



# Asbestos Assessment

110 W Olive St, Rich Hill MO 64779



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By

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- Asbestos
- Mold
- Emergency Response 24/7/365
- Radon
- UST/AST Removal and Closure
- Hazardous & Special Waste
- Selective Demo
- Phase I & Phase II

*Jory Swim*  
Jory Swim, 11/17/2019



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## ASESTOS SURVEY

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**Project Location:** 110 W Olive St, Rich Hill MO 64779

**CAS Project No:** 19-7117.

**Report Date:** 11/17/2019

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### 1.0 INTRODUCTION

Construction and Abatement Services, Inc. (CAS) conducted an asbestos survey of the building located at 110 W Olive St, Rich Hill MO 64779 . The survey was conducted on 11/17/2019, by an AHERA accredited asbestos inspector in general accordance with CAS Proposal No. 19-7117 Interior and exterior building components were surveyed, and homogeneous areas of suspect asbestos-containing materials (ACM) were visually identified and documented. Although reasonable effort was made to survey accessible suspect materials, additional suspect but un-sampled materials could be located in walls, in voids, or in other concealed areas.

Suspect ACM samples were collected in general accordance with the sampling protocols outlined in United States Environmental Protection Agency (USEPA) 40 Code of Federal Regulations (CFR) Part 763, Subpart E, known as the Asbestos Hazard Emergency Response Act (AHERA). Samples were delivered to an accredited laboratory for analysis by Polarized Light Microscopy (PLM).

### 1.1 Project Objective

We understand this asbestos survey was requested to the planned demolition or renovation of the on-site building(s) to satisfy requirements of the USEPA 40 CFR Part 61, Subpart M the asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP).

### 1.2 Reliance

This report is for the exclusive use of Rich Hill R-IV School District for the project being discussed. Reliance by any other party on this report is prohibited without written authorization of CAS and Rich Hill R-IV School District. Reliance on this report by Rich Hill R-IV School District and all authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, this report, and CAS's Agreement for Services. The limitations of liability defined in CAS's Agreement for Services is the aggregate limit of CAS's liability to Rich Hill R-IV School District.



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## 2.0 BUILDING DESCRIPTION

This former Rich Hill High School has been closed since 2003 and is slated to be demolished in the near future. The exterior is brick facade and the roof is metal, which was replaced toward the end of the school's occupancy. Various windows and doors appear to have been replaced at some point in their lifetime as some are steel and newer are aluminum. Interior has various types of plaster, drywall, and combination wall surfacing throughout. 12" and 24x48" ceiling tiles were found throughout the ceilings, some of which have been damaged from water intrusion and are on the floor. Various types of floor tiles, mastics, carpets, and hardwoods are located in all rooms of the property. The basement houses the boiler and mechanical systems, to include tunnels and chases routing pipe towards their radiators, kitchen, and restrooms. All visible pipe was found with fiberglass insulation or bare altogether.

## 3.0 FIELD ACTIVITIES

The survey was conducted by Jory Swim, #11323, an AHERA accredited asbestos inspector. A copy of Jory Swim's asbestos inspector accreditation is attached an Appendix. The survey was conducted in general accordance with the sample collection protocols established in USEPA 40 CFR Part 763, Subpart E, Section 763.86, AHERA. A summary of survey activities is provided below.

### 3.1 Visual Assessment

Survey activities were initiated with visual observation of the interior and exterior of the building to identify homogeneous areas of suspect ACM. A homogeneous area (HA) consists of building materials that appear similar throughout in terms of color and texture with consideration given to the date of application. Interior assessment was conducted in visually accessible areas of the building proposed for demolition.

### 3.2 Physical Assessment

A physical assessment of each HA of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the USEPA as a material which can be crumbled, pulverized, or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

### 3.3 Sample Collection

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with USEPA AHERA sampling protocols. Samples of suspect materials were collected from randomly selected locations in each homogeneous area. Bulk samples were collected using wet methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker. The selection of sample locations and frequency of sampling were based on CAS's observations and the assumption that like materials in the same area are homogeneous in content. CAS collected 50 layered bulk samples of suspect ACM from each floor, 3 homogeneous areas.





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### 3.4 Sample Analysis

Bulk samples were submitted under chain of custody to SanAir Technologies Laboratory, Inc. for analysis by PLM with dispersion staining techniques per USEPA methodology 600/R-93/116. The percentage of asbestos, where applicable, was determined by microscopic visual estimation.

### 4.0 REGULATORY OVERVIEW

National Emission Standards for Hazardous Air Pollutants:

Asbestos (Asbestos NESHAP) [40 Code of Federal Regulations (CFR) Part 61, Subpart M]. Asbestos NESHAP states that "the owner or operator of a demolition or renovation activity and prior to the commencement of the demolition or renovation will thoroughly inspect the affected facility or part of the facility where the demolition or renovation operation will occur for the presence of asbestos."

The asbestos NESHAP regulation classifies material subject to demolition or renovation as either RACM, Category I non-friable ACM, or Category II non-friable ACM. RACM includes all friable ACM (pre-disturbance), along with Category I non-friable ACM that becomes friable (during disturbance), and Category I non-friable ACM subject to sanding, grinding, cutting, or abrading, or Category II non-friable ACM with a high probability of becoming crumbled, pulverized, or reduced to powder by forces expected to act on the material during disturbance. Category I nonfriable ACM are exclusively asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products that contain more than 1% asbestos. Category II non-friable ACM are all other non-friable materials (other than Category I non-friable ACM) that contain more than 1% asbestos. Category II non-friable ACM generally includes (but is not limited to) cementitious material such as: cement pipes, cement siding, cement panels, glazing, mortar, and grouts.

The United States Occupational Safety and Health Administration (OSHA) asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos must not exceed 0.1 fibers per cubic centimeter of air (0.1 f/cc) as an eight-hour time weighted average (TWA) and not exceed 1.0 fibers per cubic centimeter of air (1.0 f/cc) over a 30-minute time period known as an excursion limit (EL). The TWA and EL are known as USOSHA's asbestos permissible exposure limits (PELs). The OSHA standard classifies construction and maintenance activities which could disturb ACM and specifies work practices and precautions which employers must follow when engaging in each class of regulated work.

In Missouri, the Missouri Department of Natural Resources Asbestos Control Division has been given the authority to enforce the NESHAP regulation.



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## 5.0 FINDINGS AND RECOMMENDATIONS

The following asbestos containing materials were identified as a result of laboratory analysis and presumed materials to be asbestos containing:

Material Description	Homogenous Area	Approx. Quantity	Category *	Friable / Non-friable
Door Caulk (DC-13)	SE Door on Exterior of Bus Barn	16 LnFt	CAT I	NF
Window Glazing (WG-15)	Steel Framed Windows, Exposed & covered by panels	1020 LnFt	CAT I	NF
Floor Tile (color/size unknown) (FT-31)	Southeast Classroom under Carpet	600 SqFt	CAT I	NF
9" Brown Floor Tile (FT-34)	South Classroom to West of Entrance	600 SqFt	CAT I	NF
9" Red/Brown Floor Tile (FT-40/41)	Basement, Raised Room	400 SqFt	CAT I	NF
9" Green Floor Tiles/Mastic (FT-49/50)	2 <sup>nd</sup> Floor Classroom	600 SqFt	CAT I	NF

**\*Category I nonfriable ACM** means asbestos -containing packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than 1% asbestos.

The above listed Category I non-friable ACM that is damaged or could be damaged to the extent that it could be crumbled, pulverized, or reduced to powder when dry, making it friable, must be removed prior to any activities (renovation and/or demolition) that may disturb this material in accordance with applicable federal, state, and local regulations. Any above listed RACM must be removed by a state licensed abatement contractor prior to any activities (renovation and/or demolition) that may disturb this material in accordance with applicable federal, state, and local regulations. A summary of the classification, condition and approximate quantity and locations of identified Suspect ACM is presented in Appendix B. Laboratory analytical reports are included in Appendix A.

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## 6.0 LIMITATIONS/GENERAL COMMENTS

CAS performed sampling and made reasonable efforts to access suspect materials within known areas with restricted access (e.g., crawl spaces); however, confined spaces or areas which may pose a health or safety risk to CAS personnel were not sampled. Sampling did not include suspect materials which could not be safely reached with available ladders/man-lifts. This asbestos survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during our survey of the building. The information contained in this report is relevant to the date on which this survey was performed and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by Rich Hill R-IV School District for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary, quantities are approximate, and the user of this report should field verify. CAS does not warrant the work of regulatory agencies, laboratories, or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

Construction and Abatement Services, Inc. can provide the Client with a proposal for asbestos abatement upon request.

Respectfully Submitted,

A handwritten signature in black ink that reads "Jory Swim". The signature is written in a cursive, flowing style.

Jory Swim  
Operations Manager  
Construction and Abatement Services, Inc.

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# EMSL Analytical, Inc.

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

EMSL Order: 391911548

Customer ID: CASV42

Customer PO: 19-7117-CAS

Project ID:

**Attention:** Jory Swim  
Construction & Abatement Services, Inc.  
301 SE Douglas St  
Suite 201  
Lees Summit, MO 64063

**Phone:** (816) 524-3233

**Fax:** (816) 524-0348

**Received Date:** 10/29/2019 10:00 AM

**Analysis Date:** 10/30/2019 - 10/31/2019

**Collected Date:**

**Project:** 110 W Olive St, Rich Hill MO

## 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
DC-1 <small>391911548-0001</small> <i>Inseparable coating layer included in analysis.</i>		Various Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
DC-2 <small>391911548-0002</small> <i>Inseparable coating layer included in analysis.</i>		Various Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
WC-3-Caulk <small>391911548-0003</small>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
WC-3-Insulation <small>391911548-0003A</small>		Yellow Fibrous Homogeneous	96% Min. Wool	4% Non-fibrous (Other)	None Detected
WC-4-Caulk <small>391911548-0004</small>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
WC-4-Insulation <small>391911548-0004A</small>		Yellow Fibrous Homogeneous	93% Min. Wool	7% Non-fibrous (Other)	None Detected
WC-5-Caulk <small>391911548-0005</small>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
WC-5-Insulation <small>391911548-0005A</small>		Yellow Fibrous Homogeneous	94% Min. Wool	6% Non-fibrous (Other)	None Detected
C-6 <small>391911548-0006</small> <i>Inseparable coating layer included in analysis.</i>		Various Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
C-7 <small>391911548-0007</small> <i>Inseparable coating layer included in analysis.</i>		Various Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
C-8 <small>391911548-0008</small> <i>Inseparable coating layer included in analysis.</i>		Various Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
WC-9 <small>391911548-0009</small>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
WC-10 <small>391911548-0010</small>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
WC-11 <small>391911548-0011</small>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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**EMSL Order:** 391911548  
**Customer ID:** CASV42  
**Customer PO:** 19-7117-CAS  
**Project ID:**

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
P-12 391911548-0012		Gray Non-Fibrous Homogeneous	17% Cellulose	83% Non-fibrous (Other)	None Detected
DC-13 391911548-0013		Gray Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
WG-14 391911548-0014		White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
WG-15 391911548-0015		Gray Non-Fibrous Homogeneous		91% Non-fibrous (Other)	9% Chrysotile
WG-16 391911548-0016		White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CT-17 391911548-0017		Various Fibrous Homogeneous	26% Cellulose 35% Min. Wool	26% Perlite 13% Non-fibrous (Other)	None Detected
CT-18 391911548-0018		Various Fibrous Homogeneous	28% Cellulose 38% Min. Wool	21% Perlite 13% Non-fibrous (Other)	None Detected
FT-19-Floor Tile 391911548-0019		White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-19-Adhesive 391911548-0019A		Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-19-Leveler 391911548-0019B		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-20-Floor Tile 391911548-0020		White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-20-Adhesive 391911548-0020A		Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-20-Leveler 391911548-0020B		Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
D-21 391911548-0021		Various Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
D-22 391911548-0022		Various Non-Fibrous Homogeneous	21% Cellulose	79% Non-fibrous (Other)	None Detected
D-23 391911548-0023		Various Non-Fibrous Homogeneous	23% Cellulose	77% Non-fibrous (Other)	None Detected
WT-24 391911548-0024		Various Non-Fibrous Homogeneous		19% Quartz 81% Non-fibrous (Other)	None Detected
WT-25 391911548-0025		Various Non-Fibrous Homogeneous		16% Quartz 84% Non-fibrous (Other)	None Detected
WT-26 391911548-0026		Various Non-Fibrous Homogeneous		21% Quartz 79% Non-fibrous (Other)	None Detected

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**Customer ID:** CASV42  
**Customer PO:** 19-7117-CAS  
**Project ID:**

## 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
PL-27 391911548-0027		Various Non-Fibrous Homogeneous		17% Quartz 83% Non-fibrous (Other)	None Detected
PL-28 391911548-0028		Various Non-Fibrous Homogeneous		18% Quartz 82% Non-fibrous (Other)	None Detected
PL-29 391911548-0029		Various Non-Fibrous Homogeneous		17% Quartz 83% Non-fibrous (Other)	None Detected
30 391911548-0030					Not Submitted
FT-31-Mastic 391911548-0031		Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-31-Floor Tile 391911548-0031A		Various Non-Fibrous Homogeneous		91% Non-fibrous (Other)	9% Chrysotile
FT-31-Mastic 391911548-0031B		Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CT-32 391911548-0032		Various Fibrous Homogeneous	26% Cellulose 47% Min. Wool	16% Perlite 11% Non-fibrous (Other)	None Detected
FT-33-Floor Tile 391911548-0033		Various Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-33-Mastic 391911548-0033A		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-34-Floor Tile 391911548-0034		Various Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
FT-34-Mastic 391911548-0034A		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-35-Floor Tile 391911548-0035		White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
FT-35-Adhesive 391911548-0035A		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-36-Floor Tile 391911548-0036		Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-36-Adhesive 391911548-0036A		Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CT-37 391911548-0037		Various Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
CT-38 391911548-0038		Various Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
CT-39 391911548-0039		Various Non-Fibrous Homogeneous	4% Cellulose	96% Non-fibrous (Other)	None Detected

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**Project ID:**

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
FT-40-Floor Tile <small>391911548-0040</small>		Red Non-Fibrous Homogeneous		87% Non-fibrous (Other)	13% Chrysotile
FT-40-Adhesive <small>391911548-0040A</small>		Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-41-Floor Tile <small>391911548-0041</small>		Tan Non-Fibrous Homogeneous		86% Non-fibrous (Other)	14% Chrysotile
FT-41-Adhesive <small>391911548-0041A</small>		Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PL-42-Plaster <small>391911548-0042</small>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PL-42-Plaster <small>391911548-0042A</small>		Various Non-Fibrous Homogeneous		16% Quartz 84% Non-fibrous (Other)	None Detected
PLD-42-Plaster <small>391911548-0043</small>		Various Non-Fibrous Homogeneous		17% Quartz 83% Non-fibrous (Other)	None Detected
PLD-42-Plaster <small>391911548-0043A</small>		Various Non-Fibrous Homogeneous	4% Hair	17% Quartz 79% Non-fibrous (Other)	None Detected
PLD-42-Drywall <small>391911548-0043B</small>		Various Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
PLD-44-Plaster <small>391911548-0044</small>		Various Non-Fibrous Homogeneous		18% Quartz 82% Non-fibrous (Other)	None Detected
PLD-44-Plaster <small>391911548-0044A</small>		Various Non-Fibrous Homogeneous	5% Hair	18% Quartz 77% Non-fibrous (Other)	None Detected
PLD-44-Drywall <small>391911548-0044B</small>		Various Non-Fibrous Homogeneous	21% Cellulose	79% Non-fibrous (Other)	None Detected
PLD-45-Plaster <small>391911548-0045</small>		Various Non-Fibrous Homogeneous		18% Quartz 82% Non-fibrous (Other)	None Detected
PLD-45-Plaster <small>391911548-0045A</small>		Various Non-Fibrous Homogeneous	8% Hair	25% Quartz 67% Non-fibrous (Other)	None Detected
PLD-45-Drywall <small>391911548-0045B</small>		Various Non-Fibrous Homogeneous	22% Cellulose	78% Non-fibrous (Other)	None Detected
FT-46-Floor Tile <small>391911548-0046</small>		Tan Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
FT-46-Adhesive <small>391911548-0046A</small>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-47-Floor Tile <small>391911548-0047</small>		Tan Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
FT-47-Adhesive <small>391911548-0047A</small>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			% Fibrous	% Non-Fibrous	% Type
FT-47-Adhesive <small>391911548-0047B</small>		Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-48-Floor Tile <small>391911548-0048</small>		Brown Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
FT-48-Adhesive <small>391911548-0048A</small>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-49-Floor Tile <small>391911548-0049</small>		Green Non-Fibrous Homogeneous		86% Non-fibrous (Other)	14% Chrysotile
FT-49-Adhesive <small>391911548-0049A</small>		Black Non-Fibrous Homogeneous		91% Non-fibrous (Other)	9% Chrysotile
FT-50-Floor Tile <small>391911548-0050</small>		Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-50-Adhesive <small>391911548-0050A</small>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-50-Adhesive <small>391911548-0050B</small>		Black Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile

Analyst(s) \_\_\_\_\_

Sue Ferrario (66)  
Stuart Kinqvist (12)

Jeff Siria, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Saint Louis, MO NVLAP Lab Code 200742-0

Initial report from: 10/31/2019 18:14:45



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS & TRAINING

### Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

391911548

St. Louis, MO 63123  
PHONE: (314) 577-0150  
FAX: (314) 776-3313

Company: Construction & Abatement Services, Inc.		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 301 SE Douglas St Suite 201		<i>Third Party Billing requires written authorization from third party</i>	
City: Lees Summit	State/Province: MO	Zip/Postal Code: 64063	Country: US
Report To (Name): Jory Swim		Telephone #: 816-524-3233	
Email Address: Jory.Swim@CASKC.com		Fax #: 816-524-0348	Purchase Order: 19-7117-CAS
Project Name/Number: 110 W Olive St, Rich Hill MO		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: MO		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
<b>Turnaround Time (TAT) Options* - Please Check</b>			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
<small>*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</small>			
<b>PLM - Bulk (reporting limit)</b>		<b>TEM - Bulk</b>	
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)		<input type="checkbox"/> TEM EPA NOB ± EPA 600/R-93/116 Section 2.5.5.1	
<input type="checkbox"/> PLM EPA NOB (<1%)		<input type="checkbox"/> NY ELAP Method 198.4 (TEM)	
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> Chatfield Protocol (semi-quantitative)	
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2	
<input type="checkbox"/> NIOSH 9002 (<1%)		<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)		<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)		<b>Other</b>	
<input type="checkbox"/> OSHA ID-191 Modified		<input type="checkbox"/>	
<input type="checkbox"/> Standard Addition Method			
<input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		Date Sampled: 10/28/2019	
Samplers Name: Jory Swim		Samplers Signature: <i>Jory Swim</i>	
Sample #	HA #	Sample Location	Material Description
DC-1		Exterior, Taken @ South/Main Front Door	Door Caulk
DC-2		Exterior, Taken @ Southeast Lower Front Door	Door Caulk
WC-3		Exterior, Taken @ Southeast	Thick Window Caulk
WC-4		Exterior, Taken @ Southeast	Thick Window Caulk
WC-5		Interior, Southeast Room - covered into closet	Thick Window Caulk
C-6		Exterior, Taken @ Southeast Wing	Expansion Joint Caulk
C-7		Exterior, Taken @ Southeast Wing	Expansion Joint Caulk
C-8		Exterior, Taken @ Southeast Wing	Expansion Joint Caulk
WC-9		Exterior, Taken @ Southwest Lower Level	Window Caulk
WC-10		Exterior, Taken @ Southwest Lower Level	Window Caulk
Client Sample # (s):		Total # of Samples: <b>50</b>	
Relinquished (Client): <i>Jory Swim</i>		Date: 10-28-2019	Time: 4PM @ FedEx
Received (Lab): <i>[Signature]</i>		Date:	Time:
Comments/Special Instructions: Bill To: Construction & Abatement Services, Inc., 301 SE Douglas St, Suite 201, Lees Summit, MO, 64063, US Attention: Accounts Payable Phone: 816-524-3233 Email: Jory.Swim@CASKC.com Purchase Order: 19-7117 RHHS			

7957-8048-6686





EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

## Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

391911548

St. Louis, MO 63123  
PHONE: (314) 577-0150  
FAX: (314) 776-3313

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

Sample #	HA #	Sample Location	Material Description
WC-11		Exterior, Taken @ West	Window Caulk
P-12		Exterior, Taken @ Southeast (T/O)	Panels over/under windows
DC-13		Exterior, Taken @ Bus Barn by Southeast ent.	Door Caulk
WG-14		Exterior, Taken @ West Steel Windows	Thick Window Caulk
WG-15		Exterior, Taken @ 2nd Floor West Steel Windows behind panels	Thick Window Caulk
WG-16		Exterior, Taken @ 2nd Floor South Steel Windows behind panels	Thick Window Caulk
CT-17		Southeast Room	2x4 Ceiling Tiles
CT-18		Southeast Room @ Stairs	2x4 Ceiling Tiles
FT-19		Southeast Room, Taken @ Closet	12" White Floor Tile & Adhesive
FT-20		Southeast Room, Taken @ gym ent.	12" White Floor Tile & Adhesive
D-21		Southeast, Taken in Breakroom	Drywall System
D-22		Southeast, Taken in Breakroom closet	Drywall System
D-23		Southeast, Taken closet	Drywall System
WT-24		Northeast, Taken @ South side of Gym stairs	Fine aggregate texture
WT-25		Northeast, Taken @ Gym Men's Restroom	Fine aggregate texture
WT-26		Northeast, Taken @ North side of Gym stage	Fine aggregate texture
PL-27		Northeast, Taken @ Gym Stage West wall	Plaster System
PL-28		Northeast, Taken @ Gym East wall	Plaster System
PL-29		Northeast, Taken @ Gym Men's RR	Plaster System
30		VOID	
FT-31		Southeast Classroom, under carpet (T/O)	Floor Tile/Mastic
CT-32		Southeast Classroom (T/O)	2x4 Ceiling Tiles
FT-33		South Classroom to West of entrance (T/O)	9" Floor Tile/Mastic
FT-34		South Classroom to West of entrance (T/O)	9" Floor Tile/Mastic, Brown
<p><b>*Comments/Special Instructions:</b>            BillTo: Construction &amp; Abatement Services, Inc., 301 SE Douglas St, Suite 201, Lees Summit, MO, 64063, US            Attention: Accounts Payable Phone 816-524-3233 Email: Jory.Swim@CASKC.com Purchase Order: 19-7117 RHHS</p>			



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

**Asbestos Bulk Building Material  
Chain of Custody**

EMSL Order Number 'Lab Use Only'9

391911548

St. Louis, MO 63123  
OGNMD9 (314) 577-0150  
E@9 (314) 776-3313

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

Sample #	HA #	Sample Location	Material Description
FT-35		Northwest Classroom (T/O)	12" White Floor Tile/Adhesive
FT-36		Northwest Classroom (T/O)	12" Tan Floor Tile/Adhesive
CT-37		BSMT, West	Heavy Aggregate Ceiling Texture
CT-38		BSMT, West	Heavy Aggregate Ceiling Texture
CT-39		BSMT, West	Heavy Aggregate ceiling Texture
FT-40		BSMT, raised room	Red 9" Floor Tile/Adhesive
FT-41		BSMT, raised room	Tan 9" Floor Tile/Adhesive
PL-42		BSMT, Taken @ Boiler Room (T/O)	Plaster System
PLD-43		2nd Floor, Taken @ Hall Northwest	Plaster on Multi-layered Drywall System
PLD-44		2nd Floor, Taken @ Hall, Stairs	Plaster on Multi-layered Drywall System
PLD-45		2nd Floor, Taken @ Hall East	Plaster on Multi-layered Drywall System
FT-46		2nd Floor, North (T/O)	Tan 9" Floor Tile/Adhesive
FT-47		2nd Floor, North	Tan 12" Tile/Adhesive
FT-48		2nd Floor West	Brown 12" Tile/Adhesive
FT-49		2nd Floor Northwest	Dark Green 9" Floor Tile/Adhesive
FT-50		2nd Floor Northwest	Light Green 9" Floor Tile/Adhesive
<p><b>*Comments/Special Instructions:</b>                      Bill To: Construction &amp; Abatement Services, Inc., 301 SE Douglas St, Suite 201, Lees Summit, MO, 64063, US                      Attention: Accounts Payable Phone: 816-524-3233 Email: Jory.Swim@CASKC.com Purchase Order: 19-7117 RHHS</p>			



301 SE Douglas St.  
Suite 201  
Lee's Summit, MO 64063  
www.caskc.com  
(816) 524-3233  
Fax (816) 524-0348



Missouri Department of dnr.mo.gov  
**NATURAL RESOURCES**  
Michael L. Parson, Governor Carol S. Comer, Director

August 20, 2019

Jory S Swim  
301 SE Douglas St Ste 201  
Lee's Summit, MO 64063

CERTIFICATION NUMBER  
**7001081519MOIR11323**

THIS CERTIFIES  
**Jory S Swim**

HAS COMPLETED THE CERTIFICATION  
REQUIREMENTS FOR  
**Inspector**



APPROVED: **08/21/2019** TRAINING DATE: **08/15/2019**  
EXPIRES: **08/21/2020**  
*Carol S. Comer*  
Director of Air Pollution Control Program

**RE: Missouri Asbestos Occupation Certification Card**

Enclosed is your certification card for Asbestos Inspector, as issued by the Asbestos Unit of the Missouri Department of Natural Resources' Air Pollution Control Program.

Missouri Certification Number: 7001081519MOIR11323  
Course Training Date: August 15, 2019  
Missouri Certification Approval Date: August 21, 2019  
Missouri Certification Expiration Date: August 21, 2020

**Note:**

- All Missouri-certified asbestos personnel must comply with the following statutes and regulations:
  - Sections 643.225 to 643.225, RSMo;
  - 10 CSR 10-6.241 *Asbestos Projects-Registration, Abatement, Notification, Inspection, Demolition, and Performance Requirements; and*
  - 10 CSR 10-6.250 *Asbestos Projects-Certification, Accreditation and Business Exemption Requirements.*
- To keep your occupation certification up-to-date, you must complete an annual refresher course and submit a renewal application each year.
- In order to be eligible to renew your certification, you must successfully complete a refresher course with a Missouri-accredited training provider within 12 months of the expiration date of your current training certificate. If you exceed this grace period, you will be required to retake a Missouri-accredited initial course in order to be eligible for Missouri certification.

To obtain a copy of the certification renewal application, or review regulations and requirements, please visit our website at <http://dnr.mo.gov/env/apcp/asbestos/index.htm>.

If you have any questions please call the Air Pollution Control Program at 573-751-4817.

**AIR POLLUTION CONTROL PROGRAM**

*Carol S. Comer*

Director of Air Pollution Control Program



- Asbestos
- Mold
- Emergency Response 24/7/365
- Radon
- UST/AST Removal and Closure
- Hazardous & Special Waste
- Selective Demo
- Phase I & Phase II