

CAPITAL CONSTRUCTION DEPARTMENT 700 ANDOVER PARK WEST - SUITE C * SEATTLE, WA 98188

ADDENDUM:	#2		TODAY'S DATE:	4/26/2022
PROJECT NAME:	Mardi Gras Waste Line	\$		
CONTACT / TITLE: PHONE / EMAIL:	Don Hatfield 206-574-1213	PROJECT : donaldh@k	MANAGER ccha.org	

This Addendum is used to Identify Items in the Original Documents with Action as Follows:

	□ BID	C RFQ	C RFP	
CLARIFY	CHANGE	DELETE	✓ ADD	SUBSTITUTE

- 44 Page(s) Total for this Addenda including this page.
- 1. ADD: See attached 3rd Party Reports for the Mardi Gras site hazardous materials.



March 26, 2019



Mr. Tim Thatcher King County Housing Authority 700 Andover Park West Suite C Tukwila, WA 98188

Subject: Mardi Gras Apartments 24009 104th Ave. SE Kent, WA 98030

Dear Mr. Tim Thatcher:

MC Consultants Inc. (MC) is pleased to submit the following report for the limited lead-based paint inspection performed at the subject facility to King County Housing Authority. This report contains FLAA analysis, from the inspection on March 7, 2019. This inspection was completed using the inspection protocol given in Chapter 7 of the *HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (1997)*.

The results of the FLAA analysis indicate that lead-based paint was detected in amounts greater than or equal to 0.5% by weight in the affected areas:

FLAA Analysis	Summary -	Table #2
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			2			
Sample	Room	Component	Color	Substrate	Concentration	Quantity
No.	Equivalent					
FLAA	Roof	HVAC	Green	Metal	<49.8 PPM	NA.
L1						

If there are any questions please do not hesitate to contact us at (623) 691-6400.

Sincerely,



LIMITED LEAD-BASED PAINT SURVEY REPORT

Mardi Gras 24009 104th Ave. SE Kent, WA 98030 Project Number: A19-00083 Report Date: April 9, 2019

Project Submitted to:

Mr. Tim Thatcher King County Housing Authority 700 Andover Park West Suite C Tukwila, WA 98188

Report Prepared by:

Deborah Mullins

Deborah Mullins Senior Project Manager

Report Reviewed by:

Roy L. Dunn, CIH, CEICC, CMC Vice President/Sr. Scientist





TABLE OF CONTENTS

<u>Secti</u>	PAG	GE
1.0 1.1	EXECUTIVE SUMMARY Inspector(s)	. 1 1
1.2	Project Scope of Work	1
1.4	FLAA Analysis	1
1.5	Inspection Summary	1
2.0	LEAD INSPECTION METHODOLOGY	. 2
3.0	FINDINGS	. 3
4.0	REFERENCES	. 4
5.0	LIMITATIONS AND EXCLUSIONS OF WARRANTY	. 5

Limited Lead-Based Paint Survey Report Mardi Gras Building Exterior HVAC Unit Project NumberA19-00083

D.3

1.0 EXECUTIVE SUMMARY

MC Consultants Inc. (MC), conducted a limited inspection of suspected Lead-Based Paint (LBP) from the Mardi Gras. located at 24009 104th Ave SE, Kent, WA on March 7, 2019.

1.1 Inspector(s)

Ms. Deborah Mullins, Senior Project Manager of MC, performed the limited lead inspection of the subject property in accordance with U.S. Department of Housing and Urban Development guidelines as provided in: *Guidelines for The Evaluation and Control of Lead Based Paint Hazards in Housing, Chapter 7*

1.2 Project Scope of Work

The inspection was conducted due to an upcoming remediation project. The purpose of the limited inspection was to determine if the materials that are planned to be removed during remediation activities contained regulated levels of lead-based paint prior to repair work being conducted, and to determine levels of lead content in dust and soil. No destructive testing was performed to access obstructed building materials.

All affected materials were sufficiently sampled to satisfy OSHA, HUD, and EPA requirements.

1.4 FLAA Analysis

A total of four (4) testing combinations were analyzed by FLAA throughout the property.

1.5 Inspection Summary

FLAA Analysis Summary - Table #2							
Sample	Room	Component	Color	Substrate	Concentration	Quantity	
No.	Equivalent					-	
FLAA	Exterior	HVAC Unit	Green	Metal	<49.8 PPM	NA.	
L1							

It should be noted that areas not tested for lead based paint should be assumed to be above the limits until testing proves the areas do not contain lead-based paint.

Per 24 CFR Part 35 and 40 CFR Part 745, the following is required language for a Lead Based Paint Inspection Report. Some of the language may or may not be appropriate for this survey.

The results of this inspection indicate that lead was not found in amounts greater than or equal to 1.0 mg/cm² or 0.5% by weight in paint on any building components. This inspection was completed using the inspection protocol given in Chapter 7 of the *HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (1997)*. Therefore, this dwelling qualifies for the exemption in 24 CFR Part 35 and 40 CFR Part 745 for target housing being leased that is free of lead-based paint, as defined in the rule. This report should be kept by the inspector and should be kept by the owner and all future owners for the life of the dwelling. For a leased home, where no lead-based paint is identified during an inspection, the building owner is exempt from the requirements of the disclosure rule. However, when a housing unit with no lead-based paint is being sold, the owner still has responsibilities under the disclosure rule (e.g., providing a lead hazard information pamphlet to potential buyers). For selling and leasing properties where no lead-based paint is strongly recommended that owners and inspectors retain inspection reports for the life of the building. If there are any questions, please do not hesitate to contact us at (623) 691-6400.

Limited Lead-Based Paint Survey Report Mardi Gras Building Exterior HVAC Unit Project NumberA19-00083

2.0 LEAD INSPECTION METHODOLOGY

The EPA defines a lead-based paint inspection as a surface-by-surface investigation to determine the presence of lead-based paint (40 CFR part 745 and Title X of the *1992 Housing and Community Development Act*). The inspection also evaluates the condition of the painted surfaces sampled as intact or non-intact. Painted surfaces include any surface coated with paint, shellac, varnish, stain, paint covered by wallpaper, or any other coating. Wallpaper should be assumed to cover paint unless building records or physical evidence indicates no paint is present.

Lead-based paint is defined under HUD and EPA as paint or other surface coating with lead content equal to or greater than 1.0 mg/cm² of surface area by XRF analysis or 0.5% by weight (5,000 parts per million) by FLAA paint chip analysis. The applicable standards in the jurisdiction of the State of Arizona are congruent with HUD and EPA levels.

Lead paint concentrations should be reported in mg/cm² because this unit of measurement does not depend on the number of layers of non-lead-based paint and can usually be obtained without damaging the painted surface. All measurements of lead in paint should be in mg/cm², unless the surface area cannot be measured or if all paint cannot be removed from the measured surface area. In such cases, concentrations may be reported in weight percent (%) or parts per million by weight (ppm). For the purposes of the HUD/EPA lead-based paint disclosure rule, 1.0 milligram per square centimeter (mg/cm²) or 0.5% by weight are the standards that must be used.

The substrate is the material underneath the paint. Substrates should be classified into one of six types: brick, concrete, drywall, metal, plaster, or wood (ceramic is used by inspectors frequently as well).

A building component type consists of doors, windows, walls, and so on that are repeated in more than one room equivalent in a unit and have a common substrate. If a unique building component is present in only one room, it is considered to be a testing combination. Each testing combination may be composed of more than one building component (such as two similar windows within a room equivalent).

A testing combination is characterized by the room equivalent, the component type, and the substrate. For each unit, common area, and exterior site to be inspected, all testing combinations in each room equivalent were identified. A room equivalent is an identifiable part of a residence (e.g., room, house exterior, foyer, etc.).

The test location is a specific area on a testing combination where either an XRF reading or an FLAA paint-chip sample will be taken.

A lead-based paint inspection will:

- Determine whether lead-based paint is present including common areas and exterior surfaces.
- Determine which building components contain lead-based paint.

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Limited Lead-Based Paint Survey Report Mardi Gras Building Exterior HVAC Unit Project NumberA19-00083



3.0 FINDINGS

The following table lists the detailed information of the FLAA lead-based paint survey of the Mardi Gras:

Sample	Room	Component	Color	Substrate	Concentration	Quantity
INO.	Equivalent					
FLAA L1	Exterior	HVAC Unit	Green	Metal	<49.8 PPM	NA.

FLAA Analysis Summary - Table #2

It should be noted that one of the areas may have lead present above the HUD limit of 1.0 mg/cm2 or 0.5% by weight.

This report should be kept by the owner and distributed as necessary per the federal law found in 24 CFR Part 35.

4.0 **REFERENCES**

The following references are used as guidelines for the industrial hygiene survey:

- 1. American Conference of Government Industrial Hygienist (ACGIH): <u>Industrial</u> <u>Ventilation 24th Edition</u>; 2001; published by ACGIH
- 2. American Conference of Government Industrial Hygienist (ACGIH): <u>Theshold Limit</u> <u>Values for Chemical Substances and Physical Agents</u>; 2003; published by ACGIH
- 3. American Industrial Hygiene Association (AIHA): <u>The Occupational Environment Its</u> <u>Evaluation and Control</u>; AIHA, 1998.
- 4. National Safety Council (NSC): <u>Fundamentals of Industrial Hygiene</u>; 1996; published by the NSC
- 5. National Institute for Occupational Safety and Health (NIOSH): <u>Pocket Guide to</u> <u>Chemical Hazards</u>; 1997; published by US Department of Health and Human Services
- Occupational Health and Safety Administration (OSHA): <u>29 CFR Part 1926 OSHA Safety</u> <u>and Health Standards for the Construction Industry</u>; 2000; published by The Industrial Commission of Arizona
- Occupational Health and Safety Administration (OSHA): <u>29 CFR Part 1910 Occupational</u> <u>Safety and Health Standards for General Industry</u>; 2000; published by The Industrial Commission of Arizona
- 8. Proctor & Hughes: <u>Chemical Hazards of the Workplace</u>; 1996, published by John Wiley & sons.
- U.S. Department of Housing and Urban Development, <u>Guidelines for The Evaluation and</u> <u>Control of Lead Based Paint Hazards in Housing, Chapter 7: Lead-Based Paint Inspections.</u> Revised 1997
- 10. U.S. Environmental Protection Agency, <u>Lead; Renovation, Repair, and Painting Program,</u> <u>Part 745 - Lead-Based Paint Poisioning Prevention In Certain Residential Structures:</u> <u>Subpart E Residential Property Renovation.</u> based on publication in April 22, 2008 and March 20, 2009 *Federal Register*

5.0 LIMITATIONS AND EXCLUSIONS OF WARRANTY

This investigation was performed using procedures and a level of diligence typically exercised by professional consultants performing similar services. Hidden or changed conditions, activities that may have occurred after the time of the investigation, and possible inaccuracies of information supplied to MC by others might have a material bearing on the findings, conclusions, and recommendations. MC reserves the right to change its opinion when new information is encountered.

The procedures used for this survey attempt to establish a balance between the competing goals of limiting investigative costs and time, and reducing the uncertainty about unknown conditions. It would be cost prohibitive to do an exhaustive investigation. Because an exhaustive investigation was not performed or necessary, the recommendations should not be construed as a guarantee that all safety or health hazards that may exist at the subject property have been identified.

No warranty or guarantee, expressed or implied, is made regarding the findings, conclusions or recommendations contained in this report. The limitations presented above supersede the requirements or provisions of all other contracts or scopes of work, implied or otherwise, except as expressly stated or acknowledged herein. MC is not responsible for the actions other parties involved in this project.

It is expressly agreed that MC will have no liability to any party for reliance upon any of the findings or recommendations contained in this report. To the extent that this provision is found unenforceable by any court, any liability MC may have arising out of its agreement with the contracting party is expressly agreed to be limited to the amount paid to MC.



Website: www.aerobiology.net

Date: 3/21/19

Environmental Chemistry Analysis Report

Performed and Report Prepared by: Quantem Labs, Inc. Under Subcontract with Aerobiology Laboratory Associates, Inc.

Aerobiology Project Number: 19010041 Client: MC Consultants Client Project Number: A19-00184 Mardi Gras 030719 Quantem Labs Job #: 306437

> 780 Simms Street, Suite 104, Golden, CO 80401 - (866) 620-9348 Fax (303) 232-0863 - email: denver@aerobiology.net 43760 Trade Center Place, Suite 100, Dulles, VA 20166 - (877) 648-9150 Fax (703) 661-8379 - email: lab@aerobiology.net 4501 Circle 75 Parkway, Suite A1190, Atlanta GA 30339 - (866) 620-9313 Fax (770) 947-2938 - email: ATL@aerobiology.net 2228 West Northern Avenue, Suite B110, Phoenix, AZ 85021 - (855) 738-5619 Fax (602) 441-2818 - email: phoenix@aerobiology.net 1761 Hotel Circle South, Suite 121, San Diego, CA 92108 - (650) 302-2223 Fax (720) 235-5916 - e-mail: aerobiologywest@aerobiology.net



2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Environmental Chemistry Analysis Report

QuanTEM Set ID:	306437	Client:	Aerobiology Laboratory Associates, Inc
Date Received:	03/18/19		K Davis
Received By:	Christiana Younge		228 W Northern Av. B110 Phoenix AZ 85021
Date Sampled:			Flidellix, AZ 83021
Time Sampled:		Acct. No.:	B864
Analyst:	СК		
Date of Report:	03/20/19	Project:	19010041
		Location:	N/A
		Project No.:	19010041

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	L-1	Paint	Lead	<49.8	49.8	ppm	03/20/19 10:53	P EPA 7000B (1)

Authorized Signature:___

D.3

Cierra Kennedy, Laboratory Technician

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

	Supplemental Report QAQC Results					
QA ID:	17221	Date:	3/20/2019	Lab Number:	306437	
Test:	Lead	Matrix:	Paint	Approved By:	Cierra Kennedy	
				Date Approved:	3/20/2019	

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit	
CCV	4.5	5	5.5	
FCV	4.5	5.1	5.5	
RLVS	0.05	0.12	0.15	
ICV	0.9	1.1	1.1	

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
LCS-P1	0.000	2.012	1.837	91.3	2.199	109.3	18.0
306469-002	0.006	2.000	2.255	112.4			

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	4.1.1		Lab Use:		Pag	je of
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					No. Contractor	
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1051 Direct, C	Qualitative- Swab/Tape		1017	Culture - SWAB	Legionella	
1050 Direct C	Jualitative- Bulk		1010	WATER - Potab	le - E. coli/total colifo	rms
1005 AIR Cult	ure - Bacterial Count w/ ID	s	1012	SWAB - E. coli/t	otal coliforms	ro/fecal coliforme)
1006 SWAB (Culture - Bacterial Count w	/ID's	2056	WATER - Heter	otrophic Plate Count	Griedal Comortitis)
1031 SWAB 0	Culture - Fungal Count w/ II	D's	3001	ASBESTOS - Po	bint count	
1008 BULK C	ulture - Bacterial Count w/ ID	ID's	3002	ASBESTOS - PL	IN Analysis article characterizatio	n
1007 WATER	Culture - Bacterial Count	w/ID's	3004	ASBESTOS - PO	CM Analysis	

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* Per Simone 3/15:19 K-D

March 26, 2019

Mr. Tim Thatcher King County Housing Authority 700 Andover Park W Tukwila, Washington 98188



Subject: Limited Bulk Asbestos Report

Dear Mr. Thatcher:

MC Consultants Inc. (MC) is pleased to submit the following report for the Asbestos Inspection performed at the subject facility located at 24009 104th Ave. SE, Kent, WA. This report contains the inspection results, laboratory analysis, and certifications from the inspections on March 7, 2019. This work was conducted in general accordance with the State of Washington OSHA Compliance requirements, and State of Washington EPA/Asbestos NESHAP requirements.

Asbestos containing materials or materials containing trace (<1%) levels of asbestos were detected in the sampled materials

See Section 4.0 for the list of sampled materials.

If there are any questions please do not hesitate to contact us at (623) 691-6400.

Sincerely,

Roy L. Dunn CIH, CEICC, CMC Vice President/Senior Scientist



Attachment: Limited Asbestos Management Report



LIMITED ASBESTOS MANAGEMENT REPORT

Mardi Gras Apartments 24009 104th Ave. SE, Kent, WA Kent, WA 98030 Report Date: April 9, 2019

Project Submitted to:

Mr. Tim Thatcher King County Housing Authority 700 Andover Park W Tukwila, Washington, 98188

Report Prepared by:



Roy L. Dunn, CIH, CEICC, CMC Vice President/Sr. Scientist





TABLE OF CONTENTS

SECTI	DN PAGE
1.0 1.1 1.2 1.3 1.4	EXECUTIVE SUMMARY1Inspector(s)1Project Scope of Work1Laboratory Analysis1Asbestos Containing Material Summary1
2.0 2.1 2.2	BUILDING INFORMATION1Renovation and Abatement History
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8	INSPECTION PROCEDURES2Identification of Functional Spaces2Identification of Suspect Homogenous Areas2Friability and Physical Assessment2Sample Collection2Laboratory Analysis3Additional Analysis3Regulated Building Materials3Regulated Work Practices4
4.0 4.1	FINDINGS 5 Bulk Sample Log 6
5.0	LIMITATIONS AND EXCLUSIONS OF WARRANTY vii
APPE Lab	NDIX 1 oratory Reports & Chain of Custodiesviii
APPE Asb	NDIX 2 estos Certificationsix



1.0 EXECUTIVE SUMMARY

At the authorization of King County Housing Authority, MC conducted bulk sampling of suspect asbestos-containing materials at Mardi Gras Apartments, 24009 104th Ave. SE, Kent, Washington, on March 7, 2019.

1.1 Inspector(s)

Sampling was conducted by Ms. Deborah Mullins. Ms. Mullins holds current Asbestos Hazard Emergency Response Act (AHERA) accreditation as an Asbestos Building Inspector. This report was reviewed by Mr. Roy L. Dunn, CIH, CEICC, CMC, Vice President/Sr. Scientist of MC. Mr. Dunn holds current AHERA accreditations as an Asbestos Building Inspector and Management Planner. See Appendix 2 for personnel certifications.

1.2 Project Scope of Work

A limited asbestos bulk sampling inspection was conducted on March 7, 2019 due to an upcoming project. The purpose of the limited asbestos bulk sampling inspection was to provide information regarding the presence, location, condition, quantity and National Emissions Standards for Hazardous Air Pollutants (NESHAP) classification of Asbestos-Containing Materials (ACM) as required by Environmental Protection Agency (EPA), Regulation 40 CFR, Part 61, Subpart M, Asbestos-NESHAP, and to bring the building owner City of Aberdeen into compliance with County's requirement that a NESHAP compliant "thorough inspection for asbestos" be conducted prior to any renovation/demolition activities at the subject facility prior to disturbance activities. No destructive testing was performed to access obstructed or hidden building materials. These materials, if discovered, should be assumed to contain asbestos until laboratory analysis can be performed.

1.3 Laboratory Analysis

On March 7, 2019 seventeen (17) samples were collected in the structure. All affected materials were sufficiently sampled to satisfy all Federal, State and Local requirements. The samples were submitted, with Chain of Custody (COC) documentation, to Aerobiology Laboratory in Phoenix, Arizona, for analysis by Polarized Light Microscopy (PLM) using EPA Method 600/R-93/116 with dispersion staining.

1.4 Asbestos Containing Material Summary

Asbestos containing materials or materials containing trace (<1%) levels of asbestos were detected in the sampled materials

See Section 4.0 for detailed information on the sampled materials in the bulk sample log. See Appendix 1 for the laboratory results and chain of custodies. See Section 4.0 for the sample location diagrams. If there are any questions please do not hesitate to contact us at (623) 691-6400.

2.0 BUILDING INFORMATION

The property is located at 24009 104th Ave. SE, Kent, Washington

2.1 Renovation and Abatement History

Construction documents, previous ACM inspection reports, or previous ACM abatement reports were not available for review.



2.2 Limitations of the Scope of Work

The inspection was limited to the Area defined by our client. The scope of the inspection included the interior of the spaces targeting materials affected by the renovation project.

3.0 INSPECTION PROCEDURES

Sampling was conducted in accordance with the Asbestos Hazard Emergency Response Act (AHERA), 40 CFR 763, Subpart E as directed by NESHAP Regulations.

3.1 Identification of Functional Spaces

Each affected room or *space* was assigned a unique functional space designation. This functional space is the entire interior of the building. Each functional space was visually inspected for suspect asbestos-containing materials.

3.2 Identification of Suspect Homogenous Areas

Each suspect ACM was designated as a distinct homogeneous area (HA) and given a homogeneous area number (HA#). A homogeneous area is a single material that is uniform in texture and appearance, installed at one time and for all intents and purposes is the same material regardless of its location in the building. See Section 4.0 for the suspect ACM identified as part of the scope of work.

3.3 Friability and Physical Assessment

The asbestos-containing materials most likely to release asbestos fibers are those that are in a friable state. A friable material is a material that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure. Friability of each material was determined by touch. A physical assessment of each HA of suspect ACM was conducted to assess the friability and condition of the materials. Friable asbestos-containing material in an area regularly used by, and readily accessible to building occupants, including maintenance personnel, in the course of their normal activities has a reasonable likelihood that the material or its covering will become damaged, deteriorated, or delaminated eventually.

Non-friable ACM are those materials that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure. Non-friable ACM pose less risk than friable materials, however non-friable ACM can be rendered friable by actions such as sanding, grinding, cutting or abrading. The determination of friability was limited to those areas accessible for inspection. See Section 4.0 for detailed information of the sampled HAs.

3.4 Sample Collection

A minimum of three (3) samples were collected of each material to satisfy Federal, State and Local requirements. Each sample was assigned a unique sample identification number and the exact sample location was identified and recorded. A total of seventeen (17) samples were collected on the structure. Bulk samples were collected using wet methods as applicable to reduce the potential for fiber release. Upon collection, samples were placed in a sealed, leak-tight container for laboratory analysis. The samples, with Chain of Custody (COC) documentation were delivered to Aerobilogy in Phoenix, Arizona. See Section 4.0 for the sample locations.



3.5 Laboratory Analysis

Samples were analyzed by Aerobiology Laboratories using Polarized Light Microscopy (PLM) coupled with dispersion staining as detailed in the EPA's "Interim Method for the Determination of Asbestos in Bulk Samples" EPA/600/R-93/116, July, 1993, as a preferred substitute method to 600/M4-82-020 by EPA recommendation. Aerobiology Laboratories and NVL Laboratory are accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk-asbestos sample analysis conducted by the National Institute of Standards and Technology (NIST). The asbestos laboratory reports and COC are included as Appendix 1.

3.6 Additional Analysis

Although it is required by the NESHAP to initially analyze samples using PLM analysis with <u>visual estimation</u>, the EPA has determined that this method can inaccurately estimate the amount of asbestos in a bulk sample, especially at low asbestos concentrations. For this reason, the NESHAP imposes an additional requirement for materials determined by visual estimation to contain a detectable quantity of asbestos at less than or equal to one percent concentrations. The additional requirement is that the facility owner must either (1) have the pertinent samples reanalyzed by <u>point counting</u>, or (2) assume the materials to be ACM and treat them as such. Materials determined by visual estimation to not have a detectable concentration of asbestos, or to have a concentration of one percent asbestos or greater, do not have to be reanalyzed by the point counting method.

Additionally, some vinyl floor tile is known to contain asbestos fibers that may not be detected by PLM analysis. When these materials are identified as negative for asbestos content by PLM analysis, one sample should be analyzed using Transmission Electron Microscopy (TEM) to verify the negative PLM analysis.

3.7 Regulated Building Materials

Thermal System Insulation (TSI) is ACM applied to pipes, fittings, boilers, breeching, tanks, ducts or other structural components to prevent heat loss or gain and that contain more than 1% asbestos. According to the Asbestos National Emission Standard For Hazardous Air Pollutants (NESHAP) 40 CFR 61, subpart M, all demolition and renovation activities that disturb friable ACM or TSI in greater amounts than or equal to 160 square feet, 260 linear feet, or 35 cubic feet are regulated if the facility is one of the following types: commercial, industrial, residential if more than 4 units, and residential if more than two *dwelling* units on the same site, under control of the same owner/operator. Multiple regulatory agencies regulate asbestos disturbance activities.

Federal, state and local requirements include identification, location, classification and quantification of ACM prior to beginning any renovation or demolition activity. Category I non-friable ACM are exclusively asbestos-containing packings, gaskets, resilient floor coverings and asphalt roofing products that contain more than 1% asbestos. Category II non-friable ACM are all other non-friable materials other than Category I non-friable ACM that contain more than 1% asbestos. NESHAP regulations are concerned specifically with **Regulated ACM (RACM)**, *which include*: all friable ACM; **Category I ACM** that has become friable; **Category I ACM** that will be or has been subject to sanding, grinding, cutting or abrading; and **Category II ACM** that has a high probability of becoming, or has become crumbled, pulverized or reduced to a powder by forces expected to act on the material in the course of renovation or demolition operations.

At the time of this inspection, the identified ACM were assigned NESHAP Classifications based on their existing conditions and the degree of damage that they would, in MC's professional



opinion, experience during "ordinary" removal/demolition/disposal operations. If "extraordinary" removal/demolition/disposal methods are to be undertaken, MC's classifications may not accurately represent an ACM's final condition and additional efforts to fully assess the actual impact of these methods on the materials should be undertaken.

3.8 Regulated Work Practices

The Occupational Safety and Health Administration (OSHA) Asbestos Standard for Construction Industry (29 CFR 1926.1101) regulates workplace exposure to asbestos, and classifies construction and maintenance activities that disturb asbestos. The OSHA standard requires that employee exposure to airborne asbestos fibers be maintained at or below 0.1 fibers per cubic centimeter of air (0.1 f/cc) as an eight hour time weighted average (TWA) and not exceed 1.0 fibers per cubic centimeter of air (1.0 f/cc) over a 30 minute time period known as an excursion limit (EL). The TWA and EL are known as OSHA's permissible exposure limits (PELs).

Disturbance of materials that contain asbestos at concentrations below the 1% regulatory threshold require the following methods of compliance: wet methods; prompt cleanup in leak-tight containers; and personal air monitoring or a Negative Exposure Assessment (NEA).

Disturbance of materials that contain asbestos at concentrations above the 1% regulatory threshold require trained or certified workers are divided into 4 classes of work.

- Class I asbestos work is the most potentially hazardous class of asbestos jobs. This work involves the removal of asbestos-containing TSI and "loosely bound" sprayed-on or troweled-on surfacing materials. Employers must presume that TSI and surfacing material found in pre-1981 construction is ACM. That presumption, however, is rebuttable by bulk sampling.
- Class II work includes the removal of any other types of ACM that are not TSI or "loosely bound" surfacing materials. Examples of Class II work include removal of asbestos-containing floor tiles, ceiling tiles, siding, roofing, Transite® panels, and wallboard systems.
- **Class III** asbestos work includes repair and maintenance operations where ACM or presumed ACM (PACM) are disturbed, and all waste generated from the activity must fit within a single standard 60"x60" waste bag.
- Class IV work includes custodial activities where employees clean up asbestoscontaining waste and debris produced by construction, maintenance, or repair activities. This work involves cleaning dust-contaminated surfaces, High Efficiency Particulate Air (HEPA) vacuuming contaminated carpets, mopping floors, and cleaning up ACM or PACM from thermal system insulation or surfacing material.

A regulated area is a *marked-off* site where employees work with or clean up asbestos, including any adjoining areas where debris and waste from asbestos work accumulates or where airborne concentrations of asbestos exceed, or can possibly exceed, the PEL. Any asbestos hazards should be immediately contained within a *marked-off*, regulated area. Access to personnel and noncertified workers should be restricted, and if applicable, the HVAC system should be isolated, locked-out, and tagged-out. Employers must maintain employee records for asbestos workers concerning objective data, exposure monitoring, and medical surveillance.



4.0 FINDINGS

Asbestos containing materials or materials containing trace (<1%) levels of asbestos were detected in the sampled materials

These samples do not represent a complete asbestos survey at the project site. Areas with no access were not sampled. If other suspect materials are encountered elsewhere at the project site, these materials should be assumed until sufficient sampling and analysis can be performed. Same-day analysis can usually be easily arranged. Regulatory references and guidance are available upon request. See attached sample location diagram in Section 4.0 of this report for the locations where the materials were sampled.



4.1 Bulk Sample Log

<u>Sample</u> <u>Number</u>	Material Sampled	Functional Space	Analytical Results	Friability	Condition	OSHA Class	NESHAP Category	Quantity (If>1%)
1	Gypsum Wallboard System – White, Chalky, Smooth Texture	Interior Walls	ND	Non-Friable	Good	Class II	CAT II	N/A
2	Spray-Applied Texture - White, Chalky, and associated	Interior Wall	Chrysotile (2%)	Non-Friable	Good	Class I	RACM	N/A
3	Vinyl Asbestos Tile - 9" x 9", Gray/Brown, Smooth, and associated	Interior throughout floor including under carpet	Chrysotile (4/6%)	Non-Friable	Good	Class II	RACM	N/A
4	Black BUR with Silver Coat	Roof	Trace	Non-Friable	Good	Class II	CAT II	N/A
5	Gray Caulking at HVAC	Roof	ND	Non-Friable	Good	Class II	CAT II	N/A

5.0 LIMITATIONS AND EXCLUSIONS OF WARRANTY

This investigation was performed using procedures and a level of diligence typically exercised by professional consultants performing similar services. Hidden or changed conditions, activities that may have occurred after the time of the investigation, and possible inaccuracies of information supplied to MC Consultants Inc by others might have a material bearing on the findings, conclusions, and recommendations. MC Consultants Inc reserves the right to change its opinion when new information is encountered.

The procedures used for this survey attempt to establish a balance between the competing goals of limiting investigative costs and time, and reducing the uncertainty about unknown conditions. It would be cost prohibitive to do an exhaustive investigation. Because an exhaustive investigation was not performed or necessary, the recommendations should not be construed as a guarantee that all safety or health hazards that may exist at the subject property have been identified.

No warranty or guarantee, expressed or implied, is made regarding the findings, conclusions or recommendations contained in this report. The limitations presented above supersede the requirements or provisions of all other contracts or scopes of work, implied or otherwise, except as expressly stated or acknowledged herein. MC Consultants Inc is not responsible for the actions other parties involved in this project.

It is expressly agreed that MC Consultants Inc will have no liability to any party for reliance upon any of the findings or recommendations contained in this report. To the extent that this provision is found unenforceable by any court, any liability MC Consultants Inc may have arising out of its agreement with the contracting party is expressly agreed to be limited to the amount paid to MC Consultants Inc.

APPENDIX 1

Laboratory Reports & Chain of Custodies



MC Consultants

13122 S. 178th Ave.

Goodyear, AZ 85338

Attn: Roy Dunn



Aerobiology Laboratory Associates, Inc. 2228 W Northern Ave. Suite B-110 Phoenix, AZ 85021 (602) 441-3700 www.aerobiology.net

Certificate of Analysis Project Name: A19-00183 Mardi Gras 030719

Project ID: 19010031

Date Collected: Date Received: Date Analyzed: Date Reported: Job ID:

03/07/2019 03/15/2019 03/18/2019 03/18/2019

Test:

Client:

Method:

3002 - Asbestos in Bulk Samples EPA-600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Method:	EPA-600/R-93/116: Me	ethod for the Determination of Asbestos in Bulk Build	Asbestos			
Sample	Identification	Physical Description of Sample/Layer	Homo- geneous	Layer Percentage	Asbestos Detected	Asbestos Percentage
Client	Laboratory		(Y/N)			
1-Δ	19010031-001-A	Light Blue Texture W/Cream and White Paint	Ν	4	ND	
170	19010031-001-B	White/Tan Drywall W/White Paint	Ν	96	ND	
1-B	19010031-002	White/Tan Drywall W/White Paint	Ν	100	ND	
1-C	19010031-003	White/Tan Drywall W/White Paint	Ν	100	ND	
1-D	19010031-004	White/Tan Drywall W/White Paint	Ν	100	ND	
1 5	19010031-005-A	White Texture W/White Paint	N	4	ND	
1-1	19010031-005-В	White/Tan Drywall W/White Paint	Ν	96	ND	
1 5	19010031-006-A	Off White Texture W/White Paint	N	2	CHRY	Trace
1-F	19010031-006-В	White/Tan Drywall	N	98	ND	
	19010031-007-A	Off White Texture W/White Paint	N	2	CHRY	Trace
2-A	19010031-007-В	White Texture W/Cream and White Paint	Ν	3	ND	
	19010031-007-C	White/Tan Drywall	N	95	ND	
2-В	19010031-008	Off White Texture W/White Paint	N	100	CHRY	2
2.0	19010031-009-A	Tan Tape	N	40	ND	
2-0	19010031-009-В	Off White Texture W/White Paint	N	60	CHRY	2
2-D	19010031-010	Tan Tape W/Multicolored Paint Layers	N	100	ND	
2.5	19010031-011-A	White Texture W/White Paint	N	25	ND	
2-E	19010031-011-В	Tan Tape W/White Paint	N	75	ND	

Ornes+

Elvira Meister Analyst

Aaron Agajanian Asbestos Laboratory Supervisor

A Amosite AC Actinolite **AN** Anthophyllite CHRY Chrysotile CR Crocidolite TR Tremolite Trace Less Than 1% ND None Detected





Aerobiology Laboratory Associates, Inc. 2228 W Northern Ave. Suite B-110 Phoenix, AZ 85021 (602) 441-3700 www.aerobiology.net

Client: **MC** Consultants 13122 S. 178th Ave. Goodyear, AZ 85338 Attn: Roy Dunn

Certificate of Analysis Project Name: A19-00183 Mardi Gras 030719

Project ID: 19010031

Date Collected: Date Received: Date Analyzed: Date Reported: Job ID:

Г

03/07/2019 03/15/2019 03/18/2019 03/18/2019

Test:

3002 - Asbestos in Bulk Samples EPA-600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Method:	EPA-600/R-93/116: M	ethod for the Determination of Asbestos in Bulk Buildi	ethod for the Determination of Asbestos in Bulk Building Materials			
Sample Io	dentification	Physical Description of Sample/Layer		Layer	Asbestos	Asbestos
Client	Laboratory		(Y/N)	rereentage	Delected	Fercentage
2-5	19010031-012-A	White/Tan Drywall	Ν	45	ND	
2-1	19010031-012-В	Off White Texture W/White Paint		55	CHRY	2
3-0	19010031-013-A	Black Mastic	Ν	2	CHRY	6
3-6	19010031-013-В	Gray/Brown Tile	Ν	98	CHRY	4
4-A	19010031-014	Black Roofing Material W/Silver Paint	Ν	100	CHRY	Trace
4-В	19010031-015	Black Roofing Material W/Silver Paint	N	100	CHRY	Trace
4-C	19010031-016	Black Roofing Material W/Silver Paint	N	100	CHRY	Trace
5-A	19010031-017	Gray Resinous Material	N	100	ND	

Osmers+

Elvira Meister Analyst

Aaron Agajanian Asbestos Laboratory Supervisor

A Amosite AC Actinolite **AN** Anthophyllite CHRY Chrysotile CR Crocidolite TR Tremolite Trace Less Than 1% ND None Detected

Aerobiology Client			HIE NVLAU
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Phone/Fax		PO#/Job#:	
Reporting	aultic Orters	Project Name:	20183
Routine 24 Hour	Same Day 4 He	1 2 <u>Hour</u> Notes:	DI Gras
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1050 Direct, Qua 1005 AIR Culture	litative- Bulk - Bacterial Count w/ ID's	1010 WATER -	Potable - E. coli/total coliforms
1030 AIR Culture 1006 SWAB Cult	- Fungal Count w/ ID's	1028 SWAB - S	ewage Screen (E. coli/Entero/fecal coliform
1031 SWAB Cult	ure - Fungal Count w/ ID's	2056 WATER - 3001 ASBESTO	Heterotrophic Plate Count
1033 BULK Cultu	are - Bacterial Count w/ ID's are - Fungal Count w/ ID's	3002 ASBESTO	S - PLM Analysis
1007 WATER CL	Ilture - Bacterial Count w/ID	3004 ASBESTO	S - PCM Analysis

1010: Page a of							-		D.2
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CC Info: Sample Location Total Volume/Area Total	Routine	24 Hour	Same Day	4 Hour	2 Hour	Notes: Compo	no GuB	TC Farren	ter ten 2%
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3003 ASBESTOS - Particle characterization	1033	BULK Cult	ure - Fungal Count	w/ID's		3003	ASBESTOS - Pa	article characterizati	on
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Washington, D.C. - Atlanta, GA - Denver, CO - Phoenix, AZ - Cherry Hill, NJ - Los Angeles, CA - Ft. Lauderdale, FL - Chicago, IL (877) 648-9150 - (770) 947-2828 - (303) 232-3746 - (602) 441-3700 - (856) 486-1177 - (714) 895-8401 - (954) 451-3725 - (630) 403-6822



Aerobiology Laboratory Associates, Incorporated Expertise Since 1997

Client: MC Consultants 13122 S. 178th Ave. Goodyear, AZ 85338 Attn: Roy Dunn Certificate of Analysis **Project Name: A19-00183 Mardi Gras 030719** Project ID: 19010031

Date Collected: Date Received: Date Analyzed: Date Reported: Iob ID: 03/07/2019 03/15/2019 03/18/2019 03/18/2019

General Notes

- * ND indicates no asbestos was detected; the method detection limit is 1%.
- * Trace or "<1" indicates asbestos was identified in the sample, but the concentration is less than 1%.

* All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals cummingtonite and grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.

* Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.

* These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'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, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.

* Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be performed by a TEM. A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.

Notes Required by NVLAP

* This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.



APPENDIX 2

Asbestos Certifications

THE ASBESTOS INSTITUTE

Certifies that

Deborah Mullins

has attended and received instruction in the EPA approved course

AHERA Building Inspector Refresher

on

January 10, 2019

and successfully completed and passed the competency exam.

ON-4644-7890-011019

Date of Examination: 10-Jan-2019

Date of Expiration: 10-Jan-2020

William T. Cavness

Director

Approved Instructor

THE ASBESTOS INSTITUTE 20033 N. 19th Ave, Building 6, Phoenix, AZ 85027 602-864-6564 – www.theasbestosinstitute.com

This training meets all requirements for asbestos certification under Toxic Substance Control Act Title II.

Limited Hazardous Materials Survey Report

Mardi Gras 24009 104th Avenue Southeast Kent, Washington

Prepared for: King County Housing Authority 600 Andover Park West Seattle, WA 98188

April 8, 2020 PBS Project No. 40573.204



214 EAST GALER STREET SUITE 300 SEATTLE, WA 98102 206.233.9639 MAIN 866.727.0140 FAX PBSUSA.COM

TABLE OF CONTENTS

1	INTRODUCTION	1
	1.1 Project Background	1
	1.2 Survey Process	1
2	FINDINGS	1
	2.1 Asbestos-Containing Materials (ACM)	1
3	RECOMMENDATIONS	1
	3.1 Asbestos-Containing Materials (ACM)	1

APPENDICES

APPENDIX A: PLM Bulk Sampling Information

PLM Bulk Sample Inventory PLM Bulk Sample Laboratory Data Sheets PLM Bulk Sample Chain of Custody Documentation

APPENDIX B: Certifications

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1.1 Project Background

PBS Engineering and Environmental, Inc. (PBS) performed a limited hazardous materials survey of the Mardi Gras Apartments located at 24009 104th Avenue Southeast, Kent, Washington. Accessible building areas included in the scope of work were inspected for the presence of asbestos-containing materials (ACMs) and lead-containing paint (LCP). The intent of this investigation is to ensure that the King County Housing Authority (KCHA) is in compliance with applicable regulatory requirements that a "good faith inspection" for ACMs be performed prior to renovation activities.

At the request of KCHA, all accessible areas that are to be impacted by the planned renovations were inspected for the presence of asbestos-containing materials (ACMs). The survey was limited to the roof.

1.2 Survey Process

Accessible building areas included in the scope of work were inspected by AHERA Certified Building Inspector Ferman Fletcher (Cert. No. IR-20-8539B Exp. 4/1/2021) on April 6, 2020. Inaccessible spaces are those requiring selective demolition (such as chases), fall protection, or confined-space entry protocols to gain access.

When observed, suspect-ACMs were sampled, assigned a unique identification number, and transmitted for analysis to SAT Labs (NVLAP #201057-0) under chain-of-custody protocols. Samples were analyzed according to EPA Method 600R-93/116 using Polarized Light Microscopy (PLM), which has a reliable limit of quantification of 1% asbestos by volume.

While PBS has endeavored to identify or has presumed the presence and type of ACMs in concealed locations, additional unidentified ACMs may exist. Suspect ACMs that were not included in the scope of this investigation may exist.

2 FINDINGS

2.1 Asbestos-Containing Materials (ACM)

PBS collected and analyzed samples of representative suspect materials for asbestos content.

• None of the materials sampled were found to contain detectible asbestos.

Non-Asbestos Containing Materials

The following materials were sampled and **did not** contain detectable asbestos.

- Built-up roofing throughout;
- Grey duct sealant roof-mounted HVAC unit.

See the PLM Asbestos Bulk Sample Inventory and laboratory report included in Appendix A for additional information.

3 RECOMMENDATIONS

3.1 Asbestos-Containing Materials (ACM)

The possibility exist that suspect ACMs may be present at concealed locations in wall and ceiling cavities, within HVAC equipment and potentially in other select concealed areas. These may include, but are not limited to waterproofing membrane, vapor barriers, internal gasketing, mastics, caulking, and sealants on HVAC equipment, construction adhesives, electrical insulators, below grade pipe covering and insulation.



In the event that suspect ACMs not included in this report are encountered during construction, contractors should stop work immediately and inform the Owner promptly for confirmation testing. All untested materials should be presumed asbestos-containing or tested for asbestos content prior to impact.

Report prepared by:

Ferman Fletcher AHERA Building Inspector Cert. No. IR-20-8539B Exp. 4/1/2021

Report reviewed by:

Mark a. Dikey

Mark Hiley Senior Project Manager

APPENDIX A

Asbestos Bulk Sample Data



Mardi Gras King County Housing Authority

PLM ASBESTOS SAMPLE INVENTORY

PBS Engineering + Environmental PBS Project #40573.204

PBS Sample #	<u>Material Type</u>	Sample Location	Lab Description	Lab Result	<u>Lab</u>
40573.204 -01	Silver Paint	North Roof	Layer 1: Silver paint	NAD	SAT
	Built-up Roofing		Layer 2: Black asphaltic material	NAD	
			Layer 3: Black asphaltic material with fibrous material	NAD	
			Layer 4: Black asphaltic material with fibrous material	NAD	
			Layer 5: Black asphaltic material	NAD	
			Layer 6: Brown fibrous material	NAD	
			Layer 7: Black asphaltic material	NAD	
			Layer 8: Brown paper	NAD	
			Layer 9: White foamy material	NAD	
40573.204 -02	Silver Paint	Central Roof	Layer 1: Silver paint	NAD	SAT
	Built-up Roofing		Layer 2: Black asphaltic material	NAD	
			Layer 3: Black asphaltic fibrous material	NAD	
			Layer 4: Black asphaltic material	NAD	
			Layer 5: Black asphaltic fibrous material	NAD	
			Layer 6: Black asphaltic fibrous material	NAD	
			Layer 7: Black asphaltic material	NAD	
			Layer 8: Brown fibrous material	NAD	
40573.204 -03	Silver Paint	East Roof	Layer 1: Silver paint	NAD	SAT
	Built-up Roofing		Layer 2: Black asphaltic material	NAD	
			Layer 3: Black asphaltic fibrous material	NAD	
			Layer 4: Black asphaltic material	NAD	
			Layer 5: Black asphaltic fibrous material	NAD	
			Layer 6: Black asphaltic material	NAD	
			Layer 7: Black asphaltic fibrous material	NAD	
			Layer 8: Black asphaltic material	NAD	
			Layer 9: Brown fibrous material	NAD	
			Layer 10: Brown paper	NAD	
			Layer 11: White foamy material	NAD	
			Layer 12: Black asphaltic fibrous material	NAD	
			Layer 13: Black asphaltic fibrous material	NAD	
40573.204 -04	Grey Duct Sealant	HVAC Unit; Central Roof	Layer 1: Gray soft/elastic material	NAD	SAT

SEATTLE ASBESTOS TEST, LLC

Seattle Laboratory: 4500 9th Ave. NE, Suite 300, Seattle, WA 98105, Tel: 206.633.1111, Fax: 206.633.4747, NVLAP Lab Code: 201057-0

www.seattleasbestostest.com, admin@seattleasbestostest.com

Project Manager: Ferman Fletcher, Eman Jabali Client: PBS Engineering and Environmental, Seattle Address: 214 E Galer Street, Suite 300, Seattle, WA 98102 Tel: 206.233.9639 Date Analyzed: 4/7/2020 Client Job#: 40573.203 Project Location: KCHA: Mardi Gras Laboratory batch#: 202019880 Samples Received: 4

Enclosed please find the test results for the bulk samples submitted to our laboratory for asbestos analysis. Analysis was performed using polarized light microscopy (PLM) in accordance with Test Method US EPA - 40 CFR Appendix E of Part 763, Interim Method of Determination of Asbestos in Bulk Insulation Samples and Test Method US EPA/600/R-93/116.

Percentages for this report are done by visual estimate and relate to the suggested acceptable error ranges by the method. Since variation in data increases as the quantity of asbestos decreases toward the limit of detection, the EPA recommends point counting for samples containing between <1% and 10% asbestos (NESHAP, 40 CFR Part 61). Statistically, point counting is a more accurate method. If you feel a point count might be beneficial, please feel free to call and request one.

The test results refer only to the samples or items submitted and tested. The accuracy with which these samples represent the actual materials is totally dependent on the acuity of the person who took the samples. This report must not be used by the client to claim product certification, approval, or endorsement by Seattle Asbestos Test, LLC, NVLAP, NIST, or any agency of the Federal government. The test report or calibration certificate shall not be reproduced except in full, without written approval of the laboratory.

This report is highly confidential and will not be released without your consent. Samples are archived for 30 days after the analysis, and disposed of as hazardous waste thereafter.

Thank you for using our service and let us know if we can further assist you.

Sincerely

SZhang

Steve (Fanyao) Zhang President

202019880

PBS

Project: KCHA: Mardi Gras		Project #:40573.204
Analysis requested: PLM		Date: <u>4/6/20</u>
Relinq'd by/Signature:	70.7-	Date/Time:4/6/20
Received by/Signature: Corketty	to anythe	Date/Time: 4/6/20 17:05
E-mail results to:		
Brian Stanford	Cel Alvarez	Mike Smith
Willem Mager	Janet Murphy	🔀 Ferman Fletcher
Gregg Middaugh	🗌 Kaitlin Soukup	Holly Tuttle
Mark Hiley	Martin Estira	🔲 Ryan Hunter
Tim Ogden	Justin Day	🖂 Eman Jabali
Prudy Stoudt-McRae	Filmon Embaye	
E-mail all invoices to: seattleap@pbsusa.co	om a	
TURN AROUND TIME:		
1 Hour	24 Hours	3-5 Days
2 Hours	48 Hours	Other
4 Hours		

SAMPLE DATA FORM							
Sample #	Material	Location	Lab				
40573.204-01	Silver Paint/Built-up Roofing	North Roof	SAT				
-02	¢	Central Roof					
-03	ti .	East Roof					
-04	Grey Duct Sealant	HVAC Unit; Central Roof					
-							

SEATTLE ASBESTOS TEST

Seattle Laboratory: 4500 9th Ave. NE, Suite 300, Seattle, WA 98105, Tel: 206.633.1111, Fax: 206.633.4747, NVLAP Lab Code: 201057-0

Disclaimer: This report must not be used by the client to claim product certification, approval, or endorsement by Seattle Asbestos Test, LLC, NVLAP, NIST, or any agency of the Federal government.

ANALYTICAL LABORATORY REPORT PLM by Method EPA/600/R-93/116

			T EN by Method El Ado	0/10/00/110	
Attn.:	Ferman Fletcher, Eman Jabali	Client:	PBS Engineering and Environmental, Seattle	Address:	214 E Galer Street, Suite 300, Seattle, WA 98102
Job#:	40573.203	Batch#:	202019880	Date Received:	4/6/2020
Samples Rec'd:	4	Date Analyzed:	4/7/2020	Samples Analyzed:	4

Project Loc.: KCHA: Mardi Gras



SZhang Reviewed by: Steve (Fanyao) Zhang, President

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
	40573.20-01	1	Silver paint		None detected	Paint, Filler	4	Cellulose
		2	Black asphaltic material		None detected	Asphalt/binder	3	Cellulose
		3	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	60	Cellulose, Synthetic fibers
		4	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	58	Cellulose, Glass fibers
1		5	Black asphaltic material		None detected	Asphalt/binder	3	Cellulose
		6	Brown fibrous material		None detected	Filler	90	Cellulose
		7	Black asphaltic material		None detected	Asphalt/binder	3	Cellulose
		8	Brown paper		None detected	Filler	85	Cellulose
		9	White foamy material		None detected	Synthetic foam		None detected
	40573.20-02	1	Silver paint		None detected	Filler, Paint	2	Cellulose
		2	Black asphaltic material		None detected	Asphalt/binder	3	Cellulose
		3	Black asphaltic fibrous material		None detected	Asphalt/binder, Filler	63	Cellulose, Synthetic fibers
		4	Black asphaltic material		None detected	Asphalt/binder	3	Cellulose
2		5	Black asphaltic fibrous material		None detected	Asphalt/binder, Filler	65	Cellulose, Glass fibers
		6	Black asphaltic fibrous material		None detected	Asphalt/binder, Filler	65	Cellulose, Glass fibers
		7	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		8	Brown fibrous material		None detected	Filler	88	Cellulose
3	40573.20-03	1	Silver paint		None detected	Filler, Paint	2	Cellulose
		2	Black asphaltic material		None detected	Asphalt/binder	3	Cellulose
		3	Black asphaltic fibrous material		None detected	Asphalt/binder, Filler	67	Cellulose, Synthetic fibers
		4	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		5	Black asphaltic fibrous material		None detected	Asphalt/binder, Filler	60	Cellulose, Glass fibers
		6	Black asphaltic material		None detected	Asphalt/binder	3	Cellulose

SEATTLE ASBESTOS TEST

Seattle Laboratory: 4500 9th Ave. NE, Suite 300, Seattle, WA 98105, Tel: 206.633.1111, Fax: 206.633.4747, NVLAP Lab Code: 201057-0

Disclaimer: This report must not be used by the client to claim product certification, approval, or endorsement by Seattle Asbestos Test, LLC, NVLAP, NIST, or any agency of the Federal government.

ANALYTICAL LABORATORY REPORT PLM by Method EPA/600/R-93/116

PLW by Method EPA/600/R-95/116								
Attn.:	Ferman Fletcher, Eman Jabali	Client:	PBS Engineer Environmental	ing and , Seattle		Address:	214 E Galer Street, Suite	300, Seattle, WA 98102
Job#:	40573.203	Batch#:	202019880			Date Received:	4/6/2020	
Samples Rec'd:	4	Date Analyzed:	4/7/2020			Samples Analyzed:	4	
Project Loc.:	KCHA: Mardi Gras				Cn	Yes		SZhang
				Analyzed by	: Carolyn	Yeo/Xingping Lin	Reviewed by:	Steve (Fanyao) Zhang, President

SZhang

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
	40573.20-03	7	Black asphaltic fibrous material		None detected	Asphalt/binder, Filler	66	Cellulose, Glass fibers
		8	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		9	Brown fibrous material		None detected	Filler	83	Cellulose
3		10	Brown paper		None detected	Filler	89	Cellulose
		11	White foamy material		None detected	Synthetic foam		None detected
		12	Black asphaltic fibrous material		None detected	Asphalt/binder, Filler	64	Cellulose, Glass fibers
		13	Black asphaltic fibrous material		None detected	Asphalt/binder, Filler	61	Cellulose, Glass fibers
4	40573.20-04	1	Gray soft/elastic material		None detected	Binder, Filler	3	Cellulose, Polyethylene

APPENDIX B

Inspector Certifications



THIS IS TO CERTIFY THAT

FERMAN L FLETCHER

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
000.000	

Certificate:

04/01/2020

Course Location:

Portland, OR IR-20-8539B

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



CCB #SRA0615 4-Hr Training

CCB #SRA0615 4-Hr Training

Expiration Date: 04/01/2021

ander Fridly

Andy Fridley, Instructor