Finance Department
1204 NE 201st Avenue
Fairview, OR 97024
503-661-7200

January 9, 2017

RFP– CM/GC Reynolds Middle School Classroom Structural Seismic Upgrades - Addendum #1

From: Robert Collins
Senior Project Manager
DAY CPM Services

REQUEST FOR PROPOSALS

CM/GC for the Reynolds Middle School Classroom Structural Seismic Upgrades

Reynolds School District

The RFP for the above referenced project and the work covered are modified as follows, and except as set forth herein, otherwise remain unchanged and in full effect. This addendum is part of the RFP Solicitation Documents for the above named project and modifies the original RFP Documents dated December 14, 2016. Acknowledgement of receipt of this addendum is required as part of the Proposal.

Item #1 1.6 Mandatory Pre-Proposal Briefing and Site Tour: (Questions & Responses)

- Question: Has a hazardous material investigation been performed?
- **Response: The District had a limited Hazardous Building Materials Survey Report developed by PBS Engineering + Environmental. A copy of this report will be attached to this addendum. No mitigation of the identified ACM has been performed. Only the ACM impacted by the scope of work will be mitigated as part of this project.**
- Question: Are any upgrades to the MEP, Fire Life Safety or Security Systems expected within this project?
- **Response: The funding and scope of work for this project is limited to what is identified in the Structural Seismic Evaluation Report for the Reynolds Middle School Classroom by ZCS Engineering, Inc. provided in Appendix A, Project Description. There will be limited impacts to the MEP systems as a result of the work but upgrades are not included in the scope.**
- Question: Will any ADA upgrades be required by Reynolds or the City of Fairview?
- **Response: Again, the same response as noted above. The Gymnasium Seismic Upgrades completed at the Reynolds Middle School under the same grant program was completed last year with any other requirements from the City of Fairview; we don't expect any on this project given that this is a voluntary seismic upgrade.**

- Question: In the ZCS report dated December 2015 it has a cost estimate of $1,833,900 yet the budget proposed is $1,553,200. Can you clarify the difference and if inflation has been considered?
- **Response: The budget identified in § 1.4 Construction Budget is as stated, "for total construction budget of all work necessary." The Engineer's Opinion of Probable Cost identified in the Structural Seismic Evaluation Report for the Reynolds Middle School Classroom by ZCS Engineering, Inc. includes the associated design/soft costs above the construction budget bring the total budget for the project to $1,833,900, and this is all the funding from the Business Oregon Seismic Rehabilitation Grant available for this project.**
- Question: Will the roof decking be removed prior to installation of plywood sheathing?
- **Response: Roof decking will remain after roof material demo. New plywood will be installed on existing wood decking.**
- Question: Are there roof top units that will impact the roofing package.
- **Response: Yes, there are roof top units and they will remain. The new roofing package must accommodate them.**
- Question: Will there be suspended ceiling impacts as part of the project?
- **Response: Yes, the exact scope of ceiling tile impacts will be dictated by the scope of work, but entire ceiling is not anticipated.**

Item #2 Attachments:

- Mandatory pre-proposal agenda held on January 5, 2017
- Signup Sheet for the Mandatory pre-proposal meeting held on January 5, 2017
- Limited Hazardous Building Materials Survey Report for the Reynolds Middle School RMS 300 & 400 Seismic Renovation dated December 2016

End of Addendum#1

Construction Management/General Contractor Pre-Proposal Meeting Information presented for the Reynold School District – Reynolds Middle School Classroom Structural Seismic Upgrades

January 5, 2017 @ 10:00 a.m.

I. Introduction
   A. Project Description, (CM/GC Services for the Reynolds Middle School Classroom Structural Seismic Upgrades)
   B. Sign-in Sheet must be signed, (This was a mandatory pre-proposal meeting)
   C. Reynolds School District: ~~Rachel Hopper~~, ~~Pierre Dehaze~~
      Day CPM Services: Glenn Schnaidt /Sr. Manager
      ZCS Engineering: Zachary A. Stokes, PE

II. Request for Proposals
   A. Proposal are due 2:00 PM PDST, on January 12, 2017, (1 Original, 7 Copies, & PDF on USB flash drive required)
      Scope of Work – Section 1 of the RFP
      Proposal Process – Section 2 of the RFP
      Proposal Requirements – Section 3 of the RFP
      Proposal Form – Section 4 of the RFP
      Evaluation of Proposals – Section 5 of the RFP

   B. Project overview
      - Reynolds Middle School Classroom Structural Seismic Upgrades (372 pages in all)
      - Present Budget of $1,553,200 for all costs associated with Construction plus contingency
      - Present Draft Schedule for Reynolds Middle School Classroom Structural Seismic Upgrades is provided in Appendix D. (Expectation is to be substantially complete by the start of school in the fall of 2017)

   C. Selection Process
      - § 2.5 Reynolds SD decided due to the complexity of sequencing, budget constraints, and the tight schedule to use CM/GC approach. Findings of Fact were developed, and a Public Hearing conducted resulting in a School Board Resolution.
      - RFP approach is to be used based on the proposed CM/GC qualifications, prior experience, project approach, fees, and other relevant factors.

   D. Schedule for Selection
      - Schedule provides the approximate schedule for the selection & beyond, which, (at this point), we intend to hold to.
      - The Draft Project Master Schedule of Attachment D is subject to change but will be the basis for Phase I & Phase II CM/GC Services

E. Section 2.7 Scope of CM/GC Services to be provided
    1. Phase I – (Pre-construction Services)
        - This Stage is clearly spelled out in § 2.7.1 of the RFP
        - GMP will be developed during Phase I Services, (potential Early Work Amendments, (EWA)

    2. Phase II – (Post GMP Construction Services) §2.7.2 of the RFP
        - Demo /Abatement & Site & Building Packages
        - The bid and buy out
        - Construction

    3. §2.7.3 Special Requirements
        - K. Security Verification "Security & Background Check requirements"

F. Proposal Requirements
- Questions for Addendum no later than End of Day Friday, January 6, 2017
- Final Addendum issuance January 18,2017
- Proposals for CM/GC Services due 2:00 PM January 12, 2018
- Proposal Form – Section 4, (Must be included in Proposals)

G. Required Submissions - §3.2.2
- Management of the Work – 3.2.2.1
    - Items a. through e.
- Proposed Personnel & Organization – 3.2.2.2
    - Items a. through d.
- Cost Management – 3.2.2.3
    - Items a. though e.
- Schedule, Quality Control, and Safety and Community Engagement Program
    - Items a. through e.
- Local Conditions/MWESBE Utilization – 3.2.2.5 (~~Ron White~~)
    - Items a. through c.
- Fees Proposal - §3.2.3
    - Preconstruction Services, Fee is actual cost not-to-exceed basis (We understand that free preconstruction services can have the same or similar value for these services)
    - Fee, as a percentage of GMP, review sample contracts Appendix B & C
    - General Conditions Costs per Exhibit C of Appendix B, Sample CM/GC Contract
- References
    - May be contacted prior to or after Interviews

H. Interview Information
- Notification to finalists on January 18, 2017
- Interview on Tuesday January 24, 2017
- CM/GC, Project Manager & Superintendent to attend at a minimum
- Purpose of Interview – List of Questions for Proposers to address

I. Proposal Evaluation Criteria
- 15 Points - Management of the Work
- 20 Points - Proposed personnel & project organization
- 15 Points - Cost management
- 15 Points - Schedule, quality control & safety plans
- 15 Points - Local knowledge & MWESB utilization & Community Partnership
- 20 Points - Fee Proposal
- 70 Points - Interview

J. Final Selection
- Anticipated notice of Tentative Award January 25, 2017
- Agency Contract Approval of Phase One Services February 9, 2017, or sooner

Design Summary & Update – (Zachary A. Stokes, PE of ZCS Engineers)
- Update & presentation of design information will be issued in Addendum 1

III. Form Contract & General Conditions
- Stage One – Preconstruction Services
- Stage Two – CM/GC Contract refer to Attachment B and C, State of Oregon Public Works Contract & General Conditions
- Negotiations and suggested changes entertained only if general scope remains the same and the field of competition does not change as a result of material changes to the requirement in RFP

IV. Handouts
- Security Background Check Applications
- Others

V. Tours of Project sites
- Schedule of site tour after this mandatory pre-proposal meeting.

DAY CPM services
COMPREHENSIVE PROJECT MANAGEMENT

Reynolds School District

Date | Time 1/5/2017 10:00 AM

CM/GC RMS Seismic 2 Pre-Proposal Meeting

Company Name	Attendee Name	E-Mail	Office Phone	Cell Phone
P&C CONSTRUCTION ~~RICK MACK~~	RICK MCMURRY	rmcmurry@builtbypandc.com Email: chris@p&c		971.352.2463
P&C CONSTRUCTION	DAVE VAN VLECK	DVANVLECK@BUILTBYPANDC.COM	503-666-0165	503-969-8240
P&C	CHRIS ALVREDE	CALVREDE@BUILTBYPANDC.COM		503-351-3817
Fortis Construction	James Johnstone	James.Johnstone@fortisconstruction.com		971-317-1560
KIRBY NAGELHOUT CONSTRUCTION	CHRIS HAMMOND	chrish@kirbynagelhout.com	503.520.8420	503.309.1971
Cedar Mill Construction	Jesse Vail	Jesse@cedarmillcc.com	503.885.9370	503.332.6627
LCG Pence	KIERON SPELLMAN	KIERONS@LCGP.COM		503.754.9650
ZCS Engineering	Zach Stokes	ZachS@ZCSEngineering.com	503.659.2205	

PBS | Engineering + Environmental

Limited Hazardous Building Materials Survey Report

Reynolds Middle School
RMS 300 & 400 Wing Seismic Renovation
1200 NE 201st Avenue
Fairview, OR 97024

Prepared for:

Reynolds School District No. 7

December 2016
Project No.: 23514.026 Phase No.: 0001

4412 SW Corbett Avenue, Portland, OR 97239
503.248.1939 Main
866.727.0140 Fax
888.248.1939 Toll-Free

www.pbsenv.com

GENERAL INFORMATION

BUILDING DATA

Reynolds Middle School
1200 NE 201st Avenue
Fairview, OR 97024

CLIENT DATA

Reynolds School District No. 7
1200 NE 201st Avenue
Fairview, OR 97024

SURVEY SCOPE

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

- The type, location, and approximate quantity of suspect asbestos-containing materials
- Bulk sampling of selected suspect building materials
- Lead paint sampling
- Suspect polychlorinated biphenyl (PCB) light ballast inspection
- Inspection summary
- Laboratory analytical data of bulk material sampled

With regard to asbestos, PBS endeavored to locate all 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.

Rich Dufresne
Project Manager
Accreditation # IMR-16-0264A

12/13/2016
Signature Date

Joel McCarthy
Prime Inspector
Accreditation # IMR-16-2771B

12/13/2016
Signature Date

INSPECTION SUMMARY

DATES	SURVEYED BY	ACTIVITY
11/29/2016	Joel McCarthy	Inspect, Assess and Sample

PBS has investigated accessible areas inside of the building 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 not 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
(+)	Black 9"x9" Vinyl Floor Tile and mastic (11)	Room 406	6 SF
(+)	Brown 9"x9" vinyl floor tile and mastic (6)	Media center storage	400 SF
(+)	Green 9"x9" Vinyl Floor Tile and mastic (5)	Rooms 401, 403, 405, media center storage, and media center work room	4,500 SF
(+)	Mastic under 9"x9" tan vinyl floor tile patch	400 hall vestibule and west end	20 SF
(+)	Pink 9"x9" Vinyl Floor Tile and mastic (1)	400 hall vestibule (west) and adjacent storage room/office, rooms 302, 303, 304, 305, 306, 404, 406, 410, and 414	7,500 SF
(+)	White 12"x12" vinyl floor tile patch and mastic (9)	Room 414 (main office)	20 SF
(+)	Window assembly sealant materials	300 and 400 wings	212 EA
(+)	Lab Counter Top (4)	Rooms 403, 407, and 411	10 SF
(M)	Joint Compound on gypsum wallboard	300 and 400 wings	NOT QUANTIFIED
(P)	Green chalk board	Room 323	32 SF

INSPECTION SUMMARY

MATERIALS THAT TESTED NEGATIVE FOR ASBESTOS

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

Material (type)	Location
Cork wall covering/mastic	Room 404
Marbled white 12"x12" vinyl floor tile and mastic (7)	Rooms 301, 302, 326, and 327
	Through-out or see Floor Plans
	Through-out or see Floor Plans
	Through-out or see Floor Plans
9"x9" tan vinyl floor tile patch (8)	400 hall vestibule, west end
Brick mortar	300 & 400 halls
Carpet mastic	Media Center
Caulk	Bathrooms in 300 & 400 halls
Ceramic Tile Grout	Bathrooms in 300 & 400 halls
Concealed Grid Ceiling Tile of Various Sizes	300 & 400 halls
Gray covebase and mastic	Room 402
Gypsum Wallboard	300 & 400 halls
Lab Counter Top (2)	Room 406
Off-White 12"x12" floor tile and mastic (2)	400 hall, east 300 hall, rooms 405, 407, 408, 410, 412,
Various Covebase/Mastic	300 & 400 halls
Wallpaper	300 & 400 halls
White 12"x12" vinyl floor tile and mastic (3)	rooms 303, 304, 305, 323, 324, 325, 401, 403, 404, 406, 407, 411, 412, 414, 300 hall west
White 12"x12" vinyl floor tile patch and mastic (10)	Rooms 323, 324, 325, 303, 304, 305, 306, 408
Yellow 12"x12" vinyl floor tile and mastic	Room 402

INSPECTION SUMMARY

On November 29, 2016, PBS Engineering and Environmental Inc. (PBS) performed a pre-renovation hazardous materials survey of the 300 and 400 wings at Reynolds Middle School.

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

Only the portions of the facility expected to be impacted by the planned building improvements as identified in the Structural Seismic Evaluation Report generated by ZCS Engineering in December 2015 were included in this investigation. Regulated hazardous building materials are known to exist in other portions of the school that are not included in the scope of this investigation.

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

ASBESTOS SUMMARY
Sixty-three samples of accessible suspect asbestos-containing materials (ACM) were collected and submitted under chain of custody to Lab/Cor, Inc. in Portland, Oregon, for polarized light microscopy (PLM) asbestos analysis. The following materials were found to contain asbestos.

- Asbestos-containing vinyl floor tile and associated mastic is present in rooms 302, 303, 304, 305, 306, 404, 405, 406, and 410. The asbestos-containing floor tile is 9-by-9-inch vinyl floor located throughout the majority of the rooms, with approximately 10-square-foot patches of non-asbestos-containing vinyl floor tile and mastic located along the exterior walls.

  Asbestos-containing vinyl floor tile is also present throughout rooms 401, 403, 414, the media storage room, the media center workroom, the 400-hall west vestibule, as well as the adjacent storage room and office

- Asbestos-containing sealant is present on all of the exterior aluminum window assemblies. The gray and tan sealants were found to contain asbestos. The black glazing material on the glass panels themselves was found to be non asbestos-containing.

  Two-hundred and twelve window assembly units were identified. For the purposes of this survey, a window assembly unit is defined as four panels (two metal, two glass) stacked vertically and bound on both sides by metal furring strips and/or mullions.

- Asbestos-containing laboratory countertops are present in rooms 403, 407, and 411.

- Asbestos is present in the joint compound on gypsum wallboard. The samples yielded mixed results which is common with joint compound material. The joint compound throughout the 300 and 400 wings shall be considered asbestos-containing.

- The green chalkboard located in room 323 is of a type that commonly contains asbestos. the chalkboard was not sampled as sampling would cause damage. The chalkboard should be presumed to contain asbestos.

INSPECTION SUMMARY

Asbestos Regulatory Issues

The State of Oregon Department of Environmental Quality (DEQ) and Environmental Protection Agency (EPA) regulations require proper removal and handling of asbestos-containing materials by licensed and trained asbestos abatement contractors prior to the renovation or demolition of buildings. In addition, the Oregon Occupational Safety and Health Administration (OR-OSHA) has specific requirements when workers may encounter or disturb Asbestos Containing Building Material (ACBM) or when ACBM is removed.

In 1994, OR-OSHA adopted federal regulations governing asbestos, (29 CFR Part 1926, 1101). These regulations have made significant changes in work procedures and how asbestos materials are removed. OSHA believes that the single biggest hazard is to workers who unknowingly or improperly disturb asbestos-containing materials. Hazard communication, training, personal protection, work practices, exposure monitoring, and recordkeeping are all major components of the regulation.

Impact to materials containing less than one percent asbestos should be performed according to OSHA requirements, including 29 CFR 1926.1101. Proper worker training, personal protective equipment, engineering controls, and housekeeping procedures must be utilized as required.

Oregon Administrative Rules-340, Division 248 also covers asbestos abatement requirements, removal notifications, licensing, and certifications for contractors.

Documents of reference for the removal of asbestos-containing materials include:

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

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

INSPECTION SUMMARY

LEAD-BASED PAINT

Six representative bulk samples of suspect paint applications were collected from selected interior and exterior building surfaces. The samples were submitted under chain of custody to R.J. Lee Group in Monroeville, Pennsylvania, for analysis of lead content via flame atomic absorption (FLAA).

One sample, collected from the I-beam/wall in room 406 revealed a lead concentration of 730 parts per million (ppm). All other samples tested below the limit of detection.

For reference, the Environmental Protection Agency (EPA) uses 5,000 ppm as the threshold limit for the definition of lead-based paint. Under OSHA, any concentration of lead in paint that may become airborne during construction work operations triggers requirements in the OSHA Lead in Construction Standard 29 CFR 1926.62 to protect employees impacting the paint. Lead safe work practices should always be employed when impacting paint that contains lead in any concentration.

See the Lead Sample Inventory section of this report for representative building components and corresponding results.

Lead-Based Paint Regulatory Issues

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 OSHA, any concentration of lead in paint that may become airborne during construction work operations triggers requirements in the OSHA Lead in Construction Standard 29 CFR 1926.62 to protect employees impacting the paint.

INSPECTION SUMMARY

PCB

Fluorescent light fixtures that utilize mercury-containing lamps and suspect polychlorinated biphenyl (PCB) containing ballasts exist throughout the 300 and 400 classroom wings.

The inspector disassembled representative fixtures and observed “No PCB” labeling on the ballasts.

Approximately 1,500 mercury-containing fluorescent lamps were observed.

PCB and Mercury Vapor Tubes Regulatory Issues
Light fixtures should be inspected prior to renovation/demolition, if there is visual evidence that the ballast is PCB-containing or suspicion of a PCB leak or spill, a qualified contractor shall handle and dispose of PCB-containing light ballasts and contaminated fixtures in accordance with all applicable federal, state, and local regulations.

Mercury vapor tubes should be carefully handled, packaged, and recycled in appropriate manor.

Please refer to the following documents for requirements for removal and disposal of PCB-containing light ballasts and mercury-containing light tubes.

1. US Environmental Protection Agency Toxic Substance Control Act, TSCA, (Code of Federal Regulations Title 40, Part 761)
2. US Environmental Protection Agency Office of Toxic Substances Guidance Document, *Summary of PCB Regulations*, EPA Document Number 910-S-94-002
3. US Department of Labor, Occupational Safety and Health Administration (OSHA)
4. RCRA, Resource Conservation and Recovery Act, 40 CFR Part 2761, Subpart D., 40 CFR 273
5. Oregon Administrative Rules: Hazardous Waste Regulations, OAR 340-100 through 340-104; Universal Waste Management Regulations, OAR 340-113

Code	Material		Location	Results	Lab
23514.026-0001	Vinyl Floor Tile		400 hall vestibule; west end, 9"X9" vinyl floor tile patch		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	thin hard vinyl, tan	<1% Chrysotile	
		Layer 2	mastic, black	3% Chrysotile	
23514.026-0002	Covebase/Mastic		400 hall vestibule; west end, covebase and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, blue	No Asbestos Detected	
		Layer 2	mastic,yellow	No Asbestos Detected	
		Layer 3	mastic, brown	No Asbestos Detected	
		Layer 4	fine compact powder, off-white	2% Chrysotile	
23514.026-0003	Vinyl Floor Tile		400 hall vestibule; west end, pink 9"X9" vinyl floor tile and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	thin hard vinyl, pink	3% Chrysotile	
		Layer 2	mastic, black	3% Chrysotile	
23514.026-0004	Gypsum Wallboard/Joint Compound		400 hall vestibule; west end, gypsum and joint compound		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	thick woven fibers, off-white with paint, white	No Asbestos Detected	
		Layer 2	fine compact powder, off-white	2% Chrysotile	
		Layer 3	compact chalky material with paper, white	No Asbestos Detected	
23514.026-0005	Caulk		Room 411; window caulk		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	braided fibers, white	No Asbestos Detected	
		Layer 2	soft putty, tan	3% Chrysotile	
23514.026-0006	Countertop		Room 411; science countertop		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	flaky material, dark brown	4% Chrysotile	
23514.026-0007	Vinyl Floor Tile		By hall 411; off-white 12"X12" vinyl floor tile, patch, leveling compound		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, white	No Asbestos Detected	
		Layer 2	mastic, orange	No Asbestos Detected	
		Layer 3	compact powder, off-white	No Asbestos Detected	
		Layer 4	fine cementitious material, gray	No Asbestos Detected	

Code	Material		Location	Results	Lab
23514.026-0008	Vinyl Floor Tile		Romm 411; white 12"X12" vinyl floor tile and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, light blue	No Asbestos Detected	
		Layer 2	mastic, tan	No Asbestos Detected	
23514.026-0009	Vinyl Floor Tile		Room 404; white 12"X12" vinyl floor tile and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	vinyl, white	No Asbestos Detected	
		Layer 2	mastic, black	No Asbestos Detected	
23514.026-0010	Vinyl Floor Tile		Room 404; gray 12"X12" vinyl floor tile		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, light gray	No Asbestos Detected	
		Layer 2	mastic, orange with powder, white	No Asbestos Detected	
23514.026-0011	Covebase/Mastic		Room 404; black covebase and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, black	No Asbestos Detected	
		Layer 2	mastic, yellow	No Asbestos Detected	
		Layer 3	fine powder, white	No Asbestos Detected	
23514.026-0012	Covebase/Mastic		Hall by 404; blue 6" covebase and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, blue	No Asbestos Detected	
		Layer 2	mastic, tan	No Asbestos Detected	
23514.026-0013	Concealed Grid Ceiling Tile		Room 404; 2'X4' ceiling tile		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compresed fibers, brown with paint, white	No Asbestos Detected	
23514.026-0014	Vinyl Floor Tile		Room 406; 12"X12" vinyl floor tile and mastic, white		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, off-white	No Asbestos Detected	
		Layer 2	brittle mastic, orange	No Asbestos Detected	
23514.026-0015	Vinyl Floor Tile		Room 406; 9"X9" vinyl floor tile and mastic, pink		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	thin hard vinyl, pink	4% Chrysotile	
		Layer 2	mastic, black	3% Chrysotile	

Code	Material		Location	Results	Lab
23514.026-0016	Vinyl Floor Tile		Room 406; 9"X9" vinyl floor tile and mastic, black		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, black	2% Chrysotile	
23514.026-0017	Caulk		Room 406; window caulk		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	soft putty, tan	3% Chrysotile	
23514.026-0018	Countertop		Room 406; science counter coating		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	loose debris, black/tan	No Asbestos Detected	
23514.026-0019	Miscelleaneous		Room 403; science counter		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	flaky material, dark brown	7% Chrysotile	
23514.026-0020	Vinyl Floor Tile		Room 403; white 12"X12" vinyl floor tile and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, off-white	No Asbestos Detected	
		Layer 2	mastic, orange	No Asbestos Detected	
23514.026-0021	Vinyl Floor Tile		Room 403; geen 9"X9" vinyl floor tile and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	thin hard vinyl, green	3% Chrysotile	
		Layer 2	mastic, black	3% Chrysotile	
23514.026-0022	Miscellaneous		Room 403; wall paper		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	thick woven fibers, off-white with paint, off-white	No Asbestos Detected	
23514.026-0023	Mastic		Room 404; wall, cork mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compressed fibers, tan	No Asbestos Detected	
		Layer 2	mastic, brown	No Asbestos Detected	
		Layer 3	fine compact powder, off-white	2% Chrysotile	
23514.026-0024	Gypsum Wallboard/Joint Compound		Room 404; gypsum joint compound		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fine compact powder, off-white with paint, brown	2% Chrysotile	
		Layer 2	compact chalky material with paper, white	No Asbestos Detected	

Code	Material		Location	Results	Lab
23514.026-0025	Miscellaneous		Room 401; wall paper		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, white with fibers, white	No Asbestos Detected	
23514.026-0026	Mortar		Room 401; brick mortar		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	granular compact powder, tan	No Asbestos Detected	
23514.026-0027	Vinyl Floor Tile		Room 401; white 12"X12" vinyl floor tile and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, off-white	No Asbestos Detected	
		Layer 2	mastic, yellow	No Asbestos Detected	
23514.026-0028	Vinyl Floor Tile		Room 401; green 9"X9" vinyl floor tile and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compact powder, brown	No Asbestos Detected	
		Layer 2	thin hard vinyl, green	4% Chrysotile	
		Layer 3	mastic, black	3% Chrysotile	
23514.026-0029	Covebase/Mastic		Room 401; blue 4" covebase and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, blue	No Asbestos Detected	
		Layer 2	mastic, yellow	No Asbestos Detected	
23514.026-0030	Vinyl Floor Tile		Room 414; office, white 12"x12" vinyl floor tile and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, off-white	No Asbestos Detected	
		Layer 2	mastic, tan	No Asbestos Detected	
23514.026-0031	Vinyl Floor Tile		Room 414; office, white 12"X12" vinyl floor tile and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard thin vinyl, beige	6% Chrysotile	
		Layer 2	mastic, black	4% Chrysotile	
23514.026-0032	Mortar		Room 414; office, brick mortar		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard compact powder, red	No Asbestos Detected	
		Layer 2	loose granular powder, gray	No Asbestos Detected	

Code	Material		Location	Results	Lab
23514.026-0033	Vinyl Floor Tile		Room 412; off-white, 12"X12", vinyl floor tile and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, off-white	No Asbestos Detected	
		Layer 2	mastic, yellow with fine compact powder, white	No Asbestos Detected	
		Layer 3	hard compact powder, gray	No Asbestos Detected	
23514.026-0034	Vinyl Floor Tile		Room 412; white, 12"X12", vinyl floor tile and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, light blue	No Asbestos Detected	
		Layer 2	mastic, dark yellow	No Asbestos Detected	
		Layer 3	hard compact powder, dark gray	No Asbestos Detected	
23514.026-0035	Vinyl Floor Tile		Room 407; white 12"X12", vinyl floor tile and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, off-white	No Asbestos Detected	
		Layer 2	mastic, yellow with fine compact powder, gray	No Asbestos Detected	
23514.026-0036	Vinyl Floor Tile		Room 407; off white vinyl floor tile and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, white	No Asbestos Detected	
		Layer 2	mastic, black	No Asbestos Detected	
23514.026-0037	Labtop		Room 407; science counter		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	loose flaky material, dark gray	15% Chrysotile	
23514.026-0038	Caulk		Boy's room; 400 hall, caulk		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard rubbery material, white	No Asbestos Detected	
23514.026-0039	Ceramic Tile/Grout		Boy's room; 400 hall, floor tile grout		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	loose granular powder, red/gray	No Asbestos Detected	
23514.026-0040	Covebase/Mastic		300 hall media center; covebase and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, dark brown	No Asbestos Detected	
		Layer 2	mastic, brown/white	No Asbestos Detected	

Code	Material		Location	Results	Lab
23514.026-0041	Miscellaneous		300 hall; media center, wallpaper		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	thick woven fibrous material, green/tan	No Asbestos Detected	
		Layer 2	fine compact powder, off-white	2% Chrysotile	
23514.026-0042	Joint Compound		300 hall; media center, joint compound		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fine compact powder, off-white	2% Chrysotile	
23514.026-0043	Caulk		300 hall; media center, window caulk		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	soft compact material, off-white/gray	4% Chrysotile	
23514.026-0044	Mastic		300 hall; media center, carpet mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	woven fibers, gray/purple	No Asbestos Detected	
		Layer 2	woven fibrous backing, white	No Asbestos Detected	
		Layer 3	mastic, yellow	No Asbestos Detected	
		Layer 4	mastic, dark brown	No Asbestos Detected	
23514.026-0045	Mortar		300 hall; media center, brick mortar		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	loose granular material, gray with paint, purple	No Asbestos Detected	
23514.026-0046	Vinyl Floor Tile		Media center storage; brown 9"X9" vinyl floor tile mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, tan	4% Chrysotile	
		Layer 2	mastic, black	2% Chrysotile	
23514.026-0047	Window Glazing Compound		Ext. media center; window glazing		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	flexible rubbery material, dark brown	No Asbestos Detected	
23514.026-0048	Concealed Grid Ceiling Tile		Media center; 2"X4" ceiling tile		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compressed fibers, gray with paint, white	No Asbestos Detected	

Code	Material		Location	Results	Lab
23514.026-0049	Gypsum Wallboard/Joint Compound		Library workroom; gypsum joint compound		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	paint, white with fine compact powder, white	No Asbestos Detected	
		Layer 2	fibrous material, white	No Asbestos Detected	
23514.026-0050	Caulk		Room 327; caulk		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	soft compact material, off-white	4% Chrysotile	
23514.026-0051	Mortar		Room 327; brick mortar		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	loose granular powder, gray	No Asbestos Detected	
23514.026-0052	Vinyl Floor Tile		Room 327; marbled white 12"X12" vinyl floor tile and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, light gray	No Asbestos Detected	
		Layer 2	mastic, dark yellow	No Asbestos Detected	
23514.026-0053	Covebase/Mastic		Room 301; brown 4" covebase and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, dark brown	No Asbestos Detected	
		Layer 2	mastic, brown	No Asbestos Detected	
23514.026-0054	Miscellaneous		Room 326; between panel; window sealant		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	soft flexible material, black	No Asbestos Detected	
23514.026-0055	Vinyl Floor Tile		Room 326; between panel; window sealant		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, light gray	No Asbestos Detected	
		Layer 2	mastic, black	No Asbestos Detected	
23514.026-0056	Vinyl Floor Tile		Room 325 (patch); white 12"X12", vinyl floor tile and mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard vinyl, light gray	No Asbestos Detected	
		Layer 2	fibrous mastic, dark yellow	No Asbestos Detected	

Code	Material		Location	Results	Lab
23514.026-0057	Miscellaneous		Room 324; wallpaper		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	woven material with coating, white	No Asbestos Detected	
23514.026-0058	Gypsum Wallboard/Joint Compound		Room 324; gypsum joint compound		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	paint, white with fine compact powder, light gray	2% Chrysotile	
		Layer 2	fibrous material, white	No Asbestos Detected	
		Layer 3	compact chalky material with paper, white	No Asbestos Detected	
23514.026-0059	Caulk		300 hall; boys room, caulk		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, white	No Asbestos Detected	
23514.026-0060	Miscellaneous		Ext. 300 hall; north, window assembly sealant		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard compact powder, off-white	3% Chrysotile	
23514.026-0061	Window Glazing Compound		Ext. 300 hall; north, window glazing		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	soft flexible material, black	No Asbestos Detected	
23514.026-0062	Miscellaneous		400 hall; north side, window assembly sealant		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard compact powder, tan/gray	4% Chrysotile	
23514.026-0063	Window Glazing Compound		400 hall; north, window glazing		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	soft flexible material, black	No Asbestos Detected	

Code	Material	Analysis	Location	Lab
PAINT				
LB23514.026-1001	Paint	730 ppm	Room 406; I beam/wall, metal, white, fair condition	R.J. Lee Group
LB23514.026-1002	Paint	<170 ppm	Room 403; wall panel, metal, white, poor condition	R.J. Lee Group
LB23514.026-1003	Paint	<98 ppm	Room 412; wallboard, gypsum, white, good condition	R.J. Lee Group
LB23514.026-1004	Paint	<160 ppm	300 hall media center; brick wall, gypsum, white, fair, condition	R.J. Lee Group
LB23514.026-1005	Paint	<160 ppm	Library work room; wall, gypsum, white, fair condition	R.J. Lee Group
LB23514.026-1006	Paint	<160 ppm	Room 302; wall, gypsum, blue, good condition	R.J. Lee Group

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

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

Report Number: 165421R01
Report Date: 12/02/2016
P.O. No: n/a

Job Number: **165421**
Project Name:
Project Number: 23514.026 Phase 0001
Project Notes:

Client Sample ID: **23514.026-0001** **Sample ID:** S1 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
thin hard vinyl, tan	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: **23514.026-0002** **Sample ID:** S2 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
rubbery material, blue	80 %	-	-	-			**NAD**
Layer 02							
mastic,yellow	10 %	-	-	-			**NAD**
Layer 03							
mastic, brown	6 %	-	-	-			**NAD**
Layer 04							
fine compact powder, off-white	4 %	2 %	-	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %
Layer 04	-	-	-	-	-	-	98 %

NVLAP LAB CODE 200741-0

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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Job Number: 165421

Report Number: 165421R01
Report Date: 12/02/2016

Client Sample ID: 23514.026-0003 **Sample ID:** S3 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
thin hard vinyl, pink	92 %	3 %	-	-	**3 %**
Layer 02					
mastic, black	8 %	3 %	-	-	**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	97 %
Layer 02	-	-	-	-	-	-	97 %

Client Sample ID: 23514.026-0004 **Sample ID:** S4 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
thick woven fibers, off-white with paint, white	50 %	-	-	-	**NAD**
Layer 02					
fine compact powder, off-white	30 %	2 %	-	-	**2 %**
Layer 03					
compact chalky material with paper, white	20 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	70 %	-	-	-	-	30 %
Layer 02	-	-	-	-	-	-	98 %
Layer 03	-	2 %	-	-	-	-	98 %

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Job Number: **165421**

Report Number: 165421R01
Report Date: 12/02/2016

Client Sample ID: **23514.026-0005** **Sample ID:** S5 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
braided fibers, white	10 %	-	-	-			**NAD**
Layer 02							
soft putty, tan	90 %	3 %	-	-			**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	100 %	-	-	0 %
Layer 02	-	-	-	-	-	-	97 %

Client Sample ID: **23514.026-0006** **Sample ID:** S6 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
flaky material, dark brown	100 %	4 %	-	-			**4 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	96 %

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Job Number: 165421

Report Number: 165421R01
Report Date: 12/02/2016

Client Sample ID: 23514.026-0007 **Sample ID:** S7 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
hard vinyl, white	60 %	-	-	-	**NAD**
Layer 02					
mastic, orange	1 %	-	-	-	**NAD**
Layer 03					
compact powder, off-white	10 %	-	-	-	**NAD**
Layer 04					
fine cementitious material, gray	29 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %
Layer 04	-	-	-	-	-	-	100 %

Client Sample ID: 23514.026-0008 **Sample ID:** S8 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
hard vinyl, light blue	97 %	-	-	-	**NAD**
Layer 02					
mastic, tan	3 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

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Asbestos and Environmental Analysis

Job Number: 165421

Report Number: 165421R01
Report Date: 12/02/2016

Client Sample ID: 23514.026-0009 **Sample ID:** S9 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl, white	98 %	-	-	-	**NAD**
Layer 02					
mastic, black	2 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23514.026-0010 **Sample ID:** S10 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
hard vinyl, light gray	90 %	-	-	-	**NAD**
Layer 02					
mastic, orange with powder, white	10 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	-	98 %

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BULK SAMPLE ASBESTOS ANALYSIS

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Report Number: 165421R01
Report Date: 12/02/2016

Client Sample ID: 23514.026-0011 **Sample ID:** S11 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, black	90 %	-	-	-	**NAD**
Layer 02					
mastic, yellow	8 %	-	-	-	**NAD**
Layer 03					
fine powder, white	2 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: 23514.026-0012 **Sample ID:** S12 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, blue	90 %	-	-	-	**NAD**
Layer 02					
mastic, tan	10 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	1 %	-	-	-	-	99 %

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Client Sample ID: 23514.026-0013 **Sample ID:** S13 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
compresed fibers, brown with paint, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	98 %	-	-	-	-	2 %

Client Sample ID: 23514.026-0014 **Sample ID:** S14 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
hard vinyl, off-white	95 %	-	-	-			**NAD**
Layer 02							
brittle mastic, orange	5 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	3 %	-	-	-	-	97 %

Client Sample ID: 23514.026-0015 **Sample ID:** S15 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
thin hard vinyl, pink	98 %	4 %	-	-			**4 %**
Layer 02							
mastic, black	2 %	3 %	-	-			**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	96 %
Layer 02	-	-	-	-	-	-	97 %

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Asbestos and Environmental Analysis

Job Number: 165421

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Report Date: 12/02/2016

Client Sample ID: 23514.026-0016 **Sample ID:** S16 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
hard vinyl, black	100 %	2 %	-	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	98 %

Client Sample ID: 23514.026-0017 **Sample ID:** S17 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
soft putty, tan	100 %	3 %	-	-			**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	97 %

Client Sample ID: 23514.026-0018 **Sample ID:** S18 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose debris, black/tan	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	25 %	-	-	-	-	75 %

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BULK SAMPLE ASBESTOS ANALYSIS

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Job Number: 165421

Report Number: 165421R01
Report Date: 12/02/2016

Client Sample ID: 23514.026-0019 **Sample ID:** S19 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
flaky material, dark brown	100 %	7 %	-	-	**7 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	93 %

Client Sample ID: 23514.026-0020 **Sample ID:** S20 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
hard vinyl, off-white	95 %	-	-	-	**NAD**
Layer 02					
mastic, orange	5 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	3 %	-	-	-	97 %

Client Sample ID: 23514.026-0021 **Sample ID:** S21 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
thin hard vinyl, green	92 %	3 %	-	-	**3 %**
Layer 02					
mastic, black	8 %	3 %	-	-	**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	97 %
Layer 02	-	-	-	-	-	97 %

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BULK SAMPLE ASBESTOS ANALYSIS

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Job Number: **165421**

Report Number: 165421R01
Report Date: 12/02/2016

Client Sample ID: **23514.026-0022** **Sample ID:** S22 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
thick woven fibers, off-white with paint, off-white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	40 %	-	-	-	-	60 %

Client Sample ID: **23514.026-0023** **Sample ID:** S23 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
compressed fibers, tan	60 %	-	-	-			**NAD**
Layer 02							
mastic, brown	20 %	-	-	-			**NAD**
Layer 03							
fine compact powder, off-white	20 %	2 %	-	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	100 %	-	-	-	-	0 %
Layer 02	-	2 %	-	-	-	-	98 %
Layer 03	-	-	-	-	-	-	98 %

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Client Sample ID: 23514.026-0024 **Sample ID:** S24 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, off-white with paint, brown	15 %	2 %	-	-	**2 %**
Layer 02					
compact chalky material with paper, white	85 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	98 %
Layer 02	1 %	3 %	-	-	-	96 %

Client Sample ID: 23514.026-0025 **Sample ID:** S25 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
rubbery material, white with fibers, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	50 %	-	-	-	50 %

Client Sample ID: 23514.026-0026 **Sample ID:** S26 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
granular compact powder, tan	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

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Client Sample ID: 23514.026-0027 **Sample ID:** S27 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
hard vinyl, off-white	99 %	-	-	-	**NAD**
Layer 02					
mastic, yellow	1 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23514.026-0028 **Sample ID:** S28 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
compact powder, brown	5 %	-	-	-	**NAD**
Layer 02					
thin hard vinyl, green	90 %	4 %	-	-	**4 %**
Layer 03					
mastic, black	5 %	3 %	-	-	**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	96 %
Layer 03	-	-	-	-	-	-	97 %

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Client Sample ID: 23514.026-0029 **Sample ID:** S29 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
rubbery material, blue	98 %	-	-	-			**NAD**
Layer 02							
mastic, yellow	2 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23514.026-0030 **Sample ID:** S30 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
hard vinyl, off-white	99 %	-	-	-			**NAD**
Layer 02							
mastic, tan	1 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	-	98 %

Client Sample ID: 23514.026-0031 **Sample ID:** S31 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
hard thin vinyl, beige	85 %	6 %	-	-			**6 %**
Layer 02							
mastic, black	15 %	4 %	-	-			**4 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	94 %
Layer 02	-	-	-	-	-	-	96 %

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Client Sample ID: 23514.026-0032 **Sample ID:** S32 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
hard compact powder, red	50 %	-	-	-	**NAD**
Layer 02					
loose granular powder, gray	50 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23514.026-0033 **Sample ID:** S33 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
hard vinyl, off-white	60 %	-	-	-	**NAD**
Layer 02					
mastic, yellow with fine compact powder, white	25 %	-	-	-	**NAD**
Layer 03					
hard compact powder, gray	15 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

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Client Sample ID: 23514.026-0034 **Sample ID:** S34 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
hard vinyl, light blue	75 %	-	-	-	**NAD**
Layer 02					
mastic, dark yellow	10 %	-	-	-	**NAD**
Layer 03					
hard compact powder, dark gray	15 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: 23514.026-0035 **Sample ID:** S35 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
hard vinyl, off-white	55 %	-	-	-	**NAD**
Layer 02					
mastic, yellow with fine compact powder, gray	45 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

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Client Sample ID: 23514.026-0036 **Sample ID:** S36 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
hard vinyl, white	95 %	-	-	-	**NAD**
Layer 02					
mastic, black	5 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23514.026-0037 **Sample ID:** S37 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose flaky material, dark gray	100 %	15 %	-	-	**15 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	85 %

Client Sample ID: 23514.026-0038 **Sample ID:** S38 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
hard rubbery material, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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Client Sample ID: 23514.026-0039 **Sample ID:** S39 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose granular powder, red/gray	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
	-	6 %	-	-		-	-	94 %

Client Sample ID: 23514.026-0040 **Sample ID:** S40 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
rubbery material, dark brown	95 %	-	-	-			**NAD**
Layer 02							
mastic, brown/white	5 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-	Wollastonite	3 %	-	97 %

Client Sample ID: 23514.026-0041 **Sample ID:** S41 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
thick woven fibrous material, green/tan	90 %	-	-	-			**NAD**
Layer 02							
fine compact powder, off-white	10 %	2 %	-	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-		-	-	98 %

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Client Sample ID: **23514.026-0042** **Sample ID:** S42 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
fine compact powder, off-white	100 %	2 %	-	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	98 %

Client Sample ID: **23514.026-0043** **Sample ID:** S43 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
soft compact material, off-white/gray	100 %	4 %	-	-			**4 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	96 %

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Client Sample ID: **23514.026-0044** **Sample ID:** S44 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
woven fibers, gray/purple	67 %	-	-	-			**NAD**
Layer 02							
woven fibrous backing, white	25 %	-	-	-			**NAD**
Layer 03							
mastic, yellow	5 %	-	-	-			**NAD**
Layer 04							
mastic, dark brown	3 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	100 %	-	-	0 %
Layer 02	-	-	-	100 %	-	-	0 %
Layer 03	-	-	-	-	-	-	100 %
Layer 04	-	-	-	-	-	-	100 %

Client Sample ID: **23514.026-0045** **Sample ID:** S45 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
loose granular material, gray with paint, purple	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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Client Sample ID: 23514.026-0046 **Sample ID:** S46 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
hard vinyl, tan	99 %	4 %	-	-			**4 %**
Layer 02							
mastic, black	1 %	2 %	-	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	96 %
Layer 02	-	-	-	-	-	-	98 %

Client Sample ID: 23514.026-0047 **Sample ID:** S47 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
flexible rubbery material, dark brown	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23514.026-0048 **Sample ID:** S48 **Date Analyzed:** 12/02/2016
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
	-	45 %	45 %	-	-	-	10 %

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Client Sample ID: 23514.026-0049 **Sample ID:** S49 **Date Analyzed:** 12/02/2016
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	75 %	-	-	-	**NAD**
Layer 02					
fibrous material, white	25 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	100 %	-	-	-	0 %

Client Sample ID: 23514.026-0050 **Sample ID:** S50 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
soft compact material, off-white	100 %	4 %	-	-	**4 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	96 %

Client Sample ID: 23514.026-0051 **Sample ID:** S51 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose granular powder, gray	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

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Client Sample ID: **23514.026-0052** **Sample ID:** S52 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
hard vinyl, light gray	88 %	-	-	-			**NAD**
Layer 02							
mastic, dark yellow	12 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: **23514.026-0053** **Sample ID:** S53 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
rubbery material, dark brown	95 %	-	-	-			**NAD**
Layer 02							
mastic, brown	5 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: **23514.026-0054** **Sample ID:** S54 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
soft flexible material, black	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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Client Sample ID: **23514.026-0055** **Sample ID:** S55 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
hard vinyl, light gray	95 %	-	-	-			**NAD**
Layer 02							
mastic, black	5 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: **23514.026-0056** **Sample ID:** S56 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
hard vinyl, light gray	92 %	-	-	-			**NAD**
Layer 02							
fibrous mastic, dark yellow	8 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	8 %	-	-	-	-	92 %

Client Sample ID: **23514.026-0057** **Sample ID:** S57 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
woven material with coating, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	75 %	-	-	-	-	25 %

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Client Sample ID: 23514.026-0058 **Sample ID:** S58 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, white with fine compact powder, light gray	54 %	2 %	-	-	**2 %**
Layer 02					
fibrous material, white	40 %	-	-	-	**NAD**
Layer 03					
compact chalky material with paper, white	6 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	98 %
Layer 02	-	90 %	-	-	-	-	10 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: 23514.026-0059 **Sample ID:** S59 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
rubbery material, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23514.026-0060 **Sample ID:** S60 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
hard compact powder, off-white	100 %	3 %	-	-	**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	97 %

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: 165421

Report Number: 165421R01
Report Date: 12/02/2016

Client Sample ID: 23514.026-0061 **Sample ID:** S61 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
soft flexible material, black	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: 23514.026-0062 **Sample ID:** S62 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
hard compact powder, tan/gray	100 %	4 %	-	-	**4 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	3 %	-	-	-	93 %

Client Sample ID: 23514.026-0063 **Sample ID:** S63 **Date Analyzed:** 12/02/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
soft flexible material, black	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: **165421**

Report Number: 165421R01
Report Date: 12/02/2016

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

•"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

Ryan Brown
Analyst

NVLAP LAB CODE 200741-0

PBS Engineering + Environmental

165421 1/4

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 23514.026 Phase 0001

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: November 30, 2016

PBS Engineering and Environmental Inc.
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Hailey Edmeades
Name

HEdmeades 11/30 11:17
Authorized Signature **Date** **Time**

RECEIVER

Date Received: 11/30/16

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

Anna Geare
Name

Anna Geare 11/30/16 11:23am
Authorized Signature **Date** **Time**

Sender's ID No.	Brief Description	Receiver's ID No.
23514.026-0001		
23514.026-0002		
23514.026-0003		
23514.026-0004		
23514.026-0005		
23514.026-0006		
23514.026-0007		
23514.026-0008		
23514.026-0009		
23514.026-0010		
23514.026-0011		
23514.026-0012		
23514.026-0013		
23514.026-0014		

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23514.026-0015		
23514.026-0016		
23514.026-0017		
23514.026-0018		
23514.026-0019		
23514.026-0020		
23514.026-0021		
23514.026-0022		
23514.026-0023		
23514.026-0024		
23514.026-0025		
23514.026-0026		
23514.026-0027		
23514.026-0028		
23514.026-0029		
23514.026-0030		
23514.026-0031		
23514.026-0032		
23514.026-0033		
23514.026-0034		
23514.026-0035		
23514.026-0036		
23514.026-0037		
23514.026-0038		
23514.026-0039		
23514.026-0040		

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TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23514.026-0041		
23514.026-0042		
23514.026-0043		
23514.026-0044		
23514.026-0045		
23514.026-0046		
23514.026-0047		
23514.026-0048		
23514.026-0049		
23514.026-0050		
23514.026-0051		
23514.026-0052		
23514.026-0053		
23514.026-0054		
23514.026-0055		
23514.026-0056		
23514.026-0057		
23514.026-0058		
23514.026-0059		
23514.026-0060		
23514.026-0061		
23514.026-0062		
23514.026-0063		

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165421 4/4

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Please analyze the enclosed 63 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: ~~24 HOUR~~ 48 hrs.

SPECIAL INSTRUCTIONS:

RD

RJ Lee Group, Inc.
350 Hochberg Road, Monroeville, PA 15146
Tel: (724) 325-1776 | Fax: (724) 733-1799

LABORATORY REPORT

PBS Engineering & Environmental
4412 Southwest Corbett Ave.
Portland, OR 97239

Attn: Hailey Edmeades
Phone: 503-417-7594

Email: hailey.edmeades@pbsenv.com

RJ Lee Group Job No.: PA011220160009
Samples Received: December 1, 2016
Report Date: December 5, 2016
Client Project: 23514.026 Phase 0001
Purchase Order No.: N/A
Matrix: Solid
Prep/Analysis: EPA 3050B / EPA 7000B-Paint

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		
LB23514.026-1001	PA011220160009-001	NP	Lead	0.073	730	0.010	100	12/02/2016	AN
LB23514.026-1002	PA011220160009-002	NP	Lead	< 0.017	< 170	0.017	170	12/02/2016	AN
LB23514.026-1003	PA011220160009-003	NP	Lead	< 0.0098	< 98	0.0098	98	12/02/2016	AN
LB23514.026-1004	PA011220160009-004	NP	Lead	< 0.016	< 160	0.016	160	12/02/2016	AN
LB23514.026-1005	PA011220160009-005	NP	Lead	< 0.016	< 160	0.016	160	12/02/2016	AN
LB23514.026-1006	PA011220160009-006	NP	Lead	< 0.016	< 160	0.016	160	12/02/2016	AN

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)*
A *: AIHA-LAP, LLC Accredited (Lab ID 100364)*
— : Test (analyte-matrix-preparation-analysis) is performed under RJLG's General Quality System requirements and is not part to any of the above scopes of accreditations

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

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. Unless it is specifically stated otherwise (under the Q column using the appropriate accrediting agency qualifier(s)) the work contained in this report is performed under RJLG's General Quality System requirements and is not part of any scope of accreditations. This report may not be used to claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or to the sample(s) as received by the laboratory. Any reproduction of this document must be in full for the report to be valid.

Unless otherwise noted (either in the comments section of the report and/or with the appropiate 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.

Philip Grindle
Laboratory Supervisor

PA0112201600009

PBS | Engineering + Environmental

TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: 23514.026 Phase 0001

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: November 30, 2016

PBS Engineering and Environmental Inc.
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Hailey Edmeades
Name

HEdmeades 11/30/16
Authorized Signature **Date**

RECEIVER

Date Received: 12/01/16

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

Erin Repine
Name

Erin Repine 12/01/16 0900
Authorized Signature **Date**

Sender's ID No.	Brief Description	Receiver's ID No.
LB23514.026-1001		
LB23514.026-1002		
LB23514.026-1003		
LB23514.026-1004		
LB23514.026-1005		
LB23514.026-1006		

ANALYSIS REQUESTED:

LEAD:
- ☑ Paint
- ☐ Wipe
- ☐ Soil/Misc.
- ☐ Air
- ☐ TCLP

Please analyze the enclosed 6 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:

48 Hour

SPECIAL INSTRUCTIONS:

RD

THIS IS TO CERTIFY THAT

JOEL MCCARTHY

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: 07/07/2016

Course Location: Portland, OR

Certificate: IMR-16-2771B

PBS | Engineering + Environmental

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

Expiration Date: 07/07/2017

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

Gregory M. Baker

Greg Baker, Instructor

THIS IS TO CERTIFY THAT

RICH A. DUFRESNE

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: 04/07/2016

Course Location: Portland, OR

Certificate: IMR-16-0264A

PBS Engineering + Environmental

Expiration Date: 04/07/2017

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

Greg Baker, Instructor