



DC Environmental
Consulting and Training Services

MICROVAC DUST SAMPLING REPORT

Gibson Health Hub
Albuquerque, New Mexico

PREPARED FOR:

City of Albuquerque

Mr. James Meeks

Risk Management Department

P.O. Box 470

Albuquerque, New Mexico 87103

PREPARED BY:

DC Environmental

PO Box 9315

Albuquerque, New Mexico 87119

505.869.8000

July 6, 2023

23-144



July 6, 2023
Project No. 23-144

Mr. James Meeks
City of Albuquerque
Risk Management
P.O. Box 470
Albuquerque, New Mexico 87103

Subject: MicroVac Dust Sampling
Gibson Health Hub – 5400 Gibson Blvd SE
Albuquerque, New Mexico
Project Number DCE 23-144

Mr. Meeks:

Thank you for contacting DC Environmental in regard to the above referenced project and for allowing us to perform an asbestos assessment of settled dust within the interior space of the above referenced address. Materials that are reported to be asbestos containing were disturbed. The concern was that asbestos structures were remaining in the building. The attached report presents our methodology, findings, and recommendations for the project.

We appreciate the opportunity to be of service to you on this project. Should you have any questions regarding this report, please contact the undersigned at 505.869.8000 at your convenience.

Sincerely,

ACME ENVIRONMENTAL INDUSTRIAL HYGIENE dba DC ENVIRONMENTAL

David Charlesworth

J. David Charlesworth
Certified Industrial Hygienist

Karen Dremann

Karen Dremann
President

TABLE OF CONTENTS

	<u>Page</u>
1. INTRODUCTION	1
2. PURPOSE AND SCOPE OF SERVICES	1
3. SITE DESCRIPTION	1
4. FIELD ACTIVITIES	1
4.1. Settled Dust Sampling	2
5. FINDINGS AND CONCLUSIONS	2
5.1. Settled Dust Evaluation	2
6. RECOMMENDATIONS.....	4
7. LIMITATIONS	5

Appendix A - Laboratory Results

Appendix B - Certifications

1. INTRODUCTION

In accordance with the request, DC Environmental has performed MicroVac Settled Dust Sampling within the facility located at 5400 Gibson Blvd SE, Albuquerque, New Mexico. This report has been prepared in accordance with generally accepted environmental science and engineering practices. This report is based upon conditions at the subject site at the time of the sampling activities and provides documentation of our findings and recommendations.

2. PURPOSE AND SCOPE OF SERVICES

The City of Albuquerque requested DC Environmental to perform settled dust sampling. It was reported that a release of asbestos materials occurred during construction related activities.

The objective of this assessment was to perform the requested monitoring and present the findings along with any recommendations. The services performed by DC Environmental are outlined below.

- A reconnaissance of the area was conducted by an Industrial Hygiene Technician, Mr. Steven Gutierrez. Mr. James Meeks and Mr. Vicente Martinez provided access to the facility. This walkthrough included a general visual assessment of the building, hazard identification, selection of sample locations, and collection of settled particulate samples.
- MicroVac samples were collected and delivered to Crisp Analytical Laboratories of Carrollton, Texas.
- Report preparation summarizing our sampling methods and analytical results. This report further details our conclusions and recommendations for the project.

3. SITE DESCRIPTION

The subject site consists of a multi-story healthcare facility in southeast Albuquerque, New Mexico. The facility is of concrete construction. Interior finishes are typical office or healthcare settings. Walls appear to be gypsum wallboard construction. Ceilings are acoustic ceiling tile while flooring includes resilient floor covering with occasional carpet in select areas. The roof was not accessed as part of this assessment.

4. FIELD ACTIVITIES

On June 14, 2023, a representative of DC Environmental arrived at the facility, met with the stakeholders, and walked the facility. Mr. Steven Gutierrez performed the settled dust sampling within the facility.

Settled dust containing asbestos structures should be referenced to the EPA 2005 draft report from the *Contaminants of Potential Concern Committee of the World Trade Center Indoor Air Task Force Working Group*. This report determines that indoor occupied spaces in excess of 5,000 s/cm² have increased risk and would necessitate remediation.

The complete laboratory analysis for the settled dust sampling can be referenced in the attached appendices.

4.1. Settled Dust Sampling

Settled dust sampling was performed in substantial compliance with the ASTM D5755 standards regarding micro-vacuum sampling and according to the laboratory procedures. Samples were collected in areas that had visual concentration of excess particulate. Samples were collected using a 144 square inch area template. Each successive sample location was performed with a cleaned template. Sampling was performed using nitrile gloves and a cleaned template to minimize cross contamination. A security-sealed package of sample cassettes was opened at the facility prior to sampling. Individual cassettes were used directly from the package and opened only during the sampling event.

The collected sample cassettes were sent by commercial carrier to Crisp Analytical Laboratories (CA Labs) of Carrollton, Texas accompanied by standard quality control chain-of-custody documentation. CA Labs is accredited by the American Industrial Hygiene Association and rated proficient in the analysis of asbestos by multiple laboratory techniques including electron microscopy.

5. FINDINGS AND CONCLUSIONS

The findings of this assessment are based on our visual observations and analysis of the samples collected from the facility. Our findings are presented below.

5.1. Settled Dust Evaluation

The dust samples were collected and analyzed by Transmission Electron Microscopy (TEM) in substantial compliance with ASTM International Standard (ASTM D5755-0) which includes analysis by x-ray microanalysis and Select Area Diffraction.

The complete laboratory analysis for the airborne dust sampling can be referenced in the attached appendices.

Table 1: Microvacuum Sample Result Summary

Sample ID	Sample Name	Asbestos Structures Detected, $\geq 0.5\mu\text{m}$ to $>5\mu\text{m}$	Reported Concentration s/cm ²	Analytical Sensitivity s/cm ²
23-144-01	Floor of Old Pre-Op Area Middle of Room	No Structures Detected		954.40
23-144--02	Duct Work in Old Pre-Op Area Middle of Room	No Structures Detected		954.40
23-144-03	Inside of Air Handler #2 South Wall	No Structures Detected		954.40
23-144-04	Inside of Air Handler #3 West Wall	No Structures Detected		954.40
23-144-05	Top of Air Handler #3	No Structures Detected		954.40
23-144-06	Floor of Sobering Area Middle of Room	No Structures Detected		954.40
23-144-07	Landing of Stairwell B In Between 1st and 2nd Floor	No Structures Detected		954.40

23-144-08	Above Lay in Ceiling Tiles South End in Interim Women's Shelter Rm F11	2 Structures of Chrysotile Asbestos	1,908.80	954.40
23-144-09	Above Lay in Ceiling Tiles South End in Interim Women's Shelter Rm F12	1 Structure of Chrysotile Asbestos	954.40	954.40
23-144-10	Above Lay in Ceiling Tiles West End in NMDOH Training Rm	No Structures Detected		954.40
23-144-11	Above Lay in Ceiling Tiles NW End in NMDOH Training Rm	No Structures Detected		954.40
23-144-12	Above Lay in Ceiling Tiles North End in NMDOH Patient Rm 203	No Structures Detected		954.40
23-144-13	Above Lay in Ceiling Tiles SE End in NMDOH Soiled Linen Rm	No Structures Detected		954.40
23-144-14	Above Lay in Ceiling Tiles SE End in NMDOH Maintenance Rm	No Structures Detected		954.40
23-144-15	Above Lay in Ceiling Tiles SW End in NMDOH Breakout Rm	No Structures Detected		954.40
23-144-16	Above Lay in Ceiling Tiles South End in NMDOH IOP Rm	No Structures Detected		954.40
23-144-17	Above Lay in Ceiling Tiles West End Corridor of Front Lobby (Reference Area)	No Structures Detected		954.40
23-144-18	Above Lay in Ceiling Tiles Underneath Escalators of Front Lobby (Reference Area)	1 Structure of Chrysotile Asbestos	954.40	954.40
23-144-19	Above Lay in Ceiling Tiles East End of Front Lobby (Reference Area)	No Structures Detected		954.40
23-144-20	Filters of Air Handler #3 Dated 2/27/23	No Structures Detected		954.40
23-144-21	Field Blank	No Structures Detected		954.40

Sample analysis by Transmission Electron Microscopy has indicated that the concentration of settled dust structures for the interior samples are not significantly elevated when compared to the reference samples. Dust concentrations are also below the EPA reference regarding the contaminant of concern for asbestos in settled dust when referenced to the *Contaminants of Potential Concern Committee of the World Trade Center Indoor Air Task Force Working Group (EPA 2005)*. This report determines that indoor occupied spaces in excess of 5,000 s/cm² have increased risk.

No asbestos structures were detected in 18 of the 21 samples collected and analyzed by Crisp Analytical Laboratories reported no asbestos structures detected. The remaining samples were not statistically significant for elevated fibers when compared to the reference sample locations. Please refer to the analytical data in the appendix to this report.

6. RECOMMENDATIONS

Based on our visual observations and the analysis received, DC Environmental recommends the following:

- The building meets the requirements for release back to the building occupants without additional asbestos risk. This is based on EPA guidance as established in the 2005 report from the Contaminants of Potential Concern Committee of the World Trade Center Indoor Air Task Force Working Group. DC Environmental recommends that maintenance staff be provided awareness level training for work operations that may impact dust above the ceiling and for work operations that impact the mechanical system maintenance. This would include filter change out and cleaning of the ductwork, grilles or diffusers.
- DC Environmental recommends that areas beneath the core drilling operations and area impacted by mastic abrasion be cleaned appropriately to remove any errant asbestos structures. This includes work spaces adjacent to the asbestos-containing material disturbance.
- DC Environmental recommends an Operations and Maintenance Program be established in areas where asbestos-containing materials are present.

DC Environmental appreciates the opportunity to assist on this project. Should you have further questions, please contact us at your convenience.

7. LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities.

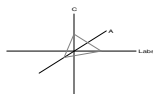
The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses. DC Environmental has no involvement in, or control over, such testing and analysis. DC Environmental, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time because of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which DC Environmental has no control.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. DC Environmental should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

Appendix A
Laboratory results



Transmission Electron Microscopy Report

Analysis Method: TEM Microvac Dust analysis/ASTM Designation: D 5755-09

Preparation Method: Filters are Redistributed, Carbon Coated, Plasma ashed to ten percent weight loss, and Dissolved with Acetone in both jaffe-wick and condensate washer (cold-finger). All preps must be verified by another analyst.

Client Information:
DC Environmental
PO Box 9315
Albuquerque, NM 87119

Phone: 505-869-8000
Fax: 505-869-9453

Client Project:
DCE 23-144
CABQ Gibson Health Hub
5400 Gibson Blvd SE

Turnaround Time: 5 Days
Attn:

CA Labs Project #:
CAL23065167AS

Date of Sampling: 6/14/23
Report Date: 6/26/23
Samples Received: 6/20/23 10:30AM
Purchase Order #:

Laboratory Sample #	Client Sample#	Location – provided by client	Sample Surface Area (cm ²)	# GO Analyzed	Volume of Sample Dilution	Asbestos Structures Detected	Non - Asbestos Structures / Identification	Dust Concentration s/cm ²	Analytical Sensitivity s/cm ²
57859	23-144-01	Floor of Old Pre-Op Area Middle of Room	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57860	23-144-02	Duct Work in Old Pre-Op Area Middle of Room	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57861	23-144-03	Inside of Air Handler #2 South Wall	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57862	23-144-04	Inside of Air Handler #3 West Wall	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57863	23-144-05	Top of Air Handler #3	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57864	23-144-06	Floor of Sobering Area Middle of Room	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57865	23-144-07	Landing of Stairwell B in Between 1 st and 2 nd Floor	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57866	23-144-08	Above Lay in Ceiling Tiles South End in Interim Women's Shelter Rm F11	929.03 ^{cm2}	10	1 ml	2 Chrysotile	NSD	1,908.80	954.40

NVLAP # 200349-0

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Julio Robles
Analyst

TDH # 30-0235

Page 1 of 3

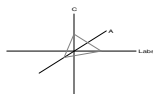
Tanner Rasmussen
Technical Manager

Julio Robles
Senior Analyst

Notes:

CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber analysis (PLM) and airborne fiber analysis (TEM) and by the TCEQ for analysis of asbestos in drinking water. CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC.) in the TEM asbestos field of testing for Industrial Hygiene. This test report relates only to the items tested. Neither NVLAP, AIHA nor TCEQ accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full without written permission from CA Labs. The laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in structures/cm² are dependent on the area sampled and measured by non-laboratory personnel.

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.



Transmission Electron Microscopy Report

Analysis Method: TEM Microvac Dust analysis/ASTM Designation: D 5755-09

Preparation Method: Filters are Redistributed, Carbon Coated, Plasma ashed to ten percent weight loss, and Dissolved with Acetone in both jaffe-wick and condensate washer (cold-finger). All preps must be verified by another analyst.

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DC Environmental
PO Box 9315
Albuquerque, NM 87119

Phone: 505-869-8000
Fax: 505-869-9453

Client Project:
DCE 23-144
CABQ Gibson Health Hub
5400 Gibson Blvd SE

Turnaround Time: 5 Days
Attn:

CA Labs Project #:
CAL23065167AS

Date of Sampling: 6/14/23
Report Date: 6/26/23
Samples Received: 6/20/23 10:30AM
Purchase Order #:

Laboratory Sample #	Client Sample#	Location – provided by client	Sample Surface Area (cm ²)	# GO Analyzed	Volume of Sample Dilution	Asbestos Structures Detected	Non - Asbestos Structures / Identification	Dust Concentration s/cm ²	Analytical Sensitivity s/cm ²
57867	23-144-09	Above Lay in Ceiling Tiles South End in Interim Women's Shelter Rm F12	929.03 ^{cm2}	10	1 ml	1 Chrysotile	NSD	954.40	954.40
57868	23-144-10	Above Lay in Ceiling Tiles West End in NMDOH Training Rm	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57869	23-144-11	Above Lay in Ceiling Tiles NW End in NMDOH Training Rm	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57870	23-144-12	Above Lay in Ceiling Tiles North End in NMDOH Patient Rm 203	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57871	23-144-13	Above Lay in Ceiling Tiles SE End in NMDOH Soiled Linen Rm	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57872	23-144-14	Above Lay in Ceiling Tiles SE End in NMDOH Maintenance Rm	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57873	23-144-15	Above Lay in Ceiling Tiles SW End in NMDOH Breakout Rm	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57874	23-144-16	Above Lay in Ceiling Tiles South End in IOP Rm	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40

NVLAP # 200349-0

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Julio Robles
Analyst

TDH # 30-0235

Page 2 of 3

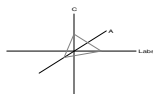
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Julio Robles
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Laboratory Sample #	Client Sample#	Location – provided by client	Sample Surface Area (cm ²)	# GO Analyzed	Volume of Sample Dilution	Asbestos Structures Detected	Non - Asbestos Structures / Identification	Dust Concentration s/cm ²	Analytical Sensitivity s/cm ²
57875	23-144-17	Above Lay in Ceiling Tiles West End Corridor of Front Lobby	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57876	23-144-18	Above Lay in Ceiling Tiles Underneath Escalators of Front Lobby	929.03 ^{cm2}	10	1 ml	1 Chrysotile	NSD	954.40	954.40
57877	23-144-19	Above Lay in Ceiling Tiles East End of Front Lobby	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57878	23-144-20	Filters of Air Handler #3	929.03 ^{cm2}	10	1 ml	NSD	NSD	<954.40	954.40
57879	23-144-21	Field Blank	0.0	10	9 ml	NSD	NSD	-----	-----
Lab Blank	----	----	0.0	10	1 ml	NSD	NSD	-----	-----

All samples received in good condition unless noted.

Dilution Factor:	N/A	Area Analyzed:	0.1200 mm ²	Grid Opening Area:	0.0120 mm ²
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NVLAP # 200349-0
AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Julio Robles
Analyst

TDH # 30-0235

Page 3 of 3

Tanner Rasmussen
Technical Manager

Julio Robles
Senior Analyst

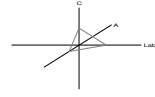
Notes:

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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.

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.
11800 Industriplex, Suite 5
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

**Transmission Electron Microscopy Report
Dust Analysis
Laboratory Analysis Report
ASTM Microvac Protocol**

DC Environmental
PO Box 9315
Albuquerque, NM 87119

Reference number: CAL23065167AS

LABORATORY ANALYSIS

Summary of analytical transmission electron microscopy analysis, including x-ray microanalysis (EDS) and selected area diffraction (SAED) of air samples submitted. The samples were analyzed as per ASTM Microvac regulations (see METHOD below). This report confirms results issued from CA Labs by phone and/or fax. **CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM) and by the Texas Commission on Environmental Quality (TCEQ) for analysis of asbestos in drinking water. CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC) in the PLM, TEM and PCM Asbestos fields of testing for industrial hygiene.** This analysis is not covered by the scope of accreditation of NVLAP.

METHOD:

The procedure for Microvac analysis of dust samples follows ASTM methodologies, designation D 5755-09. Any variation of the protocol requirements of the surfaced area sample (100cm²) will cause the reported concentration to be an estimate, only.

The test results relate only to the items described and tested herein. 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 days before discarding. A shipping and handling fee may be assessed for the return of any samples.

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

Appendix B
Certifications

CERTIFICATE OF TRAINING

EPA/AHERA Training Program



This is to certify that

STEVEN P. GUTIERREZ

NM. DL. 121 014 475

Has completed 8 hours of online training and **PASSED** the test required by EPA 40 CFR 763 Subpart E, Appendix C; Section 206 of TSCA Title II and in accordance with ALABAMA SAFE STATE REGULATIONS, Section 822-X-2-.05 entitled,

ASBESTOS CONTRACTOR SUPERVISOR REFRESHER

PRESENTED BY

Mendez Environmental™
1005 Veterans Mem Blvd
Suite, 101
Kenner, LA 70062
Tel: (504) 468-8858



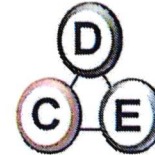
Director: _____

Josefina Mendez-Rosa
Josefina Mendez-Rosa

(English)

IN COLLABORATION WITH

DC Environmental
P.O. Box 9315
Albuquerque, NM 87119
Tel: (505) 869-8000
www.dcenvironmental.net



NM Program Manager/Instructor: _____

David Charlesworth
David Charlesworth

Instructor: _____

Jeff Biedenbach
Jeff Biedenbach

Course Date: 01-04-2023

Certificate Number: AS0123KNMPSG25491

Test Date: 01-04-2023 Grade: **PASS**

Expiration Date: 01-04-2024

The Board for Global EHS Credentialing (BGC)

through its vested authority, hereby confirms that

James David Charlesworth

has met all requirements of education, experience, and examination, and on-going maintenance set forth through the BGC's American Board of Industrial Hygiene® (ABIH®) credentialing division for re-certification in the Comprehensive Practice of Industrial Hygiene and is thereby conferred the credential of

Certified Industrial Hygienist® (CIH®)

The aforementioned individual is given all rights, privileges, and responsibilities as both a diplomate of the BGC and holder of the CIH credential, provided that the credential is not suspended or revoked, and it is renewed annually. Moreover, the holder must meet all recertification requirements, including the obligation to practice ethically as prescribed by the BGC.

Credential Number: 8159 CP

Award Date: October 30, 2001

Expiration Date: June 1, 2027



Thomas G. Grumbles, CIH, CPPS, FAIHA
Chair of the Board of Directors



Ulric K. Chung, MCS, PhD
Chief Executive Officer and Secretary

