

# **Safety & Environmental Investigations, Inc.**



## **ASBESTOS / LEAD PAINT INSPECTION REPORT**

**Cherokee Village Hospital Clinics / Storage Buildings  
122 Hospital Drive  
Cherokee Village, Arkansas 72529**

**February 2017**

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122 Hospital Drive  
Cherokee Village, Arkansas 72529**

**February 2017**

*Prepared For:*

**FTN Associates, Ltd  
3 Innwood Circle, Ste 320  
Little Rock, Arkansas 72211**

*Prepared By:*

**Safety & Environmental Investigations, Inc.  
PO Box 22038  
Little Rock, Arkansas 72221**

**Asbestos / Lead Paint Inspection Report**  
**Cherokee Village Hospital Clinics / Storage Buildings**  
**122 Hospital Drive**  
**Cherokee Village, Arkansas 72529**

Safety & Environmental Investigations, (SEI) Inc. was retained by FTN Associates, Ltd. to perform a pre-demolition asbestos and lead paint inspection of the Cherokee Village Hospital Clinics and Storage Buildings located at 122 Hospital Drive, Cherokee Village, Arkansas. On December 19<sup>th</sup> – 20<sup>th</sup>, 2016, Mr. Robert Roberson (Certification #011542) and Mr. Ricky Barton (Certification #000296) of SEI, Inc. (License #000260) performed the on-site inspection and sampling of the vacant commercial structure for the presence of suspect asbestos-containing materials and lead-based paints. The inspection was performed following EPA AHERA guidelines (40 CFR 763) and NESHAP (40 CFR 61, Subpart M) and the Arkansas Department of Environmental Quality, Regulation 21.

### **Background**

The structures associated with the Cherokee Village Hospital include a Small Clinic, a Large Clinic, and 4 portable storage buildings, and one large metal storage building. These buildings are located on the same property as the Main Hospital structure. According to the client, there are plans for future demolition.

The Small Clinic is a single-story, wood-framed structure with a pitched-shingled roof on a concrete slab foundation. The interior finishes consisted of textured ceilings, sheet rock walls and linoleum flooring. The structure was vacant and in fair condition at the time of the inspection.

The Large Clinic is a single-story metal framed structure with a pitched shingled roof on a concrete foundation. The interior finishes consisted of sheet rock walls and ceilings with carpet and linoleum flooring throughout. The structure was vacant and in disrepair at the time of the inspection.

The four small storage buildings consist of wood and metal framed structures with pitched metal or shingled roofs. The structures were mostly vacant, with some material stored. They were in fair condition at the time of the inspection.

One large storage building, located to the East of the main structure was set on a concrete slab with metal frame and metal siding. The structure was utilized for storage and was full of miscellaneous stored materials at the time of the inspection. The date of construction was unknown and according to the client the structures are scheduled for future demolition.

### **Purpose of Study**

The purpose of this study was to identify and collect samples of suspect asbestos-containing materials and lead-based paints from the vacant structure for laboratory analysis. At the client's request, an inspection for the presence of suspect asbestos-containing materials was performed of the entire structure. Identified asbestos-containing materials have been quantified.

Sampling was performed in accordance with guidelines published in the Asbestos Hazard Emergency Response Act (AHERA), 40 CFR Part 763. Suspect asbestos-containing materials were divided into three different categories: surfacing, thermal system insulation, and miscellaneous materials. Each category of materials was divided into homogeneous areas, which are defined as materials similar in appearance, color, texture, and installation date. Samples were collected from each homogeneous area according to the following scale:

Surfacing Materials:	<1000 sq. ft.	3 Samples
	1,000 – 5,000 sq. ft.	5 Samples
	>5,000 sq. ft.	7 Samples
Thermal System Insulation	any amount	3 Samples Minimum
Miscellaneous Materials	any amount	2 Samples Minimum

The Environmental Protection Agency defines an asbestos-containing material as any material which contains greater than one percent (1%) asbestos by weight. The entire homogeneous area is classified as asbestos-containing if any one (1) of the samples collected from that area is found to contain more than 1% asbestos. All samples collected from a homogeneous material must reveal a result of one (1) percent asbestos or less for a material to be considered non-asbestos containing.

The condition of suspect homogeneous areas was assessed to determine if the materials were friable (RACM) or non-friable. Friable materials (RACM) are materials that when dry can be crumbled, pulverized, or reduced to powder by hand pressure. Non-Friable materials are materials that cannot be crumbled, pulverized, or reduced to powder by hand pressure when dry. Non-Friable materials are divided into two categories, Category I Non-Friable materials, (asbestos-containing packing, gaskets, resilient floor coverings, and asphalt roofing products that contain >1% asbestos), and Category II Non-Friable materials (any material, excluding category I non-friable ACM, containing >1% asbestos that cannot be crumbled, pulverized, or reduced to powder by hand pressure).

Asbestos samples were analyzed via Polarized Light Microscopy utilizing EPA Method 600/R-93/116 by Crisp Analytical Laboratories, LLC. Carrollton, Texas. CA Labs is accredited by the National Institute for Standards and Testing, National Voluntary Laboratory Accreditation Program for Bulk Asbestos Analysis (NVLAP Air and Bulk #200349-0). It should be noted EPA NESHAPS recommends point-counting of positive asbestos results revealing less than 10% asbestos content by visual estimation.

**Findings: Asbestos-containing Materials**

The following table provides a summary of the suspect materials sampled from the structures, along with the analytical results and locations of the materials.

**Table I – Asbestos Sample Summary  
Small Clinic  
122 Hospital Drive**

<b>HA#</b>	<b>Sample No.</b>	<b>Description</b>	<b>Analysis Result %/Type ACM</b>	<b>Sample Location</b>
L01	01	Cream Linoleum	None Detected	Small Clinic
	02	Cream Linoleum	None Detected	Small Clinic
CT01	03	Ceiling Texture	None Detected	Small Clinic
	04	Ceiling Texture	None Detected	Small Clinic
	05	Ceiling Texture	None Detected	Small Clinic
SR01	06	Sheet Rock / Mud	None Detected	Small Clinic
	07	Sheet Rock / Mud	None Detected	Small Clinic
RS01	08	Roofing Shingles	None Detected	Small Clinic
	09	Roofing Shingles	None Detected	Small Clinic

SEI, Inc. has received the analytical results from the samples collected during the investigation. The results revealed No Asbestos Detected in the samples collected. Demolition may proceed without regard to asbestos-containing materials.

**Table II – Asbestos Sample Summary  
Large Clinic  
122 Hospital Drive**

<b>HA#</b>	<b>Sample No.</b>	<b>Description</b>	<b>Analysis Result %/Type ACM</b>	<b>Sample Location</b>
AC01	01	Acoustic Popcorn Spray	None Detected	Large Clinic
	02	Acoustic Popcorn Spray	None Detected	Large Clinic
	03	Acoustic Popcorn Spray	None Detected	Large Clinic
CT01	04	Swirl Ceiling Texture	None Detected	Large Clinic
	05	Swirl Ceiling Texture	None Detected	Large Clinic
	06	Swirl Ceiling Texture	None Detected	Large Clinic
	07	Swirl Ceiling Texture	None Detected	Large Clinic
	08	Swirl Ceiling Texture	None Detected	Large Clinic
	09	Swirl Ceiling Texture	None Detected	Large Clinic
	10	Swirl Ceiling Texture	None Detected	Large Clinic
L01	11	Tan Linoleum	None Detected	Large Clinic
	12	Tan Linoleum	None Detected	Large Clinic
L02	13	Spotted Linoleum	None Detected	Large Clinic
	14	Spotted Linoleum	None Detected	Large Clinic
L03	15	Green Linoleum	None Detected	Large Clinic
	16	Green Linoleum	None Detected	Large Clinic
SR01	17	Sheet Rock / Mud	None Detected	Large Clinic
	18	Sheet Rock / Mud	None Detected	Large Clinic
	19	Sheet Rock / Mud	None Detected	Large Clinic
RS01	20	Roofing Shingles	None Detected	Large Clinic
	21	Roofing Shingles	None Detected	Large Clinic

SEI, Inc. has received the analytical results from the samples collected during the investigation. The results revealed No Asbestos Detected in the samples collected. Demolition may proceed without regard to asbestos-containing materials.

**Table III – Asbestos Sample Summary  
Small Storage Buildings  
122 Hospital Drive**

<b>HA#</b>	<b>Sample No.</b>	<b>Description</b>	<b>Analysis Result %/Type ACM</b>	<b>Sample Location</b>
RS01	01	Roofing Shingles Building 2	None Detected	Storage Buildings
	02	Roofing Shingles Building 3	None Detected	Storage Buildings
RS02	03	Roofing Shingles Building 4	None Detected	Storage Buildings
	04	Roofing Shingles Building 4	None Detected	Storage Buildings

SEI, Inc. has received the analytical results from the samples collected during the investigation. The results revealed No Asbestos Detected in the samples collected. Demolition may proceed without regard to asbestos-containing materials.

Also located on-site was the large metal storage building. During the inspection process the inspectors noted there were no suspect asbestos-containing materials located in this structure. Demolition of the large metal storage building may proceed without regard to asbestos-containing materials.

**Findings: Lead-Based Paint**

SEI, Inc. collected samples of painted surfaces by manually removing paint down to the substrate using a paint scraper. The inspector attempted to collect enough paint material to achieve minimal detection limits for the analytical method.

The inspectors identified suspect lead-based paint on the large clinic interior and exterior painted trim and walls as well as interior painted walls in the small clinic. Chip samples were taken of interior and exterior painted surfaces and composited for analysis.

Table IV below summarizes the analytical results from samples collected during the investigation.

**Table IV**  
**Lead-Based Paint Sample Summary**  
**Cherokee Village Hospital Clinics / Storage Buildings**

Sample No.	Description / Location	Results (ppm)
BC-05	Large Clinic Interior Painted Trim and Doors	<140.35
BC-06	Large Clinic Interior Painted Walls	<108.58
BC-07	Large Clinic Exterior Painted Trim	<123.53
BC-08	Large Clinic Exterior Painted Walls	<107.87
SC-09	Small Clinic Interior Painted Walls	<115.61

\* ppm – Parts Per Million

Samples were analyzed via EPA Method SW-846-742 Flame Atomic Absorption Spectroscopy by Crisp Analytical Laboratories.

EPA and HUD define lead-based paint as greater than 5,000 ppm or 0.5% by weight, and the Consumer Product Safety Commission definition is 600 ppm, or 0.06% by weight. However, this property does not fall under the jurisdiction of EPA or HUD, and levels should be compared to the Occupational Safety and Health Administration (OSHA) definition of lead-containing paint as having lead present “in any amount”. The samples collected did not contain detectable levels of lead.

**Discussion**

A 10-Day Notice of Intent is required for any demolition or removal of RACM exceeding 160 square or 260 linear feet.

Sample locations and the location of identified asbestos materials are identified on drawings included in the appendices of this report.

**Limitations**

This report relates to the Cherokee Village Hospital Clinics and Storage Buildings located at 122 Hospital Drive, Cherokee Village, Arkansas. According to the client, the structures are scheduled for future demolition.

Asbestos samples were collected from materials identified as Homogeneous Materials based upon visual inspection of the site. SEI, Inc. is not responsible for assumptions on homogeneity which prove to be incorrect. In addition, samples collected represent only that portion of the entire homogeneous material. SEI, Inc. is not responsible for materials not identified and sampled due to the restraints on accessibility of the material. No warranties, expressed or implied, relate to the previous and/or future conditions.

During any operations involving renovation or demolition, suspect asbestos materials may be encountered which were not identified in this inspection. Work should immediately cease, and a certified inspector contacted for further sampling to identify those additional materials.

Asbestos Analysis was performed by Crisp Analytical Laboratories, LLC Carrollton, Texas. CA Labs is solely responsible for all analytical results contained in and referred to in this report.

This report prepared by:

A handwritten signature in black ink that reads "Josh Roberson". The signature is written in a cursive style with a horizontal line underneath.

Josh Roberson  
Field Technician  
Safety & Environmental Investigations, Inc.

## **APPENDICIES**

## **FIELD LOGS**



Safety & Environmental Investigations, Inc.  
 P.O. Box 22038, Little Rock, AR 72221  
 PH:(501)227-8900 FX:(501)227-7535

ASBESTOS SURVEY SHEET

Project Name: Cherokee Village      Inspector: R. Robertson      Date: 12/9-12-20  
 SEI Project #: 16123      Large clinic      R. Barton

Home Area #	Sam. #	Functional Space	Location and Description of Material (S/TSI/Misc)	Sample Location	F/NF	Cndtn. (SD/D/G)	Pot. Damage (PSD/PDL)	Square Feet of Material	Substrate/Comments
AC01	01		Acoustic popcorn SPBAY -		F	G	PD		Unit 1
	02		Middle Rooms + Hall						
	03								
LT01	04		Swire Texacocon SR		F	G	PD		
	05		ceiling throughout						
	06								
	07								
	08								
	09								
	10								
L01	11		Linoleum - Black Pattern		NF	G	L		
	12		Unit 1						
L02	13		Linoleum - Spotted Pattern		NF	G	L		Not Unit 1
	14		Flooring - Treat. Rooms						OR
L03	15		Linoleum - Green Blackin		NF	G	L		
	16		RR						
SR01	17		Sheet Rock + Mud		NF	G	L		
	18								
	19								

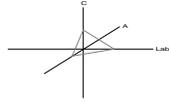
Date of Construction: \_\_\_\_\_ Description: \_\_\_\_\_



# **LABORATORY ANALYSIS RESULTS**

**CA Labs**  
Dedicated to  
Quality

**Crisp Analytical, L.L.C.**  
1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
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**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

**Safety & Environmental Investigations, Inc.**

Attn: Robert Roberson

P.O. Box 22038  
Little Rock, AR 72201

Customer Project: 16123, Cherokee Village Clinic

Reference #: CAL16128470CR

Date: 12/27/2016

### **Analysis and Method**

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

### **Discussion**

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

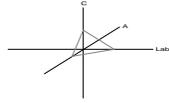
### **Qualifications**

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235  
AIHA LAP, LLC Laboratory #102929

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**Dedicated to**  
**Quality**

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 12232 Industriplex, Suite 32  
 Baton Rouge, LA 70809  
 Phone 225-751-5632  
 Fax 225-751-5634

## Overview of Project Sample Material Containing Asbestos

<b>Customer Project:</b>	16123, Cherokee Village Clinic	<b>CA Labs Project #:</b>	CAL16128470CR
<b>Sample #</b>	<b>Layer #</b>	<b>Analysts</b>	<b>Physical Description of</b>
	<b>#</b>		<b>Subsample</b>
			<b>Asbestos type / calibrated visual estimate percent</b>
			<b>List of Affected Building Material Types</b>

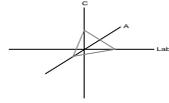
**No Asbestos Detected.**

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235  
**AIHA LAP, LLC Laboratory #102929**

**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.



## Polarized Light Asbestiform Materials Characterization

<b>Customer Info:</b> Attn: Robert Roberson <b>Safety &amp; Environmental Investigations, Inc.</b> P.O. Box 22038 Little Rock, AR 72201	<b>Customer Project:</b>  16123, Cherokee Village Clinic	<b>CA Labs Project #:</b> CAL16128470CR
Phone # 501-227-8900 Fax # 501-227-7535	<b>Turnaround Time:</b> 3 Days	<b>Date:</b> 12/27/2016 <b>Samples Received:</b> 12/23/16 12PM <b>Date Of Sampling:</b> 12/20/16 <b>Purchase Order #:</b>

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
AC01-01				AC01- <b>Acoustic Popcorn Spray/</b> 01-1 white textured surfacing	n	<b>None Detected</b>	4% ce	96% qu,mi,bi,ca
AC01-02				AC01- <b>Acoustic Popcorn Spray/</b> 02-1 white textured surfacing	n	<b>None Detected</b>	4% ce	96% qu,mi,bi,ca
AC01-03				AC01- <b>Acoustic Popcorn Spray/</b> 03-1 white textured surfacing	n	<b>None Detected</b>	4% ce	96% qu,mi,bi,ca
CT01-04				CT01- <b>Swirl Ceiling Texture/ white</b> 04-1 textured surfacing	n	<b>None Detected</b>		100% qu,mi,bi,ca
CT01-05				CT01- <b>Swirl Ceiling Texture/ white</b> 05-1 textured surfacing	n	<b>None Detected</b>		100% qu,mi,bi,ca
CT01-06				CT01- <b>Swirl Ceiling Texture/ white</b> 06-1 textured surfacing	n	<b>None Detected</b>		100% qu,mi,bi,ca
CT01-07				CT01- <b>Swirl Ceiling Texture/ white</b> 07-1 textured surfacing	n	<b>None Detected</b>		100% qu,mi,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

### AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

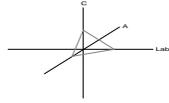
Stanley Massett  
Analyst

QAC  
Leslie Crisp, P.G.

Technical Manager  
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested



## Polarized Light Asbestiform Materials Characterization

<b>Customer Info:</b> Attn: Robert Roberson <b>Safety &amp; Environmental Investigations, Inc.</b> P.O. Box 22038 Little Rock, AR 72201	<b>Customer Project:</b>  16123, Cherokee Village Clinic	<b>CA Labs Project #:</b> CAL16128470CR
Phone # 501-227-8900 Fax # 501-227-7535	<b>Turnaround Time:</b> 3 Days	<b>Date:</b> 12/27/2016 <b>Samples Received:</b> 12/23/16 12PM <b>Date Of Sampling:</b> 12/20/16 <b>Purchase Order #:</b>

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
CT01-08		CT01-08-1	<b>Swirl Ceiling Texture/ white textured surfacing</b>	n	<b>None Detected</b>		100% qu,mi,bi,ca
CT01-09		CT01-09-1	<b>Swirl Ceiling Texture/ white textured surfacing</b>	n	<b>None Detected</b>		100% qu,mi,bi,ca
CT01-10		CT01-10-1	<b>Swirl Ceiling Texture/ white textured surfacing</b>	n	<b>None Detected</b>		100% qu,mi,bi,ca
L01-11		L01-11-1	<b>Tan Linoleum/ tan linoleum</b>	n	<b>None Detected</b>	8% fg	92% qu,ma
L01-12		L01-12-1	<b>Tan Linoleum/ tan linoleum</b>	n	<b>None Detected</b>	8% fg	92% qu,ma
L02-13		L02-13-1	<b>Spotted Linoleum/ tan linoleum</b>	n	<b>None Detected</b>	4% fg 6% ce	90% qu,ma
		L02-13-2	<b>tan mastic</b>	y	<b>None Detected</b>		100% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

### AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

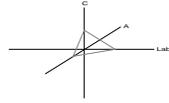
Stanley Massett  
Analyst

QAC  
Leslie Crisp, P.G.

Technical Manager  
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers  
2. Fire Damage no significant fiber damages effecting fibrous percentages  
3. Actinolite in association with Vermiculite  
4. Layer not analyzed - attached to previous positive layer and contamination is suspected  
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc  
7. Contamination suspected from other building materials  
8. Favorable scenario for water separation on vermiculite for possible analysis by another method  
9. < 1% Result point counted positive  
10. TEM analysis suggested



**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b> Attn: Robert Roberson <b>Safety &amp; Environmental Investigations, Inc.</b> P.O. Box 22038 Little Rock, AR 72201	<b>Customer Project:</b>  16123, Cherokee Village Clinic	<b>CA Labs Project #:</b> CAL16128470CR
Phone # 501-227-8900 Fax # 501-227-7535	<b>Turnaround Time:</b> 3 Days	<b>Date:</b> 12/27/2016 <b>Samples Received:</b> 12/23/16 12PM <b>Date Of Sampling:</b> 12/20/16 <b>Purchase Order #:</b>

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
L02-14		L02-14-1	<b>Spotted Linoleum/ tan linoleum</b>	n	<b>None Detected</b>	2% fg 6% ce	92% qu,ma
		L02-14-2	<b>tan mastic</b>	y	<b>None Detected</b>		100% qu,bi
L03-15		L03-15-1	<b>Green Linoleum/ tan linoleum</b>	n	<b>None Detected</b>	2% fg 6% ce	92% qu,ma
		L03-15-2	<b>brown mastic</b>	y	<b>None Detected</b>		100% qu,bi
L03-16		L03-16-1	<b>Green Linoleum/ tan linoleum</b>	n	<b>None Detected</b>	2% fg 6% ce	92% qu,ma
		L03-16-2	<b>brown mastic</b>	y	<b>None Detected</b>		100% qu,bi
SR01-17		SR01-17-1	<b>Sheet Rock/ Mud/ white surfaced white compound</b>	n	<b>None Detected</b>		100% qu,mi,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Stanley Massett  
Analyst

QAC  
Leslie Crisp, P.G.

Technical Manager  
Chad Lytle

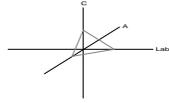
1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers  
2. Fire Damage no significant fiber damages effecting fibrous percentages  
3. Actinolite in association with Vermiculite  
4. Layer not analyzed - attached to previous positive layer and contamination is suspected  
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc  
7. Contamination suspected from other building materials  
8. Favorable scenario for water separation on vermiculite for possible analysis by another method  
9. < 1% Result point counted positive  
10. TEM analysis suggested

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 Fax 972-242-2798



**CA Labs, L.L.C.**

12232 Industriplex, Suite 32  
 Baton Rouge, LA 70809  
 Phone 225-751-5632  
 Fax 225-751-5634

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b> Attn: Robert Roberson <b>Safety &amp; Environmental Investigations, Inc.</b> P.O. Box 22038 Little Rock, AR 72201	<b>Customer Project:</b>  16123, Cherokee Village Clinic	<b>CA Labs Project #:</b> CAL16128470CR
Phone # 501-227-8900 Fax # 501-227-7535	<b>Turnaround Time:</b> 3 Days	<b>Date:</b> 12/27/2016 <b>Samples Received:</b> 12/23/16 12PM <b>Date Of Sampling:</b> 12/20/16 <b>Purchase Order #:</b>

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		SR01-17-2	white drywall with brown paper	n	<b>None Detected</b>	10% ce	90% qu,gy
SR01-18		SR01-18-1	<b>Sheet Rock/ Mud/ white surfaced white compound</b>	n	<b>None Detected</b>		100% qu,mi,bi,ca
		SR01-18-2	white compound (beneath tape)	y	<b>None Detected</b>		100% qu,mi,ca
		SR01-18-3	white drywall with brown paper	n	<b>None Detected</b>	10% ce	90% qu,gy
SR01-19		SR01-19-1	<b>Sheet Rock/ Mud/ white surfaced white compound</b>	n	<b>None Detected</b>		100% qu,mi,bi,ca
		SR01-19-2	white compound (beneath tape)	y	<b>None Detected</b>		100% qu,mi,ca
		SR01-19-3	white drywall with brown paper	n	<b>None Detected</b>	10% ce	90% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

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Analyst

QAC  
Leslie Crisp, P.G.

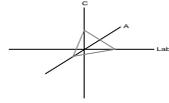
Technical Manager  
Chad Lytle

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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
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## Polarized Light Asbestiform Materials Characterization

<b>Customer Info:</b> Attn: Robert Roberson <b>Safety &amp; Environmental Investigations, Inc.</b> P.O. Box 22038 Little Rock, AR 72201	<b>Customer Project:</b>  16123, Cherokee Village Clinic	<b>CA Labs Project #:</b> CAL16128470CR
Phone # 501-227-8900 Fax # 501-227-7535	<b>Turnaround Time:</b> 3 Days	<b>Date:</b> 12/27/2016 <b>Samples Received:</b> 12/23/16 12PM <b>Date Of Sampling:</b> 12/20/16 <b>Purchase Order #:</b>

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
RS01-20			RS01- <b>Shingled Roof/ black shingle</b> 20-1 with brown gravel	y	<b>None Detected</b>	4% fg	96% qu,bi
RS01-21			RS01- <b>Shingled Roof/ black shingle</b> 21-1 with brown gravel	y	<b>None Detected</b>	4% fg	96% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

### AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Stanley Massett  
Analyst

QAC  
Leslie Crisp, P.G.

Technical Manager  
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9. < 1% Result point counted positive
10. TEM analysis suggested

**Safety & Environmental Investigations, Inc.**

PO Box 22038  
 Little Rock, AR 72201  
 Ph.: (501)227-8900 Fax: (501)227-7535  
 E-mail: sei.inc@comcast.net

**Chain-of-Custody Record**

CAL16128470

<b>Project Name: Cherokee Village Clinic</b>	<b>SEI Project#: 16123</b>	<b>Date: 12/22/16</b>
<b>Address: 122 Hospital Drive</b>	<b>Requested Turnaround: 3-Day</b>	
<b>Cherokee Village, AR</b>		
<b>Samples Collected by: R. Roberson/R. Barton</b>	<b>Date Collected: 12/20/16</b>	
<b>Sample Type: Bulk Asbestos/PLM</b>	<b># Samples: 21</b>	

Sample ID	Description	Sample ID	Description
AC01-01	Acoustic Popcorn Spray	L01-11	Tan Linoleum
AC01-02	Acoustic Popcorn Spray	L01-12	Tan Linoleum
AC01-03	Acoustic Popcorn Spray	L02-13	Spotted Linoleum
CT01-04	Swirl Ceiling Texture	L02-14	Spotted Linoleum
CT01-05	Swirl Ceiling Texture	L03-15	Green Linoleum
CT01-06	Swirl Ceiling Texture	L03-16	Green Linoleum
CT01-07	Swirl Ceiling Texture	SR01-17	Sheet Rock/Mud
CT01-08	Swirl Ceiling Texture	SR01-18	Sheet Rock/Mud
CT01-09	Swirl Ceiling Texture	SR01-19	Sheet Rock/Mud
CT01-10	Swirl Ceiling Texture	RS01-20	Shingled Roof
		RS01-21	Shingled Roof

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	12/22/16 4:30	<i>[Signature]</i>	12/23/16 12pm

**Special Instructions:**

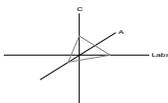
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## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

**Safety & Environmental Investigations, Inc.**

Attn: Robert Roberson

P.O. Box 22038  
Little Rock, AR 72201

Customer Project: 16123, Cherokee Village Small Clinic  
Reference #: CAL16128472CB

Date: 12/27/2016

### **Analysis and Method**

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

### **Discussion**

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

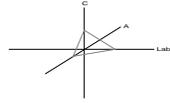
### **Qualifications**

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235  
AIHA LAP, LLC Laboratory #102929

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 Carrollton, TX 75006  
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## Overview of Project Sample Material Containing Asbestos

<b>Customer Project:</b>	16123, Cherokee Village Small Clinic	<b>CA Labs Project #:</b>	CAL16128472CB
<b>Sample #</b>	<b>Layer #</b>	<b>Analysts</b>	<b>Physical Description of</b>
			<b>Asbestos type / calibrated visual estimate percent</b>
			<b>List of Affected Building Material Types</b>

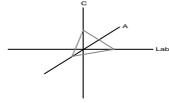
**No Asbestos Detected.**

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235  
**AIHA LAP, LLC Laboratory #102929**

**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.



**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b> Attn: Robert Roberson <b>Safety &amp; Environmental Investigations, Inc.</b> P.O. Box 22038 Little Rock, AR 72201	<b>Customer Project:</b> 16123, Cherokee Village Small Clinic	<b>CA Labs Project #:</b> CAL16128472CB
Phone # 501-227-8900 Fax # 501-227-7535	<b>Turnaround Time:</b> 3 Days	<b>Date:</b> 12/27/2016 <b>Samples Received:</b> 12/23/16 12pm <b>Date Of Sampling:</b> 12/22/16 <b>Purchase Order #:</b>

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
L01-01		01-1	<b>Linoleum/ tan linoleum</b>	n	<b>None Detected</b>	4% fg	96% qu,ma
		01-2	<b>tan mastic</b>	y	<b>None Detected</b>		100% qu,bi
L01-02		02-1	<b>Linoleum/ tan linoleum</b>	n	<b>None Detected</b>	4% fg	96% qu,ma
		02-2	<b>tan mastic</b>	y	<b>None Detected</b>		100% qu,bi
CT01-03		03-1	<b>Ceiling Texture/ white textured surfacing</b>	n	<b>None Detected</b>		100% qu,mi,bi,ca
CT01-04		04-1	<b>Ceiling Texture/ white textured surfacing</b>	n	<b>None Detected</b>		100% qu,mi,bi,ca
CT01-05		05-1	<b>Ceiling Texture/ white textured surfacing</b>	n	<b>None Detected</b>		100% qu,mi,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

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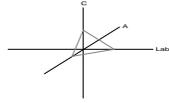
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**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Robert Roberson  
**Safety & Environmental Investigations, Inc.**  
 P.O. Box 22038  
 Little Rock, AR 72201

**Customer Project:**  
 16123, Cherokee Village Small  
 Clinic  
**Turnaround Time:**  
 3 Days

**CA Labs Project #:**  
 CAL16128472CB  
**Date:** 12/27/2016  
**Samples Received:** 12/23/16 12pm  
**Date Of Sampling:** 12/22/16  
**Purchase Order #:**

Phone # 501-227-8900  
 Fax # 501-227-7535

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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SR01-06	<b>Sheetrock/Mud/ tan surfaced</b>							
	06-1	white compound	n	<b>None Detected</b>		100% qu,mi,bi,ca		

	06-2	white drywall with brown paper	n	<b>None Detected</b>	10% ce	90% qu,gy		
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SR01-07	<b>Sheetrock/Mud/ tan surfaced</b>							
	07-1	white compound	n	<b>None Detected</b>		100% qu,mi,bi,ca		

	07-2	white drywall with brown paper	n	<b>None Detected</b>	10% ce	90% qu,gy		
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RS01-08	<b>Shingled Roof/ black roofing</b>							
	08-1	shingle with black gravel	y	<b>None Detected</b>	4% fg	96% qu,bi		

	08-2	black felt	y	<b>None Detected</b>	30% fg	70% qu,bi,ma		
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RS01-09	<b>Shingled Roof/ black roofing</b>							
	09-1	shingle with black gravel	y	<b>None Detected</b>	4% fg	96% qu,bi		

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

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- |                 |                  |                   |                          |
|-----------------|------------------|-------------------|--------------------------|
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| gypsum - gypsum | ve - vermiculite | mw - mineral wool | br - brucite             |
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| or - organic    | pe - perlite     | ta - talc         | pa - palygorskite (clay) |
| ma - matrix     | qu - quartz      | sy - synthetic    |                          |

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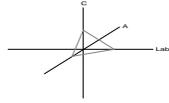
Technical Manager  
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**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b> Attn: Robert Roberson <b>Safety &amp; Environmental Investigations, Inc.</b> P.O. Box 22038 Little Rock, AR 72201	<b>Customer Project:</b> 16123, Cherokee Village Small Clinic	<b>CA Labs Project #:</b> CAL16128472CB
Phone # 501-227-8900 Fax # 501-227-7535	<b>Turnaround Time:</b> 3 Days	<b>Date:</b> 12/27/2016 <b>Samples Received:</b> 12/23/16 12pm <b>Date Of Sampling:</b> 12/22/16 <b>Purchase Order #:</b>

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
09-2	black felt				y	None Detected	30% fg	70% qu,bi,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
 Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Stanley Massett  
 Analyst

QAC  
 Leslie Crisp, P.G.

Technical Manager  
 Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**Safety & Environmental Investigations, Inc.**

PO Box 22038

Little Rock, AR 72201

Ph.: (501)227-8900 Fax: (501)227-7535

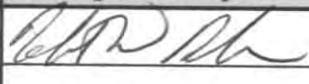
E-mail: sei.inc@comcast.net

**Chain-of-Custody Record**

CAL16128472

<b>Project Name: Cherokee Village Small Clinic</b>	<b>SEI Project#: 16123</b>	<b>Date: 12/22/16</b>
<b>Address: 122 Hospital Drive</b>	<b>Requested Turnaround: 3-Day</b>	
<b>Cherokee Village, AR</b>		
<b>Samples Collected by: R. Roberson/R. Barton</b>	<b>Date Collected: 12/20/16</b>	
<b>Sample Type: Bulk Asbestos/PLM</b>	<b># Samples: 9</b>	

Sample ID	Description	Sample ID	Description
L01-01	Linoleum		
L01-02	Linoleum		
CT01-03	Ceiling Texture		
CT01-04	Ceiling Texture		
CT01-05	Ceiling Texture		
SR01-06	Sheet Rock/Mud		
SR01-07	Sheet Rock/Mud		
RS01-08	Shingled Roof		
RS01-09	Shingled Roof		

Relinquished By:	Date/Time	Received By:	Date/Time
	12/22/16 4:30		12/23/16 12pm

**Special Instructions:**

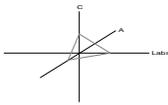
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**Crisp Analytical, L.L.C.**  
1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
Fax 972-242-2798



**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

#### **Safety & Environmental Investigations, Inc.**

P.O. Box 22038  
Little Rock, AR 72201

Attn: Robert Roberson

Customer Project: 16123, 122 Hospital Drive, Cherokee Village, AR

Reference #: CAL16128471JE

Date: 12/27/2016

#### **Analysis and Method**

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

#### **Discussion**

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

#### **Qualifications**

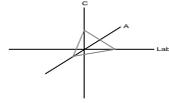
CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

*Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235*  
**AIHA LAP, LLC Laboratory #102929**

**CA Labs**  
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**Crisp Analytical, L.L.C.**

1929 Old Denton Road  
 Carrollton, TX 75006  
 Phone 972-242-2754  
 Fax 972-242-2798



**CA Labs, L.L.C.**

12232 Industriplex, Suite 32  
 Baton Rouge, LA 70809  
 Phone 225-751-5632  
 Fax 225-751-5634

**Overview of Project Sample Material Containing Asbestos**

<b>Customer Project:</b>	16123, 122 Hospital Drive, Cherokee Village, AR	<b>CA Labs Project #:</b>	CAL16128471JE
<b>Sample #</b>	<b>Layer #</b>	<b>Analysts Physical Description of Subsample</b>	<b>Asbestos type / calibrated visual estimate percent</b>
			<b>List of Affected Building Material Types</b>

**No Asbestos Detected.**

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235  
**AIHA LAP, LLC Laboratory #102929**

**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

- |                  |              |                    |                          |
|------------------|--------------|--------------------|--------------------------|
| ca - carbonate   | pe - perlite | fg - fiberglass    | pa - palygorskite (clay) |
| gypsum - gypsum  | qu - quartz  | mw - mineral wool  |                          |
| bi - binder      |              | wo - wollastinite  |                          |
| or - organic     |              | ta - talc          |                          |
| ma - matrix      |              | sy - synthetic     |                          |
| mi - mica        |              | ce - cellulose     |                          |
| ve - vermiculite |              | br - brucite       |                          |
| ot - other       |              | ka - kaolin (clay) |                          |

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Robert Roberson  
**Safety & Environmental Investigations, Inc.**

P.O. Box 22038  
Little Rock, AR 72201

Phone # 501-227-8900  
Fax # 501-227-7535

**Customer Project:**

16123, 122 Hospital Drive,  
Cherokee Village, AR

**Turnaround Time:**  
3 Days

**CA Labs Project #:**

CAL16128471JE

**Date:** 12/27/2016

**Samples Received:** 12/23/16 12:00pm

**Date Of Sampling:** 12/19/2016

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
----------	-------------	------------	-----------------------	----------------------------	-------------------------------	--	--------------------------------------	-------------------------------

RS01-01				RS01- <b>Shingles/</b> black roofing shingle 01-1 with tan gravel	y	<b>None Detected</b>	12% fg	88% qu,bi
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				RS01- 01-2 black felt	y	<b>None Detected</b>	26% ce	74% qu,bi
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RS01-02				RS01- <b>Shingles/</b> black roofing shingle 02-1 with tan gravel	y	<b>None Detected</b>	13% fg	87% qu,bi
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				RS01- 02-2 black felt	y	<b>None Detected</b>	24% ce	76% qu,bi
--	--	--	--	--------------------------	---	----------------------	--------	-----------

RS02-03				RS02- <b>Shingles/</b> black roofing shingle 03-1 with tan gravel	y	<b>None Detected</b>	13% fg	87% qu,bi
---------	--	--	--	--	---	----------------------	--------	-----------

				RS02- 03-2 black felt	y	<b>None Detected</b>	28% ce	72% qu,bi
--	--	--	--	--------------------------	---	----------------------	--------	-----------

RS02-04				RS02- <b>Shingles/</b> black roofing shingle 04-1 with tan gravel	y	<b>None Detected</b>	12% fg	88% qu,bi
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Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Julio Robles  
Analyst



QAC  
Leslie Crisp, P.G.

Technical Manager  
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**CA Labs**  
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**Crisp Analytical, L.L.C.**

1929 Old Denton Road  
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 Fax 972-242-2798

**CA Labs, L.L.C.**

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 Baton Rouge, LA 70809  
 Phone 225-751-5632  
 Fax 225-751-5634

**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Robert Roberson  
**Safety & Environmental Investigations, Inc.**  
 P.O. Box 22038  
 Little Rock, AR 72201

**Customer Project:**  
 16123, 122 Hospital Drive,  
 Cherokee Village, AR

**CA Labs Project #:**  
 CAL16128471JE

Phone # 501-227-8900  
 Fax # 501-227-7535

**Turnaround Time:**  
 3 Days

**Date:** 12/27/2016  
**Samples Received:** 12/23/16 12:00pm  
**Date Of Sampling:** 12/19/2016  
**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
	RS02- 04-2	black felt			y	None Detected	33% ce	67% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Julio Robles  
 Analyst



QAC  
 Leslie Crisp, P.G.

Technical Manager  
 Chad Lytle

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9. < 1% Result point counted positive
10. TEM analysis suggested

**Safety & Environmental Investigations, Inc.**

PO Box 22038

Little Rock, AR 72201

Ph.: (501)227-8900 Fax: (501)227-7535

E-mail: sei.inc@comcast.net

**Chain-of-Custody Record**

CAL16128471

<b>Project Name: Cherokee Village Outbuildings</b>	<b>SEI Project#: 16123</b>	<b>Date: 12/22/16</b>
<b>Address: 122 Hospital Drive</b>	<b>Requested Turnaround: 3-Day</b>	
<b>Cherokee Village, AR</b>		
<b>Samples Collected by: R. Roberson/R. Barton</b>	<b>Date Collected: 12/19/16</b>	
<b>Sample Type: Bulk Asbestos/PLM</b>	<b># Samples: 21</b>	

Sample ID	Description	Sample ID	Description
RS01-01	Shingles, Bldg #2		
RS01-02	Shingles, Bldg #3		
RS02-03	Shingles, Bldg #4		
RS02-04	Shingles, Bldg #4		

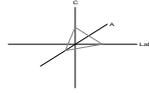
Relinquished By:	Date/Time	Received By:	Date/Time
	12/22/16 4:30		12/23/16 12pm

**Special Instructions:**

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## Atomic Absorption Lead Report

Analysis Method: Lead in Paint analyzed by Atomic Absorption (AA)/SW-846-7420;  
This analysis is not covered by the scope of accreditation by NVLAP or AIHA.

Sample Prep Method: Samples are dissolved in nitric acid, extracted, and analyzed on a properly calibrated AA; Absorbency curve was calculated, bandwidth corrected, and wavelength at the time of the analysis was measured and recorded.

**Client Information:**Safety & Environmental  
Investigations, Inc.  
P.O. Box 22038  
Little Rock, AR 72201  
Phone: 501-227-8900  
Fax: 501-227-7535**Client Project:**16123, Cherokee Village Hospital, 122 Hospital  
Drive, CV, AR**Turnaround Time:** 24 Hours**Attn:****CA Labs Project #:**

CAL1701163JE

**Date of Sampling:** 1/5/17**Report Date:** 1/13/17**Samples Received:** 1/13/17 10:30am**Purchase Order #:**

Sample#

Sample Concentration: Weight Percent:  
parts per million (ppm)

Sample#	Description	Sample Concentration (ppm)	Weight Percent
MB-01	Main Bldg. Interior Trim	129.46	0.0129
MB-02	Main Bldg. interior Walls	<128.7	<0.0129
MB-03	Main Bldg. Structural Steel	<143.58	<0.0144
MB-04	Main Bldg. Incinerator	722.66	0.0723
BC-05	L. Clinic Interior Trim / Door	<140.35	<0.0140
BC-06	L. Clinic Interior Walls	<108.58	<0.0109
BC-07	L. Clinic – Exterior Trim	<123.53	<0.0124
BC-08	L. Clinic – Outside Walls	<107.87	<0.0108
SC-09	S. Clinic – Interior Walls	<115.61	<0.0116
Lab Blank		< 1.00	----

**Quality Control:**

All samples received in good condition unless noted

**Duplicate:**1.0 RPD**Spike:**98.9 % Recovery

NVLAP # 200349-0

Approved Signatories:

Robert Olivarez  
Analyst

TDH # 30-0235

Page 1 of 1

Leslie Crisp  
Laboratory DirectorChad Lytle  
Senior Analyst

Notes:  
The current guidelines for lead in paint from the Consumer Products Safety Council (CPSC) is 0.06% by weight; the Housing and Urban Development (HUD) guideline is 0.5% by weight.

CA Labs is participating in ELPAT rounds sponsored by American Industrial Hygiene Association (AIHA) and National Lead Laboratory Program (NLLAP). This test reports relates only to the items tested. Neither AIHA, NVLAP nor EPA accreditation implies endorsement by any US Government agency. CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC.) in the TEM, PLM, and PCM asbestos fields of testing for Industrial Hygiene and in the culturable fungi field of testing for Environmental Microbiology. This report may not be reproduced except in full without written permission from CA Labs. This Method is not covered by the AIHA accreditation for Environmental Hygiene.

These results are submitted pursuant to CA Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee may be assessed for the return of any samples.

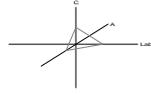
Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006; phone (972) 242-2754, fax (972) 242-2798.

**CA Labs**

Dedicated to Quality

**Crisp Analytical, L.L.C.**

1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
Fax 972-242-2798



**CA Labs, L.L.C.**

12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

**ATOMIC ABSORPTION  
LEAD ANALYSIS  
LABORATORY ANALYSIS REPORT**

**Safety & Environmental Investigations, Inc.**

P.O. Box 22038  
Little Rock, AR 72201

Reference number: CAL1701163JE

**LABORATORY ANALYSIS:**

Summary of lead analysis by atomic absorption in all relevant media using the method described in SW-846-7420. All analysts have received the necessary in-house and extramural training to perform analysis of samples for the presence of lead. A duplicate analysis is performed on greater than ten percent of all samples. A spiked concentration sample is analyzed with each sample group for instrument calibration. All analysts are required to participate in quality control analysis rounds. Instrument calibrations are performed on a daily, weekly, and monthly basis.

**CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM) and by the USEPA for analysis of asbestos in drinking water. CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC) PLM, TEM and PCM Asbestos fields of testing for industrial hygiene.** This analysis is not covered by the scope of accreditation by NVLAP. This method is not covered by the AIHA accreditation for Industrial Hygiene.

This report must not be used to claim product endorsement by AIHA or any agency of the U.S. Government. This test relates only to the items described and tested herein. This report may not be reproduced except in full, without written permission by CA Labs.

**METHOD:**

The procedure for paint chip analysis follows AOAC5.009(974.02) and SW-846-7420. The analysis of soil, wipes, and wastewater for the presence of lead is also referenced by SW-846-7420. Methodology for the analysis of lead in air samples follows NIOSH Method 7082.

Analysis performed at Crisp Analytical Labs, L.L.C. 1929 Old Denton Road Carrollton, TX 75006: phone (972) 242-2754; fax (972) 242-2798.

CAC 1701103

**Safety & Environmental Investigations, Inc.**

PO Box 22038

Little Rock, AR 72221

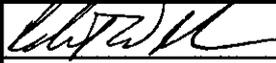
Ph:(501)227-8900/Fx:(501)227-7535

e-mail: sei.inc@comcast.net

**Chain-of-Custody Record**

<b>Project Name: Cherokee Village Hospital</b>	<b>SEI Project#: 16123</b>	<b>Date: 1/10/17</b>
<b>Address: 122 Hospital Drive, CV, AR</b>	<b>Requested Turnaround: 24 Hour</b>	
<b>Samples Collected by: Robert Roberson</b>	<b>Date Collected: 1/5/17</b>	
<b>Sample Type: Lead Paint Composite</b>	<b># Samples: 9</b>	

Sample ID	Location	Collector	Date
MB-01	Main Bldg. Interior Trim		
MB-02	Main Bldg. Interior Walls		
MB-03	Main Bldg. Structural Steel		
MB-04	Main Bldg. Incinerator		
BC-05	L.Clinic Interior Trim/Door		
BC-06	L.Clinic Interior Walls		
BC-07	L.Clinic – Exterior Trim		
BC-08	L. Clinic – Outside Walls		
SC-09	S. Clinic – Interior Walls		

Signature	Date	Signature	Date
	1/12/17 4:30pm		1/13/17 10:30am

**Special Instructions:**

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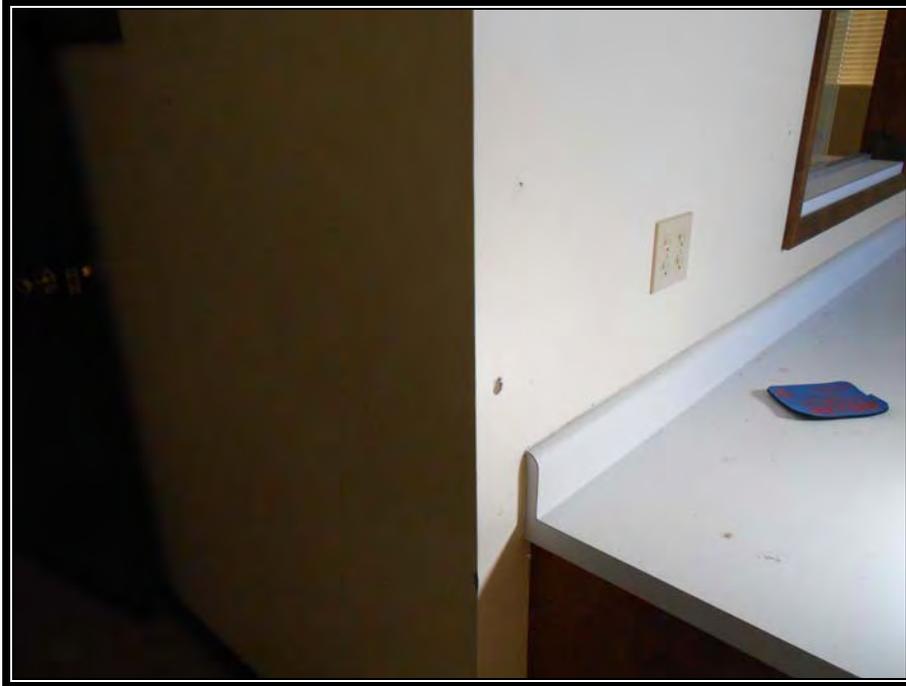
# **PHOTOGRAPHS**



**L01 – Cream Linoleum (Small Clinic)**



**CT01 – Ceiling Swirl Texture (Small Clinic)**



**SR01 – Sheet Rock / Mud (Small Clinic)**



**RS01 – Roofing Shingles (Small Clinic)**



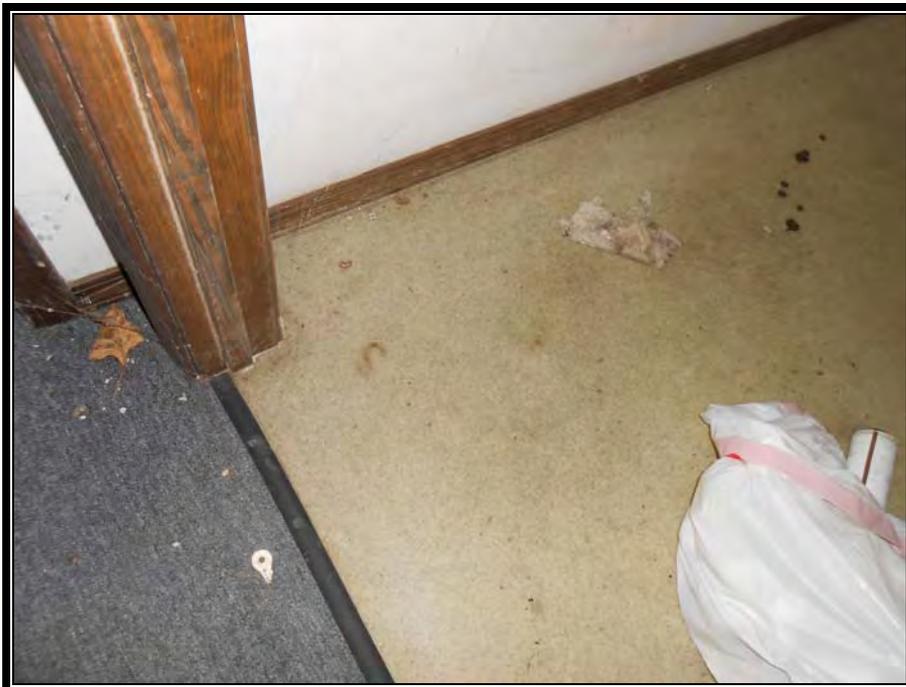
**AC01 – Acoustic Popcorn Spray (Large Clinic)**



**CT01 – Swirl Texture on Ceiling (Large Clinic)**



**L01 – Tan Linoleum (Large Clinic)**



**L02 – Spotted Linoleum (Large Clinic)**



**L03 – Green Linoleum (Large Clinic)**



**SR01 – Sheet Rock / Mud (Large Clinic)**



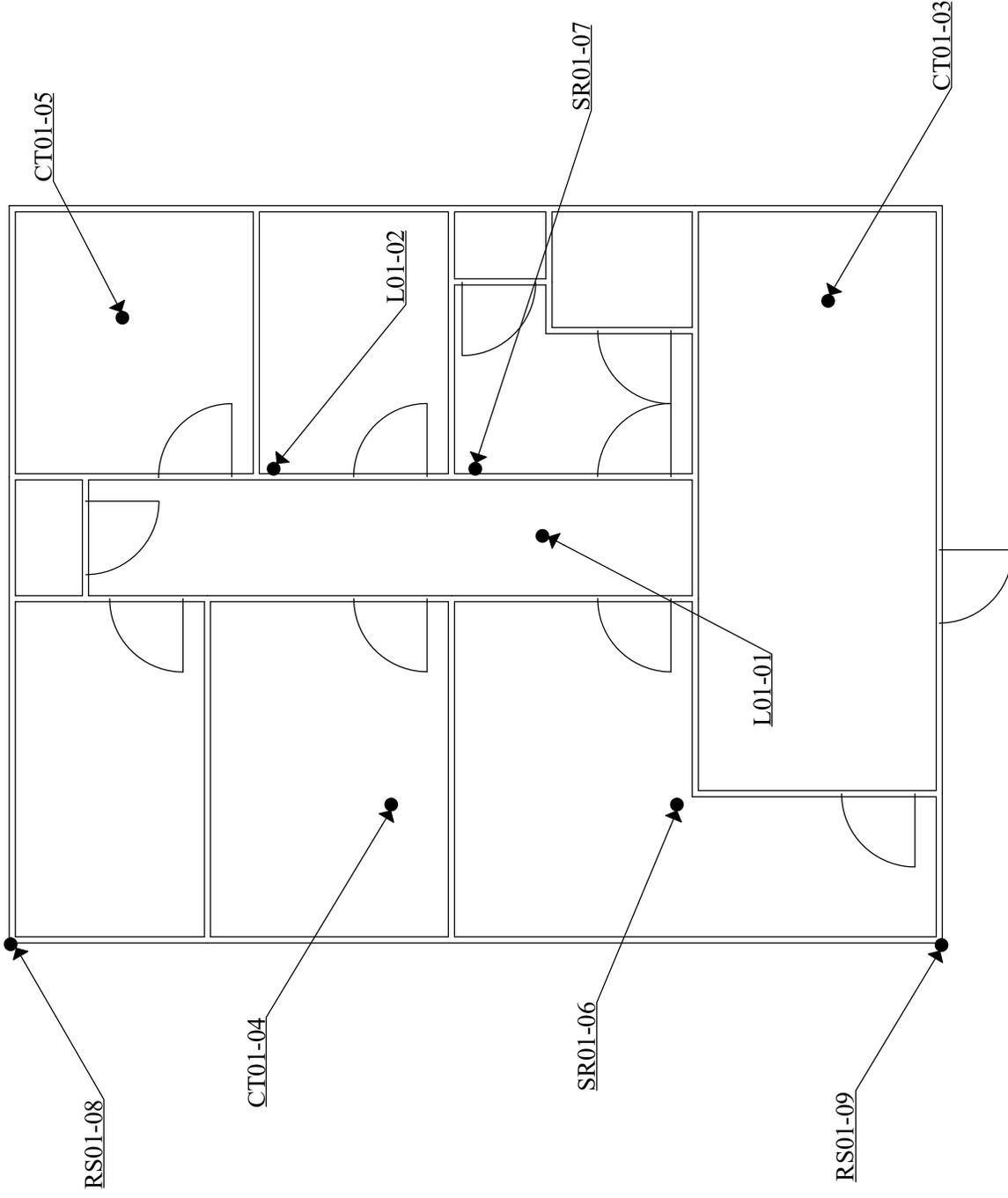
**RS01 – Roofing Shingles (Storage Building)**



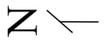
**RS02 – Roofing Shingles (Storage Building)**

# **DRAWINGS**

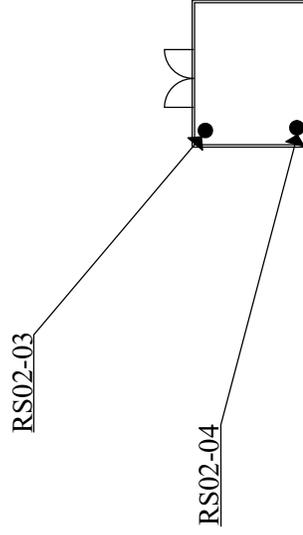
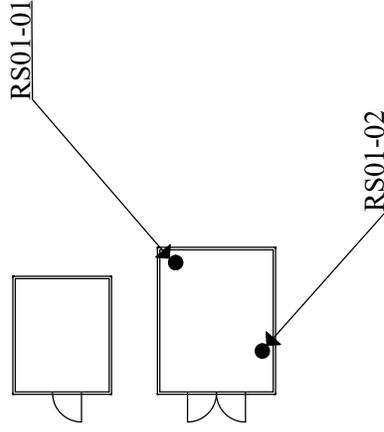
Sample Locations



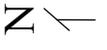
Small Clinic  
Cherokee Village Hospital  
122 Hospital Drive  
Cherokee Village, Arkansas







Storage Buildings  
Cherokee Village Hospital  
122 Hospital Drive  
Cherokee Village, Arkansas



## **COMPANY & INSPECTOR CERTIFICATIONS**

# Arkansas Department of Environmental Quality

## SAFETY & ENVIRO INVESTIGATIONS

is a licensed  
**Asbestos Abatement Consultant**

*having qualified as required by law in accordance with the regulations adopted by the Arkansas Pollution Control and Ecology Commission's Regulation 21 pursuant to Arkansas Code Annotated §20-27-1001 et seq., relative to abatement of asbestos-containing material within the state of Arkansas.*



License Number: 000260

Issue Date: 2016 December 28

Expire Date: 2017 December 30

*Becky W. Keogh*

Becky W. Keogh  
ADEQ Director

# Arkansas Department of Environmental Quality

**011542 ROBERT W. ROBERSON**

*having satisfied the requirements necessary to meet the provisions of AHERA/ASHARA under TSCA Title II and the Arkansas Pollution Control and Ecology Commission's Regulation 21 and is hereby certified in the State of Arkansas in the discipline(s) of Asbestos*

**Air Monitor 10/19/2017**

**Inspector 10/20/2017**

**Management Planner 1/31/2017**

**Project Designer 4/30/2017**



Issue Date: 02-Nov-2016

A handwritten signature in blue ink, reading "Becky W. Keogh".

Becky W. Keogh  
ADEQ Director

# Arkansas Department of Environmental Quality

**000296 RICKY BARTON**

*having satisfied the requirements necessary to meet the provisions of AHERA/ASHARA under TSCA Title II and the Arkansas Pollution Control and Ecology Commission's Regulation 21 and is hereby certified in the State of Arkansas in the discipline(s) of Asbestos*

**Air Monitor 8/10/2017**

**Contractor/Supervisor 8/10/2017**

**Inspector 8/11/2017**

**Project Designer 8/16/2017**



Issue Date: 08-Sep-2016

*Becky W. Keogh*

Becky W. Keogh  
ADEQ Director