



[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

**LIMITED ASBESTOS AIR CLEARANCE SURVEY**

Inspection Date: 10/23/2019

Report Date: 10/24/2019

Customer: Farmers Insurance  
PO Box 268994  
Oklahoma City, OK 73126

Project Name: [REDACTED]  
Claim #: [REDACTED]  
[REDACTED]  
[REDACTED]

**INTRODUCTION**

This report presents the analytical results of the Limited Asbestos Air Clearance Survey performed on the subject property listed above by Envirocheck, Inc. Please read entire report prior to initiating any action.

**LIMITATIONS**

The findings set forth in this report are strictly limited to the time, date and scope of the investigation. The results presented in this report are based on the analytical testing performed by the certified laboratory. The results from the sampled locations are representative of the entire homogeneous material/areas and not just the locations sampled. According to AHERA, 40 CFR, 763.87 (c)(1),(2) - A homogeneous area is considered not to be Asbestos Containing Material (ACM) only when all required samples collected from a homogeneous area indicate levels below regulated limits and a homogeneous area is considered ACM when at least one of the required samples collected indicates levels above regulated limits. This report does not guarantee that all inaccessible, hidden, or indistinguishable materials will be identified or sampled. Samples were limited to the materials and locations listed on the chain of custody. Materials/areas that were not sampled shall be presumed to be asbestos containing until proven otherwise by appropriate sampling procedures. Square footages are estimates only and should not be used for bidding purposes.

**BACKGROUND, SAMPLING PROTOCOL AND TEST METHODS**

The purpose of this Limited Asbestos PCM Air Clearance Survey is as follows:

- Envirocheck, Inc. was engaged by [REDACTED] to perform a limited asbestos air clearance survey at the above subject property.
- **The subject property is a two-story, single family residence approximately 1,832 total square feet and was built ~ 1959.**
- Envirocheck personnel collected PCM air samples from each containment(s) following the completion of asbestos abatement of approximately 238 square feet of drywall material (Note: The number of samples is ultimately left to the discretion of the on-site technician)
- There was **ONE** containment.      • **CONTAINMENT 1 consists of dining room**
- Each sample was analyzed using Phase Contrast Microscopy (PCM) for fiber content. PCM air sampling and survey was performed by [REDACTED] of Envirocheck, on **10/23/2019**
- The samples were submitted to Envirocheck's in-house laboratory, located at [REDACTED]  
[REDACTED], Inc. NVLAP [REDACTED]
- The Inspector is Cal/OSHA certified and conformed to procedures outlined in the EPA Building Inspector Course.

## EXECUTIVE SUMMARY

Table A. Phase Contrast Microscopy

Sample #	Sampling Date	Sample Type	Location	Result in Fibers per cubic centimeter (f/cc)	Comment
1	10/23/2019	Area After (AA)	Dining Room (Inside Containment)	0.0027 f/cc	Pass

\*Entrained fibers **were not found** to be in excess of the clearance criteria (0.01 fibers per cubic centimeters) as set by AHERA and AQMD for asbestos emissions on the subject property after abatement activities; fibers **were not found** to be in excess of the Permissible Exposure Limit (PEL) of 0.1 fibers per cubic centimeters.

## STATEMENT OF QUALIFICATIONS

### QUALITY ASSURANCE

Envirocheck, Inc. thoroughly monitors quality control through a detailed program evaluating and documenting the ability to consistently reproduce analytical results. To accomplish this, we have developed a standard set of protocols that encompass sample collection, handling, analysis, and reporting. Data quality is evaluated based on both inter-laboratory control and duplicate analysis. All PCM (Phase Contrast Microscopy) samples taken or received by Envirocheck, Inc. undergo proper chain-of-custody and log-in documentation. Quality is assured by blind replicate analysis on 10% of all randomly selected samples. Microscopists analyze one reference slide per day, each with its own set of control limits. Reference slide data is used to generate each analyst's Relative Standard Deviation (Sr), also known as the Coefficient of Variation (CV). The Sr influences the 90% confidence interval, meaning the lower the Sr, the less variance from the mean reported asbestos concentration. Regular updates of Relative Standard Deviations (Sr) are produced for different categories of analysis: Intra-analyst, intra-laboratory, and inter-laboratory. Round robin samples are exchanged between a group of laboratories, with results evaluated by Technical and Quality management.

**CERTIFIED ASBESTOS CONSULTANT SIGNATURE**

Any individual performing services as an asbestos consultant or site surveillance technician as referenced and defined in section 1529(b) of Title 8 of the California Code of Regulations must be certified by the State of California, Division of Occupational Safety and Health (DOSH). Asbestos consultant shall maintain copies of AHERA training certificates for management planner, abatement project designer, abatement contractor and supervisor, and all subsequent annual refresher courses. The complete abatement project designer course certificate is only required for certifications provided after July 1, 1994. Site surveillance technician applicants shall maintain copies of AHERA training completion certificates for inspector, and abatement contractor and supervisor, and all subsequent annual refresher courses. Certificates for abatement worker and abatement project designer may be utilized in lieu of the abatement contractor and supervisor certificate. Specific qualifications are required pursuant to section 1529(o) of Title 8 of the California Code of Regulations for certification. The educational qualifications, (diploma, official transcript, or other proof), and qualifying work experience as specified in Business and Professions Code sections 7184 and 7185 have been met by the individual(s) performing asbestos related consulting activities or site surveillance technician activities. Qualifying work experience includes technical work associated with asbestos consulting activities. Written references attesting to the applicant's qualifying work experience which are certified under the penalty of perjury as required.

Report prepared by:  
Envirocheck, Inc.



# Appendix A: Laboratory Results



**PCM Air Sample Report**

Customer: Farmers Insurance  
 P.O. Box 268994  
 Oklahoma City, OK 73126

Job Location:  
 Claim #

Sample Date	Lab ID	No.	Type	Location/Description	Employee	Total Flow Time min	Air Rate L/min	Air Volume L	# of Fibers	# of Fields	Fiber Density* f/mm <sup>2</sup>	LOD f/cc	LOQ f/cc	95% UCL f/cc	Intra-laboratory S <sup>**</sup>	Result f/cc	8-Hour TWA f/cc
10/23/2019	[REDACTED]	1	AA	Dining Room (Inside Containment)	-	75	16.0	1200.0	9.5	100.0	12	0.002	0.032	0.013	0.45	0.0027	
10/23/2019	[REDACTED]	2	BK	Field Blank					7	100.0	8.9						
10/23/2019	[REDACTED]	3	BK	Lab Blank					3	100.0	3.8						
Job Type(s): Not Provided																	
Analyst: [REDACTED]										Date(s) of Analysis: 10/23/2019		Report Date: 10/23/2019		Admin Q.C.: DD			
[REDACTED]										Lab Q.C.: DW		Invalid Reason(s) / Comments: N/A					

Samples may represent additional people associated with work tasks (See Chain of Custody for details). Samples analyzed according to NIOSH 7200 "A" rules. Results retain only to the number of significant figures shown. Samples will be retained for 30 days unless requested otherwise. \*\*Intra-laboratory Relative Standard Deviation (S<sup>r</sup>) is specific to the lab team and dependent on sample fiber density range. Samples blank corrected, unless blank count above 5 fibers. Samples received by lab in acceptable condition, unless noted otherwise in Invalid Reason(s) / Comments. LOD = Limit of Detection, LOQ = Limit of Quantification, UCL = Upper Confidence Limit, TWA = Time Weighted Average. Sample Type: AA = Area Ater, A = Area AM = Air Monitoring, P = Personal, EX = Excursion, N = Negative Pressure Exhaust.

Appendix B: Chain of Custody



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 Tel: (909) 666-7566 • Fax: (919) 487-1631  
 www.envirocheck.com

Client: **FORMERS INSURANCE**

Contact Name:

Address:

City, State, Zip:

PH:

Date Sampled: **10-23-14**  
 Sampled By: **[Redacted]**  
 P.O. #: **[Redacted]**  
 Project Name: **[Redacted]**  
 Contact: **[Redacted]**  
 Address: **[Redacted]**  
 City, State: **[Redacted]**  
 Additional info:

General Chain of Custody

ID	Location	Material Sample Type	Sq/Ft	Time On	Time Off	LPIM	Field/Shop Results
1	DN RM (EG)	AC		8:41 am	9:56 am	6	45/100
2	Soil Field	Blank					7/160
3	Soil Lab	Blank					2/100

Date: **10-23-14** Time: **11:19 am**  
 \*Samples Relinquished By: **[Redacted]**  
 Samples Received By: **[Redacted]**

\* By signing above, Client acknowledges that he/she/it has read the terms and conditions on this form, and agrees to be bound hereby.  
 Printed Name of Client: **[Redacted]** (11/11)

Turnaround Time (T.A.T.)

Please see Key below  
 Same Day  
 Next Day  
 2 Days  
 3-5 Days  
 6-10 Days  
 Other - QAS/IC

Procedure Requested

Asbestos Bulk  
 EPA-8000M-82-020 "The Intermittent" and EPA/600/R-83/116  
 Materials NOT covered in "The Intermittent" or EPA/600/R-83/116 Soil, dust, wipes, paints, etc. are analyzed per method approved by our NVLAP accreditation.  
 Asbestos by PCM  
 NIOSH 7460  
 Asbestos by TEM  
 Method: \_\_\_\_\_

**Lead**  
 Paint  
 Air  
 Chips  
 Wipes  
 Soil

**Non-Viable Mold**  
 Air  
 Tape Lift  
 Surface Swabs

**Bacteria**  
 Quantitative Sewage Screen  
 Qualitative Sewage Screen  
 Other: \_\_\_\_\_

**Turnaround Time (T.A.T.) Key & Definitions:**  
 Same Day: Samples received by end of business day or before 7:00am. Results provided by end of business day or before 9:00am.  
 Next Day: Samples received by end of business day or before 8:00am. Results provided by end of business day or before 9:00am.  
 2-3 Days: Samples received by end of business day or before 8:00am. Results provided by end of business day or before 9:00am.  
 6-10 Days: Samples received by end of business day or before 9:00am. Results provided by end of business day or before 9:00am.  
 Other: Other methods provided by end of business day or before 9:00am.

### Asbestos Related Terms

<b>AHERA</b>	Asbestos Hazard Emergency Response Act (Regulates School Facilities)
<b>ASHARA</b>	Asbestos School Hazard Abatement Reauthorization Act (Includes public and commercial buildings under AHERA regulation)
<b>ACM</b>	Asbestos Containing Material (Materials containing greater than one (1) percent by weight)
<b>ACCM</b>	Asbestos Containing Construction Material (CAL-OSHA's term for materials containing greater than one-tenth of one (0.1) percent by weight)
<b>PACM</b>	Presumed Asbestos Containing Material (Materials considered asbestos containing without laboratory analysis)
<b>CAC</b>	Certified Asbestos Consultant (State of California certified individual allowed to perform all aspects of asbestos related inspection, management, planning, and design work and to direct CSST(s) and review and execute asbestos reports under state law.)
<b>CSST</b>	Certified Site Surveillance Technician (Allowed to perform all aspects of asbestos related inspection, management, work under the direction of a CAC.)
<b>CAL-OSHA aka (DOSH)</b>	Division of Occupational Safety and Health (California governing body regulating worker protection)
<b>OSHA</b>	Occupational Health and Safety Administration
<b>NIOSH</b>	National Institute of Occupational Safety and Health
<b>EPA</b>	Environmental Protection Agency (Regulates environment and waste stream)
<b>DOT</b>	Department of Transportation
<b>NESHAP</b>	National Emissions Standard for Hazardous Air Pollutants
<b>SCAQMD</b>	South Coast Air Quality Management District (Local division of NESHAP)
<b>NVLAP</b>	National Voluntary Laboratory Accreditation Program
<b>AIHA</b>	American Industrial Hygiene Association
<b>CFR</b>	Code of Federal Regulations
<b>CCR</b>	California Code of Regulations
<b>PLM</b>	Polarized Light Microscopy (Also known as "Bulk" sample)
<b>PCM</b>	Phase Contrast Microscopy
<b>TEM</b>	Transmission Electron Microscopy

### Laboratory Report Terms

<b>ND</b>	None Detected
<b>A</b>	Area Sample (Air monitoring)
<b>AA</b>	Area After
<b>P</b>	Personal Sample (Employee monitoring type sample)

<b>EX</b>	Excursion (Employee monitoring type of sample during peak activities)
<b>BK</b>	Blank (Used for quality assurance)