



ADVANTAGE
Environmental INC.

**PRELIMINARY ASBESTOS
BUILDING MATERIAL SURVEY**

Conducted at:
1300 N River St
Portland, OR 97227



Conducted for:
Environmental Quality Management
1800 Carillon Blvd
Cincinnati, OH 45240

Prepared By:
Advantage Environmental Inc.
9317 NE Hwy 99, Suite A
Vancouver, WA 98665



Clean your world.

November 14, 2017

Jerry Wade
1800 Carillon Blvd
Cincinnati, OH 45240
503-953-5263
wade1109@msn.com

RE: Preliminary asbestos building material survey: 1300 N River St, Portland, OR

Dear Mr. Wade,

Advantage Environmental, Inc., (AEI) has completed a preliminary asbestos building material survey of the burn cell located at 1300 N River St in Portland, OR. The results of the survey are provided in the accompanying report.

Thank you for choosing AEI for this project. Please feel free to contact us at (360) 356-7628 if you have any questions.

Respectfully,
Advantage Environmental, Inc.

Pete Coleman
Office Manager

1. INTRODUCTION

Advantage Environmental, Inc. (AEI) was retained by Environmental Quality Management to perform a preliminary asbestos building material survey of the property located at 1300 N River St in Portland, OR. The on-site inspection was performed by EPA/AHERA accredited building inspector Sidney Carter on October 26, 2017, October 27, 2017 and November 1, 2017.

2. BUILDING DESCRIPTION

The structure is a former 75,000 sq. ft. commercial warehouse on pier foundation consisting of wood pilings. Interior walls and ceilings consisted of wood and flooring was comprised of wood with asphalt overlay.

3. PURPOSE AND SCOPE

The purpose of this survey was to identify the location of asbestos containing material prior to removal disposal of the remaining deck. The scope of work included a walk-through inspection, bulk sampling and analysis of specific suspect asbestos-containing materials from the deck and face of the deck, a written report documenting the results of the materials in the survey. This survey is a preliminary survey and added sampling may be required. Materials are identified within appendix A.

This is not a bidding document and all quantities of asbestos containing material should be verified by the abatement contractor prior to submitting their bid.

4. VISUAL ASSEMENT AND FINDINGS

Our survey activities began with visual observation of the area to identify homogeneous areas of suspect asbestos containing material. Assessments were conducted throughout visually accessible areas of the area.

Building material identified as concrete, glass, wood, masonry, metal or rubber were not considered suspect asbestos containing material.

Unidentified asbestos-containing materials may be in other areas not yet tested or may be in inaccessible areas.

A table indicating sample numbers, material description, material location, material condition and asbestos content of each material sampled is included in Appendix A. Laboratory analytical results and chain of custody documentation are included in Appendix B. AHERA Building inspector credentials are included in Appendix C.

Suspect asbestos-containing material sampled and analyzed included:

- Black asphalt
- Black mastic/tar
- Gray coating
- Black debris

The following material contains less than 1% asbestos content when analyzed.

Material Type	Material Location
Black debris	Presumed throughout the surface of the deck

***Due to high risk of personnel and/or environmental exposure/contamination; regulatory agencies advise use of licensed asbestos abatement contractors for removal of <1% asbestos containing material. Material containing less than 1% asbestos content are not quantified.*

Of the suspect asbestos-containing material sampled, laboratory analysis indicated the following material contained asbestos content of 1% or greater. These materials will need to be removed prior to disturbance, or demolition activities that may impact these materials.

Material Type	Material Location	Approximate Quantity**	Friable Yes / No*
Black mastic/tar	Presumed to be on the east perimeter of the deck. (front and sides of trusses)	~Not Quantified	No

Note: A diligent inspection was conducted and every effort was made to inspect and investigate all areas of the deck previously mentioned herein. However, unidentified asbestos-containing material may still be in place in other areas of the structure inspected that were inaccessible/not included at the time of this survey.

*Friability based on material condition at time of inspection.

5. SAMPLING METHODOLOGY

A walk-through of the property was conducted by an EPA/AHERA accredited building inspector to identify the location of suspect asbestos-containing material. The location, approximate quantity and condition of each material were recorded on field data sheets. Bulk samples of each suspect material were then collected and submitted to the laboratory under chain of custody documentation for analysis of asbestos content.

Samples were collected from selected homogeneous material to evaluate the presence or absence of asbestos in each material. Determination of homogeneous material included material type, texture, pattern, color, and size. A total of 35 suspect asbestos-containing material samples were analyzed including sub-layers.

All samples collected by AEI were placed into pre-labeled airtight containers and shipped to Quantem Laboratories for analysis of asbestos content. Quantem Laboratories analyzed the samples using Polarized Light Microscopy (PLM) with dispersion staining to identify asbestos constituents as required by EPA regulation 40 CFR, Part 763.

6. DISCUSSION & RECOMMENDATIONS

Mastic

Samples of the mastic were collected from the Front/East side of the trusses and beneath the asphalt deck. Laboratory results indicate samples 1D,1E,1H contain 10% chrysotile asbestos content and has been identified at the Front/East side of the structure. The material is a tar based mastic and is applied to the fronts and top portions of some of the trusses. This material is present approximately one foot inside the Front/East side edge of the deck. Additional destructive sampling/investigation should be performed to confirm that this material is not present in other areas of the structure/deck. The additional sampling for the mastic that is under the asphalt flooring of the deck has shown to be negative for asbestos. Additional sampling should be performed to confirm that the material is negative as well.

Debris

Sampling of the debris were collected after initial cleaning of the deck had been completed. Laboratory results indicated less than 1% chrysotile asbestos content for the debris samples 15A-27A. This material appears to be throughout the deck where sampled and is debris based, mixed with the residual material that is remaining on the deck. Laboratory results indicated less than 1% asbestos content, it would no longer be regulated by

Oregon Department of Environmental Quality (DEQ) recommends certified asbestos abatement workers and supervisors handle and dispose of materials containing any amounts of asbestos. Oregon OSHA regulations (29 CFR 1926.1001) states that if asbestos containing material, containing less than 1% asbestos is to be removed by construction personnel; the employer shall provide awareness training, a written respirator protection program, respirators and a negative exposure assessment. AEI recommends additional sampling/investigation be performed in other areas of the deck to ensure that the debris is less than one percent asbestos.

Cleaning

AEI recommended that the Front/East side of the deck that contains asbestos mastics be removed and loaded out as Asbestos Containing Material, with certified workers and supervisors on site. AEI also recommended that after the initial cleaning is completed, that vacuuming of the deck be performed and additional testing be completed at that time.

Deck Removal

Current sampling results indicate that the deck is still contaminated with <1% asbestos containing debris and it is AEI's recommendation that all of the decking material be treated as ACM and placed into poly lined dumpsters or trucks for transport. Further AEI recommends the certified asbestos workers and supervisors be on site during removal of all ACM. During the removal of the decking material, perimeter area air sampling and personal air sampling should be performed on a daily basis.

Any material encountered that is not specifically mentioned in this report should be considered asbestos containing until sufficient sampling has been completed to determine that these materials are non-asbestos containing.

The Occupational Safety and Health Administration (OSHA) classify the removal or disturbance of asbestos containing material as Class I and Class II asbestos abatement projects. The removal of asbestos containing material requires the use of appropriate engineering controls, by a contractor licensed by the State of Oregon. The work methods utilized must include the use of wet methods.

Materials containing asbestos content of greater than 1%, must be removed by a licensed asbestos abatement contractor prior to any demolition or repair work that will impact those material.

OSHA regulations (29 CFR 1926.1001) states that if asbestos containing material, containing <1% asbestos is to be removed by construction personnel; the employer shall provide awareness training, a written respirator protection program, respirators and a negative exposure assessment.

Additionally, OSHA regulations (29 CFR 1926.1101) require employers to meet standards regarding personal protection, labeling, signs, daily air monitoring, use of engineering controls, notification, and respiratory protection for all activities related to the removal or disturbance of asbestos containing building material.

***EPA recommends that bulk material found negative for asbestos or less than one percent asbestos by polarized light microscopy be reanalyzed by and additional method such as transmission electron microscopy.*

7. WARRANTY

Advantage Environmental Inc. warrants that this report has been prepared in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances. No other warranties are implied or expressed.

APPENDIX A
Material Summary Table

1300 N River St-Portland, OR

Material Summary Table

Sample Number	Material Description	Sample Location	Condition if applicable	Asbestos Content
1A	Black asphalt	A10 Southside of pit/top of deck leading edge	Good Good	Asbestos Not Present
	Black mastic/tar	A10 Southside of pit/top of deck leading edge		Asbestos Not Present
1B	Black mastic/tar	A10 Southside of pit/top of deck leading edge		Asbestos Not Present
1C	Black mastic/tar	A10 Southside of pit/top of deck leading edge		Asbestos Not Present
1D	Black mastic/tar	A9-Southside of pit on face of beam		10% Chrysotile
1E	Black mastic/tar	A9-Southside of pit on top of beam under deck		10% Chrysotile
1F	Gray coating	A9-loadout on top of bottom plate		Asbestos Not Present
	Black mastic/tar	A9-loadout on top of bottom plate		Asbestos Not Present
1G	Black mastic/tar	A6-on top of deck at leading edge	Good	Asbestos Not Present
1H	Black mastic/tar	A6-on top of beam		10% Chrysotile
2A	Black asphalt	A13-on deck leading edge		Asbestos Not Present
	Black mastic/tar	A13-on deck leading edge		Asbestos Not Present
2B	Black mastic/tar	A13-on deck below asphalt		Asbestos Not Present
3A	Black mastic/tar	C5-at opening to piling below 1 st layer of asphalt		Asbestos Not Present
3B	Black mastic/tar	C5-at opening to piling below asphalt on deck		Asbestos Not Present
4A	Black mastic/tar	J5-at opening to piling below asphalt on deck		Asbestos Not Present
5A	Black mastic/tar	J6-below asphalt on deck		Asbestos Not Present
6A	Black mastic/tar	H6-below asphalt on deck		Asbestos Not Present
7A	Black mastic/tar	D6-below asphalt on deck		Asbestos Not Present
8A	Black mastic/tar	D5-at opening to piling below asphalt on deck		Asbestos Not Present
8B	Black mastic/tar	D5-at opening to piling below 1 st layer of asphalt		Asbestos Not Present
9A	Black asphalt	D13-below asphalt on deck		Asbestos Not Present
	Black mastic/tar	D13-below asphalt on deck		Asbestos Not Present
15A	Black debris	1st piling on deck	Good	<1% Chrysotile
16A	Black debris	E6-on deck	Good	<1% Chrysotile

Sample Number	Material Description	Sample Location	Condition if applicable	Asbestos Content
17A	Black debris	G7-on deck	Good	<1% Chrysotile
18A	Black debris	C3-on deck	Good	<1% Chrysotile
19A	Black debris	3 rd piling	Good	<1% Chrysotile
20A	Black debris	4 th piling	Good	<1% Chrysotile
21A	Black debris	Mid-span of trestle-2 to 3 pilings	Good	<1% Chrysotile
22A	Black debris	A9-on deck	Good	<1% Chrysotile
24A	Black debris	A10-on deck	Good	<1% Chrysotile
25A	Black debris	F5-on deck	Good	<1% Chrysotile
26A	Black debris	Next to 1 st piling	Good	<1% Chrysotile
27A	Black debris	Next to ramp	Good	<1% Chrysotile

APPENDIX B
Laboratory Analytical Results
Chain of Custody



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuantEM Lab No. 286893	Client: Advantage Environmental, Inc.
Account Number: B513	P.O. Box 1026
Date Received: 10/31/2017	Camas, WA 98607
Received By: Karen Braley	
Date Analyzed: 10/31/2017	Project: EQM
Analyzed By: Cassie Sanborn	Project Location: 1525 North River Street Portland, OR
Methodology: EPA/600/R-93/116	Project Number: N/A

QuantEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	1A	Layered	Black Asphalt	Asbestos Not Present	NA	Clay Sand Tar
001a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
002	1B	Homogeneous	Black Mastic	Asbestos Not Present	Cellulose 20	Tar
003	1C	Homogeneous	Black Mastic	Asbestos Not Present	Cellulose 80	Tar
004	1D	Homogeneous	Black Mastic	Asbestos Present Chrysotile 10	Cellulose 40	Tar Sand
005	1E	Homogeneous	Black Mastic	Asbestos Present Chrysotile 10	Cellulose 40	Tar Sand
006	1F	Layered	Gray Coating	Asbestos Not Present	NA	Vinyl

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Received By: Karen Braley	
Date Analyzed: 10/31/2017	Project: EQM
Analyzed By: Cassie Sanborn	Project Location: 1525 North River Street Portland, OR
Methodology: EPA/600/R-93/116	Project Number: N/A

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
006a		Layered	Black Mastic	Asbestos Not Present	NA	Tar Sand
007	1G	Homogeneous	Black Mastic	Asbestos Not Present	NA	Tar Sand
008	1H	Homogeneous	Black Mastic	Asbestos Present Chrysotile 10	Cellulose 40	Tar Sand
009	2A	Layered	Black Asphalt	Asbestos Not Present	NA	Clay Sand Tar
009a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
010	2B	Homogeneous	Black Mastic	Asbestos Not Present	NA	Tar Sand

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 286893	Client: Advantage Environmental, Inc.
Account Number: B513	P.O. Box 1026
Date Received: 10/31/2017	Camas, WA 98607
Received By: Karen Braley	
Date Analyzed: 10/31/2017	Project: EQM
Analyzed By: Cassie Sanborn	Project Location: 1525 North River Street Portland, OR
Methodology: EPA/600/R-93/116	Project Number: N/A

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
011	3A	Homogeneous	Black Mastic	Asbestos Not Present	NA	Tar Sand
012	3B	Homogeneous	Black Mastic	Asbestos Not Present	NA	Tar Sand
013	4A	Homogeneous	Black Mastic	Asbestos Not Present	NA	Tar Sand
014	5A	Homogeneous	Black Mastic	Asbestos Not Present	Cellulose 60	Tar
015	6A	Homogeneous	Black Mastic	Asbestos Not Present	Cellulose 60	Tar
016	7A	Homogeneous	Black Mastic	Asbestos Not Present	Cellulose 60	Tar
017	8A	Homogeneous	Black Mastic	Asbestos Not Present	NA	Tar Sand

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Date Analyzed: 10/31/2017	Project: EQM
Analyzed By: Cassie Sanborn	Project Location: 1525 North River Street Portland, OR
Methodology: EPA/600/R-93/116	Project Number: N/A

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
018	8B	Homogeneous	Black Mastic	Asbestos Not Present	NA	Tar Sand
019	9A	Layered	Black Asphalt	Asbestos Not Present	NA	Tar Sand
019a		Layered	Black Mastic	Asbestos Not Present	NA	Tar

Cassie Sanborn

Cassie Sanborn, Analyst

10/31/2017

Date of Report

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ASBESTOS CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only	
Lab No.	<u>286893</u>
<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Reject
Report Results (<input checked="" type="checkbox"/> one box)	
<input type="checkbox"/> Quantem Website	
<input type="checkbox"/> Email <u>sid.carter@advantage-enviro.com</u>	
<input type="checkbox"/> Other _____	

Contact Information		Project Information	
Company: Advantage Environmental	Phone:	Project Name: EQM	
Contact: Sidney Carter	Cell Phone: (503) 522-1369	Project Location: 1525 North River Street Portland, OR	
Account #: B513	E-mail: <u>sid.carter@advantage-enviro.com</u>	Project ID:	
SAMPLED BY: Name: Sidney Carter	Date: 10/26-27/2017	P.O. Number:	

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
<i>Sidney Carter</i>	<i>10/30/17 3pm</i>	<i>FEDEX</i>	<i>K Bradley</i>	<i>10-31-17 10:00</i>

REQUESTED SERVICES (Please the Appropriate Boxes)

PLM	PLM	TEM	TEM	TURNAROUND TIME
<input checked="" type="checkbox"/> Bulk Analysis (EPA 600/R-93/116)	<input type="checkbox"/> Vermiculite Attic Insulation (EPA 600/R-04/004)	<input type="checkbox"/> Air- AHERA	<input type="checkbox"/> Bulk- Presence / Absence EPA600/R-93/116	<input type="checkbox"/> Rush
<input type="checkbox"/> 400 Point Count	<input type="checkbox"/> Other	<input type="checkbox"/> Air- NIOSH 7402	<input type="checkbox"/> Bulk- Quantitative [weight%]- Chatfield	<input checked="" type="checkbox"/> Same Day *
<input type="checkbox"/> 1000 Point Count		<input type="checkbox"/> Air- ISO 10312	<input type="checkbox"/> Dust- Presence / Absence	<input checked="" type="checkbox"/> 24 - Hour
<input type="checkbox"/> Gravimetric Preparation	PCM	<input type="checkbox"/> Drinking Water- EPA 100.2	<input type="checkbox"/> Dust- Quantitative [fibers/sq.cm]- ASTM D5755	<input type="checkbox"/> 3 - Day
<input type="checkbox"/> Particle ID	<input type="checkbox"/> NIOSH 7400	<input type="checkbox"/> Waste Water- EPA 600/4-83-043	<input type="checkbox"/> Other	<input type="checkbox"/> 5 - Day

No.	Sample ID (10 Characters Max)	<input checked="" type="checkbox"/> To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
1	1A	<input checked="" type="checkbox"/>	Black	Asphalt With mastic/Tar		A10 South side of pit top of deck leading edge
2	1B	<input checked="" type="checkbox"/>	Black	Mastic/Tar		A10 South side of pit top of deck leading edge
3	1C	<input checked="" type="checkbox"/>	Black	Mastic/Tar		A10 South side of pit on top of beam debris
4	1D	<input checked="" type="checkbox"/>	Black	Mastic/Tar		A9 South side of pit on face of beam
5	1E	<input checked="" type="checkbox"/>	Black	Mastic/Tar		A9 South side of pit on top of beam under deck
6	1F	<input checked="" type="checkbox"/>	Gray	Gray coating		A9 at load out on top of bottom plate
7	1G	<input checked="" type="checkbox"/>	Black	Mastic/Tar		A6 on top of deck at leading edge
8	1H	<input checked="" type="checkbox"/>	Black	Mastic/Tar		A6 on top of beam
9	2A	<input checked="" type="checkbox"/>	Black	Asphalt With mastic/Tar		A13 on deck leading edge
10	2B	<input checked="" type="checkbox"/>	Black	Mastic/Tar		A13 on deck under asphalt

SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"

Please Note - UPS and USPS are NOT available for Saturday Delivery

KB 10-31-17 s/w Sidney - he sd. Change TAT to Same day + disregard extra 8A+8B + missing 10,11,12 - he sd void them as not sent.



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 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

For Lab Use Only	
Lab No.	<u>286893</u>
<input checked="" type="radio"/> Accept	<input type="radio"/> Reject

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Project Information		
Company: Advantage Environmental	Project Name: EQM	Project Location: 1525 North River Street Portland, OR

No.	Sample ID (10 Characters Max)	<input checked="" type="checkbox"/> To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
11	3A	<input checked="" type="checkbox"/>	Black	Mastic/Tar		C5 at opening to piling under 1st layer of asphalt
12	3B	<input checked="" type="checkbox"/>	Black	Mastic/Tar		C5 at opening to piling under asphalt on deck
13	4A	<input checked="" type="checkbox"/>	Black	Mastic/Tar		J5 at opening to piling under asphalt on deck
14	5A	<input checked="" type="checkbox"/>	Black	Mastic/Tar		J6 under asphalt on deck
15	6A	<input checked="" type="checkbox"/>	Black	Mastic/Tar		H6 under asphalt on deck
16	7A	<input checked="" type="checkbox"/>	Black	Mastic/Tar		D6 under asphalt on deck
17	8A	<input checked="" type="checkbox"/>	Black	Mastic/Tar		D5 at opening to piling under asphalt on deck
18	8B	<input checked="" type="checkbox"/>	Black	Mastic/Tar		D5 at opening to piling under 1st layer of asphalt
19	9A	<input checked="" type="checkbox"/>	Black	Asphalt With Mastic/Tar		D13 under asphalt on deck
* 20	10A	<input checked="" type="checkbox"/>	Black	Mastic/Tar		E13 under asphalt on deck
* 21	11A	<input checked="" type="checkbox"/>	Black	Mastic/Tar		F13 under asphalt on deck
* 22	12A	<input checked="" type="checkbox"/>	Black	Mastic/Tar		G13 under asphalt on deck
23		<input type="checkbox"/>				
24		<input type="checkbox"/>				
25		<input type="checkbox"/>				
26		<input type="checkbox"/>				
27		<input type="checkbox"/>				
28		<input type="checkbox"/>				
29		<input type="checkbox"/>				
30		<input type="checkbox"/>				

* * 20 - 22 - 10A, 11A, 12A - No sample sent



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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 287116	Client: Advantage Environmental, Inc.
Account Number: B513	P.O. Box 1026
	Camas, WA 98607
Date Received: 11/06/2017	
Received By: Karen Braley	
Date Analyzed: 11/06/2017	Project: EQM EPA
Analyzed By: Dee Ammerman	Project Location: 1525 North River St. Portland, OR
Methodology: EPA/600/R-93/116	Project Number: N/A

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	15A	Homogeneous	Black Debris	Asbestos Present Chrysotile <1	Cellulose	5 Tar Sand
002	16A	Homogeneous	Black Debris	Asbestos Present Chrysotile <1	Cellulose	3 Tar Sand
003	17A	Homogeneous	Black Debris	Asbestos Present Chrysotile <1	Cellulose	5 Tar Sand
004	18A	Homogeneous	Black Debris	Asbestos Present Chrysotile <1	Cellulose Glass Fiber	5 Tar 2 Sand
005	19A	Homogeneous	Black Debris	Asbestos Present Chrysotile <1	Cellulose	5 Tar Sand
006	20A	Homogeneous	Black Debris	Asbestos Present Chrysotile <1	Cellulose Glass Fiber	8 Tar 2 Sand
007	21A	Homogeneous	Black Debris	Asbestos Present Chrysotile <1	Cellulose	5 Tar Sand

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

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	Camas, WA 98607
Date Received: 11/06/2017	
Received By: Karen Braley	
Date Analyzed: 11/06/2017	Project: EQM EPA
Analyzed By: Dee Ammerman	Project Location: 1525 North River St. Portland, OR
Methodology: EPA/600/R-93/116	Project Number: N/A

QuantEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
008	22A	Homogeneous	Black Debris	Asbestos Present Chrysotile <1	Cellulose	8 Tar Sand
009	VOID	**	** **	**	Not Analyzed	
No Sample Received						
010	24A	Homogeneous	Black Debris	Asbestos Present Chrysotile <1	Cellulose	5 Tar Sand
011	25A	Homogeneous	Black Debris	Asbestos Present Chrysotile <1	Cellulose Glass Fiber	5 Tar 2 Sand
012	26A	Homogeneous	Black Debris	Asbestos Present Chrysotile <1	Cellulose Glass Fiber	5 Tar 2 Sand
013	27A	Homogeneous	Black Debris	Asbestos Present Chrysotile <1	Cellulose Glass Fiber	8 Tar 2 Sand

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Date Analyzed: 11/06/2017	Project: EQM EPA
Analyzed By: Dee Ammerman	Project Location: 1525 North River St. Portland, OR
Methodology: EPA/600/R-93/116	Project Number: N/A

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
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Dee Ammerman

Dee Ammerman, Analyst

11/6/2017

Date of Report

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

Quantem is a NVLAP accredited PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



ASBESTOS CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

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For Lab Use Only	
Lab No. <u>287116</u>	
<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Reject

Contact Information		Project Information	
Company: Advantage Environmental	Phone:	Project Name: EQM EPA	
Contact: Sidney Carter	Cell Phone: (503) 522-1369	Project Location: 1525 North River St. Portland, OR	
Account #: B513	E-mail: sid.carter@advantage-enviro.com	Project ID:	
SAMPLED BY: Name: Sidney Carter	Date: 11/1/2017	P.O. Number:	

Report Results (☑ one box)	
<input type="checkbox"/> QuanTEM Website	
<input type="checkbox"/> Email <u>sid.carter@advantage-enviro.com</u>	
<input type="checkbox"/> Other _____	

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
<i>Sidney Carter</i>	<i>10/3/17 3pm</i>	<i>FEDEX</i>	<i>H. Bradley</i>	<i>11-6-17 9:45</i>

REQUESTED SERVICES (Please ☑ the Appropriate Boxes)

PLM		PLM		TEM		TEM		TURNAROUND TIME	
<input checked="" type="checkbox"/> Bulk Analysis (EPA 600/R-93/116)	<input type="checkbox"/> Vermiculite Attic Insulation (EPA 600/R-04/004)	<input type="checkbox"/> Air- AHERA	<input type="checkbox"/> Bulk- Presence / Absence EPA600/R-93/116	<input type="checkbox"/> Air- NIOSH 7402	<input type="checkbox"/> Bulk- Quantitative [weight%]- Chatfield	<input type="checkbox"/> Rush	<input type="checkbox"/> Same Day	<input checked="" type="checkbox"/> 24 - Hour	<input type="checkbox"/> 3 - Day
<input type="checkbox"/> 400 Point Count	<input type="checkbox"/> Other	<input type="checkbox"/> Air- ISO 10312	<input type="checkbox"/> Dust- Presence / Absence	<input type="checkbox"/> Drinking Water- EPA 100.2	<input type="checkbox"/> Dust- Quantitative [fibers/sq.cm]- ASTM D5755	<input type="checkbox"/> 5 - Day			
<input type="checkbox"/> 1000 Point Count		<input type="checkbox"/> Waste Water- EPA 600/4-83-043	<input type="checkbox"/> Other						
<input type="checkbox"/> Gravimetric Preparation	<input type="checkbox"/> NIOSH 7400								
<input type="checkbox"/> Particle ID									

No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
1	15A	<input checked="" type="checkbox"/>	Black	Debris		1st piling on deck
2	16A	<input checked="" type="checkbox"/>	Black	Debris		E6 on deck
3	17A	<input checked="" type="checkbox"/>	Black	Debris		G7 on deck
4	18A	<input checked="" type="checkbox"/>	Black	Debris		C3 on deck
5	19A	<input checked="" type="checkbox"/>	Black	Debris		3rd piling
6	20A	<input checked="" type="checkbox"/>	Black	Debris		4th piling
7	21A	<input checked="" type="checkbox"/>	Black	Debris		Mid span of trestle 2-3 pilings
8	22A	<input checked="" type="checkbox"/>	Black	Debris		A9 on deck
9	23A	<input checked="" type="checkbox"/>	Black	Debris		A10 on deck
10	24A	<input checked="" type="checkbox"/>	Black	Debris		C7 on deck

SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"

Please Note - UPS and USPS are NOT available for Saturday Delivery

10. 11/1/17 sid + 11m pg. 11/1/17 #9 = 23A



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For Lab Use Only	
Lab No.	<u>287116</u>
<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Reject

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Project Information						
Company: Advantage Environmental			Project Name: EQM EPA		Project Location: 1525 North River St. Portland, OR	
No.	Sample ID (10 Characters Max)	<input checked="" type="checkbox"/> To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
11	25A	<input checked="" type="checkbox"/>	Black	Debris		F5 on deck
12	26A	<input checked="" type="checkbox"/>	Black	Debris		Next to first piling
13	27A	<input checked="" type="checkbox"/>	Black	Debris		Next to ramp
14		<input checked="" type="checkbox"/>				
15		<input type="checkbox"/>				
16		<input type="checkbox"/>				
17		<input type="checkbox"/>				
18		<input type="checkbox"/>				
19		<input type="checkbox"/>				
20		<input type="checkbox"/>				
21		<input type="checkbox"/>				
22		<input type="checkbox"/>				
23		<input type="checkbox"/>				
24		<input type="checkbox"/>				
25		<input type="checkbox"/>				
26		<input type="checkbox"/>				
27		<input type="checkbox"/>				
28		<input type="checkbox"/>				
29		<input type="checkbox"/>				
30		<input type="checkbox"/>				

SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"
 Please Note - UPS and USPS are NOT available for Saturday Delivery

APPENDIX C
AHERA Building Inspector
Certification

Certificate of Completion

This is to certify that
Sidney Carter
has satisfactorily completed
4 hours of training as a
AHERA Building Inspector

to comply with the training requirements of
TSCA Title II, 40 CFR 763 (AHERA)

1627809
Certificate Number



Jun 14, 2017
Date(s) of Training

Expires in 1 year.

Exam Score:
If appropriate:

A handwritten signature in black ink, appearing to read "John S. [unclear]", written over a horizontal line.

Instructor

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