Report Date: July 29, 2014
 Client Project: 23544.000 Phase 0004
 Purchase Order No.: N/A
 Matrix: Solid
 Prep/Analysis: EPA 3050B / EPA 7420

 Attn: Harmony Kilby
 Phone: 503-248-1939
 Fax: 866-727-0140
 Email: harmony.kilby@pbsenv.com

Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Sample Concentration		Minimum Reporting Limit		Analysis Date	Q
				Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg		
LB23544.000-1001	PA250720140011-001	NP	Lead	0.0269	269	0.00956	95.6	07/29/2014	—
LB23544.000-1002	PA250720140011-002	NP	Lead	0.0100	100	0.00982	98.2	07/29/2014	—
LB23544.000-1003	PA250720140011-003	NP	Lead	0.329	3290	0.00963	96.3	07/29/2014	—
LB23544.000-1004	PA250720140011-004	NP	Lead	< 0.00981	< 98.1	0.00981	98.1	07/29/2014	—
LB23544.000-1005	PA250720140011-005	NP	Lead	0.0704	704	0.00964	96.4	07/29/2014	—
LB23544.000-1006	PA250720140011-006	NP	Lead	< 0.00972	< 97.2	0.00972	97.2	07/29/2014	—
LB23544.000-1007	PA250720140011-007	NP	Lead	< 0.00930	< 93.0	0.00930	93.0	07/29/2014	—
LB23544.000-1008	PA250720140011-008	NP	Lead	0.251	2510	0.00973	97.3	07/29/2014	—

Comments:
Report Qualifiers (Q):

P : PA-DEP Accredited (PA DEP Lab ID 02-00396, NELAP)

N : NY ELAP Accredited (NY ELAP Lab Code 10884)

C : CA ELAP Accredited (CA ELAP Certificate 1970)

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

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

 This laboratory operates in accord with ISO 17025:2005 guidelines, and holds a limited scope of accreditations under different accrediting agencies; refer to <http://www.rjlg.com/about-us/accreditations/> for more information and current status. This report may not be used to claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or to the sample(s) as received by the laboratory. Any reproduction of this document must be in full for the report to be valid.

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

E = Value above highest calibration standard

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

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

H = Holding times for preparation or analysis exceeded

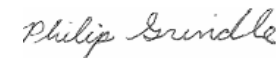
B = Analyte detected in the associated Method Blank

S = Spike Recovery outside accepted limits

R = RPD (relative percent difference) outside accepted limits

D = RL (reporting limit verification) outside accepted limits

NP = Not Provided



 Philip Grindle
 Laboratory Supervisor



14

TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: 23544.000 Phase 0004

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: July 24, 2014

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Harmony Kellogg
Name
H. Kellogg
Authorized Signature
7/24/14
Date

RECEIVER

Date Received: 072514

Company: R.J. Lee Group
Address: 350 Hochberg Road
Monroeville, PA 15146
724-325-1776

JASW Okey 10
Name
Authorized Signature
072514
Date

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No. Rows include LB23544.000-1001 through 1008.

ANALYSIS REQUESTED:

- LEAD: [x] Paint, [] Wipe, [] Soil/Misc., [] Air, [] TCLP

Please analyze the enclosed 8 sample(s) for LEAD content using Atomic Absorption Method. PBS requests prior notification if samples will be disposed.

Please fax and mail the results to the above address.

TURNAROUND DESIRED:

72 Hour

SPECIAL INSTRUCTIONS:

RD/NC

THIS IS TO CERTIFY THAT

RICH A. DUFRESNE

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR REFRESHER

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

Course Date: 04/09/2014

Course Location: Portland, OR

Certificate: IR-14-0264A



**Engineering +
Environmental**

Expiration Date 04/09/2015

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

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



David Stover, Director of Training

THIS IS TO CERTIFY THAT

DEREK MAY

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR REFRESHER

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

Course Date: 04/09/2014

Course Location: Portland, OR

Certificate: IR-14-0009A



**Engineering +
Environmental**

Expiration Date 04/09/2015

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

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

A handwritten signature in black ink that reads "David Stover".

David Stover, Director of Training