

# ASBESTOS INSPECTION REPORT

For  
Demolition  
At

**218 Dalton Ave  
La Junta, CO 81050**



Report By:

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**Subject Property:**

218 Dalton Ave  
La Junta, CO 81050

**Date(s) of Inspection:** May 2, 2018

**Date(s) of Report:** June 07, 2018

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

**I. Introduction:**

To Whom It May Concern:

On May 02, 2018, Robert Sais of All-Phase Environmental Consultants (APEC) conducted an asbestos inspection for Demolition, located at the aforementioned Subject Property. Demolition activities will disturb materials that contain asbestos putting unprotected workers at risk, and violating asbestos regulations, which are enforced by OSHA, EPA, the Colorado Department of Public Health and Environment and the Otero County Health Department.

The asbestos inspection was conducted in accordance to the Colorado Department of Health and Environment's (CDPHE) *Regulation 8*. Fifty Six (56) bulk samples were collected at the Subject Property and on the Chain of Custody. The lab separated the 56 samples submitted into additional layers; there were **76** samples total. The samples were given unique sample IDs and proper chain of custody procedures were utilized to send the samples to EMSL Analytical in Denver, CO. EMSL is an accredited laboratory through the National Voluntary Laboratory Accreditation Program (NVLAP). The samples were analyzed using Polarized Light Microscopy (PLM). The materials assessed were in significantly damaged condition throughout the Subject Property at the time of the inspection. See the laboratory report in Appendix 1.

Accessibility may have been a limiting condition. A Colorado Certified Building Inspector uses reasonable diligence and professional judgment to identify all potential asbestos containing materials in the Subject Property. 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 and EPA protocol. Materials containing ANY amount of asbestos should be handled according to OSHA protocol.

**Observations:**

The Subject Properties original structure comprised of CMU was built in 1946. At some point a large addition was added to the north and west sides of the structure. The addition was constructed with dimensional lumber. This addition included extending the roof to cover the additional space. The roof system is a stick framed design covered with traditional asphalt shingles. At the time of the inspection the Subject property had been partially demolished. The roof was collapsed onto the interior walls and the majority of the west end of the structure had been destroyed. The debris from the demo was push up against the original (CMU) structure, which was still standing at the time of inspection. The use of heavy equipment to partially demolish the Subject property complicates abatement. Heavy equipment can pulverize potential ACBM potentially rendering them friable and contaminating surrounding soil.

***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 El Paso 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**

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

- Drywall Heavy Texture (2B) located in the front room on Subject Property was confirmed to be OSHA regulated material by Point Count method:
  - *218-FR-2B-Texture is 2% Chrysotile*

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

- Drywall Swirl Texture (3A-3C) located in the Bathroom on Subject Property was confirmed to be OSHA regulated material by Point Count method:
  - *218-BH-3A-Texture is <1% Chrysotile*
  - *218-BH-3B-Joint Compound 1 is 2% Chrysotile*
  - *218-BH-3B-Joint Compound 2 is 2% Chrysotile*
  - *218-BH-3B-Composite is <1% Chrysotile*
  - *218-BH-3C-Texture is 2% Chrysotile*
  - *218-BH-3C-Joint Compound is 2% Chrysotile*

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

- Drywall Yellow/ Green (4A-4C) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
  - *218-Demo-4A-Texture is 2% Chrysotile*
  - *218-Demo-4B-Mud is 2% Chrysotile*
  - *218-Demo-4C-Mud is 2% Chrysotile*
  - *218-Demo-4C- Texture is 2% Chrysotile*

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

- Drywall Smooth Texture Yellow (5A) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:

- *218-Demo-5A-Texture is 2% Chrysotile*

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

- Drywall Heavy Sprayed (6A-6C) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:

- *218-Demo-6A-Texture is 2% Chrysotile*
- *218-Demo-6A-Joint Compound is 3% Chrysotile*
- *218-Demo-6B-Texture is 2% Chrysotile*
- *218-Demo-6C-Texture 1 is 2% Chrysotile*
- *218-Demo-6C-Texture 2 is 2% Chrysotile*

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

- Drywall Swirl Texture (7A-7B) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:

- *218-Demo-7A-Texture is 2% Chrysotile*
- *218-Demo-7A-Joint Compound is 2% Chrysotile*
- *218-demo-7B-Texture is <1% Chrysotile*

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

- Plaster Yellow (9A-9C) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:

- *218-Demo-9A-Texture is 2% Chrysotile*
- *218-Demo-9B-Texture is 2% Chrysotile*
- *218-Demo-9C-Texture is 2% Chrysotile*

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

- Plaster White Heavy Texture (11A) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
  - *218-Demo-11A-Texture is 2% Chrysotile*
- The materials assessed were in damaged condition at the time of the inspection and non-friable.
- Plaster Pink (12A-12B) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
  - *218-Demo-12A-Texture is <1% Chrysotile*
  - *218-Demo-12B-Texture is <1% Chrysotile*

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

- Stucco White/Pink (15A-15C) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
  - *218-Demo-15A-Texture is 2% Chrysotile*
  - *218-Demo-15B-Texture is <1% Chrysotile*
  - *218-Demo-15B-Texture is 2% Chrysotile*

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

- Green Stucco (16A-16B) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
  - *218-Demo-16A-Skimcoat is <1% Chrysotile*
  - *218-Demo-16B-Skimcoat is <1% Chrysotile*

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

- Wall Tile (17B-17C) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
  - *218-Demo-17B is <1% Chrysotile*
  - *218-Demo-17C-Backing is 2% Chrysotile*

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

- Flooring (19A-19B) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
  - **218-Demo-19A-Flooring is 6% Chrysotile**
  - **218-Demo-19B-Flooring is 5% Chrysotile**

The materials assessed were in damaged condition at the time of the inspection and non-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 1946
2. This structure was partially demolished.
3. Remaining areas included, front room, bedroom #1 and bedroom #2
4. Wood floors in front area and bedroom # 1.
5. Bedroom # 2 was a converted garage with slab on grade floor.
6. Water damage on floors and walls was observed on 100% of the structure.
7. CMU construction throughout original exterior
8. Ceiling tile was observed in bedroom #2
9. Due to demolishing efforts roof damage is severe; the majority of the ceilings are heavily damage.
10. The Demolition scattered debris through-out the exterior of property onto the ground.
11. **Abatement will have to include clean-up of areas surrounding subject property.**

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

**IV. Lab Results – Confirmed Asbestos**

**Thirty Five (35)** 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:

| <b>Sample ID</b>    | <b>Material</b>         | <b>Location</b>          | <b>Asbestos Content</b>  | <b>Quantity</b>      |
|---------------------|-------------------------|--------------------------|--------------------------|----------------------|
| <b>218-FR-2B</b>    | <b>Texture</b>          | <b>Front Room</b>        | <b>2% Chrysotile</b>     | <b>TBV</b>           |
| <b>218-BH-3A</b>    | <b>Texture</b>          | <b>Bathroom</b>          | <b>&lt;1% Chrysotile</b> |                      |
| <b>218-BH-3B</b>    | <b>Joint Compound 1</b> |                          | <b>2% Chrysotile</b>     | <b>TBV</b>           |
| <b>218-BH-3B</b>    | <b>Joint Compound 2</b> |                          | <b>2% Chrysotile</b>     | <b>TBV</b>           |
| <b>218-BH-3B</b>    | <b>Composite</b>        |                          | <b>&lt;1% Chrysotile</b> |                      |
| <b>218-BH-3C</b>    | <b>Texture</b>          |                          | <b>2% Chrysotile</b>     |                      |
| <b>218-BH-3C</b>    | <b>Joint Compound</b>   |                          | <b>2% Chrysotile</b>     | <b>TBV</b>           |
| <b>218-Demo-4A</b>  | <b>Texture</b>          |                          | <b>Demolished Area</b>   | <b>2% Chrysotile</b> |
| <b>218-Demo-4B</b>  | <b>Mud</b>              | <b>2% Chrysotile</b>     |                          | <b>TBV</b>           |
| <b>218-Demo-4C</b>  | <b>Mud</b>              | <b>2% Chrysotile</b>     |                          |                      |
| <b>218-Demo-4C</b>  | <b>Texture</b>          | <b>2% Chrysotile</b>     |                          |                      |
| <b>218-Demo-5A</b>  | <b>Texture</b>          | <b>2% Chrysotile</b>     |                          | <b>TBV</b>           |
| <b>218-Demo-6A</b>  | <b>Texture</b>          | <b>2% Chrysotile</b>     |                          | <b>TBV</b>           |
| <b>218-Demo-6A</b>  | <b>Joint Compound</b>   | <b>3% Chrysotile</b>     |                          | <b>TBV</b>           |
| <b>218-Demo-6B</b>  | <b>Texture</b>          | <b>2% Chrysotile</b>     |                          | <b>TBV</b>           |
| <b>218-Demo-6C</b>  | <b>Texture 1</b>        | <b>2% Chrysotile</b>     |                          | <b>TBV</b>           |
| <b>218-Demo-6C</b>  | <b>Texture 2</b>        | <b>2% Chrysotile</b>     |                          | <b>TBV</b>           |
| <b>218-Demo-7A</b>  | <b>Texture</b>          | <b>2% Chrysotile</b>     |                          | <b>TBV</b>           |
| <b>218-Demo-7A</b>  | <b>Joint Compound</b>   | <b>2% Chrysotile</b>     |                          | <b>TBV</b>           |
| <b>218-Demo-7B</b>  | <b>Texture</b>          | <b>&lt;1% Chrysotile</b> |                          | <b>TBV</b>           |
| <b>218-Demo-9A</b>  | <b>Texture</b>          | <b>2% Chrysotile</b>     |                          | <b>TBV</b>           |
| <b>218-Demo-9B</b>  | <b>Texture</b>          | <b>2% Chrysotile</b>     |                          | <b>TBV</b>           |
| <b>218-Demo-9C</b>  | <b>Texture</b>          | <b>2% Chrysotile</b>     |                          | <b>TBV</b>           |
| <b>218-Demo-11A</b> | <b>Texture</b>          | <b>2% Chrysotile</b>     |                          | <b>TBV</b>           |
| <b>218-Demo-12A</b> | <b>Texture</b>          | <b>&lt;1% Chrysotile</b> |                          | <b>TBV</b>           |
| <b>218-Demo-12B</b> | <b>Texture</b>          | <b>&lt;1% Chrysotile</b> |                          | <b>TBV</b>           |
| <b>218-Demo-15A</b> | <b>Texture</b>          | <b>2% Chrysotile</b>     |                          | <b>TBV</b>           |

|                     |                          |                        |                          |            |
|---------------------|--------------------------|------------------------|--------------------------|------------|
| <b>218-Demo-15B</b> | <b>Texture</b>           | <b>Demolished Area</b> | <b>&lt;1% Chrysotile</b> | <b>TBV</b> |
| <b>218-Demo-15C</b> | <b>Texture</b>           |                        | <b>2% Chrysotile</b>     | <b>TBV</b> |
| <b>218-Demo-16A</b> | <b>Skim coat</b>         |                        | <b>&lt;1% Chrysotile</b> | <b>TBV</b> |
| <b>218-Demo-16B</b> | <b>Skim Coat</b>         |                        | <b>&lt;1% Chrysotile</b> | <b>TBV</b> |
| <b>218-Demo-17B</b> | <b>Wall Tile/ Mastic</b> |                        | <b>&lt;1% Chrysotile</b> | <b>TBV</b> |
| <b>218-Demo-17C</b> | <b>Backing</b>           |                        | <b>2% Chrysotile</b>     | <b>TBV</b> |
| <b>218-Demo-19A</b> | <b>Flooring</b>          |                        | <b>6% Chrysotile</b>     | <b>TBV</b> |
| <b>218-Demo-19B</b> | <b>Flooring</b>          |                        | <b>5% Chrysotile</b>     | <b>TBV</b> |

~ = Approximated

**TBV = To be verified by asbestos removal contractor.**

*Thirty Five (35) samples taken were confirmed to be 2% Chrysotile by EMSL Analytical, Inc. using Polarized Light Microscopy. (If Applicable) 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.)**

**Not Applicable**

## **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.

**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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**Robert Sais**

**AHERA Certified Asbestos Inspector  
Colorado Certified Asbestos Building Inspector  
Certification No. 23993**

**APPENDIX 1**

***FIELD SHEET/ASBESTOS RESULTS***

# Field Sheet/Asbestos Results

Site Address: 218 Dalton Avenue, La Junta Colorado  
 Certified Sampler: Robert Sais

| APEC # 18-3076           |                              | DATE INSPECTED: 5/02/2018  |                               |                |               |                  |                  |                     |           |                   |            |                |     |
|--------------------------|------------------------------|----------------------------|-------------------------------|----------------|---------------|------------------|------------------|---------------------|-----------|-------------------|------------|----------------|-----|
| 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 |     |
| Front Room               | 1                            | 218-FR-1A-Joint Compound   | Drywall Heavy Textured        | Joint Compound | SD            | Negative         | ND               | NA                  | TBD       | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-FR-1A-Drywall          | Drywall Heavy Textured        | Drywall        | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-FR-1B-Joint Compound   | Drywall Heavy Textured        | Joint Compound | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-FR-1B-Drywall          | Drywall Heavy Textured        | Drywall        | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-FR-1C-Joint Compound   | Drywall Heavy Textured        | Joint Compound | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-FR-1C-Drywall          | Drywall Heavy Textured        | Drywall        | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-FR-2A-Texture          | Drywall Heavy Textured        | Texture        | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-FR-2A-Tape             | Drywall Heavy Textured        | Tape           | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-FR-2A-Joint Compound   | Drywall Heavy Textured        | Joint Compound | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-FR-2A-Drywall          | Drywall Heavy Textured        | Drywall        | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-FR-2B-Texture          | Drywall Heavy Textured        | Texture        | SD            | Positive         | 2% Chrysotile    | NA                  |           | Surfacing         | Friable    | 3              |     |
|                          |                              | 218-FR-2B-Joint Compound   | Drywall Heavy Textured        | Joint Compound | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-FR-2B-Drywall          | Drywall Heavy Textured        | Drywall        | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-FR-2C-Texture          | Drywall Heavy Textured        | Texture        | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
| 218-FR-2C-Joint Compound | Drywall Heavy Textured       | Joint Compound             | SD                            | Negative       | ND            | NA               | Surfacing        | Friable             | N/A       |                   |            |                |     |
| 218-FR-2C-Drywall        | Drywall Heavy Textured       | Drywall                    | SD                            | Negative       | ND            | NA               | Surfacing        | Friable             | N/A       |                   |            |                |     |
| Bath                     | 2                            | 218-BH-3A-Texture          | Drywall Swirl Texture         | Texture        | SD            | Positive         | <1% Chrysotile   | NA                  | TBD       | Surfacing         | Friable    | 3              |     |
|                          |                              | 218-BH-3A-Drywall          | Drywall Swirl Texture         | Drywall        | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-BH-3B-Joint Compound 1 | Drywall Swirl Texture         | Joint Compound | SD            | Positive         | 2% Chrysotile    | NA                  |           | Surfacing         | Friable    | 3              |     |
|                          |                              | 218-BH-3B-Tape             | Drywall Swirl Texture         | Tape           | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-BH-3B-Joint Compound 2 | Drywall Swirl Texture         | Joint Compound | SD            | Positive         | 2% Chrysotile    | NA                  |           | Surfacing         | Friable    | 3              |     |
|                          |                              | 218-BH-3B-Drywall          | Drywall Swirl Texture         | Drywall        | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-BH-3B-Composite        | Drywall Swirl Texture         | Composite      | SD            | Positive         | <1% Chrysotile   | NA                  |           | Surfacing         | Friable    | 3              |     |
|                          |                              | 218-BH-3C-Texture          | Drywall Swirl Texture         | Texture        | SD            | Positive         | 2% Chrysotile    | NA                  |           | Surfacing         | Friable    | 3              |     |
|                          |                              | 218-BH-3C-Tape             | Drywall Swirl Texture         | Tape           | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-BH-3C-Joint Compound   | Drywall Swirl Texture         | Joint Compound | SD            | Positive         | 2% Chrysotile    | NA                  |           | Surfacing         | Friable    | 3              |     |
| 218-BH-3C-Drywall        | Drywall Swirl Texture        | Drywall                    | SD                            | Negative       | ND            | NA               | Surfacing        | Friable             | N/A       |                   |            |                |     |
|                          |                              | 218-Demo-4A-Texture        | Drywall Yellow/Green          | Texture        | SD            | Positive         | 2% Chrysotile    | NA                  | TBD       | Surfacing         | Friable    | 3              |     |
|                          |                              | 218-Demo-4A-Drywall        | Drywall Yellow/Green          | Drywall        | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-Demo-4B-Mud            | Drywall Yellow/Green          | Mud            | SD            | Positive         | 2% Chrysotile    | NA                  |           | Surfacing         | Friable    | 3              |     |
|                          |                              | 218-Demo-4B-Drywall        | Drywall Yellow/Green          | Drywall        | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-Demo-4C-Mud            | Drywall Yellow/Green          | Mud            | SD            | Positive         | 2% Chrysotile    | NA                  |           | Surfacing         | Friable    | 3              |     |
|                          |                              | 218-Demo-4C-Texture        | Drywall Yellow/Green          | Texture        | SD            | Positive         | 2% Chrysotile    | NA                  |           | Surfacing         | Friable    | 3              |     |
|                          |                              | 218-Demo-4C-Drywall        | Drywall Yellow/Green          | Drywall        | SD            | Negative         | ND               | NA                  | Surfacing | Friable           | N/A        |                |     |
|                          |                              | 218-Demo-5A-Texture        | Drywall Smooth Texture Yellow | Texture        | SD            | Positive         | 2% Chrysotile    | NA                  | TBD       | Surfacing         | Friable    | 3              |     |
|                          |                              | 218-Demo-5A-Drywall        | Drywall Smooth Texture Yellow | Drywall        | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-Demo-5B-Drywall        | Drywall Smooth Texture Yellow | Drywall        | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-Demo-5C-Drywall        | Drywall Smooth Texture Yellow | Drywall        | SD            | Negative         | ND               | NA                  |           | Surfacing         | Friable    | N/A            |     |
|                          |                              | 218-Demo-6A-Texture        | Drywall Heavy Sprayed         | Texture        | SD            | Positive         | 2% Chrysotile    | NA                  |           | TBD               | Surfacing  | Friable        | 3   |
|                          |                              | 218-Demo-6A-Tape           | Drywall Heavy Sprayed         | Tape           | SD            | Negative         | ND               | NA                  |           |                   | Surfacing  | Friable        | N/A |
|                          |                              | 218-Demo-6A-Joint Compound | Drywall Heavy Sprayed         | Joint Compound | SD            | Positive         | 3% Chrysotile    | NA                  | Surfacing |                   | Friable    | 3              |     |
|                          |                              | 218-Demo-6A-Drywall        | Drywall Heavy Sprayed         | Drywall        | SD            | Negative         | ND               | NA                  | Surfacing |                   | Friable    | N/A            |     |
|                          |                              | 218-Demo-6B-Texture        | Drywall Heavy Sprayed         | Texture        | SD            | Positive         | 2% Chrysotile    | NA                  | Surfacing |                   | Friable    | 3              |     |
|                          |                              | 218-Demo-6B-Drywall        | Drywall Heavy Sprayed         | Drywall        | SD            | Negative         | ND               | NA                  | Surfacing |                   | Friable    | N/A            |     |
|                          |                              | 218-Demo-6C-Texture 1      | Drywall Heavy Sprayed         | Texture        | SD            | Positive         | 2% Chrysotile    | NA                  | Surfacing |                   | Friable    | 3              |     |
| 218-Demo-6C-Texture 2    | Drywall Heavy Sprayed        | Texture                    | SD                            | Positive       | 2% Chrysotile | NA               | Surfacing        | Friable             | 3         |                   |            |                |     |
| 218-Demo-6C-Drywall      | Drywall Heavy Sprayed        | Drywall                    | SD                            | Negative       | ND            | NA               | Surfacing        | Friable             | N/A       |                   |            |                |     |
| 218-Demo-7A-Texture      | Drywall Swirl Texture Teal   | Texture                    | SD                            | Positive       | 2% Chrysotile | NA               | Surfacing        | Friable             | 3         |                   |            |                |     |

|                      |              |                                   |                                    |                       |           |                 |                          |               |         |           |                  |                  |                  |                  |                  |                      |                |          |
|----------------------|--------------|-----------------------------------|------------------------------------|-----------------------|-----------|-----------------|--------------------------|---------------|---------|-----------|------------------|------------------|------------------|------------------|------------------|----------------------|----------------|----------|
| Demolished Area      | 3            | 218-Demo-7A-Tape                  | Drywall Swirl Texture Teal         | Tape                  | SD        | Negative        | ND                       | NA            | TBD     | Surfacing | Friable          | N/A              |                  |                  |                  |                      |                |          |
|                      |              | <b>218-Demo-7A-Joint Compound</b> | <b>Drywall Swirl Texture Teal</b>  | <b>Joint Compound</b> | <b>SD</b> | <b>Positive</b> | <b>2% Chrysotile</b>     | <b>NA</b>     |         |           | <b>Surfacing</b> | <b>Friable</b>   | <b>3</b>         |                  |                  |                      |                |          |
|                      |              | 218-Demo-7A-Drywall               | Drywall Swirl Texture Teal         | Drywall               | SD        | Negative        | ND                       | NA            |         | Surfacing | Friable          | N/A              |                  |                  |                  |                      |                |          |
|                      |              | 218-Demo-7B-Texture               | Drywall Swirl Texture Teal         | Texture               | SD        | Negative        | ND                       | NA            |         | Surfacing | Friable          | N/A              |                  |                  |                  |                      |                |          |
|                      |              | 218-Demo-7B-Drywall               | Drywall Swirl Texture Teal         | Drywall               | SD        | Negative        | ND                       | NA            |         | Surfacing | Friable          | N/A              |                  |                  |                  |                      |                |          |
|                      |              | <b>218-Demo-7B-Texture</b>        | <b>Drywall Swirl Texture Teal</b>  | <b>Texture</b>        | <b>SD</b> | <b>Positive</b> | <b>&lt;1% Chrysotile</b> | <b>NA</b>     |         |           | <b>Surfacing</b> | <b>Friable</b>   | <b>3</b>         |                  |                  |                      |                |          |
|                      |              | 218-Demo-8A-Skimcoat              | Plaster Purple                     | Skimcoat              | SD        | Negative        | ND                       | NA            |         | TBD       | Surfacing        | Friable          | N/A              |                  |                  |                      |                |          |
|                      |              | 218-Demo-8A-Plaster               | Plaster Purple                     | Plaster               | SD        | Negative        | ND                       | NA            |         |           | Surfacing        | Friable          | N/A              |                  |                  |                      |                |          |
|                      |              | 218-Demo-8B-Skimcoat              | Plaster Purple                     | Skimcoat              | SD        | Negative        | ND                       | NA            |         |           | Surfacing        | Friable          | N/A              |                  |                  |                      |                |          |
|                      |              | 218-Demo-8B-Plaster               | Plaster Purple                     | Plaster               | SD        | Negative        | ND                       | NA            |         |           | Surfacing        | Friable          | N/A              |                  |                  |                      |                |          |
|                      |              | 218-Demo-8C-Skimcoat              | Plaster Purple                     | Skimcoat              | SD        | Negative        | ND                       | NA            |         |           | Surfacing        | Friable          | N/A              |                  |                  |                      |                |          |
|                      |              | 218-Demo-8C-Plaster               | Plaster Purple                     | Plaster               | SD        | Negative        | ND                       | NA            |         |           | Surfacing        | Friable          | N/A              |                  |                  |                      |                |          |
|                      |              | <b>218-Demo-9A-Texture</b>        | <b>Plaster Yellow</b>              | <b>Texture</b>        | <b>SD</b> | <b>Positive</b> | <b>2% Chrysotile</b>     | <b>NA</b>     |         |           |                  | <b>Surfacing</b> | <b>Friable</b>   | <b>3</b>         |                  |                      |                |          |
|                      |              | 218-Demo-9A-Plaster               | Plaster Yellow                     | Plaster               | SD        | Negative        | ND                       | NA            |         |           | TBD              | Surfacing        | Friable          | N/A              |                  |                      |                |          |
|                      |              | <b>218-Demo-9B-Texture</b>        | <b>Plaster Yellow</b>              | <b>Texture</b>        | <b>SD</b> | <b>Positive</b> | <b>2% Chrysotile</b>     | <b>NA</b>     |         |           |                  |                  | <b>Surfacing</b> | <b>Friable</b>   | <b>3</b>         |                      |                |          |
|                      |              | 218-Demo-9B-Plaster               | Plaster Yellow                     | Plaster               | SD        | Negative        | ND                       | NA            |         |           |                  | Surfacing        | Friable          | N/A              |                  |                      |                |          |
|                      |              | <b>218-Demo-9C-Texture</b>        | <b>Plaster Yellow</b>              | <b>Texture</b>        | <b>SD</b> | <b>Negative</b> | <b>2% Chrysotile</b>     | <b>NA</b>     |         |           |                  |                  | <b>Surfacing</b> | <b>Friable</b>   | <b>3</b>         |                      |                |          |
|                      |              | 218-Demo-9C-Plaster               | Plaster Yellow                     | Plaster               | SD        | Positive        | ND                       | NA            |         |           |                  | Surfacing        | Friable          | N/A              |                  |                      |                |          |
|                      |              | 218-Demo-10A-Skimcoat             | Plaster White                      | Skimcoat              | SD        | Negative        | ND                       | NA            |         |           |                  | TBD              | Surfacing        | Friable          | N/A              |                      |                |          |
|                      |              | 218-Demo-10A-Plaster              | Plaster White                      | Plaster               | SD        | Negative        | ND                       | NA            |         |           |                  |                  | Surfacing        | Friable          | N/A              |                      |                |          |
|                      |              | 218-Demo-10B-Texture              | Plaster White                      | Texture               | SD        | Negative        | ND                       | NA            |         |           |                  |                  | Surfacing        | Friable          | N/A              |                      |                |          |
|                      |              | 218-Demo-10B-Skimcoat             | Plaster White                      | Skimcoat              | SD        | Negative        | ND                       | NA            |         |           |                  |                  | Surfacing        | Friable          | N/A              |                      |                |          |
|                      |              | 218-Demo-10B-Plaster              | Plaster White                      | Plaster               | SD        | Negative        | ND                       | NA            |         |           |                  |                  | Surfacing        | Friable          | N/A              |                      |                |          |
|                      |              | 218-Demo-10C-Skimcoat             | Plaster White                      | Skimcoat              | SD        | Negative        | ND                       | NA            |         |           |                  |                  | Surfacing        | Friable          | N/A              |                      |                |          |
|                      |              | 218-Demo-10C-Plaster              | Plaster White                      | Plaster               | SD        | Negative        | ND                       | NA            |         |           |                  |                  | Surfacing        | Friable          | N/A              |                      |                |          |
|                      |              | <b>218-Demo-11A-Texture</b>       | <b>Plaster White Heavy Texture</b> | <b>Texture</b>        | <b>SD</b> | <b>Positive</b> | <b>2% Chrysotile</b>     | <b>NA</b>     |         |           |                  |                  |                  | <b>Surfacing</b> | <b>Friable</b>   | <b>3</b>             |                |          |
|                      |              | 218-Demo-11A-Plaster              | Plaster White Heavy Texture        | Plaster               | SD        | Negative        | ND                       | NA            |         |           |                  |                  | TBD              | Surfacing        | Friable          | N/A                  |                |          |
|                      |              | 218-Demo-11B-Texture              | Plaster White Heavy Texture        | Texture               | SD        | Negative        | ND                       | NA            |         |           |                  |                  |                  | Surfacing        | Friable          | N/A                  |                |          |
|                      |              | 218-Demo-11B-Drywall              | Plaster White Heavy Texture        | Drywall               | SD        | Negative        | ND                       | NA            |         |           |                  |                  |                  | Surfacing        | Friable          | N/A                  |                |          |
|                      |              | 218-Demo-11C-Plaster              | Plaster White Heavy Texture        | Plaster               | SD        | Negative        | ND                       | NA            |         |           |                  |                  |                  | Surfacing        | Friable          | N/A                  |                |          |
|                      |              | <b>218-Demo-12A-Texture</b>       | <b>Plaster Pink</b>                | <b>Texture</b>        | <b>SD</b> | <b>Positive</b> | <b>&lt;1% Chrysotile</b> | <b>NA</b>     |         |           |                  |                  |                  |                  | <b>Surfacing</b> | <b>Friable</b>       | <b>3</b>       |          |
|                      |              | 218-Demo-12A-Plaster              | Plaster Pink                       | Plaster               | SD        | Negative        | ND                       | NA            |         |           |                  |                  |                  | TBD              | Surfacing        | Friable              | N/A            |          |
|                      |              | <b>218-Demo-12B-Texture</b>       | <b>Plaster Pink</b>                | <b>Texture</b>        | <b>SD</b> | <b>Positive</b> | <b>&lt;1% Chrysotile</b> | <b>NA</b>     |         |           |                  |                  |                  |                  |                  | <b>Surfacing</b>     | <b>Friable</b> | <b>3</b> |
| 218-Demo-12B-Plaster | Plaster Pink | Plaster                           | SD                                 | Negative              | ND        | NA              | Surfacing                | Friable       | N/A     |           |                  |                  |                  |                  |                  |                      |                |          |
| 218-Demo-12C-texture | Plaster Pink | Texture                           | SD                                 | Negative              | ND        | NA              | Surfacing                | Friable       | N/A     |           |                  |                  |                  |                  |                  |                      |                |          |
| Bed Room             | 4            | 218-BD-13A                        | Ceiling Tile                       | Ceiling Tile          | SD        | Negative        | ND                       | NA            | ~144ft² |           |                  |                  |                  |                  | Miscellaneous    | Friable              | N/A            |          |
|                      |              | 218-BD-13B                        | Ceiling Tile                       | Ceiling Tile          | SD        | Negative        | ND                       | NA            |         |           |                  |                  |                  |                  | Miscellaneous    | Friable              | N/A            |          |
| Demolished Area      | 5            | 218-Demo-14A-Skimcoat             | Stucco Blue/Green                  | Skimcoat              | SD        | Negative        | ND                       | NA            | TBD     |           |                  |                  |                  |                  | Surfacing        | Friable              | N/A            |          |
|                      |              | 218-Demo-14A-Plaster              | Stucco Blue/Green                  | Plaster               | SD        | Negative        | ND                       | NA            |         |           |                  |                  |                  |                  | Surfacing        | Friable              | N/A            |          |
|                      |              | 218-Demo-14B-Skimcoat             | Stucco Blue/Green                  | Skimcoat              | SD        | Negative        | ND                       | NA            |         | Surfacing |                  |                  |                  |                  | Friable          | N/A                  |                |          |
|                      |              | 218-Demo-14B-Plaster              | Stucco Blue/Green                  | Plaster               | SD        | Negative        | ND                       | NA            |         | Surfacing |                  |                  |                  |                  | Friable          | N/A                  |                |          |
|                      |              | 218-Demo-14C-Plaster              | Stucco Blue/Green                  | Plaster               | SD        | Negative        | ND                       | NA            |         | Surfacing |                  |                  |                  |                  | Friable          | N/A                  |                |          |
|                      |              | <b>218-Demo-15A-Texture</b>       | <b>Stucco White/Pink</b>           | <b>Texture</b>        | <b>SD</b> | <b>Positive</b> | <b>2% Chrysotile</b>     | <b>NA</b>     |         |           |                  |                  |                  |                  | <b>Surfacing</b> | <b>Friable</b>       | <b>3</b>       |          |
|                      |              | 218-Demo-15A-Plaster              | Stucco White/Pink                  | Plaster               | SD        | Negative        | ND                       | NA            |         | TBD       |                  |                  |                  |                  | Surfacing        | Friable              | N/A            |          |
|                      |              | <b>218-Demo-15B-Texture</b>       | <b>Stucco White/Pink</b>           | <b>Texture</b>        | <b>SD</b> | <b>Positive</b> | <b>&lt;1% Chrysotile</b> | <b>NA</b>     |         |           |                  |                  |                  |                  |                  | <b>Surfacing</b>     | <b>Friable</b> | <b>3</b> |
|                      |              | 218-Demo-15B-Plaster              | Stucco White/Pink                  | Plaster               | SD        | Negative        | ND                       | NA            |         |           |                  |                  |                  |                  | Surfacing        | Friable              | N/A            |          |
|                      |              | <b>218-Demo-15C-Texture</b>       | <b>Stucco White/Pink</b>           | <b>Texture</b>        | <b>SD</b> | <b>Positive</b> | <b>2% Chrysotile</b>     | <b>NA</b>     |         |           |                  |                  |                  |                  | <b>Surfacing</b> | <b>Friable</b>       | <b>3</b>       |          |
|                      |              | 218-Demo-15C-Plaster              | Stucco White/Pink                  | Plaster               | SD        | Negative        | ND                       | NA            |         |           | Surfacing        |                  |                  |                  | Friable          | N/A                  |                |          |
|                      |              | <b>218-Demo-16A-Skimcoat</b>      | <b>Stucco Green</b>                | <b>Skimcoat</b>       | <b>SD</b> | <b>Positive</b> | <b>&lt;1% Chrysotile</b> | <b>NA</b>     |         |           |                  |                  |                  |                  | <b>Surfacing</b> | <b>Friable</b>       | <b>3</b>       |          |
|                      |              | 218-Demo-16A-Plaster              | Stucco Green                       | Plaster               | SD        | Negative        | ND                       | NA            |         |           | TBD              |                  |                  |                  | Surfacing        | Friable              | N/A            |          |
|                      |              | <b>218-Demo-16B-Skimcoat</b>      | <b>Stucco Green</b>                | <b>Skimcoat</b>       | <b>SD</b> | <b>Positive</b> | <b>&lt;1% Chrysotile</b> | <b>NA</b>     |         |           |                  |                  |                  |                  |                  | <b>Surfacing</b>     | <b>Friable</b> | <b>3</b> |
|                      |              | 218-Demo-16B-Plaster              | Stucco Green                       | Plaster               | SD        | Negative        | ND                       | NA            |         |           |                  | Surfacing        |                  |                  | Friable          | N/A                  |                |          |
|                      |              | 218-Demo-16C                      | Stucco Green                       | Stucco                | SD        | Negative        | ND                       | NA            |         |           |                  | Surfacing        |                  |                  | Friable          | N/A                  |                |          |
|                      |              | 218-Demo-17A                      | Wall Tile/ Mastic                  | Wall Tile             | SD        | Negative        | ND                       | NA            |         |           |                  | TBD              |                  |                  | Miscellaneous    | Friable              | N/A            |          |
|                      |              | <b>218-Demo-17B</b>               | <b>Wall Tile/ Mastic</b>           | <b>Wall Tile</b>      | <b>SD</b> | <b>Positive</b> | <b>&lt;1% Chrysotile</b> | <b>NA</b>     |         |           |                  |                  |                  |                  |                  | <b>Miscellaneous</b> | <b>Friable</b> | <b>4</b> |
|                      |              | 218-Demo-17C-Paneling             | Wall Tile/ Mastic                  | Paneling              | SD        | Negative        | ND                       | NA            |         |           |                  |                  |                  |                  | Surfacing        | Friable              | N/A            |          |
|                      |              | <b>218-Demo-17C-Backing</b>       | <b>Wall Tile/ Mastic</b>           | <b>Backing</b>        | <b>SD</b> | <b>Positive</b> | <b>2% Chrysotile</b>     | <b>NA</b>     |         |           |                  |                  |                  |                  |                  | <b>Miscellaneous</b> | <b>Friable</b> | <b>4</b> |
| 218-Demo-18A-Shingle | Roofing      | Shingle                           | SD                                 | Negative              | ND        | NA              |                          | Miscellaneous | Friable |           |                  |                  |                  |                  | N/A              |                      |                |          |

|                              |                 |                 |           |                 |                      |           |               |                      |                |          |
|------------------------------|-----------------|-----------------|-----------|-----------------|----------------------|-----------|---------------|----------------------|----------------|----------|
| 218-Demo-18A-Tar Paper       | Roofing         | Tar Paper       | SD        | Negative        | ND                   | NA        | TBD           | Miscellaneous        | Friable        | N/A      |
| 218-Demo-18B-Shingle         | Roofing         | Shingle         | SD        | Negative        | ND                   | NA        |               | Miscellaneous        | Friable        | N/A      |
| 218-Demo-18B-Tar Paper       | Roofing         | Tar Paper       | SD        | Negative        | ND                   | NA        |               | Miscellaneous        | Friable        | N/A      |
| <b>218-Demo-19A-Flooring</b> | <b>linoleum</b> | <b>Flooring</b> | <b>SD</b> | <b>Positive</b> | <b>6% Chrysotile</b> | <b>NA</b> | TBD           | <b>Miscellaneous</b> | <b>Friable</b> | <b>4</b> |
| 218-Demo-19A-Mastic          | linoleum        | Mastic          | SD        | Negative        | ND                   | NA        |               | Miscellaneous        | Friable        | N/A      |
| <b>218-Demo-19B-Flooring</b> | <b>linoleum</b> | <b>Flooring</b> | <b>SD</b> | <b>Positive</b> | <b>5% Chrysotile</b> | <b>NA</b> |               | <b>Miscellaneous</b> | <b>Friable</b> | <b>4</b> |
| 218-Demo-19B-Mastic          | linoleum        | Mastic          | SD        | Negative        | ND                   | NA        | Miscellaneous | Friable              | N/A            |          |
| 218-Demo-20A                 | Wire Jacket     | Wire Jacket     | SD        | Negative        | ND                   | NA        | TBD           | Miscellaneous        | Friable        | N/A      |
| 218-Demo-20B                 | Wire Jacket     | Wire Jacket     | SD        | Negative        | ND                   | NA        |               | Miscellaneous        | Friable        | N/A      |

ND = None Detected      > = Greater Than  
 NA = Not Applicable    < = Less Than  
 ft<sup>2</sup> = square feet        - = Approximated  
 \* = positive due to homogeneity

**Red = Positive**  
**Blue = OSHA**

1. Damaged or significantly damaged thermal system insulation ACM.
2. Damaged friable surfacing ACM.
3. Significantly damaged friable surfacing ACM.
4. Damaged or significantly damaged friable miscellaneous ACM.
5. ACBM with potential for damage.

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

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

**APPENDIX 2**

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



**Subject Property**



**North East**



**North**



**West**



**North West**



**West**



South End



West Foundation (addition)



East side Debris



West side Debris



Front Room



Front Room



Front Room



Ceiling Tile

**APPENDIX 3**

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



# 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:** 221803185  
**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:** 05/08/2018 10:05 AM  
**Analysis Date:** 05/15/2018  
**Collected Date:** 05/02/2018  
**Project:** 18-3076 Horn

## 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        |
| 218-FR-1A-Joint Compound<br>221803185-0001             | Drywall Hand Troweled  | Beige<br>Non-Fibrous<br>Homogeneous   | 3% Fibrous_Other | 97% Non-fibrous (Other)                    | None Detected |
| 218-FR-1A-Drywall<br>221803185-0001A                   | Drywall Hand Troweled  | Brown/White<br>Fibrous<br>Homogeneous | 15% Cellulose    | 70% Gypsum<br>15% Non-fibrous (Other)      | None Detected |
| 218-FR-1B-Joint Compound<br>221803185-0002             | Drywall Hand Troweled  | Beige<br>Non-Fibrous<br>Homogeneous   | 4% Fibrous_Other | 96% Non-fibrous (Other)                    | None Detected |
| 218-FR-1B-Drywall<br>221803185-0002A                   | Drywall Hand Troweled  | Brown/White<br>Fibrous<br>Homogeneous | 15% Cellulose    | 70% Gypsum<br>15% Non-fibrous (Other)      | None Detected |
| 218-FR-1C-Joint Compound<br>221803185-0003             | Drywall Hand Troweled  | Tan<br>Non-Fibrous<br>Homogeneous     |                  | 5% Ca Carbonate<br>95% Non-fibrous (Other) | None Detected |
| 218-FR-1C-Drywall<br>221803185-0003A                   | Drywall Hand Troweled  | Brown/White<br>Fibrous<br>Homogeneous | 5% Cellulose     | 70% Gypsum<br>25% Non-fibrous (Other)      | None Detected |
| 218-FR-2A-Texture<br>221803185-0004                    | Drywall Heavy Textured | White<br>Non-Fibrous<br>Heterogeneous |                  | 100% Non-fibrous (Other)                   | None Detected |
| Inseparable paint / coating layer included in analysis |                        |                                       |                  |  |               |
| 218-FR-2A-Tape<br>221803185-0004A                      | Drywall Heavy Textured | Beige<br>Fibrous<br>Homogeneous       | 98% Cellulose    | 2% Non-fibrous (Other)                     | None Detected |
| 218-FR-2A-Joint Compound<br>221803185-0004B            | Drywall Heavy Textured | Beige<br>Non-Fibrous<br>Homogeneous   |                  | 100% Non-fibrous (Other)                   | None Detected |
| 218-FR-2A-Drywall<br>221803185-0004C                   | Drywall Heavy Textured | Brown/White<br>Fibrous<br>Homogeneous | 15% Cellulose    | 70% Gypsum<br>15% 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: 05/15/2018 17:11:57



# EMSL Analytical, Inc.

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**EMSL Order:** 221803185  
**Customer ID:** ALLP62  
**Customer PO:**  
**Project ID:**

**Attention:** Logan Greenfield  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003  
**Project:** 18-3076 Horn

**Phone:** (719) 250-0036  
**Fax:** (719) 542-2807  
**Received Date:** 05/08/2018 10:05 AM  
**Analysis Date:** 05/15/2018  
**Collected Date:** 05/02/2018

## 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         |
| 218-FR-2B-Texture<br>221803185-0005                    | Drywall Heavy<br>Textured | White<br>Non-Fibrous<br>Homogeneous   |                  | 98% Non-fibrous (Other)                     | 2% Chrysotile  |
| 218-FR-2B-Joint<br>Compound<br>221803185-0005A         | Drywall Heavy<br>Textured | Beige<br>Non-Fibrous<br>Homogeneous   | 4% Fibrous_Other | 96% Non-fibrous (Other)                     | None Detected  |
| 218-FR-2B-Drywall<br>221803185-0005B                   | Drywall Heavy<br>Textured | Brown/White<br>Fibrous<br>Homogeneous | 15% Cellulose    | 70% Gypsum<br>15% Non-fibrous (Other)       | None Detected  |
| 218-FR-2C-Texture<br>221803185-0006                    | Drywall Heavy<br>Textured | White<br>Non-Fibrous<br>Heterogeneous |                  | 20% Ca Carbonate<br>80% Non-fibrous (Other) | None Detected  |
| Inseparable paint / coating layer included in analysis |                           |                                       |                  |   |                |
| 218-FR-2C-Joint<br>Compound<br>221803185-0006A         | Drywall Heavy<br>Textured | Tan<br>Non-Fibrous<br>Homogeneous     |                  | 5% Ca Carbonate<br>95% Non-fibrous (Other)  | None Detected  |
| 218-FR-2C-Drywall<br>221803185-0006B                   | Drywall Heavy<br>Textured | Brown/White<br>Fibrous<br>Homogeneous | 15% Cellulose    | 65% Gypsum<br>20% Non-fibrous (Other)       | None Detected  |
| 218-BH-3A-Texture<br>221803185-0007                    | Drywall Swirl Texture     | White<br>Non-Fibrous<br>Heterogeneous |                  | 100% Non-fibrous (Other)                    | <1% Chrysotile |
| Inseparable paint / coating layer included in analysis |                           |                                       |                  |   |                |
| 218-BH-3A-Drywall<br>221803185-0007A                   | Drywall Swirl Texture     | Brown/White<br>Fibrous<br>Homogeneous | 15% Cellulose    | 70% Gypsum<br>15% Non-fibrous (Other)       | None Detected  |
| 218-BH-3B-Joint<br>Compound 1<br>221803185-0008        | Drywall Swirl Texture     | Beige<br>Non-Fibrous<br>Homogeneous   |                  | 98% Non-fibrous (Other)                     | 2% Chrysotile  |

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**Project:** 18-3076 Horn

## 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         |
| 218-BH-3B-Tape<br>221803185-0008A                               | Drywall Swirl Texture | Beige<br>Fibrous<br>Homogeneous              | 98% Cellulose | 2% Non-fibrous (Other)                      | None Detected  |
| 218-BH-3B-Joint<br>Compound 2<br>221803185-0008B                | Drywall Swirl Texture | Beige<br>Non-Fibrous<br>Homogeneous          |               | 98% Non-fibrous (Other)                     | 2% Chrysotile  |
| 218-BH-3B-Drywall<br>221803185-0008C                            | Drywall Swirl Texture | Brown/White<br>Fibrous<br>Homogeneous        | 15% Cellulose | 70% Gypsum<br>15% Non-fibrous (Other)       | None Detected  |
| 218-BH-3B-Composi<br>te<br>221803185-0008D                      | Drywall Swirl Texture | Beige<br>Fibrous<br>Heterogeneous            | 25% Cellulose | 50% Gypsum<br>25% Non-fibrous (Other)       | <1% Chrysotile |
| This is a composite result of tape, joint compound, and drywall |                       |  |               |   |                |
| 218-BH-3C-Texture<br>221803185-0009                             | Drywall Swirl Texture | Tan<br>Non-Fibrous<br>Heterogeneous          |               | 10% Ca Carbonate<br>88% Non-fibrous (Other) | 2% Chrysotile  |
| Inseparable paint / coating layer included in analysis          |                       |  |               |   |                |
| 218-BH-3C-Tape<br>221803185-0009A                               | Drywall Swirl Texture | Beige<br>Fibrous<br>Homogeneous              | 99% Cellulose | 1% Non-fibrous (Other)                      | None Detected  |
| 218-BH-3C-Joint<br>Compound<br>221803185-0009B                  | Drywall Swirl Texture | Tan<br>Non-Fibrous<br>Homogeneous            |               | 10% Ca Carbonate<br>88% Non-fibrous (Other) | 2% Chrysotile  |
| 218-BH-3C-Drywall<br>221803185-0009C                            | Drywall Swirl Texture | Brown/White<br>Fibrous<br>Homogeneous        | 15% Cellulose | 65% Gypsum<br>20% Non-fibrous (Other)       | None Detected  |
| 218-DEMO-4A-Text<br>ure<br>221803185-0010                       | Drywall Yellow/Green  | White/Yellow<br>Non-Fibrous<br>Heterogeneous |               | 15% Ca Carbonate<br>83% Non-fibrous (Other) | 2% Chrysotile  |
| Inseparable paint / coating layer included in analysis          |                       |  |               |   |                |

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**Project:** 18-3076 Horn

## 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        |
| 218-DEMO-4A-Dry wall<br>221803185-0010A                | Drywall Yellow/Green             | Brown/White<br>Fibrous<br>Homogeneous          | 15% Cellulose | 70% Gypsum<br>15% Non-fibrous (Other)       | None Detected |
| 218-DEMO-4B-Mud<br>221803185-0011                      | Drywall Yellow/Green             | White<br>Non-Fibrous<br>Homogeneous            |               | 15% Ca Carbonate<br>83% Non-fibrous (Other) | 2% Chrysotile |
| 218-DEMO-4B-Dry wall<br>221803185-0011A                | Drywall Yellow/Green             | Brown/White<br>Fibrous<br>Heterogeneous        | 15% Cellulose | 70% Gypsum<br>15% Non-fibrous (Other)       | None Detected |
| Inseparable paint / coating layer included in analysis |                                  |  |               |   |               |
| 218-DEMO-4C-Mud<br>221803185-0012                      | Drywall Yellow/Green             | White<br>Non-Fibrous<br>Homogeneous            |               | 10% Ca Carbonate<br>88% Non-fibrous (Other) | 2% Chrysotile |
| 218-DEMO-4C-Texture<br>221803185-0012A                 | Drywall Yellow/Green             | Tan<br>Non-Fibrous<br>Homogeneous              |               | 98% Non-fibrous (Other)                     | 2% Chrysotile |
| 218-DEMO-4C-Dry wall<br>221803185-0012B                | Drywall Yellow/Green             | Brown/White<br>Fibrous<br>Homogeneous          | 15% Cellulose | 65% Gypsum<br>20% Non-fibrous (Other)       | None Detected |
| 218-DEMO-5A-Texture<br>221803185-0013                  | Drywall Smooth<br>Texture Yellow | Yellow/Beige<br>Non-Fibrous<br>Heterogeneous   |               | 15% Ca Carbonate<br>83% Non-fibrous (Other) | 2% Chrysotile |
| Inseparable paint / coating layer included in analysis |                                  |  |               |   |               |
| 218-DEMO-5A-Dry wall<br>221803185-0013A                | Drywall Smooth<br>Texture Yellow | Brown/White<br>Fibrous<br>Homogeneous          | 15% Cellulose | 70% Gypsum<br>15% Non-fibrous (Other)       | None Detected |
| 218-DEMO-5B-Dry wall<br>221803185-0014                 | Drywall Smooth<br>Texture Yellow | Brown/White/Yellow<br>Fibrous<br>Heterogeneous | 15% Cellulose | 70% Gypsum<br>15% Non-fibrous (Other)       | None Detected |
| Inseparable paint / coating layer included in analysis |                                  |  |               |   |               |

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**Project:** 18-3076 Horn

## 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        |
| 218-DEMO-5C-Dry wall<br>221803185-0015                 | Drywall Smooth<br>Texture Yellow | Brown/White/Yellow<br>Fibrous<br>Heterogeneous | 15% Cellulose | 65% Gypsum<br>20% Non-fibrous (Other)       | None Detected |
| Inseparable paint / coating layer included in analysis |                                  |  |               |   |               |
| 218-DEMO-6A-Texture<br>221803185-0016                  | Drywall Heavy<br>Sprayed         | White/Beige<br>Non-Fibrous<br>Heterogeneous    |               | 10% Ca Carbonate<br>88% Non-fibrous (Other) | 2% Chrysotile |
| Inseparable paint / coating layer included in analysis |                                  |  |               |   |               |
| 218-DEMO-6A-Tape<br>221803185-0016A                    | Drywall Heavy<br>Sprayed         | Beige<br>Fibrous<br>Homogeneous                | 98% Cellulose | 2% Non-fibrous (Other)                      | None Detected |
| 218-DEMO-6A-Joint Compound<br>221803185-0016B          | Drywall Heavy<br>Sprayed         | Beige<br>Non-Fibrous<br>Homogeneous            |               | 10% Ca Carbonate<br>87% Non-fibrous (Other) | 3% Chrysotile |
| 218-DEMO-6A-Dry wall<br>221803185-0016C                | Drywall Heavy<br>Sprayed         | Brown/White<br>Fibrous<br>Homogeneous          | 15% Cellulose | 70% Gypsum<br>15% Non-fibrous (Other)       | None Detected |
| 218-DEMO-6B-Texture<br>221803185-0017                  | Drywall Heavy<br>Sprayed         | White<br>Non-Fibrous<br>Heterogeneous          |               | 15% Ca Carbonate<br>83% Non-fibrous (Other) | 2% Chrysotile |
| Inseparable paint / coating layer included in analysis |                                  |  |               |   |               |
| 218-DEMO-6B-Dry wall<br>221803185-0017A                | Drywall Heavy<br>Sprayed         | Brown/White<br>Fibrous<br>Homogeneous          | 15% Cellulose | 70% Gypsum<br>15% Non-fibrous (Other)       | None Detected |
| 218-DEMO-6C-Texture 1<br>221803185-0018                | Drywall Heavy<br>Sprayed         | White<br>Non-Fibrous<br>Heterogeneous          |               | 10% Ca Carbonate<br>88% Non-fibrous (Other) | 2% Chrysotile |
| Inseparable paint / coating layer included in analysis |                                  |  |               |   |               |
| 218-DEMO-6C-Texture 2<br>221803185-0018A               | Drywall Heavy<br>Sprayed         | Tan<br>Non-Fibrous<br>Heterogeneous            |               | 10% Ca Carbonate<br>88% Non-fibrous (Other) | 2% Chrysotile |

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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         |
| 218-DEMO-6C-Dry wall<br>221803185-0018B       | Drywall Heavy Sprayed      | Brown/White Fibrous Homogeneous            | 15% Cellulose  | 70% Gypsum<br>15% Non-fibrous (Other) | None Detected  |
| 218-DEMO-7A-Texture<br>221803185-0019         | Drywall Swirl Texture Teal | Blue/Beige Non-Fibrous Heterogeneous       | Inseparable paint / coating layer included in analysis |                                       |                |
| 218-DEMO-7A-Tape<br>221803185-0019A           | Drywall Swirl Texture Teal | Beige Fibrous Homogeneous                  | 98% Cellulose  | 2% Non-fibrous (Other)                | None Detected  |
| 218-DEMO-7A-Joint Compound<br>221803185-0019B | Drywall Swirl Texture Teal | Beige Non-Fibrous Homogeneous              | Inseparable paint / coating layer included in analysis |                                       |                |
| 218-DEMO-7A-Dry wall<br>221803185-0019C       | Drywall Swirl Texture Teal | Brown/White Fibrous Homogeneous            | 15% Cellulose  | 70% Gypsum<br>15% Non-fibrous (Other) | None Detected  |
| 218-DEMO-7B-Texture<br>221803185-0020         | Drywall Swirl Texture Teal | Blue Non-Fibrous Heterogeneous             | 4% Fibrous_Other                                       | 96% Non-fibrous (Other)               | <1% Chrysotile |
| 218-DEMO-7B-Dry wall<br>221803185-0020A       | Drywall Swirl Texture Teal | Brown/White Fibrous Homogeneous            | 15% Cellulose  | 70% Gypsum<br>15% Non-fibrous (Other) | None Detected  |
| 218-DEMO-7C-Dry wall<br>221803185-0021        | Drywall Swirl Texture Teal | Brown/White/Blue Non-Fibrous Heterogeneous | 20% Cellulose  | 70% Gypsum<br>10% Non-fibrous (Other) | None Detected  |
| 218-DEMO-8A-Skim Coat<br>221803185-0022       | Plaster Purple             | White/Purple Non-Fibrous Heterogeneous     | Inseparable paint / coating layer included in analysis |                                       |                |
|   |                            |  | Inseparable paint / coating layer included in analysis |                                       |                |

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| Sample   | Description    | Appearance  | Non-Asbestos  |   | Asbestos      |
|--|----------------|---|---------------|---|---------------|
|  |                |   | % Fibrous     | % Non-Fibrous                               | % Type        |
| 218-DEMO-8A-Plaster<br>er<br>221803185-0022A           | Plaster Purple | White<br>Non-Fibrous<br>Homogeneous               |               | 100% Non-fibrous (Other)                    | None Detected |
| 218-DEMO-8B-Skim<br>Coat<br>221803185-0023             | Plaster Purple | White/Purple<br>Non-Fibrous<br>Heterogeneous      |               | 100% Non-fibrous (Other)                    | None Detected |
| Inseparable paint / coating layer included in analysis |                |   |               |   |               |
| 218-DEMO-8B-Plaster<br>er<br>221803185-0023A           | Plaster Purple | Gray<br>Non-Fibrous<br>Homogeneous                | <1% Cellulose | 100% Non-fibrous (Other)                    | None Detected |
| 218-DEMO-8C-Skim<br>Coat<br>221803185-0024             | Plaster Purple | White<br>Non-Fibrous<br>Homogeneous               |               | 100% Non-fibrous (Other)                    | None Detected |
| 218-DEMO-8C-Plaster<br>er<br>221803185-0024A           | Plaster Purple | Gray<br>Non-Fibrous<br>Homogeneous                | <1% Cellulose | 100% Non-fibrous (Other)                    | None Detected |
| 218-DEMO-9A-Texture<br>ure<br>221803185-0025           | Plaster Yellow | White/Yellow<br>Non-Fibrous<br>Heterogeneous      |               | 10% Ca Carbonate<br>88% Non-fibrous (Other) | 2% Chrysotile |
| Inseparable paint / coating layer included in analysis |                |   |               |   |               |
| 218-DEMO-9A-Plaster<br>er<br>221803185-0025A           | Plaster Yellow | Gray<br>Non-Fibrous<br>Homogeneous                |               | 5% Ca Carbonate<br>95% Non-fibrous (Other)  | None Detected |
| 218-DEMO-9B-Texture<br>re<br>221803185-0026            | Plaster Yellow | Yellow/Pink/Beige<br>Non-Fibrous<br>Heterogeneous |               | 10% Ca Carbonate<br>88% Non-fibrous (Other) | 2% Chrysotile |
| Inseparable paint / coating layer included in analysis |                |   |               |   |               |
| 218-DEMO-9B-Plaster<br>er<br>221803185-0026A           | Plaster Yellow | Gray<br>Non-Fibrous<br>Homogeneous                |               | 5% Ca Carbonate<br>95% Non-fibrous (Other)  | None Detected |

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Tel/Fax: (303) 740-5700 / (303) 741-1400  
<http://www.EMSL.com> / [denverlab@emsl.com](mailto:denverlab@emsl.com)

**EMSL Order:** 221803185  
**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:** 05/08/2018 10:05 AM  
**Analysis Date:** 05/15/2018  
**Collected Date:** 05/02/2018  
**Project:** 18-3076 Horn

## 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        |
| 218-DEMO-9C-Texture<br>221803185-0027                  | Plaster Yellow | White<br>Non-Fibrous<br>Homogeneous         |              | 5% Ca Carbonate<br>93% Non-fibrous (Other)  | 2% Chrysotile |
| 218-DEMO-9C-Plaster<br>221803185-0027A                 | Plaster Yellow | Gray<br>Non-Fibrous<br>Homogeneous          |              | 10% Ca Carbonate<br>90% Non-fibrous (Other) | None Detected |
| 218-DEMO-10A-Skim Coat<br>221803185-0028               | Plaster White  | Non-Fibrous<br>Homogeneous                  |              | 100% Non-fibrous (Other)                    | None Detected |
| 218-DEMO-10A-Plaster<br>221803185-0028A                | Plaster White  | Tan<br>Non-Fibrous<br>Homogeneous           |              | 5% Ca Carbonate<br>95% Non-fibrous (Other)  | None Detected |
| 218-DEMO-10B-Texture<br>221803185-0029                 | Plaster White  | White/Beige<br>Non-Fibrous<br>Heterogeneous |              | 100% Non-fibrous (Other)                    | None Detected |
| Inseparable paint / coating layer included in analysis |                |   |              |   |               |
| 218-DEMO-10B-Skim Coat<br>221803185-0029A              | Plaster White  | White<br>Non-Fibrous<br>Homogeneous         |              | 100% Non-fibrous (Other)                    | None Detected |
| 218-DEMO-10B-Plaster<br>221803185-0029B                | Plaster White  | Tan<br>Non-Fibrous<br>Homogeneous           |              | 5% Ca Carbonate<br>95% Non-fibrous (Other)  | None Detected |
| 218-DEMO-10C-Skim Coat<br>221803185-0030               | Plaster White  | White<br>Non-Fibrous<br>Homogeneous         |              | 100% Non-fibrous (Other)                    | None Detected |
| 218-DEMO-10C-Plaster<br>221803185-0030A                | Plaster White  | Gray<br>Non-Fibrous<br>Homogeneous          |              | 5% Ca Carbonate<br>95% 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: 05/15/2018 17:11:57



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|--|-----------------------------|---|------------------|--|----------------|
|  |                             |   | % Fibrous        | % Non-Fibrous                              | % Type         |
| 218-DEMO-11A-Texture<br>221803185-0031                 | Plaster White Heavy Texture | White<br>Non-Fibrous<br>Heterogeneous       |                  | 98% Non-fibrous (Other)                    | 2% Chrysotile  |
| Inseparable paint / coating layer included in analysis |                             |   |                  |  |                |
| 218-DEMO-11A-Plaster<br>221803185-0031A                | Plaster White Heavy Texture | Gray<br>Non-Fibrous<br>Homogeneous          |                  | 5% Ca Carbonate<br>95% Non-fibrous (Other) | None Detected  |
| 218-DEMO-11B-Texture<br>221803185-0032                 | Plaster White Heavy Texture | White<br>Non-Fibrous<br>Heterogeneous       |                  | 100% Non-fibrous (Other)                   | None Detected  |
| Inseparable paint / coating layer included in analysis |                             |   |                  |  |                |
| 218-DEMO-11B-Dry wall<br>221803185-0032A               | Plaster White Heavy Texture | Gray<br>Non-Fibrous<br>Homogeneous          |                  | 100% Non-fibrous (Other)                   | None Detected  |
| 218-DEMO-11C-Plaster<br>221803185-0033                 | Plaster White Heavy Texture | Tan/White<br>Non-Fibrous<br>Heterogeneous   |                  | 5% Ca Carbonate<br>95% Non-fibrous (Other) | None Detected  |
| Inseparable paint / coating layer included in analysis |                             |   |                  |  |                |
| 218-DEMO-12A-Texture<br>221803185-0034                 | Plaster Pink                | Yellow/Pink<br>Non-Fibrous<br>Heterogeneous | 3% Fibrous_Other | 97% Non-fibrous (Other)                    | <1% Chrysotile |
| Inseparable paint / coating layer included in analysis |                             |   |                  |  |                |
| 218-DEMO-12A-Plaster<br>221803185-0034A                | Plaster Pink                | Gray<br>Non-Fibrous<br>Homogeneous          |                  | 5% Ca Carbonate<br>95% Non-fibrous (Other) | None Detected  |
| 218-DEMO-12B-Texture<br>221803185-0035                 | Plaster Pink                | Pink<br>Non-Fibrous<br>Homogeneous          | 3% Fibrous_Other | 97% 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        |
| 218-DEMO-12B-Plaster<br>221803185-0035A                | Plaster Pink      | Gray<br>Non-Fibrous<br>Homogeneous         |               | 5% Ca Carbonate<br>95% Non-fibrous (Other) | None Detected |
| 218-DEMO-12C-Texture<br>221803185-0036                 | Plaster Pink      | Red<br>Non-Fibrous<br>Homogeneous          |               | 100% Non-fibrous (Other)                   | None Detected |
| 218-BD-13A<br>221803185-0037                           | Ceiling Tile      | Brown/White<br>Fibrous<br>Homogeneous      | 98% Cellulose | 2% Non-fibrous (Other)                     | None Detected |
| 218-BD-13B<br>221803185-0038                           | Ceiling Tile      | Tan/Beige<br>Fibrous<br>Homogeneous        | 98% Cellulose | 2% Non-fibrous (Other)                     | None Detected |
| 218-DEMO-14A-Skim Coat<br>221803185-0039               | Stucco Blue/Green | White/Blue<br>Non-Fibrous<br>Heterogeneous |               | 100% Non-fibrous (Other)                   | None Detected |
| Inseparable paint / coating layer included in analysis |                   |  |               |  |               |
| 218-DEMO-14A-Plaster<br>221803185-0039A                | Stucco Blue/Green | Gray<br>Non-Fibrous<br>Homogeneous         |               | 5% Ca Carbonate<br>95% Non-fibrous (Other) | None Detected |
| 218-DEMO-14B-Skim Coat<br>221803185-0040               | Stucco Blue/Green | Gray/White<br>Non-Fibrous<br>Heterogeneous |               | 100% Non-fibrous (Other)                   | None Detected |
| Inseparable paint / coating layer included in analysis |                   |  |               |  |               |
| 218-DEMO-14B-Plaster<br>221803185-0040A                | Stucco Blue/Green | Gray<br>Non-Fibrous<br>Homogeneous         |               | 5% Ca Carbonate<br>95% Non-fibrous (Other) | None Detected |
| 218-DEMO-14C-Plaster<br>221803185-0041                 | Stucco Blue/Green | Gray/Blue<br>Non-Fibrous<br>Heterogeneous  |               | 5% Ca Carbonate<br>95% Non-fibrous (Other) | None Detected |
| 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         |
| 218-DEMO-15A-Texture<br>221803185-0042                 | Stucco White/Pink | White/Beige<br>Non-Fibrous<br>Heterogeneous |              | 5% Ca Carbonate<br>93% Non-fibrous (Other)  | 2% Chrysotile  |
| Inseparable paint / coating layer included in analysis |                   |   |              |   |                |
| 218-DEMO-15A-Plaster<br>221803185-0042A                | Stucco White/Pink | Beige<br>Non-Fibrous<br>Homogeneous         |              | 5% Ca Carbonate<br>95% Non-fibrous (Other)  | None Detected  |
| 218-DEMO-15B-Texture<br>221803185-0043                 | Stucco White/Pink | White/Pink<br>Non-Fibrous<br>Heterogeneous  |              | 10% Ca Carbonate<br>90% Non-fibrous (Other) | <1% Chrysotile |
| Inseparable paint / coating layer included in analysis |                   |   |              |   |                |
| 218-DEMO-15B-Plaster<br>221803185-0043A                | Stucco White/Pink | White<br>Non-Fibrous<br>Homogeneous         |              | 100% Non-fibrous (Other)                    | None Detected  |
| 218-DEMO-15C-Texture<br>221803185-0044                 | Stucco White/Pink | Tan<br>Non-Fibrous<br>Homogeneous           |              | 98% Non-fibrous (Other)                     | 2% Chrysotile  |
| 218-DEMO-15C-Plaster<br>221803185-0044A                | Stucco White/Pink | Gray<br>Non-Fibrous<br>Homogeneous          |              | 5% Ca Carbonate<br>95% Non-fibrous (Other)  | None Detected  |
| 218-DEMO-16A-Ski<br>m Coat<br>221803185-0045           | Stucco Green      | White/Green<br>Non-Fibrous<br>Heterogeneous |              | 100% Non-fibrous (Other)                    | <1% Chrysotile |
| Inseparable paint / coating layer included in analysis |                   |   |              |   |                |
| 218-DEMO-16A-Plaster<br>221803185-0045A                | Stucco Green      | Gray<br>Non-Fibrous<br>Homogeneous          |              | 5% Ca Carbonate<br>95% Non-fibrous (Other)  | None Detected  |
| 218-DEMO-16B-Ski<br>m Coat<br>221803185-0046           | Stucco Green      | White/Green<br>Non-Fibrous<br>Heterogeneous |              | 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         |
| 218-DEMO-16B-Plaster<br>221803185-0046A   | Stucco Green     | Gray<br>Non-Fibrous<br>Homogeneous       |               | 5% Ca Carbonate<br>95% Non-fibrous (Other) | None Detected  |
| 218-DEMO-16C<br>221803185-0047            | Stucco Green     | Gray/White<br>Non-Fibrous<br>Homogeneous |               | 5% Ca Carbonate<br>95% Non-fibrous (Other) | None Detected  |
| 218-DEMO-17A<br>221803185-0048            | Wall Tile/Mastic | Gray<br>Non-Fibrous<br>Homogeneous       |               | 100% Non-fibrous (Other)                   | None Detected  |
| 218-DEMO-17B<br>221803185-0049            | Wall Tile/Mastic | Tan<br>Non-Fibrous<br>Homogeneous        |               | 100% Non-fibrous (Other)                   | <1% Chrysotile |
| 218-DEMO-17C-Paneling<br>221803185-0050   | Wall Tile/Mastic | Beige<br>Non-Fibrous<br>Homogeneous      |               | 100% Non-fibrous (Other)                   | None Detected  |
| 218-DEMO-17C-Banking<br>221803185-0050A   | Wall Tile/Mastic | Tan<br>Non-Fibrous<br>Homogeneous        |               | 5% Ca Carbonate<br>93% Non-fibrous (Other) | 2% Chrysotile  |
| 218-DEMO-18A-Shingle<br>221803185-0051    | Roofing          | Black<br>Fibrous<br>Homogeneous          | 25% Cellulose | 75% Non-fibrous (Other)                    | None Detected  |
| 218-DEMO-18A-Tar Paper<br>221803185-0051A | Roofing          | Black<br>Fibrous<br>Homogeneous          | 40% Cellulose | 60% Non-fibrous (Other)                    | None Detected  |
| 218-DEMO-18B-Shingle<br>221803185-0052    | Roofing          | Black<br>Non-Fibrous<br>Homogeneous      | 25% Cellulose | 75% Non-fibrous (Other)                    | None Detected  |
| 218-DEMO-18B-Tar Paper<br>221803185-0052A | Roofing          | Black<br>Fibrous<br>Homogeneous          | 55% Cellulose | 45% Non-fibrous (Other)                    | None Detected  |

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| Sample                                      | Description | Appearance                          | Non-Asbestos               |                          | Asbestos      |
|---|-------------|-------------------------------------|----------------------------|--------------------------|---------------|
|   |             |                                     | % Fibrous                  | % Non-Fibrous            | % Type        |
| 218-DEMO-19A-Flo<br>oring<br>221803185-0053 | Linoleum    | Beige<br>Non-Fibrous<br>Homogeneous |                            | 94% Non-fibrous (Other)  | 6% Chrysotile |
| 218-DEMO-19A-Ma<br>stic<br>221803185-0053A  | Linoleum    | Brown<br>Non-Fibrous<br>Homogeneous |                            | 100% Non-fibrous (Other) | None Detected |
| 218-DEMO-19B-Floo<br>ring<br>221803185-0054 | Linoleum    | White<br>Non-Fibrous<br>Homogeneous |                            | 95% Non-fibrous (Other)  | 5% Chrysotile |
| 218-DEMO-19B-Mas<br>tic<br>221803185-0054A  | Linoleum    | Black<br>Non-Fibrous<br>Homogeneous |                            | 100% Non-fibrous (Other) | None Detected |
| 218-DEMO-20A<br>221803185-0055              | Wire Jacket | Brown<br>Fibrous<br>Homogeneous     | 50% Cellulose<br>25% Glass | 25% Non-fibrous (Other)  | None Detected |
| 218-DEMO-20B<br>221803185-0056              | Wire Jacket | Gray/Tan<br>Fibrous<br>Homogeneous  | 50% Cellulose<br>25% Glass | 25% Non-fibrous (Other)  | None Detected |

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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: 05/08/2018      Sample Receipt Time: 10:05 AM  
Analysis Completed Date: 05/15/2018      Analysis Completed Time: 5:09 PM

### Analyst(s):

Amanda Lang PLM (31)

Gentry Catlett PLM (77)

Timothy Kleehammer PLM (7)

### Samples Reviewed and approved by:

Amanda Lang, Asbestos Laboratory Manager  
or other approved signatory

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**APPENDIX 4**

***CHAIN OF CUSTODY FORMS***

EMSL Analytical, Inc.  
1010 Yuma Street



EMSL ANALYTICAL, INC  
LABORATORY • PRODUCTS • TRAINING

### Asbestos Chain of Custody

EMSL Order Number (Lab Use Only)

**221803185**

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<br><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): Robert Sais                      |                    | Telephone #: 719-545-0375   |                        |
| Email Address: logan@allphaseenvironmental.com     |                    | Fax #:  | Purchase Order:        |
| Project Name/Number: 18-3076 Horn                  |                    | 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<br><input type="checkbox"/> NIOSH 7400<br><input type="checkbox"/> w/ OSHA 8hr. TWA  | <b>TEM - Air</b> <input type="checkbox"/> 4-4.5hr TAT (AHERA only)<br><input type="checkbox"/> AHERA 40 CFR, Part 763<br><input type="checkbox"/> NIOSH 7402<br><input type="checkbox"/> EPA Level II<br><input type="checkbox"/> ISO 10312 | <b>TEM- Dust</b><br><input type="checkbox"/> Microvac - ASTM D 5755<br><input type="checkbox"/> Wipe - ASTM D6480<br><input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)   |
| <b>PLM - Bulk (reporting limit)</b><br><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)<br><input type="checkbox"/> PLM EPA NOB (<1%)<br>Point Count<br><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)<br>Point Count w/Gravimetric<br><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)<br><input type="checkbox"/> NYS 198.1 (friable in NY)<br><input type="checkbox"/> NYS 198.6 NOB (non-friable-NY)<br><input type="checkbox"/> NIOSH 9002 (<1%) | <b>TEM - Bulk</b><br><input type="checkbox"/> TEM EPA NOB<br><input type="checkbox"/> NYS NOB 198.4 (non-friable-NY)<br><input type="checkbox"/> Chatfield SOP<br><input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5               | <b>Soil/Rock/Vermiculite</b><br><input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity)<br><input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity)<br><input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity)<br><input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity)<br><input type="checkbox"/> TEM Qual. via Filtration Technique<br><input type="checkbox"/> TEM Qual. via Drop-Mount Technique |
| <input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group  |   | <b>Filter Pore Size (Air Samples):</b> <input type="checkbox"/> 0.8µm <input type="checkbox"/> 0.45µm  |

Samplers Name: **Robert Sais**      Samplers Signature: *Robert Sais*

| Sample #  | Sample Description     | Volume/Area (Air)<br>HA # (Bulk) | Date/Time<br>Sampled |
|-----------|------------------------|----------------------------------|----------------------|
| 218-FR-1A | Drywall Hand trowel    |                                  | 5/2/18               |
| 1B        | ↓                      |                                  |                      |
| 1C        | ↓                      |                                  |                      |
| 2A        | Drywall Heavy textured |                                  |                      |
| 2B        | ↓                      |                                  |                      |
| 2C        | ↓                      |                                  |                      |
| 218-BH-3A | Drywall swirl texture  |                                  |                      |
| 3B        | ↓                      |                                  |                      |

|  |             |                     |         |
|--|-------------|---------------------|---------|
| Client Sample # (s):                                   | -           | Total # of Samples: | 56      |
| Relinquished (Client):                                 | Robert Sais | Date:               | 5/7/18  |
|  |             | Time:               | 4:30pm  |
| Received (Lab):  | <i>CS</i>   | Date:               | 5/8/18  |
|  |             | Time:               | 10:05am |
| Comments/Special Instructions: EMFE 7954 7364 7950 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)<br>HA # (Bulk) | Date/Time<br>Sampled |
|-------------|-----------------------------|----------------------------------|----------------------|
| 218-BH-3C   | Dry Wall Swirl texture      |                                  | 5/2/18               |
| 218-Demo-4A | Dry wall yellow / Green     |                                  |                      |
| 4B          | ↓                           |                                  |                      |
| 4C          | <del>Dry wall</del> ↓       |                                  |                      |
| 5A          | Dry wall Smooth texture     |                                  |                      |
| 5B          | ↓ yellow                    |                                  |                      |
| 5C          | ↓                           |                                  |                      |
| 6A          | Dry wall Heavy sprayed      |                                  |                      |
| 6B          | ↓                           |                                  |                      |
| 6C          | ↓                           |                                  |                      |
| 7A          | Dry wall Swirl texture      |                                  |                      |
| 7B          | ↓ flat                      |                                  |                      |
| 7C          | ↓                           |                                  |                      |
| 8A          | Plaster Purple              |                                  |                      |
| 8B          | ↓                           |                                  |                      |
| 8C          | ↓                           |                                  |                      |
| 9A          | Plaster yellow              |                                  |                      |
| 9B          | ↓                           |                                  |                      |
| 9C          | ↓                           |                                  |                      |
| 10A         | Plaster white               |                                  |                      |
| 10B         | ↓                           |                                  |                      |
| 10C         | ↓                           |                                  |                      |
| 11A         | plaster white Heavy texture |                                  |                      |
| 11B         | ↓                           |                                  |                      |

\*Comments/Special Instructions:



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LABORATORY PRODUCTS • TRAINING

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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)<br>HA # (Bulk) | Date/Time<br>Sampled |
|--------------|-----------------------------|----------------------------------|----------------------|
| 218-Demo-11C | plaster white Heavy texture |                                  | 5/2/18               |
| 12A          | plaster pink                |                                  |                      |
| 12B          | ↓                           |                                  |                      |
| ✓ 12C        | ↓                           |                                  |                      |
| 218-Demo-13A | ceiling tile                |                                  |                      |
| ↓ 13B        | ↓                           |                                  |                      |
| 218-Demo 14A | stucco Blue / Green         |                                  |                      |
| 14B          | ↓                           |                                  |                      |
| ✓ 14C        | ↓                           |                                  |                      |
| 15A          | stucco white / pink         |                                  |                      |
| 15B          | ↓                           |                                  |                      |
| 15C          | ↓                           |                                  |                      |
| 16A          | stucco Green                |                                  |                      |
| 16B          | ↓                           |                                  |                      |
| 16C          | ↓                           |                                  |                      |
| 17A          | wall tile / Mastic          |                                  |                      |
| 17B          | ↓                           |                                  |                      |
| 17C          | ↓                           |                                  |                      |
| 18A          | Roofing                     |                                  |                      |
| 18B          | ↓                           |                                  |                      |
| 19A          | linoleum                    |                                  |                      |
| 19B          | ↓                           |                                  |                      |
| 20A          | wave Jacket                 |                                  |                      |
| ✓ 20B        | ↓                           |                                  | ✓                    |

\*Comments/Special Instructions:

**APPENDIX 5**

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



Colorado Department  
of Public Health  
and Environment

## ASBESTOS CERTIFICATION\*

This certifies that

**Robert Sais**

**Certification No.: 23993**

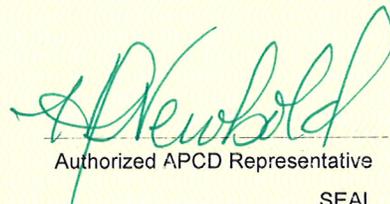
has met the requirements of 25-7-507, C.R.S. and Air Quality Control  
Commission Regulation No. 8, Part B, and is hereby certified by the  
state of Colorado in the following discipline:

**Building Inspector\***

**Issued:** October 06, 2017

**Expires:** October 06, 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



**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 cursive script, appearing to read "Dana S. Laman".

For the National Voluntary Laboratory Accreditation Program

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:*

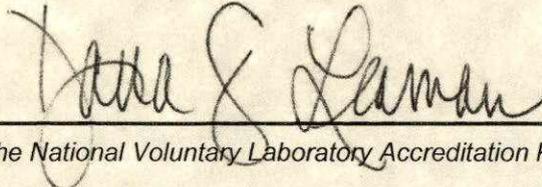
**Asbestos Fiber Analysis**

*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

**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.