

# ASBESTOS INSPECTION REPORT

For  
Demolition  
At

**122 Carson Ave.  
La Junta, CO 81050**



Report By:

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Project# 17-2984

All-Phase Environmental Consultants, Inc.

Confidential

**Subject Property:**

122 Carson Ave  
La Junta, CO 81050

**Date(s) of Inspection:**            January 18, 2018

**Date(s) of Report:**                February 12, 2018

**\*This document is not intended to be used as a bid spec, work plan, scope of work or similar**

**I. Introduction:**

The Subject Property is a two-story structure, approximately 4,060 ft<sup>2</sup> and comprised of brick/mortar exterior walls, wood framed interior walls with concrete foundation. Observed building materials are textured plaster/drywall and linoleum.

***Regulatory Compliance:***

Asbestos surveys follow guidelines established under the U.S. Environmental Protection Agency's (USEPA) Asbestos Hazard and Response Act (AHERA) program and as required by USEPA regulation 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAP). Bulk sampling of suspected ACMs shall be performed in strict accordance with Asbestos Hazard Emergency Response Act (AHERA) sampling procedures detailed in 40 Code of Federal Regulations (CFR) 763.86. These include but aren't limited to labeling each sample, recording on a chain of custody, taking a photo of the sample and recording the location on a site diagram. Any Demolition and/or Renovation work could disturb materials that contain asbestos and put unprotected workers at risk, violating asbestos regulations, which are enforced by OSHA, EPA, CDPHE and the Otero County Health Department. ***An Asbestos inspection should always be acquired before of any type of remodeling or demolition work occurs.***

The EPA and the CDPHE define asbestos containing materials (ACM's) as any materials which tests positive at greater than (>) 1% asbestos. According to AHERA, EPA, and the CDPHE, materials testing at less than (<) or equal to 1% asbestos fibers are not considered to be an ACM. Any friable confirmed *asbestos containing materials* (ACM's) will have to be removed by a licensed Colorado Asbestos Abatement Contractor (prior to being disturbed). **All materials that could be impacted by the future renovation analyzed are less than 1% asbestos, therefore are not regulated or considered an ACM.**

Suspect materials are divided into two types, **friable** and **non-friable**, based upon the material's consistency. **Friable** is a material that, when dry, can be reduced to a powder or crumbled by finger (hand) pressure only, thereby rendering the material friable and allowing suspected asbestos fibers to become airborne. Friable materials produce a human health risk if the fibers are asbestos. When airborne the asbestos can be inhaled into the lungs causing future health problems and risks. **Non-friable** materials are miscellaneous building materials that in composition are hard and cannot be easily

disturbed, and do not present a human health risk, unless activities such as crushing, sanding, or any activity that damages in a destructive way, such as during a demolition, causes its condition to become friable.

## **II. Field Data & Lab Results:**

**Red = Positive ACM**

**Blue = OSHA Regulated**

**PS=Positive Stop due to sample analyzing above 1%**

**Sample Location Diagram for room numbers and sample locations in Appendix 2**

- The Textured Plaster (1A-1C) located in room 11 of the Subject Property was confirmed to be ACM by Point Count method:
  - *CAR-R11-1A-Texture is 2% Chrysotile (PC-2.00%)*
  - *CAR-R11-1B-Texture is 2% Chrysotile (PS)*
  - *CAR-R11-1C-Texture is 2% Chrysotile (PS)*

The materials assessed were in significantly damaged condition at the time of the inspection and friable.

- The Textured Plaster (2A-2C) located in room 12 of the Subject Property was confirmed to be ACM by Point Count method:
  - *CAR-R12-2A-Texture 1 is <1% Chrysotile (PC-0.50%)*
  - *CAR-R12-2A-Texture 2 is 2% Chrysotile (PC-1.00%)*
  - *CAR-R12-2B-Texture is 2% Chrysotile (PC-2.25%)*
  - *CAR-R12-2C-Texture is 2% Chrysotile (PS)*

The materials assessed were in significantly damaged condition at the time of the inspection and friable.

- The Textured Plaster (3A-3C) located in room 8 of the Subject Property was confirmed to be ACM by Point Count method:
  - *CAR-R8-3A-Texture is 2% Chrysotile (PC-2.00%)*
  - *CAR-R8-3B-Texture is 2% Chrysotile (PS)*
  - *CAR-R8-3C-Texture is 2% Chrysotile (PS)*

The materials assessed were in significantly damaged condition at the time of the inspection and friable.

- The Textured Plaster (4A-4C) located in room 10 of the Subject Property was confirmed to be OSHA Regulated by Point Count method:
  - *CAR-R10-4A is <1% Chrysotile (PC-<0.25%)*
  - *CAR-R10-4B is <1% Chrysotile (PC-<0.25%)*
  - *CAR-R10-4C is Homogeneous*

The materials assessed were in significantly damaged condition at the time of the inspection and friable.

- The Textured Drywall (5A-5C) located in room 4 of the Subject Property was confirmed to be ACM by Point Count method:
  - *CAR-R8-5A-Texture is 2% Chrysotile (PC-1.50%)*
  - *CAR-R8-5B-Texture is 2% Chrysotile (PS)*
  - *CAR-R8-5C-Texture is 2% Chrysotile (PS)*

The materials assessed were in good condition at the time of the inspection and friable.

- The Textured Plaster (8A-8C) located in room 5 of the Subject Property was confirmed to be ACM by Point Count method:
  - *CAR-R5-8A-Texture 1 is 2% Chrysotile (PC-2.00%)*
  - *CAR-R5-8B-Texture 1 is 2% Chrysotile (PS)*
  - *CAR-R5-8C-Texture is 2% Chrysotile (PS)*

The materials assessed were in significantly damaged condition at the time of the inspection and friable.

- The Textured Plaster (9A-9C) located in room 7 of the Subject Property was confirmed to be ACM by Point Count method:
  - *CAR-R7-9A-Texture 1 is 2% Chrysotile (PC-2.25%)*
  - *CAR-R7-9B-Texture 1 is 2% Chrysotile (PS)*
  - *CAR-R7-9C-Texture is 2% Chrysotile (PS)*

The materials assessed were in significantly damaged condition at the time of the inspection and friable.

- The Textured Plaster (10A-10C) located in room 3 of the Subject Property was confirmed to be ACM by Point Count method:
  - *CAR-R3-10A-Texture is 2% Chrysotile (PC-0.75%)*
  - *CAR-R3-10B-Texture is 2% Chrysotile (PC-1.50%)*
  - *CAR-R3-10C-Texture is 2% Chrysotile (PS)*

The materials assessed were in significantly damaged condition at the time of the inspection and friable.

- The Textured Plaster (11A-11C) located in room 2 of the Subject Property was confirmed to be ACM by Point Count method:
  - *CAR-R2-11A-Texture is 2% Chrysotile (PC-1.75%)*
  - *CAR-R2-11B-Texture is 2% Chrysotile (PS)*
  - *CAR-R2-11C-Texture is 2% Chrysotile (PS)*

The materials assessed were in good condition at the time of the inspection and friable.

- The Textured Plaster (12A-12C) located in room 1 of the Subject Property was confirmed to be ACM by Point Count method:
  - *CAR-R1-12A-Texture is Homogeneous*
  - *CAR-R1-12B-Texture is 2% Chrysotile (PC-1.75%)*
  - *CAR-R1-12C-Texture is 2% Chrysotile (PS)*

The materials assessed were in good condition at the time of the inspection and friable.

***Laboratory Compliance:***

The samples were delivered for analysis to EMSL Analytical, Inc. in Denver, Colorado, via FedEx. The laboratory is a member of the National Voluntary Laboratory Accreditation Program (NVLAP), and is qualified to perform the required analysis (See Appendix 6). The analysis conducted was the EPA Interim Method for the Determination of Asbestos in Bulk Samples, using standard Polarized Light Microscopy (PLM) and dispersion staining as established in 40 CFR Part 763. According to section III.A.1.c of *Regulation Number 8* from the CDPHE, if the asbestos content of a sample of friable asbestos is estimated to be 1% asbestos or less, but greater than 0%, by a method other than point counting, the determination shall be repeated using the point count technique with polarized light microscopy.

**III. Homogeneous Sampling Areas/Notes:**

**Observations, Exceptions and Notations:**

1. Built in 1906
2. **The top floor of the property has been gutted at one time**
3. **Plaster is observed throughout the main floor-walls/ceilings**
4. Brick construction with wood walls and floors
5. **Textured drywall was observed in some small areas**
6. **Linoleum was observed**
7. Roofing appeared to be homogenous
8. Basement was inaccessible due to flooring and wall damage
9. **Boiler system was observed through small coal chute-assumed ACM**

**Bold – Indicates comment is associated with ACM**

**IV. Lab Results – Confirmed Asbestos**

**Thirty (30)** samples (see Photographs and Sampling Locations in the Appendix) were confirmed to be an asbestos containing material (ACM) with initial PLM analysis as described below:

Sample ID	Material	Location	Asbestos Content	Quantity
CAR-R11-1A	Texture	Room 11	2% Chrysotile	~450 ft <sup>2</sup>
CAR-R11-1B	Texture		2% Chrysotile	
CAR-R11-1C	Texture		2% Chrysotile	
CAR-R12-2A	Texture	Room 12	<1% Chrysotile	~650 ft <sup>2</sup>
CAR-R12-2B	Texture		2% Chrysotile	
CAR-R12-2C	Texture		2% Chrysotile	
CAR-R8-3A	Texture	Room 8	2% Chrysotile	~710 ft <sup>2</sup>
CAR-R8-3B	Texture		2% Chrysotile	
CAR-R8-3C	Texture		2% Chrysotile	
CAR-R10-4A	Texture	Room 10	2% Chrysotile	~430 ft <sup>2</sup>
CAR-R10-4B	Texture		<1% Chrysotile	
CAR-R10-4C	Texture		<1% Chrysotile	
CAR-R8-5A	Texture	Room 8	Homogeneous	~900 ft <sup>2</sup>
CAR-R8-5B	Texture		2% Chrysotile	
CAR-R8-5C	Texture		2% Chrysotile	
CAR-R5-8A	Texture	Room 5	2% Chrysotile	~620 ft <sup>2</sup>
CAR-R5-8B	Texture		2% Chrysotile	
CAR-R5-8C	Texture		2% Chrysotile	
CAR-R7-9A	Texture	Room 7	2% Chrysotile	~450 ft <sup>2</sup>
CAR-R7-9B	Texture		2% Chrysotile	
CAR-R7-9C	Texture		2% Chrysotile	
CAR-R3-10A	Texture	Room 3	2% Chrysotile	~300 ft <sup>2</sup>
CAR-R3-10B	Texture		2% Chrysotile	
CAR-R3-10C	Texture		2% Chrysotile	
CAR-R2-11A	Texture	Room 2	2% Chrysotile	~400 ft <sup>2</sup>
CAR-R2-11B	Texture		2% Chrysotile	
CAR-R2-11C	Texture		2% Chrysotile	
CAR-R1-12A	Texture	Room 1	Homogeneous	~650 ft <sup>2</sup>
CAR-R1-12B	Texture		2% Chrysotile	
CAR-R1-12C	Texture		2% Chrysotile	

~ = Approximated

*Thirty (30) samples taken were confirmed to be 2% Chrysotile by EMSL Analytical, Inc. using Polarized Light Microscopy. The same samples were later analyzed using the Point Count Method. This analysis determines if the samples are less than or greater than 1% asbestos.* According to AHERA, EPA, and the State of Colorado Department of Public Health and Environment, materials testing at less than (<) or equal to 1% asbestos fibers are not considered to be an asbestos containing material (ACM). This material may be disposed as normal building debris; however, OSHA protocol must be followed when handling materials containing ANY amount of asbestos. (See Table Below)

#### **V. Point Count Results (EMSL Analytical, Inc.)**

There were **Twenty Nine (29)** samples analyzed by the PLM Point Count method as described below:

<b>Sample ID</b>	<b>Point Count Results</b>
<b>CAR-R11-1A</b>	<b>2.00% Chrysotile</b>
<b>CAR-R11-1B</b>	<b>PS</b>
<b>CAR-R11-1C</b>	<b>PS</b>
<b>CAR-R12-2A</b>	<b>0.50% Chrysotile</b>
<b>CAR-R12-2A</b>	<b>1.00% Chrysotile</b>
<b>CAR-R12-2B</b>	<b>2.25% Chrysotile</b>
<b>CAR-R12-2C</b>	<b>PS</b>
<b>CAR-R8-3A</b>	<b>2.00% Chrysotile</b>
<b>CAR-R8-3B</b>	<b>PS</b>
<b>CAR-R8-3C</b>	<b>PS</b>
<b>CAR-R10-4A</b>	<b>&lt;0.25% Chrysotile</b>
<b>CAR-R10-4B</b>	<b>&lt;0.25% Chrysotile</b>
<b>CAR-R4-5A</b>	<b>1.50% Chrysotile</b>
<b>CAR-R4-5B</b>	<b>PS</b>
<b>CAR-R4-5C</b>	<b>PS</b>
<b>CAR-R5-8A</b>	<b>2.00% Chrysotile</b>
<b>CAR-R5-8B</b>	<b>PS</b>
<b>CAR-R5-8C</b>	<b>PS</b>
<b>CAR-R7-9A</b>	<b>2.25% Chrysotile</b>
<b>CAR-R7-9B</b>	<b>PS</b>
<b>CAR-R7-9C</b>	<b>PS</b>
<b>CAR-R3-10A</b>	<b>0.75% Chrysotile</b>
<b>CAR-R3-10B</b>	<b>1.50% Chrysotile</b>
<b>CAR-R3-10C</b>	<b>PS</b>
<b>CAR-R2-11A</b>	<b>1.75% Chrysotile</b>

Sample ID	Point Count Results
CAR-R2-11B	PS
CAR-R2-11C	PS
CAR-R1-12B	1.75% Chrysotile
CAR-R1-12C	PS

**Due to these sample analyzing above 1%, they are ACM materials**

## **VI. Limitations:**

Accessibility may have been a limiting condition. A Colorado Certified Building Inspector used reasonable diligence and professional judgment to identify all potential asbestos containing materials in the Subject Property. Materials that are not visible from the surface, i.e. wall cavity insulation, may not have been sampled. This inspection complies with standards and protocol established by the Asbestos Hazardous Emergency Response Act (AHERA) and the CDPHE's, *Regulation 8*. APEC will not be responsible for additional costs associated with future sampling, including services provided by a third party. ACM's that will be disturbed should be handled according to CDPHE, EPA, and OSHA protocol. Materials containing ANY amount of asbestos should be handled according to OSHA protocol.

All-Phase Environmental Consultants, Inc. (APEC) makes no warranty either expressed or implied as to the completeness of the information contained herein. APEC will not be held liable for property damage or any loss of property value due to the inspection. APEC will not be held responsible for ACMs identified in additional areas of the Subject Property and/or any results of future asbestos inspections. This report is not an abatement plan and is intended to be informational only; APEC will not be held responsible for the mishandling of the information contained herein.

- If additional impacted suspect **ACM** or **ACBM** are discovered during renovations, servicing or maintenance related work for which there are no sample documentation/results, APEC recommends pursuing one of the following alternatives: Sample and analyze the discovered suspect material(s) to determine whether it contains asbestos; or assume the material(s) to be asbestos-containing materials, quantify and remove on a unit cost basis.
- Notwithstanding any provision to the contrary, the total liability of "All Phase Environmental Consultants, Inc.", and its employees, officers or directors be liable in contract, tort, strict liability warranty or otherwise, for any special, incidental or consequential damages, such as but not limited to, delay, disruption, loss of product, loss of anticipated profits or revenue, damages, cost, and expenses, including attorney's fees, shall not exceed the aggregate amount paid to All Phase Environmental Consultants, Inc. under this Agreement regardless of the legal theory under which such liability is imposed.

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**VII. Appendices:**

**The attached Appendices include:**

- 1. Field Sheet/Asbestos Results**
- 2. Sample Photographs**
- 3. Asbestos Bulk Sample Data Sheet (test results)**
- 4. Chain of Custody Forms**
- 5. Asbestos Inspector Certifications/Laboratory Certifications**
- 6. Trigger Level Information Sheet**
- 7. OSHA Standards**

**VIII. Signature of Asbestos Inspector (s):**

**All-Phase Environmental Consultants Inc.**



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**Logan Greenfield**

**AHERA Certified Asbestos Inspector  
Colorado Certified Asbestos Building Inspector  
Certification No. 20715**

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**APPENDIX 1**

***FIELD SHEET/ASBESTOS RESULTS***

# Field Sheet/Asbestos Results

Site Address: 122 Carson Ave, La Junta, Colorado  
 Project Number: 18-2984

Functional Space ID	Homogeneous Sampling Area ID	Sample ID	Material	Layer Material	Condition	Asbestos Results	Asbestos Content	Point Count Results	Quantity	Material Category	Friability	Hazard Ranking
Room 11	1	CAR-R11-1A-Texture	Textured Plaster	Texture	SD	Positive	2% Chrysotile	2.00% Chrysotile	~300 ft <sup>2</sup>	Surfacing	Friable	3
		CAR-R11-1A-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R11-1A-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R11-1B-Texture	Textured Plaster	Texture	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	
		CAR-R11-1B-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R11-1B-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R11-1C-Texture	Textured Plaster	Texture	SD	Positive	2% Chrysotile	PS		Surfacing	Friable	
		CAR-R11-1C-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R11-1C-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA	Surfacing	Friable		
Room 12	2	CAR-R12-2A-Texture 1	Textured Plaster	Texture	SD	Positive	<1% Chrysotile	0.50% Chrysotile	~670 ft <sup>2</sup>	Surfacing	Friable	3
		CAR-R12-2A-Texture 2	Textured Plaster	Texture	SD	Positive	2% Chrysotile	1.00% Chrysotile		Surfacing	Friable	
		CAR-R12-2A-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R12-2B-Texture	Textured Plaster	Texture	SD	Positive	2% Chrysotile	2.25% Chrysotile		Surfacing	Friable	
		CAR-R12-1B-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R12-2C-Texture	Textured Plaster	Texture	SD	Positive	2% Chrysotile	PS		Surfacing	Friable	
		CAR-R12-2C-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R12-2C-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA	Surfacing	Friable		
Room 8	3	CAR-R8-3A-Texture	Textured Plaster	Texture	SD	Positive	2% Chrysotile	2.00% Chrysotile	~430 ft <sup>2</sup>	Surfacing	Friable	3
		CAR-R8-3A-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R8-3A-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R8-3B-Texture	Textured Plaster	Texture	SD	Positive	2% Chrysotile	PS		Surfacing	Friable	
		CAR-R8-3B-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R8-3B-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R8-3C-Texture	Textured Plaster	Texture	SD	Positive	2% Chrysotile	PS		Surfacing	Friable	
		CAR-R8-3C-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R8-3C-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA	Surfacing	Friable		
Room 10	4	CAR-R10-4A	Textured Plaster	Plaster	SD	Positive	<1% Chrysotile	<0.25% Chrysotile	~670 ft <sup>2</sup>	Surfacing	Friable	OSHA
		CAR-R10-4B	Textured Plaster	Plaster	SD	Positive	<1% Chrysotile	<0.25% Chrysotile		Surfacing	Friable	
		CAR-R10-4C-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA		Surfacing	Friable	
Room 4	5	CAR-R4-5A-Texture	Textured Plaster	Texture	Good	Positive	2% Chrysotile	PS	~105 ft <sup>2</sup>	Surfacing	Friable	6
		CAR-R4-5A-Drywall	Textured Plaster	Drywall	Good	Negative	ND	NA		Surfacing	Friable	
		CAR-R4-5B-Texture	Textured Plaster	Texture	Good	Positive	2% Chrysotile	PS		Surfacing	Friable	
		CAR-R4-5B-Drywall	Textured Plaster	Drywall	Good	Negative	ND	NA		Surfacing	Friable	
		CAR-R4-5C-Texture	Textured Plaster	Texture	Good	Positive	2% Chrysotile	PS		Surfacing	Friable	
			CAR-R4-5C-Drywall	Textured Plaster	Drywall	Good	Negative	ND	NA	Surfacing	Friable	
	6	CAR-R4-6A	Ceiling Tile Material	Drywall	SD	Negative	ND	NA	~126 ft <sup>2</sup>	Miscellaneous	Friable	3
Room 6	6	CAR-R6-7A-Texture	Textured Plaster	Texture	SD	Negative	ND	NA	~700 ft <sup>2</sup>	Surfacing	Friable	3
		CAR-R6-7A-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R6-7A-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R6-7B-Texture	Textured Plaster	Texture	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R6-7B-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R6-7B-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R6-7C-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA		Surfacing	Friable	
				CAR-R6-7C-Plaster	Textured Plaster	Plaster	SD	Negative		ND	NA	
		CAR-R5-8A-Texture 1	Textured Plaster	Texture	SD	Positive	2% Chrysotile	2.00% Chrysotile		Surfacing	Friable	
		CAR-R5-8A-Texture 2	Textured Plaster	Texture	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R5-8A-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R5-8A-1-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA		Surfacing	Friable	
		CAR-R5-8B-Texture 1	Textured Plaster	Texture	SD	Positive	2% Chrysotile	PS		Surfacing	Friable	

Room 5	7	CAR-R5-8B-Texture 2	Textured Plaster	Texture	SD	Negative	ND	NA	~720 ft <sup>2</sup>	Surfacing	Friable	3
		CAR-R5-8B-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA				
		CAR-R5-8B-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA				
		CAR-R5-8C-Texture	Textured Plaster	Texture	SD	Positive	2% Chrysotile	PS				
		CAR-R5-8C-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA				
		CAR-R5-8C-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA				

Functional Space ID	Homogeneous Sampling Area ID	Sample ID	Material	Layer Material	Condition	Asbestos Results	Asbestos Content	Point Count Results	Quantity	Material Category	Friability	Hazard Ranking
Room 7	8	CAR-R7-9A-Texture 1	Textured Plaster	Texture	SD	Positive	2% Chrysotile	2.25% Chrysotile	~500 ft <sup>2</sup>	Surfacing	Friable	3
		CAR-R7-9A-Texture 2	Textured Plaster	Texture	SD	Negative	ND	NA				
		CAR-R7-9A-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA				
		CAR-R7-9A-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA				
		CAR-R7-9B-Texture 1	Textured Plaster	Texture	SD	Positive	2% Chrysotile	PS				
		CAR-R7-9B-Texture 2	Textured Plaster	Texture	SD	Negative	ND	NA				
		CAR-R7-9B-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA				
		CAR-R7-9B-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA				
		CAR-R7-9C-Texture	Textured Plaster	Texture	SD	Positive	2% Chrysotile	PS				
		CAR-R7-9C-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA				
CAR-R7-9C-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA						
Room 3	9	CAR-R3-10A-Texture	Textured Plaster	Texture	SD	Positive	2% Chrysotile	0.75% Chrysotile	~670 ft <sup>2</sup>	Surfacing	Friable	3
		CAR-R3-10A-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA				
		CAR-R3-10A-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA				
		CAR-R3-10B-Texture	Textured Plaster	Texture	SD	Positive	2% Chrysotile	1.50% Chrysotile				
		CAR-R3-10B-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA				
		CAR-R3-10B-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA				
		CAR-R3-10C-Texture	Textured Plaster	Texture	SD	Positive	2% Chrysotile	PS				
		CAR-R3-10C-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA				
CAR-R3-10C-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA						
Room 2	10	CAR-R2-11A-Texture	Textured Drywall	Texture	Good	Positive	2% Chrysotile	1.75% Chrysotile	~110 ft <sup>2</sup>	Surfacing	Friable	6
		CAR-R2-11A-Drywall	Textured Drywall	Drywall	Good	Negative	ND	NA				
		CAR-R2-11B-Texture	Textured Drywall	Texture	Good	Positive	2% Chrysotile	PS				
		CAR-R2-11B-Drywall	Textured Drywall	Drywall	Good	Negative	ND	NA				
		CAR-R2-11C-Texture	Textured Drywall	Texture	Good	Positive	2% Chrysotile	PS				
		CAR-R2-11C-Drywall	Textured Drywall	Drywall	Good	Negative	ND	NA				
Room 1	11	CAR-R1-12A-Texture	Textured Plaster	Texture	SD	Negative	ND	NA	~690 ft <sup>2</sup>	Surfacing	Friable	3
		CAR-R1-12A-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA				
		CAR-R1-12A-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA				
		CAR-R1-12B-Texture 1	Textured Plaster	Texture	SD	Positive	2% Chrysotile	1.75% Chrysotile				
		CAR-R1-12B-Texture 2	Textured Plaster	Texture	SD	Negative	ND	NA				
		CAR-R1-12B-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA				
		CAR-R1-12B-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA				
		CAR-R1-12C-Texture	Textured Plaster	Texture	SD	Positive	2% Chrysotile	PS				
		CAR-R1-12C-Skim Coat	Textured Plaster	Skim Coat	SD	Negative	ND	NA				
		CAR-R1-12C-Plaster	Textured Plaster	Plaster	SD	Negative	ND	NA				
Room 2	12	CAR-R2-13A	Yellow Linoleum	Linoleum	SD	Negative	ND	NA	~1200 ft <sup>2</sup>	Miscellaneous	Friable	3
Room 10	13	CAR-R10-14A	Yellow Linoleum	Linoleum	SD	Negative	ND	NA				
Exterior	14	CAR-EX-15A-Stucco	Exterior Stucco	Stucco	Good	Negative	ND	NA	~400 ft <sup>2</sup>	Surfacing	Friable	6
		CAR-EX-15A-Concrete	Exterior Stucco	Concrete	Good	Negative	ND	NA				
		CAR-EX-15B-Stucco	Exterior Stucco	Stucco	Good	Negative	ND	NA				
		CAR-EX-15B-Concrete	Exterior Stucco	Concrete	Good	Negative	ND	NA				
		CAR-EX-15C	Exterior Stucco	Texture	Good	Negative	ND	NA				
		CAR-EX-16A	Brick Mortar	Mortar	SD	Negative	ND	NA				

ND = None Detected  
 NA = Not Applicable  
 ft<sup>2</sup> = square feet

> = Greater Than  
 < = Less Than  
 ~ = Approximated

Red = Positive  
 Blue = OSHA

- Damaged or significantly damaged thermal system insulation ACM.
- Damaged friable surfacing ACM.
- Significantly damaged friable surfacing ACM.
- Damaged or significantly damaged friable miscellaneous ACM.

Per AHERA and State of Colorado, materials tested at less than or equal to (<=)1%asbestos are not considered to be an asbestos containing material

\* = positive due to homogeneity  
TBD = To be determined upon demo  
SD = Significantly Damaged  
PS = Positive Stop  
SD = Significantly Damaged  
PS = Positive Stop

5. ACBM with potential for damage.
6. ACBM with potential for significant damage.
7. Any remaining friable ACBM or friable suspected ACBM.

**Materials containing ANY amount of asbestos should be handled according OSHA protocol.**

**APPENDIX 2**

***SAMPLE PHOTOGRAPHS***  
***(PHOTOS & DESCRIPTIONS)***



**Subject Property**



**Boiler in Basement - Assumed**



**Plaster Walls**



**Yellow Linoleum**

**APPENDIX 3**

***ASBESTOS BULK SAMPLE DATA SHEET  
(TEST RESULTS)***



# EMSL Analytical, Inc.

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**Customer PO:**  
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**Collected Date:** 01/18/2018  
**Project:** 18-2984-122 Carson

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CAR-R11-1A-Texture 221800363-0001	Textured Plaster	White/Green Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R11-1A-Skim Coat 221800363-0001A	Textured Plaster	White/Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CAR-R11-1A-Plaster 221800363-0001B	Textured Plaster	Gray Non-Fibrous Homogeneous	<1% Hair	100% Non-fibrous (Other)	None Detected
CAR-R11-1B-Texture 221800363-0002	Textured Plaster	White/Green Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R11-1B-Skim Coat 221800363-0002A	Textured Plaster	White/Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CAR-R11-1B-Plaster 221800363-0002B	Textured Plaster	Gray Non-Fibrous Homogeneous	<1% Hair	100% Non-fibrous (Other)	None Detected
CAR-R11-1C-Texture 221800363-0003	Textured Plaster	Various Non-Fibrous Homogeneous		10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R11-1C-Skim Coat 221800363-0003A	Textured Plaster	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R11-1C-Plaster 221800363-0003B	Textured Plaster	Gray Non-Fibrous Homogeneous		40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 01/26/2018 12:21:19



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## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CAR-R12-2A-Texture 1 221800363-0004	Textured Plaster	Green/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R12-2A-Texture 2 221800363-0004A	Textured Plaster	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R12-2A-Plaster 221800363-0004B	Textured Plaster	Gray Fibrous Homogeneous	<1% Hair	100% Non-fibrous (Other)	None Detected
CAR-R12-2B-Texture 221800363-0005	Textured Plaster	Green/Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R12-2B-Plaster 221800363-0005A	Textured Plaster	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CAR-R12-2C-Texture 221800363-0006	Textured Plaster	Beige Non-Fibrous Homogeneous		5% Ca Carbonate 93% Non-fibrous (Other)	2% Chrysotile
CAR-R12-2C-Skim Coat 221800363-0006A	Textured Plaster	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R12-2C-Plaster 221800363-0006B	Textured Plaster	Gray Non-Fibrous Homogeneous		40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected
CAR-R8-3A-Texture 221800363-0007	Textured Plaster	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					

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## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CAR-R8-3A-Skim Coat 221800363-0007A	Textured Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CAR-R8-3A-Plaster 221800363-0007B	Textured Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CAR-R8-3B-Texture 221800363-0008	Textured Plaster	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R8-3B-Skim Coat 221800363-0008A	Textured Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CAR-R8-3B-Plaster 221800363-0008B	Textured Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CAR-R8-3C-Texture 221800363-0009	Textured Plaster	Beige Non-Fibrous Homogeneous		5% Ca Carbonate 93% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R8-3C-Skim Coat 221800363-0009A	Textured Plaster	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R8-3C-Plaster 221800363-0009B	Textured Plaster	Gray Non-Fibrous Homogeneous		40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected
CAR-R10-4A 221800363-0010	Textured Plaster	Gray/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					

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## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CAR-R10-4B 221800363-0011	Textured Plaster	Gray/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R10-4C-Skim Coat 221800363-0012	Textured Plaster	Brown Non-Fibrous Homogeneous		10% Quartz 5% Ca Carbonate 85% Non-fibrous (Other)	None Detected
CAR-R10-4C-Plaster 221800363-0012A	Textured Plaster	Gray Non-Fibrous Homogeneous		50% Quartz 5% Ca Carbonate 45% Non-fibrous (Other)	None Detected
CAR-R4-5A-Texture 221800363-0013	Textured Drywall	White/Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R4-5A-Drywall 221800363-0013A	Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
CAR-R4-5B-Texture 221800363-0014	Textured Drywall	White/Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R4-5B-Drywall 221800363-0014A	Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
CAR-R4-5C-Texture 221800363-0015	Textured Drywall	Beige Non-Fibrous Homogeneous		10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile
CAR-R4-5C-Drywall 221800363-0015A	Textured Drywall	White Fibrous Homogeneous	10% Cellulose	70% Gypsum 20% Non-fibrous (Other)	None Detected

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## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CAR-R4-6A 221800363-0016	Ceiling Tile Material	Tan Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
CAR-R6-7A-Texture 221800363-0017	Textured Plaster	Green Non-Fibrous Homogeneous		5% Quartz 5% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R6-7A-Skim Coat 221800363-0017A	Textured Plaster	Beige Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R6-7A-Plaster 221800363-0017B	Textured Plaster	Gray Non-Fibrous Homogeneous		40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected
CAR-R6-7B-Texture 221800363-0018	Textured Plaster	Tan/Green Non-Fibrous Homogeneous		5% Quartz 5% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R6-7B-Skim Coat 221800363-0018A	Textured Plaster	Beige Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R6-7B-Plaster 221800363-0018B	Textured Plaster	Gray Non-Fibrous Homogeneous	<1% Hair	40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected
CAR-R6-7C-Skim Coat 221800363-0019	Textured Plaster	White/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
CAR-R6-7C-Plaster 221800363-0019A	Textured Plaster	Gray Non-Fibrous Homogeneous	<1% Hair	100% Non-fibrous (Other)	None Detected

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## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CAR-R5-8A-Texture 1 221800363-0020	Textured Plaster	Green/Beige Non-Fibrous Homogeneous		5% Ca Carbonate 93% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R5-8A-Texture 2 221800363-0020A	Textured Plaster	Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R5-8A-Skim Coat 221800363-0020B	Textured Plaster	Gray Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R5-8A 1-Plaster 221800363-0020C	Textured Plaster	Gray Non-Fibrous Homogeneous		40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected
CAR-R5-8B-Texture 1 221800363-0021	Textured Plaster	Green/Beige Non-Fibrous Homogeneous		5% Ca Carbonate 93% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R5-8B-Texture 2 221800363-0021A	Textured Plaster	Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R5-8B-Skim Coat 221800363-0021B	Textured Plaster	Beige Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R5-8B-Plaster 221800363-0021C	Textured Plaster	Gray Non-Fibrous Homogeneous		40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected
CAR-R5-8C-Texture 221800363-0022	Textured Plaster	Tan/Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CAR-R5-8C-Skim Coat 221800363-0022A	Textured Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CAR-R5-8C-Plaster 221800363-0022B	Textured Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CAR-R7-9A-Texture 1 221800363-0023	Textured Plaster	Green/Beige Non-Fibrous Homogeneous		5% Ca Carbonate 93% Non-fibrous (Other)	2% Chrysotile
CAR-R7-9A-Texture 2 221800363-0023A	Textured Plaster	Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R7-9A-Skim Coat 221800363-0023B	Textured Plaster	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R7-9A-Plaster 221800363-0023C	Textured Plaster	Gray Non-Fibrous Homogeneous		40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected
CAR-R7-9B-Texture 1 221800363-0024	Textured Plaster	Green/Beige Non-Fibrous Homogeneous		5% Ca Carbonate 93% Non-fibrous (Other)	2% Chrysotile
CAR-R7-9B-Texture 2 221800363-0024A	Textured Plaster	Brown/Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R7-9B-Skim Coat 221800363-0024B	Textured Plaster	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R7-9B-Plaster 221800363-0024C	Textured Plaster	Gray Non-Fibrous Homogeneous		40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 01/26/2018 12:21:19



# EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204  
Tel/Fax: (303) 740-5700 / (303) 741-1400  
<http://www.EMSL.com> / [denverlab@emsl.com](mailto:denverlab@emsl.com)

**EMSL Order:** 221800363  
**Customer ID:** ALLP62  
**Customer PO:**  
**Project ID:**

**Attention:** Logan Greenfield  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003  
**Project:** 18-2984-122 Carson

**Phone:** (719) 250-0036  
**Fax:** (719) 542-2807  
**Received Date:** 01/19/2018 10:15 AM  
**Analysis Date:** 01/25/2018 - 01/26/2018  
**Collected Date:** 01/18/2018

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CAR-R7-9C-Texture 221800363-0025	Textured Plaster	Yellow/Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R7-9C-Skim Coat 221800363-0025A	Textured Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CAR-R7-9C-Plaster 221800363-0025B	Textured Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CAR-R3-10A-Texture 221800363-0026	Textured Plaster	Green/Beige Non-Fibrous Homogeneous		5% Ca Carbonate 93% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R3-10A-Skim Coat 221800363-0026A	Textured Plaster	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R3-10A-Plaster 221800363-0026B	Textured Plaster	Gray Non-Fibrous Homogeneous		40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected
CAR-R3-10B-Texture 221800363-0027	Textured Plaster	Beige Non-Fibrous Homogeneous		5% Ca Carbonate 93% Non-fibrous (Other)	2% Chrysotile
CAR-R3-10B-Skim Coat 221800363-0027A	Textured Plaster	Yellow Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R3-10B-Plaster 221800363-0027B	Textured Plaster	Gray Non-Fibrous Homogeneous		40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 01/26/2018 12:21:19



# EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204  
Tel/Fax: (303) 740-5700 / (303) 741-1400  
<http://www.EMSL.com> / [denverlab@emsl.com](mailto:denverlab@emsl.com)

**EMSL Order:** 221800363  
**Customer ID:** ALLP62  
**Customer PO:**  
**Project ID:**

**Attention:** Logan Greenfield  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003  
**Project:** 18-2984-122 Carson

**Phone:** (719) 250-0036  
**Fax:** (719) 542-2807  
**Received Date:** 01/19/2018 10:15 AM  
**Analysis Date:** 01/25/2018 - 01/26/2018  
**Collected Date:** 01/18/2018

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CAR-R3-10C-Texture 221800363-0028	Textured Plaster	White/Blue Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R3-10C-Skim Coat 221800363-0028A	Textured Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CAR-R3-10C-Plaster 221800363-0028B	Textured Plaster	Gray Non-Fibrous Homogeneous	<1% Hair	100% Non-fibrous (Other)	None Detected
CAR-R2-11A-Texture 221800363-0029	Textured Drywall	Beige Non-Fibrous Homogeneous		5% Ca Carbonate 93% Non-fibrous (Other)	2% Chrysotile
CAR-R2-11A-Drywall 221800363-0029A	Textured Drywall	Beige Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
CAR-R2-11B-Texture 221800363-0030	Textured Drywall	Beige Fibrous Homogeneous		5% Ca Carbonate 93% Non-fibrous (Other)	2% Chrysotile
CAR-R2-11B-Drywall 221800363-0030A	Textured Drywall	Beige Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
CAR-R2-11C-Texture 221800363-0031	Textured Drywall	White/Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R2-11C-Drywall 221800363-0031A	Textured Drywall	Brown/White Fibrous Homogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 01/26/2018 12:21:19



# EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204  
Tel/Fax: (303) 740-5700 / (303) 741-1400  
<http://www.EMSL.com> / [denverlab@emsl.com](mailto:denverlab@emsl.com)

**EMSL Order:** 221800363  
**Customer ID:** ALLP62  
**Customer PO:**  
**Project ID:**

**Attention:** Logan Greenfield  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003  
**Phone:** (719) 250-0036  
**Fax:** (719) 542-2807  
**Received Date:** 01/19/2018 10:15 AM  
**Analysis Date:** 01/25/2018 - 01/26/2018  
**Collected Date:** 01/18/2018  
**Project:** 18-2984-122 Carson

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CAR-R1-12A-Texture 221800363-0032	Textured Plaster	Brown Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R1-12A-Skim Coat 221800363-0032A	Textured Plaster	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R1-12A-Plaster 221800363-0032B	Textured Plaster	Gray Non-Fibrous Homogeneous		40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected
CAR-R1-12B-Texture e 1 221800363-0033	Textured Plaster	Green/Beige Non-Fibrous Homogeneous		10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile
CAR-R1-12B-Texture e 2 221800363-0033A	Textured Plaster	Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R1-12B-Skim Coat 221800363-0033B	Textured Plaster	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
CAR-R1-12B-Plaster r 221800363-0033C	Textured Plaster	Gray Non-Fibrous Homogeneous		40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected
CAR-R1-12C-Texture e 221800363-0034	Textured Plaster	White/Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
CAR-R1-12C-Skim Coat 221800363-0034A	Textured Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CAR-R1-12C-Plaster r 221800363-0034B	Textured Plaster	Gray Non-Fibrous Homogeneous	<1% Hair	100% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 01/26/2018 12:21:19



# EMSL Analytical, Inc.

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<http://www.EMSL.com> / [denverlab@emsl.com](mailto:denverlab@emsl.com)

**EMSL Order:** 221800363  
**Customer ID:** ALLP62  
**Customer PO:**  
**Project ID:**

**Attention:** Logan Greenfield  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003  
**Phone:** (719) 250-0036  
**Fax:** (719) 542-2807  
**Received Date:** 01/19/2018 10:15 AM  
**Analysis Date:** 01/25/2018 - 01/26/2018  
**Collected Date:** 01/18/2018  
**Project:** 18-2984-122 Carson

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CAR-R2-13A 221800363-0035	Yellow Linoleum	Gray/Tan Fibrous Homogeneous	30% Cellulose 20% Synthetic	50% Non-fibrous (Other)	None Detected
CAR-R10-14A 221800363-0036	Yellow Linoleum	Tan Non-Fibrous Homogeneous	30% Cellulose 20% Synthetic	50% Non-fibrous (Other)	None Detected
CAR-EX-15A-Stucco 221800363-0037	Exterior Stucco	Tan Non-Fibrous Homogeneous		40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected
CAR-EX-15A-Concrete 221800363-0037A	Exterior Stucco	Gray Non-Fibrous Homogeneous		55% Quartz 5% Ca Carbonate 40% Non-fibrous (Other)	None Detected
CAR-EX-15B-Stucco 221800363-0038	Exterior Stucco	Beige Non-Fibrous Homogeneous		40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected
CAR-EX-15B-Concrete 221800363-0038A	Exterior Stucco	Gray Non-Fibrous Homogeneous		55% Quartz 5% Ca Carbonate 40% Non-fibrous (Other)	None Detected
CAR-EX-15C 221800363-0039	Exterior Stucco	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CAR-EX-16A 221800363-0040	Brick Mortar	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Inseparable layers.

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 01/26/2018 12:21:19



**EMSL Analytical, Inc.**

1010 Yuma Street Denver, CO 80204  
Tel/Fax: (303) 740-5700 / (303) 741-1400  
<http://www.EMSL.com> / [denverlab@emsl.com](mailto:denverlab@emsl.com)

**EMSL Order:** 221800363  
**Customer ID:** ALLP62  
**Customer PO:**  
**Project ID:**

**Attention:** Logan Greenfield  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003  
**Project:** 18-2984-122 Carson

**Phone:** (719) 250-0036  
**Fax:** (719) 542-2807  
**Received Date:** 01/19/2018 10:15 AM  
**Analysis Date:** 01/25/2018 - 01/26/2018  
**Collected Date:** 01/18/2018

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

**Report Comments:**

Sample Receipt Date: 01/19/2018                      Sample Receipt Time: 10:15 AM  
Analysis Completed Date: 01/26/2018                      Analysis Completed Time: 12:09 PM

**Analyst(s):**

  
Gentry Catlett PLM (40)

  
Timothy Kleehammer PLM (60)

**Samples Reviewed and approved by:**

  
Amanda Lang, Asbestos Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 01/26/2018 12:21:19

**EMSL Analytical, Inc.**

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<http://www.EMSL.com>[denverlab@emsl.com](mailto:denverlab@emsl.com)

EMSL Order:	221800363
CustomerID:	ALLP62
CustomerPO:	
ProjectID:	

Attn: **Logan Greenfield**  
**All-Phase Environmental Consultants, Inc**  
**721 West 9th Street**  
**Pueblo, CO 81003**

Phone: (719) 545-0375  
 Fax: (719) 542-2807  
 Received: 01/19/18 10:15 AM  
 Analysis Date: 2/2/2018  
 Collected: 1/18/2018

Project: **18-2984-122 Carson**

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CAR-R11-1A-Texture <i>221800363-0001</i>	Textured Plaster	White/Green Non-Fibrous  Homogeneous		98.00% Non-fibrous (other)	<b>2.00% Chrysotile</b>
CAR-R11-1B-Texture <i>221800363-0002</i>	Textured Plaster				<b>Positive Stop (Not Analyzed)</b>
CAR-R11-1C-Texture <i>221800363-0003</i>	Textured Plaster				<b>Positive Stop (Not Analyzed)</b>
CAR-R12-2A-Texture 1 <i>221800363-0004</i>	Textured Plaster	Green/Beige Non-Fibrous  Homogeneous		99.50% Non-fibrous (other)	<b>0.50% Chrysotile</b>
CAR-R12-2A-Texture 2 <i>221800363-0004A</i>	Textured Plaster	Beige Non-Fibrous  Homogeneous		99.00% Non-fibrous (other)	<b>1.00% Chrysotile</b>
CAR-R12-2B-Texture <i>221800363-0005</i>	Textured Plaster	Green/Beige Non-Fibrous  Homogeneous		97.75% Non-fibrous (other)	<b>2.25% Chrysotile</b>
CAR-R12-2C-Texture <i>221800363-0006</i>	Textured Plaster				<b>Positive Stop (Not Analyzed)</b>
CAR-R8-3A-Texture <i>221800363-0007</i>	Textured Plaster	Beige Non-Fibrous  Homogeneous		98.00% Non-fibrous (other)	<b>2.00% Chrysotile</b>
CAR-R8-3B-Texture <i>221800363-0008</i>	Textured Plaster				<b>Positive Stop (Not Analyzed)</b>

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.  
 Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from 02/02/2018 13:02:06

**EMSL Analytical, Inc.**

1010 Yuma Street, Denver, CO 80204

Phone/Fax: (303) 740-5700 / (303) 741-1400

<http://www.EMSL.com>[denverlab@emsl.com](mailto:denverlab@emsl.com)

EMSL Order:	221800363
CustomerID:	ALLP62
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ProjectID:	

Attn: **Logan Greenfield**  
**All-Phase Environmental Consultants, Inc**  
**721 West 9th Street**  
**Pueblo, CO 81003**

Phone: (719) 545-0375  
 Fax: (719) 542-2807  
 Received: 01/19/18 10:15 AM  
 Analysis Date: 2/2/2018  
 Collected: 1/18/2018

Project: **18-2984-122 Carson**

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CAR-R8-3C-Texture <i>221800363-0009</i>	Textured Plaster				<b>Positive Stop (Not Analyzed)</b>
CAR-R10-4A <i>221800363-0010</i>	Textured Plaster	Gray/Green Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<b>&lt;0.25% Chrysotile</b>
CAR-R10-4B <i>221800363-0011</i>	Textured Plaster	Gray/Green Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<b>&lt;0.25% Chrysotile</b>
CAR-R4-5A-Texture <i>221800363-0013</i>	Textured Drywall	White/Beige Non-Fibrous Homogeneous		98.50% Non-fibrous (other)	<b>1.50% Chrysotile</b>
CAR-R4-5B-Texture <i>221800363-0014</i>	Textured Drywall				<b>Positive Stop (Not Analyzed)</b>
CAR-R4-5C-Texture <i>221800363-0015</i>	Textured Drywall				<b>Positive Stop (Not Analyzed)</b>
CAR-R5-8A-Texture 1 <i>221800363-0020</i>	Textured Plaster	Green/Beige Non-Fibrous Homogeneous		98.00% Non-fibrous (other)	<b>2.00% Chrysotile</b>
CAR-R5-8B-Texture 1 <i>221800363-0021</i>	Textured Plaster				<b>Positive Stop (Not Analyzed)</b>
CAR-R5-8C-Texture <i>221800363-0022</i>	Textured Plaster				<b>Positive Stop (Not Analyzed)</b>

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.  
 Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from 02/02/2018 13:02:06

**EMSL Analytical, Inc.**

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EMSL Order:	221800363
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Attn: **Logan Greenfield**  
**All-Phase Environmental Consultants, Inc**  
**721 West 9th Street**  
**Pueblo, CO 81003**

Phone: (719) 545-0375  
Fax: (719) 542-2807  
Received: 01/19/18 10:15 AM  
Analysis Date: 2/2/2018  
Collected: 1/18/2018

Project: **18-2984-122 Carson**

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CAR-R7-9A-Texture 1 <small>221800363-0023</small>	Textured Plaster	Green/Beige Non-Fibrous  Homogeneous		97.75% Non-fibrous (other)	<b>2.25% Chrysotile</b>
CAR-R7-9B-Texture 1 <small>221800363-0024</small>	Textured Plaster				<b>Positive Stop (Not Analyzed)</b>
CAR-R7-9C-Texture <small>221800363-0025</small>	Textured Plaster				<b>Positive Stop (Not Analyzed)</b>
CAR-R3-10A-Texture <small>221800363-0026</small>	Textured Plaster	Green/Beige Non-Fibrous  Homogeneous		99.25% Non-fibrous (other)	<b>0.75% Chrysotile</b>
CAR-R3-10B-Texture <small>221800363-0027</small>	Textured Plaster	Beige Non-Fibrous  Homogeneous		98.50% Non-fibrous (other)	<b>1.50% Chrysotile</b>
CAR-R3-10C-Texture <small>221800363-0028</small>	Textured Plaster				<b>Positive Stop (Not Analyzed)</b>
CAR-R2-11A-Texture <small>221800363-0029</small>	Textured Drywall	Beige Non-Fibrous  Homogeneous		98.25% Non-fibrous (other)	<b>1.75% Chrysotile</b>
CAR-R2-11B-Texture <small>221800363-0030</small>	Textured Drywall				<b>Positive Stop (Not Analyzed)</b>
CAR-R2-11C-Texture <small>221800363-0031</small>	Textured Drywall				<b>Positive Stop (Not Analyzed)</b>

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.  
Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from 02/02/2018 13:02:06



**EMSL Analytical, Inc.**

1010 Yuma Street, Denver, CO 80204  
Phone/Fax: (303) 740-5700 / (303) 741-1400  
<http://www.EMSL.com> [denverlab@emsl.com](mailto:denverlab@emsl.com)

EMSL Order: 221800363  
CustomerID: ALLP62  
CustomerPO:  
ProjectID:

Attn: **Logan Greenfield**  
**All-Phase Environmental Consultants, Inc**  
**721 West 9th Street**  
**Pueblo, CO 81003**

Phone: (719) 545-0375  
Fax: (719) 542-2807  
Received: 01/19/18 10:15 AM  
Analysis Date: 2/2/2018  
Collected: 1/18/2018

Project: 18-2984-122 Carson

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CAR-R1-12B-Texture 1 221800363-0033	Textured Plaster	Green/Beige Non-Fibrous  Homogeneous		98.25% Non-fibrous (other)	1.75% Chrysotile
CAR-R1-12C-Texture 221800363-0034	Textured Plaster				Positive Stop (Not Analyzed)

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.  
Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from 02/02/2018 13:02:06



**EMSL Analytical, Inc.**

1010 Yuma Street, Denver, CO 80204  
Phone/Fax: (303) 740-5700 / (303) 741-1400  
<http://www.EMSL.com> [denverlab@emsl.com](mailto:denverlab@emsl.com)

EMSL Order: 221800363  
CustomerID: ALLP62  
CustomerPO:  
ProjectID:

Attn: **Logan Greenfield**  
**All-Phase Environmental Consultants, Inc**  
**721 West 9th Street**  
**Pueblo, CO 81003**

Phone: (719) 545-0375  
Fax: (719) 542-2807  
Received: 01/19/18 10:15 AM  
Analysis Date: 2/2/2018  
Collected: 1/18/2018

Project: **18-2984-122 Carson**

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

**Report Comments:**

Sample Receipt Date:: 1/19/2018      Sample Receipt Time: 10:15 AM  
Analysis Completed Date: 2/2/2018      Analysis Completed Time: 12:58 PM

**Analyst(s):**

Amanda Lang PLM 400 Point Count (4)

Molly Elkins PLM 400 Point Count (10)

**Samples reviewed and approved by:**

Amanda Lang, Asbestos Laboratory Manager  
or other approved signatory

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.  
Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from 02/02/2018 13:02:06

**APPENDIX 4**

***CHAIN OF CUSTODY FORMS***



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

### Asbestos Chain of Custody

EMSL Order Number (Lab Use Only)

221800363

Denver, CO 80204

PHONE (303) 740-5700

FAX (303) 741-1400

Company: All-Phase Environmental Consultants, Inc		EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small>	
Street: 721 W. 9th Street		Third Party Billing requires written authorization from third party	
City: Pueblo	State/Province: CO	Zip/Postal Code: 81003	Country: United States
Report To (Name): Logan Greenfield		Telephone #: 719-250-0036	
Email Address: logan@allphaseenvironmental.com		Fax #:	Purchase Order:
Project Name/Number: 18-2984-122 Carson		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: CO		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

**Turnaround Time (TAT) Options\* - Please Check**

3 Hour  
  6 Hour  
  24 Hour  
  48 Hour  
  72 Hour  
  96 Hour  
  1 Week  
  2 Week

\*For TEM Air 3 hr through 6 hr, please call ahead to schedule. \*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

<b>PCM - Air</b> <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA	<b>TEM - Air</b> <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	<b>TEM - Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)
<b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	<b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 <b>TEM - Water:</b> EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	<b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual via Filtration Technique <input type="checkbox"/> TEM Qual via Drop-Mount Technique <b>Other:</b> <input type="checkbox"/>

Check For Positive Stop - Clearly Identify Homogenous Group      Filter Pore Size (Air Samples):  0.8µm  0.45µm

Samplers Name: Logan Greenfield      Samplers Signature: *Zy Apill*

Sample #	Sample Description	Volume/Area (Air) / HA # (Bulk)	Date/Time Sampled
CAR-R11-1A	Textured Plaster	—	1-18-18
CAR-R11-1B	↓	—	↓
CAR-R11-1C	↓	—	
CAR-R12-2A	Textured Plaster	—	
CAR-R12-2B	↓	—	
CAR-R12-2C	↓	—	
CAR-RB-3A	Textured Plaster	—	
CAR-RB-3B	↓	—	

Client Sample # (s): \_\_\_\_\_ Total # of Samples: 40

Relinquished (Client): *Zy Apill* Date: 1-18-18 Time: 5:10

Received (Lab): *CS* Date: 1/18/18 Time: 10:15 am

Comments/Special Instructions: EMFE 7953 6067 5100 1/2



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

Denver, CO 80204

Phone: (303) 740-5700

Fax: (303) 741-1400

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
CAR-R8-3C	Textured Plaster	—	1-18-18
CAR-R10-4A	Textured Plaster	—	↓
CAR-R10-4B		—	
CAR-R10-4C	↓	—	
CAR-R4-5A	Textured Drywall	—	
CAR-R4-5B		—	
CAR-R4-5C	↓	—	
CAR-R4-6A	Ceiling tile Material	—	
CAR-R6-7A	Textured Plaster	—	
CAR-R6-7B		—	
CAR-R6-7C	↓	—	
CAR-R5-8A	Textured Plaster	—	
CAR-R5-8B		—	
CAR-R5-8C	↓	—	
CAR-R7-9A	Textured Plaster	—	
CAR-R7-9B		—	
CAR-R7-9C	↓	—	
CAR-R3-10A	Textured Plaster	—	
CAR-R3-10B		—	
CAR-R3-10C	↓	—	
CAR-R2-11A	Textured Drywall	—	
CAR-R2-11B		—	
CAR-R2-11C	↓	—	
CAR-R1-12A	Textured Plaster	—	↓
*Comments/Special Instructions:			



All-Phase Environmental Consultants, Inc.  
Confidential

**APPENDIX 5**

***ASBESTOS INSPECTOR CERTIFICATIONS  
&  
LABORATORY CERTIFICATIONS***



Colorado Department  
of Public Health  
and Environment

## ASBESTOS CERTIFICATION\*

This certifies that

**Logan Greenfield**

**Certification No.: 20715**

has met the requirements of 25-7-507, C.R.S. and Air Quality Control  
Commission Regulation No. 8, Part B, and is hereby certified by the  
state of Colorado in the following discipline:

**Building Inspector\***

**Issued: October 18, 2017**

**Expires: October 18, 2018**

*\* This certificate is valid only with the possession of a  
current Division-approved training course certification  
in the discipline specified above.*

Authorized APCD Representative  
SEAL



1775 West 55<sup>th</sup> Avenue  
Denver, CO 80221  
303.410.4941  
trainingchc.com



*Certifies that*

Logan Greenfield

20715

*Has Successfully Completed the EPA- Approved Annual Asbestos Refresher Training Course  
Under Section 206 of the Toxic Substance Control Act (TSCA), Title II.*

BUILDING INSPECTOR

Course Date: September 20, 2017  
Certificate No.: R17-1661-AI-CO  
No. of Hours: 4  
Expiration Date: September 20, 2018  
Certification not valid without watermark

A handwritten signature in black ink that reads "Frank Hulce".

Frank Hulce - Instructor

A handwritten signature in black ink that reads "Danaya Benedetto".

Danaya Benedetto- Training Program Manager

United States Department of Commerce  
National Institute of Standards and Technology



**Certificate of Accreditation to ISO/IEC 17025:2005**

NVLAP LAB CODE: 200828-0

**EMSL Analytical, Inc.**  
Denver, CO

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

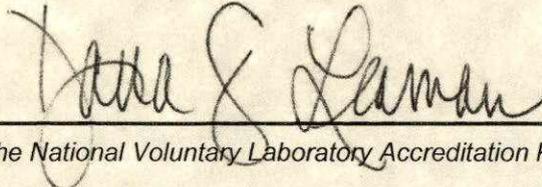
**Asbestos Fiber Analysis**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2017-04-01 through 2018-03-31

*Effective Dates*



  
For the National Voluntary Laboratory Accreditation Program



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

**EMSL Analytical, Inc.**  
1010 Yuma Street  
Denver, CO 80204  
Mr. Brendon Rawlings  
Phone: 303-740-5700 Fax: 303-741-1400  
Email: [brawlings@emsl.com](mailto:brawlings@emsl.com)  
<http://www.emsl.com>

**ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 200828-0**

**Bulk Asbestos Analysis**

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

**Airborne Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

A handwritten signature in black ink, appearing to read "Dana S. Laman".

For the National Voluntary Laboratory Accreditation Program

**APPENDIX 6**

***TRIGGER LEVEL INFORMATION SHEET***

# STATE OF COLORADO RENOVATION/DEMOLITION FACT SHEET

Prior to ANY renovation or demolition in any public and commercial building that may disturb greater than the trigger levels of a suspect asbestos-containing material (ACM), an inspection must be performed to determine if abatement is required.

## Trigger Levels

Single-family residential dwelling - 32 square feet  
(SFRD) 50 linear feet  
The volume of a 55-gallon drum

All other areas excluding a SFRD - 160 square feet  
260 linear feet  
The volume of a 55-gallon drum

- Individuals performing these inspections shall be State of Colorado certified Building Inspectors.
- The inspection, sampling and assessments of the suspect materials must be performed as required by Colorado Regulation No. 8, Part B.
- Buildings, or those portions thereof, that were constructed after October, 12, 1988 shall be exempt from inspection requirements IF an architect or project engineer responsible for the construction of the building or a State of Colorado certified Building Inspector, signs a statement that no ACM was specified as a building material in any construction document for the building or that no ACM was used as a building material in the building.
- Building Inspectors must be independent of the General Abatement Contractor (GAC) who will be abating any asbestos found.
- Abatement, in accordance with Regulation No. 8, is required if the amount of ACM that will be disturbed in connection with the renovation exceeds the trigger levels.
- ANY ACM that is friable or will be made friable during demolition activities MUST be removed prior to demolition. Removal, in accordance with Regulation No. 8, is required if the amount of ACM that is friable or will become friable exceeds the trigger levels.
- A permit for abatement of friable ACM or demolition of a building, or a notice for the removal of non-friable ACM, must be applied for and received from the Division prior to commencing the activity.
  - Abatement and Demolition application forms can be obtained from:
    - [www.cdphe.state.co.us/ap/asbeshom.asp](http://www.cdphe.state.co.us/ap/asbeshom.asp)
  - Completed applications, along with the requisite fee, can be submitted to:
    - Permit Coordinator, CDPHE, APCD-SS-B1, 4300 Cherry Creek Drive S., Denver, CO 80246-1530, (303) 692-3100 by mail or in person
- There is a 10 working day waiting period from the postmark or hand-delivery date to start work on a project requiring a permit or notice.

**APPENDIX 7**

***OSHA STANDARDS***

## OSHA STANDARDS

- 29 CFR 1926.1101(g)(1)(ii), which requires: **wet methods, or wetting agents, to control employee exposures during asbestos handling, mixing, removal, cutting, application, and cleanup, except where employers demonstrate that the use of wet methods is infeasible due to, for example, the creation of electrical hazards, equipment malfunction, and, in roofing, except as provided in paragraph (g)(8)(ii)<sup>2</sup> of this section;**
- 29 CFR 1926.1101(g)(1)(iii), which requires: **prompt clean-up and disposal of wastes and debris contaminated with asbestos in leak-tight containers except in roofing operations, where the procedures specified in paragraph (g)(8)(ii)<sup>3</sup> of this section apply;**
- 29 CFR 1926.1101(g)(3)(i), which prohibits: **high-speed abrasive disc saws that are not equipped with point-of-cut ventilator or enclosures with HEPA filtered exhaust air;**
- 29 CFR 1926.1101(g)(3)(ii), which prohibits: **compressed air used to remove asbestos, or materials containing asbestos, unless the compressed air is used in conjunction with an enclosed ventilation system designed to capture the dust cloud created by the compressed air;** and
- 29 CFR 1926.1101(g)(3)(iv), which prohibits: **employee rotation as a means of reducing employee exposure to asbestos.**

Instead of making all of the engineering controls and work practices applicable to all materials containing asbestos, OSHA made most of them applicable only to installed building materials that contain >1% asbestos and assigned the term "asbestos-containing material" (ACM) to those materials. However, to prevent needless worker exposures to asbestos, OSHA made a few common-sense work practices and prohibitions applicable if any asbestos is present in materials.

Thus, the current standard contains engineering controls and work practices that apply regardless of the exposure levels to certain work activities involving only installed building materials that meet the definition of ACM. It also contains a few work practices and prohibitions for work involving material that contains any amount of asbestos regardless of the exposure levels. And the standard has exposure-based requirements, consisting of a 0.1 fiber/cc 8-hour TWA PEL and a 1 fiber/cc 30-minute excursion limit, and other requirements that apply whenever worker exposures exceed either or both of the limits, regardless of the amount of asbestos contained in the materials involved.

You **must** inform employees about the presence of material containing <1% asbestos when you know it is present. When employees perform work activities involving such material, you are required per 29 CFR 1926.1101(f)(2)(i) to assess their exposures to asbestos. In connection with this requirement you must, per 29 CFR 1926.1101(f)(6)(i), provide affected employees an opportunity to observe any monitoring of asbestos exposure. After the monitoring, you must, per 29 CFR 1926.1101(f)(5)(i) and (ii), inform employees of the monitoring results representing their asbestos exposures. In accordance with 29 CFR 1926.1101(e) and (k)(7), if asbestos exposures exceed or are likely to exceed one or both of the PELs, then you must provide warning by posting the area where these overexposures are occurring as a regulated area.

Although employers do not **have to** label containers of waste and debris containing <1% asbestos, promptly placing the waste and debris in leak-tight containers is a work practice that reduces the exposures of the employees producing the waste and debris. That is especially so because this work practice is to be used in conjunction with wet methods or wetting agents. By promptly cleaning up the waste and debris and placing it in containers, it is kept from drying out and possibly releasing airborne asbestos into the work environment. Leak-tight containers prevent the asbestos from seeping out and reintroducing an asbestos exposure hazard.