

ASBESTOS AIR SAMPLING

COMPLETED FOR THE
GENERAL SERVICES ADMINISTRATION

Survey Location:

CHET HOLIFIELD FEDERAL BUILDING
GENERAL SERVICES ADMINISTRATION
24000 AVILA ROAD
LAGUNA NIGUEL, CALIFORNIA 92677

Survey dates:

NOVEMBER 9, 2016 AND NOVEMBER 10, 2016

Report Date:

DECEMBER 13, 2016

Prepared by:

UNITED STATES PUBLIC HEALTH SERVICE
FEDERAL OCCUPATIONAL HEALTH
JFK BUILDING ROOM E-110,
GOVERNMENT CENTER
BOSTON, MA 02203



A. EXECUTIVE SUMMARY

On November 9 and November 10, 2016, U.S. Public Health Service, Federal Occupational Health, inspection team members, Josh White, Courtney Lewis and Michael Pinkerton conducted an asbestos transmission electron microscopy (TEM) air sampling throughout the Chet Holifield Federal Building located at 24000 Avila road, in Laguna Niguel, California 92677. Air samples were collected in common areas, mechanical air handler rooms, storage rooms, file rooms and in occupied office spaces throughout the building. A total of sixty-eight (68) air samples were collected by Federal Occupational Health and submitted to AMA Analytical Services, Inc. for asbestos fibers concentration analysis using transmission electron microscopy (TEM). Samples were analyzed following the National Institute of Occupational Safety and Health AHERA (40 CFR part 763 Appendix A subpart E) protocol.

Laboratory analysis indicated fiber levels that ranged from less than (<)15 to 15 structures per millimeter squared (s/mm^2) of air.

There are currently no regulations for general area asbestos air sampling so there are no regulations that you can compare the results too directly. The US Occupational Safety and Health Administration (OSHA) has regulations for personal exposure which entails the actual employee wearing the sampling device. This was not the case so FOH will not compare our area sampling results to the OSHA PEL of 0.01 fibers per cubic centimeter. The US Environmental Protection Agency (EPA) has regulations for area air sampling within a containment after an asbestos abatement has been completed. When performing general area asbestos air sampling, FOH compares results to the EPA regulations. There are some differences in the method of collection since FOH did not collect the samples in a containment but the clearance level is the same.

For TEM samples, EPA uses the clearance level of $70 s/mm^2$ after an asbestos removal has been completed. This is the level at which EPA considers the space safe to occupy. All of the samples collected by FOH had levels less than $70 s/mm^2$.

B. INTRODUCTION

On November 9, 2016 and November 10, 2016, U.S. Public Health Service, Federal Occupational Health, inspection team members, Josh White, Courtney Lewis and Michael Pinkerton conducted asbestos air sampling at the Chet Holifield Federal Building located at 24000 Avila Road, in Laguna Niguel, California 92677. Air samples were collected in common areas, mechanical air handler rooms, storage rooms, file rooms and office spaces occupied by government agencies within the above referenced structure (Please refer to the attached Site Map). A total of Sixty-eight (68) air samples were collected and analyzed for asbestos fibers using transmission electron microscopy (TEM) by AMA Analytical Laboratory in Lanham, MD.

The Chet Holifield Federal Building is a United States Government Building managed by the General Service Administration and is occupied by government agencies. The 7-story pyramidal form building was constructed between 1967 and 1971 and is approximately 1,000,000 square foot in size. It is constructed of angled, painted, pre-cast concrete panels with reticulation, a textured finish that displays curvilinear forms and recessed anodized aluminum windows. The building has a concrete frame and the lateral force-resisting system consists of concrete shear walls and single-level concrete moment frames. This office space has carpeted and tiled floors, painted-sheetrock walls, drop ceilings, and the supply air is ducted while the return air is transported via the plenum area above the ceiling.

Before the survey, an opening conference was held with GSA Senior Property Manager Sherry Hutchinson and Building Manager Samantha Shintaku, to discuss the procedures and the locations of the air sampling.

C. METHODS

Air sampling was conducted by drawing a known volume of air through a filter using flow-controlled pumps that were each pre and post calibrated. Calibration was made by using a Bios Defender 520 Primary Flow Calibrator, with a representative sampler in line. The filter media used was 0.45 micron pore-size mixed cellulose ester filter with backup pad. Each sample was collected open-faced in a 25-millimeter non-conducting cassette. Each sample was collected at breathing zone height. The samples were collected for approximately 2 hours and a sufficient volume of air was collected to meet the required limit of quantification for TEM analysis as well as meet the optimum fiber loading on the filter. FOH collected the samples for approximately 2 hours to capture most activities that occur on a daily basis. Air samples were set up in common areas, mechanical air handle rooms, storages, file rooms and in occupied office spaces. A total of sixty-eight (68) air samples and were collected and analyzed for asbestos fiber concentrations using TEM an American Industrial Hygiene Association (AIHA) accredited laboratory. All samples were analyzed by AMA Analytical Laboratory in Lanham,MD.

D. RESULTS

A total of sixty-eight (68) air samples were analyzed for asbestos fiber concentrations using TEM by AMA Analytical Laboratory in Lanham, MD. Samples were analyzed according to the AHERA (40 CFR part 763 Appendix A subpart E) protocol.

Laboratory analysis indicated fiber levels which ranged from less than(<) 15 s/mm² to 15 s/mm². Complete laboratory results and sample location plans can be found in Section F-Supporting Documents of this report.

Voided sample cassettes were discarded due to equipment failure during the assessment. Sampling areas that were voided were re-sampled during the consecutive sampling dates. Due to facility limitations not all areas were accessible during secondary sampling dates.

E. DISCUSSION AND RECOMMENDATIONS

FOH collected and had analyzed a total of 68 air samples (not including blanks) from throughout the Holifield Federal Building. FOH collected the samples for approximately 2 hours throughout the day during normal building operations.

There are currently no regulations for general area asbestos air sampling so there are no regulations that you can compare the results too directly. The US Occupational Safety and Health Administration (OSHA) has regulations for personal exposure which entails the actual employee wearing the sampling device. This was not the case so FOH will not compare our area sampling results to the OSHA PEL of 0.01 fibers per cubic centimeter. The US Environmental Protection Agency (EPA) has regulations for area air sampling within a containment after an asbestos abatement has been completed. When performing general area asbestos air sampling, FOH compares results to the EPA regulations. There are some differences in the method of collection since FOH did not collect the samples in a containment but the clearance level is the same.

For TEM samples, EPA uses the clearance level of 70 s/mm² after an asbestos removal has been completed. This is the level at which EPA considers the space safe to occupy. All of the samples collected by FOH had levels less than 70 s/mm².

FOH recommends that any work that is done above the ceiling, in the plenum area, is completed after hours while utilizing a negative pressure mini-containment. This will limit the disturbance of the dust on the top of the ceiling tiles.

F. SUPPORTING DOCUMENTS

The following supporting documents are attached to the report:

Laboratory Report/Chain of Custody (20 pages)

Floor Plan (7 pages)



CERTIFICATE OF ANALYSIS

Client:	FOH Boston Area Office/George Benar	Job Name:	Chet Hollifield	Chain Of Custody:	537373
Address:	JFK Building - Room E-110, Government Center Boston, Massachusetts 02203	Job Location:	24000 Avila Road, Laguna Niguel, CA 92677	Date Analyzed:	11/22/2016
Attention:	Joshua White	Job Number:	98350-05528	Person Submitting:	Joshua White
		P.O. Number:	Not Provided		

Summary of Transmission Electron Microscopy

Filter Type: MCE Pore Size: 0.45 um Filter Size: 25 mm (385 mm²)

AMA Sample Number	Client Sample Number	Volume (L)	Area Analyzed (mm ²)	Analytical Sensitivity s/cc	Asbestos Type Amount	# Non Asbestos Structures	Concentration s/mm ²	Concentration s/cc	Sample Type	Comments
17020291	1-08	1258.488	0.0665	0.0046	0	0	<15	<0.0046	N/P	
17020292	1-24	1247.25	0.0665	0.0046	0	0	<15	<0.0046	N/P	
17020293	2-35	1218.536	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17020294	2-36	1216.28	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17020295	2-37	1205.644	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17020296	3-48	1210	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17020297	3-49	1217.804	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17020298	3-50	1219.268	0.0665	0.0047	0	0	<15	<0.0047	N/P	
17020299	3-52	1219.024	0.0665	0.0047	0	0	<15	<0.0047	N/P	
17020300	3-55	1219.268	0.0665	0.0047	0	0	<15	<0.0047	N/P	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NY ELAP, NVLAP, NIST, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

CERTIFICATE OF ANALYSIS

Client: FOH Boston Area Office/George Bearer **Job Name:** Chet Hollifield **Chain Of Custody:** 537373
Address: JFK Building - Room E-110, Government Center **Job Location:** 24000 Avila Road, Laguna Niguel, CA 92677 **Date Analyzed:** 11/22/2016
 Boston, Massachusetts 02203 **Job Number:** 98350-05528 **Person Submitting:** Joshua White
Attention: Joshua White **P.O. Number:** Not Provided

Summary of Transmission Electron Microscopy

Filter Size: 25 mm (385 mm²)

Pore Size: 0.45 um

Filter Type: MCE

AMA Sample Number	Client Sample Number	Volume (L)	Area Analyzed (mm ²)	Analytical Sensitivity s/cc	Asbestos Type Amount	# Non Asbestos Structures	Concentration s/mm ²	Concentration s/cc	Sample Type	Comments
17020301	3-58	1251.432	0.0665	0.0046	0	0	<15	<0.0046	N/P	
17020302	4-60	1216.584	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17020303	1-01	1448.26	0.0665	0.0040	0	0	<15	<0.0040	N/P	
17020304	1-10	1496.7	0.0665	0.0039	0	0	<15	<0.0039	N/P	
17020305	1-12	1478.224	0.0665	0.0039	0	0	<15	<0.0039	N/P	
17020306	1-13	1226.18	0.0665	0.0047	0	0	<15	<0.0047	N/P	
17020307	1-20	1464.708	0.0665	0.0040	0	0	<15	<0.0040	N/P	
17020308	1-21	1460	0.0665	0.0040	0	0	<15	<0.0040	N/P	
17020309	1-26	1307.642	0.0665	0.0044	0	0	<15	<0.0044	N/P	
17020310	3-57	1309.214	0.0665	0.0044	0	0	<15	<0.0044	N/P	

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CERTIFICATE OF ANALYSIS

Client:	F/OH Boston Area Office/George Benter	Job Name:	Chet Hollifield	Chain Of Custody:	537373
Address:	JFK Building - Room E-110, Government Center Boston, Massachusetts 02203	Job Location:	24000 Avila Road, Laguna Niguel, CA 92677	Date Analyzed:	11/22/2016
Attention:	Joshua White	Job Number:	98350-05528	Person Submitting:	Joshua White
		P.O. Number:	Not Provided		

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Summary of Transmission Electron Microscopy

AMA Sample Number	Client Sample Number	Volume (L)	Area Analyzed (mm ²)	Analytical Sensitivity s/cc	Asbestos Type Amount	# Non Asbestos Structures	Concentration s/mm ²	Concentration s/cc	Sample Type	Comments
17020311	5-65	1758.592	0.0665	0.0033	0	0	<15	<0.0033	N/P	
17020312	4-70	1429.142	0.0665	0.0041	0	0	<15	<0.0041	N/P	
17020313	1-02	1400.412	0.0665	0.0041	0	0	<15	<0.0041	N/P	
17020314	4-62	1246.5	0.0665	0.0046	0	0	<15	<0.0046	N/P	
17020315	1-06	1209.879	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17020316	1-11	1248.375	0.0665	0.0046	0	0	<15	<0.0046	N/P	
17020317	1-19	1208.548	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17020318	1-23	1199.28	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17020319	1-25	1250	0.0665	0.0046	1 Chrysotile	0	15	0.0046	N/P	
17020320	3-51	1210	0.0665	0.0048	0	0	<15	<0.0048	N/P	

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CERTIFICATE OF ANALYSIS

Client: FOH Boston Area Office/George Bearer **Job Name:** Chet Hollifield **Chain Of Custody:** 537373
Address: JFK Building - Room E-110, Government Center **Job Location:** 24000 Avila Road, Laguna Niguel, CA 92677 **Date Analyzed:** 11/22/2016
 Boston, Massachusetts 02203 **Job Number:** 98350-05528 **Person Submitting:** Joshua White
Attention: Joshua White **P.O. Number:** Not Provided

Page 4 of 4

Summary of Transmission Electron Microscopy

Filter Type: MCE Pore Size: 0.45 um Filter Size: 25 mm (385 mm²)

AMA Sample Number	Client Sample Number	Volume (L)	Area Analyzed (mm ²)	Analytical Sensitivity s/cc	Asbestos Type Amount	# Non Asbestos Structures	Concentration s/mm ²	Concentration s/cc	Sample Type	Comments
17020321	2-53	1209.758	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17020322	3-56	1198.56	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17020323	7-68	1228.524	0.0665	0.0047	0	0	<15	<0.0047	N/P	
17020324	7-69	1249.75	0.0665	0.0046	0	0	<15	<0.0046	N/P	
17020325	1-14	1200	0.0665	0.0048	0	0	<15	<0.0048	N/P	

Analytical procedures used meet or exceed the AHERA "Interim Transmission Electron Microscopy Analytical Methods" protocol described in Appendix A to Subpart E of 40 CFR Part 763.

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

Technical Director **Analyst(s)**
 Andreas Saldivar Izabelle Mendez



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AMA Analytical Services, Inc.
 Focused on Results www.amalab.com
 AIHA (#100470) NVLAP (#101143-0) NY ELAP (10920)
 4475 Forbes Blvd. • Lanham, MD 20706
 (301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643

CHAIN OF CUSTODY

(Please Refer To This Number For Inquiries)

537373

Mailing/Billing Information:

1. Client Name: FOH Boston Area Office
2. Address 1: JFK Building - Room E-110
3. Address 2: Government Center
4. Address 3: Boston, MA 02203
5. Phone #: 240-429-7808 Fax #: _____

Submittal Information:

1. Job Name: Chet Holifield
2. Job Location: 24000 Avila Road, Laguna Niguel, CA 92667
3. Job #: 98350-05528
4. Contact Person: Joshua White
5. Submitted by: Joshua White

Reporting Info (Results provided as soon as technically feasible). If no TAT/Reporting Info is provided, AMA will assign defaults of 5-Day and email/fax to contacts on file.

Immediate Date Due: _____
 24 Hours Time Due: _____
 3 Day
 5 Day + _____
 Date Due: 11/23/10 Results Required By Noon
 Comments: _____
 Signature: _____
 P.O. #: _____
 @ phone #: (310) 818-8798
 Email: Josua.White@elglobal.com
 Fax: also email LYDIA_LICEDENOTT@ELGLOBAL.COM. Server_Pres@ELGLOBAL.COM
 Verbal: George.bearce@foh.hhs.gov

Asbestos Analysis

*PCM Air - Please Indicate Filter Type:
 NIOSH 7400 (QTY) _____
 Fiberglass (QTY) _____
 TEM Air* - Please Indicate Filter Type:
 AIHERA (QTY) _____
 NIOSH 7402 - 35 (QTY) MLM
 Other (specify _____) (QTY) _____

PLM Bulk
 EPA 600 - Visual Estimate (QTY) _____
 EPA Point Count (QTY) _____
 NY State Friable 198.1 (QTY) _____
 Grav. Reduction ELAP 198.6 (QTY) _____
 Other (specify _____) (QTY) _____

MISC

Vermiculite
 Asbestos Soil PLM (Qual) PLM (Quant) PLM/TEM (Qual) PLM/TEM (Quant)
 *It is recommended that blank samples be submitted with all air and surface samples

TEM Bulk

ELAP 198.4/Chaifield (QTY) _____
 NY State PLM/TEM (QTY) _____
 Residual Ash (QTY) _____

TEM Dust*

Qual. (prs/abs) Vacuum/Dust (QTY) _____
 Quan. (s/area) Vacuum D5755-95 (QTY) _____
 Quan. (s/area) Dust D6480-99 (QTY) _____

TEM Water

Qual. (prs/abs) (QTY) _____
 ELAP 198.2/EPA 100.2 (QTY) _____
 EPA 100.1 (QTY) _____

ALL samples received in good condition unless otherwise noted.
 (TEM Water samples _____ °C)

If field data sheets are submitted, there is no need to complete bottom section.

CLIENT ID #	SAMPLE LOCATION/ID	DATE/TIME	VOL (L)/Wipe Area	ANALYSIS				MATRIX	LABORATORY STAFF ONLY	CLIENT CONTACT
				TEM	PLM	LEAD	AIR			
										Date/Time: _____ Contact: <u>610</u> By: <u>MLM</u>
										<u>AIHERA Needed - Not NIOSH</u> <u>7402. SEE EMAIL.</u>
										Date/Time: _____ Contact: _____ By: <u>MLM</u>
										<u>number of numerous discrepencies</u> <u>on hold until resolved</u>
										Date/Time: _____ Contact: _____ By: <u>MLM</u>
										<u>discrepancies resolved</u> <u>TAT starts today</u>

LABORATORY STAFF ONLY: (CUSTODY)

1. Date/Time RCVD: 11/16/10 @ 10:30 Via: Fedex By (Print): MLM Sign: _____

2. Date/Time Analyzed: _____ / _____ / _____ @ _____ By (Print): _____ Sign: _____

3. Results Reported To: _____ Via: _____ / _____ / _____ Date: _____ / _____ / _____ Time: _____

4. Comments: _____

Air Sampling Field Data Sheet

Date Collected: November 9, 2016
 Contact Person: Joshua White
 Job Number: 98350-05528
 S 190885 P 193661

Job Name: Chet Hollifield
 Job Location: 24000 Avila Road
 Address: 24000 Avila Road
Laguna Niguel, CA 92677

Company: Federal Occupational Health
 Phone Number: _____
 Collected By: Joshua White
 COC Number: _____

Sample Number	Pump #	Floor #	Sample Location	Time		Flow Rate (LPM)			Volume (L)	
				Start	Stop	Total (minutes)	Initial	Final		Average
1-08		1	1RS 1670 Old	0743	0950	126	9.988	9.988	9.988	1,258.488
1-24		1	1RS 1670 New	0749	0954	125	9.978	9.978	9.978	1247.25
2-35		2	Suite 2509	0816	1018	122	9.988	9.988	9.988	1,218.536
2-36		2	1RS Training RM	0807	1009	122	9.969	9.969	9.969	1,216.218
2-37		2	1RS Training RM.	0810	1011	121	9.964	9.964	9.964	1,205.644
3-48		3	3153	0829	1030	121	10.000	10.000	10.000	1,210.000
3-49		3	3156A	0836	1038	122	9.982	9.982	9.982	1,217.804
3-50		3	3210	0848	1050	122	9.994	9.994	9.994	1,219.268



Air Sampling Field Data Sheet

Date Collected: November 9, 2016
 Contact Person: Joshua White
 Job Number: 98350-05528
 S 190885 P 193661

Job Name: Chet Hollifield
 Job Location: 24000 Avila Road
 Address: 24000 Avila Road
Laguna Niguel, CA 92677

Page 2 of 5
 Company: Federal Occupational Health
 Phone Number: _____
 Collected By: Joshua White
 COC Number: _____

Sample Number	Pump #	Floor #	Sample Location	Time			Flow Rate (LPM)			Volume (L)
				Start	Stop	Total (minutes)	Initial	Final	Average	
3-52		3	3501	0900	1102	122	9.992	9.992	9.992	1,219.024
3-55		3	3415	0853	1055	122	9.994	9.994	9.994	1,219.268
3-58		3	3314	0909	1115	126	9.932	9.932	9.932	1,251.432
4-60		4	4404	0918	1120	122	9.972	9.972	9.972	1,216.584
1-01		1	ICE - ERO MAT RM	1126	151	145	9.988	9.988	9.988	1,448.26
1-10		1	CBP 1640 D	1052	122	150	9.978	9.978	9.978	1,496.7
1-12		1	DCMA 1630	1109	137	148	9.988	9.988	9.988	1,478.224
1-13		1	A.H.U. 1-5	1153	156	123	9.969	9.969	9.969	1,226.187

Please Return Samples To:
 AMA Analytical Services, Inc., 4475 Forbes Blvd., Lanham, MD 20706, (800) 346-0961/(301) 459-2640 Fax, www.amalab.com, info@amalab.com



Air Sampling Field Data Sheet

Page 3 of 5
 Company: Federal Occupational Health

Job Name: Chet Hollifield
 Job Location: 24000 Avila Road
 Address: 24000 Avila Road
Laguna Niguel, CA 92677

Date Collected: November 9, 2016
 Contact Person: Joshua White
 Job Number: 98350-05528
S 190885 P 193661

Phone Number: _____
 Collected By: Joshua White
 COC Number: _____

Sample Number	Pump #	Floor #	Sample Location	Time			Flow Rate (LPM)			Volume (L)
				Start	Stop	Total (minutes)	Initial	Final	Average	
1-20		1	I.C.E. - ERO. 1555	1116	143	147	9.964	9.964	9.964	1464.708
1-21		1	I.C.E. - ERO 1555	1121	147	146	10.000	10.000	10.000	1460.000
1-26		1	child care	1148	159	131	9.982	9.982	9.982	1307.642
3-57		3	Kids Camp	1151	202	131	9.994	9.994	9.994	1309.214
5-65		5	CBP - 5020	1139	235	176	9.992	9.992	9.992	1758.592
U-70		U.	under floor corridor	1157	220	143	9.994	9.994	9.994	1429.142
1-02		1	Vacant	1205	226	141	9.932	9.932	9.932	1400.412
4-62		4	Suite 4100	1205	210	125	9.972	9.972	9.972	1246.50

Please Return Samples To:
 AMA Analytical Services, Inc., 4475 Forbes Blvd., Lanham, MD 20706, (800) 346-0961/(301) 459-2640 Fax, www.ama-lab.com, info@ama-lab.com



Air Sampling Field Data Sheet

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 Contact Person: Joshua White
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 S 190885 P 193661

Job Name: Chet Holifield
 Job Location: 24000 Avila Road
 Address: 24000 Avila Road
Laguna Niguel, CA 92677

Company: Federal Occupational Health
 Phone Number: _____
 Collected By: Joshua White
 COC Number: _____

Sample Number	Pump #	Floor #	Sample Location	Time			Flow Rate (LPM)			Volume (L)
				Start	Stop	Total (minutes)	Initial	Final	Average	
1-06		1	Common	254	455	121	9.999	9.999	9.999	1,209.879
1-11		1	CBP 1640B	129	334	125	9.987	9.987	9.987	1,248.375
1-19		1	Common	329	530	121	9.988	9.988	9.988	1,208.548
1-23		1	Common	302	502	120	9.994	9.994	9.994	1,199.28
1-25		1	AHU. 1.7	310	515	125	10.000	10.000	10.000	1,250.00
3-51		3	AHU. 3.3	320	521	121	10.000	10.000	10.000	1,210.00
2-53		2	Cafe	322	524	121	9.998	9.998	9.998	1,209.758
3-56		3	Vacant 3251	247	447	120	9.988	9.988	9.988	1,198.56

Please Return Samples To:
 AMA Analytical Services, Inc., 4475 Forbes Blvd., Lanham, MD 20706, (800) 346-0961/(301) 459-2640 Fax, www.amalab.com, info@amalab.com



Air Sampling Field Data Sheet

Date Collected: November 9, 2016
 Contact Person: Joshua White
 Job Number: 98350-05528
 S 190885 P 193661

Job Name: Chet Hollifield
 Job Location: 24000 Avila Road
 Address: 24000 Avila Road
Laguna Niguel, CA 92677

Company: Federal Occupational Health
 Phone Number: _____
 Collected By: Joshua White
 COC Number: _____

Sample Number	Pump #	Floor #	Sample Location	Time			Flow Rate (LPM)			Volume (L)
				Start	Stop	Total (minutes)	Initial	Final	Average	
7-68		7	Penthouse 7.1	315	518	123	9.988	9.988	9.988	1,228.524
7-69		7	Penthouse 7.2	315	520	125	9.998	9.998	9.998	1,249.75
1-14		1	11610	306	506	120	10.000	10.000	10.000	1,200.000



Client: FOII Boston Area Office/George Bearer **Job Name:** Chet Holifield **Chain Of Custody:** 537372
Address: JFK Building - Room E-110, Government Center **Job Location:** 24000 Avila Road, Laguna Niguel, CA 92677 **Date Analyzed:** 11/28/2016
 Boston, Massachusetts 02203 **Job Number:** 98350-05528 S190885 P193661 **Person Submitting:** Joshua White
Attention: Joshua White **P.O. Number:** Not Provided

Summary of Transmission Electron Microscopy

Filter Type: MCE Filter Size: 0.45 um Filter Size: 25 mm (385 mm²)

AMA Sample Number	Client Sample Number	Volume (L)	Area Analyzed (mm ²)	Analytical Sensitivity s/cc	Asbestos Type Amount	# Non Asbestos Structures	Concentration s/mm ²	Concentration s/cc	Sample Type	Comments
17021181	1-03	1369.726	0.0665	0.0042	0	0	<15	<0.0042	N/P	
17021182	1-04	1360	0.0665	0.0043	0	0	<15	<0.0043	N/P	
17021183	1-05	1358.232	0.0665	0.0043	0	0	<15	<0.0043	N/P	
17021184	1-07	1317.624	0.0665	0.0044	0	0	<15	<0.0044	N/P	
17021185	1-16	1239.256	0.0665	0.0047	0	0	<15	<0.0047	N/P	
17021186	1-17	1320	0.0665	0.0044	0	0	<15	<0.0044	N/P	
17021187	1-18	1348.38	0.0665	0.0043	0	0	<15	<0.0043	N/P	
17021188	1-22	1199.52	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17021189	2-31	1347.03	0.0665	0.0043	0	0	<15	<0.0043	N/P	
17021190	2-32	1268.222	0.0665	0.0046	0	0	<15	<0.0046	N/P	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NY ELAP, NVLAP, NIST, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

Client:	FOH Boston Area Office/George Bearer	Job Name:	Chet Holifield	Chain Of Custody:	537372
Address:	JFK Building - Room E-110, Government Center Boston, Massachusetts 02203	Job Location:	24000 Avila Road, Laguna Niguel, CA 92677	Date Analyzed:	11/28/2016
Attention:	Joshua White	Job Number:	98350-05528 S190885 P193661	Person Submitting:	Joshua White
		P.O. Number:	Not Provided		

Summary of Transmission Electron Microscopy

AMA Sample Number	Client Sample Number	Volume (L)	Area Analyzed (mm ²)	Analytical Sensitivity s/cc	Asbestos Type Amount	# Non Asbestos Structures	Concentration s/mm ²	Concentration s/cc	Sample Type	Comments
17021191	2-33	1250	0.0665	0.0046	0	0	<15	<0.0046	N/P	
17021192	2-34	1229.508	0.0665	0.0047	0	0	<15	<0.0047	N/P	
17021193	2-38	1190.76	0.0665	0.0049	0	0	<15	<0.0049	N/P	
17021194	2-39	1230	0.0665	0.0047	0	0	<15	<0.0047	N/P	
17021195	2-40	1219.268	0.0665	0.0047	0	0	<15	<0.0047	N/P	
17021196	2-41	1207.822	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17021197	2-42	1209.758	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17021198	2-43	1218.414	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17021199	2-44	1200	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17021200	2-29	1239.256	0.0665	0.0047	0	0	<15	<0.0047	N/P	

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CERTIFICATE OF ANALYSIS

Client: FOH Boston Area Office/George Beaner **Job Name:** Chet Hollifield
Address: JFK Building - Room E-110, Government Center **Job Location:** 24000 Avila Road, Laguna Niguel, CA 92677
 Boston, Massachusetts 02203 **Job Number:** 98350-05528 S190885 P193661
Attention: Joshua White **P.O. Number:** Not Provided
Chain Of Custody: 537372
Date Analyzed: 11/28/2016
Person Submitting: Joshua White

Summary of Transmission Electron Microscopy

AMA Sample Number	Client Sample Number	Volume (L)	Area Analyzed (mm ²)	Analytical Sensitivity s/cc	Asbestos Type Amount	# Non Asbestos Structures	Concentration s/mm ²	Concentration s/cc	Sample Type	Comments
17021201	2-27	1208.548	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17021202	2-28	1199.52	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17021203	3-45	1650	0.0665	0.0035	0	0	<15	<0.0035	N/P	
17021204	1-09	1267.714	0.0665	0.0046	0	0	<15	<0.0046	N/P	
17021205	3-46	1490	0.0665	0.0039	0	0	<15	<0.0039	N/P	
17021206	3-47	1498.05	0.0665	0.0039	0	0	<15	<0.0039	N/P	
17021207	3-54	1489.702	0.0665	0.0039	0	0	<15	<0.0039	N/P	
17021208	3-59	1209.032	0.0665	0.0048	0	0	<15	<0.0048	N/P	
17021209	4-61	1519.088	0.0665	0.0038	0	0	<15	<0.0038	N/P	
17021210	5-64	1230	0.0665	0.0047	0	0	<15	<0.0047	N/P	

Filter Type: MCE Pore Size: 0.45 um Filter Size: 25 mm (385 mm²)

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Client: FOH Boston Area Office/George Bearer **Job Name:** Chet Holifield **Chain Of Custody:** 537372
Address: JFK Building - Room E-110, Government Center **Job Location:** 24000 Avila Road, Laguna Niguel, CA 92677 **Date Analyzed:** 11/28/2016
 Boston, Massachusetts 02203 **Job Number:** 98350-05528 S190885 P193661 **Person Submitting:** Joshua White
Attention: Joshua White **P.O. Number:** Not Provided

Summary of Transmission Electron Microscopy

Filter Type: MCE Pore Size: 0.45 um Filter Size: 25 mm (385 mm²)

AMA Sample Number	Client Sample Number	Volume (L)	Area Analyzed (mm ²)	Analytical Sensitivity s/cc	Asbestos Type Amount	# Non Asbestos Structures	Concentration s/mm ²	Concentration s/cc	Sample Type	Comments
17021211	6-66	1479.852	0.0665	0.0039	0	0	<15	<0.0039	N/P	
17021212	6-67	1399.44	0.0665	0.0041	0	0	<15	<0.0041	N/P	
17021213	1-15	1448.758	0.0665	0.0040	0	0	<15	<0.0040	N/P	

Analytical procedures used meet or exceed the AHERA "Interim Transmission Electron Microscopy Analytical Methods" protocol described in Appendix A to Subpart E of 40 CFR Part 763.

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

Technical Director: Andreas Saldivar Analyst(s): Izabelle Mendez



Izabelle Mendez

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 Focused on Results www.amalab.com
 AIHA (#100470) NVLAP (#101143-0) NY ELAP (10920)
 4475 Forbes Blvd. • Lanham, MD 20706
 (301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643

CHAIN OF CUSTODY

(Please Refer To This Number For Inquiries)

537372

Mailing/Billing Information:

1. Client Name: FOH Boston Area Office
2. Address 1: JFK Building - Room E-110
3. Address 2: Government Center
4. Address 3: Boston, MA 02203
5. Phone #: 240-429-7808 Fax #: _____

Submittal Information:

1. Job Name: Chet Hollifield
2. Job Location: 24000 Avila Road, Laguna Niguel, CA 92677
3. Job #: 98350-05528 P.O. #: _____
4. Contact Person: Joshua White @ phone # 949-481-8679
5. Submitted by: Joshua White Signature: _____

Reporting Info (Results provided as soon as technically feasible). If no TAT/Reporting Info is provided, AMA will assign defaults of 5-Day and email/fax to contacts on file.

AFTER HOURS (must be pre-scheduled)

- Immediate Date Due: _____
 24 Hours Time Due: _____
 2 Day _____

NORMAL BUSINESS HOURS

- 3 Day _____
 5 Day + _____
 Date Due: 11/16/10 Results Required By Noon

REPORT TO:

- Include COC/Field Data Sheets with Report
 Email: Joshua.white@efiglobal.com
 Fax: also email LYNDY_MCDERMOTT@EFIGLOBAL.COM, Steven_Perez@EFIGLOBAL.COM
 Verbal: George.Beauregard@foh-hhs.gov

Asbestos Analysis

- *TCM/Air - Please Indicate Filter Type:
 NIOSH 7400 _____ (QTY)
 Fiberglass _____ (QTY)
 TEM/Air* - Please Indicate Filter Type:
 AHERA 33-33 (QTY) NEM
 NIOSH-7402 _____ (QTY) NEM
 Other (specify _____) _____ (QTY)

PLM/Bulk

- EPA 600 - Visual Estimate _____ (QTY)
 EPA Point Count _____ (QTY)
 NY State Friable 198.1 _____ (QTY)
 Grav. Reduction ELAP 198.6 _____ (QTY)
 Other (specify _____) _____ (QTY)

MISC

- Vermiculite
 Asbestos Soil PLM _____ (Qual) PLM/TEM _____ (Qual) PLM/TEM _____ (Qual)
 *It is recommended that blank samples be submitted with all air and surface samples

TEM/Bulk

- ELAP 198.4/Chalfield _____ (QTY)
 NY State PLM/TEM _____ (QTY)
 Residual Ash _____ (QTY)
 TEM/Dust*
 Qual. (pres/abs) Vacuum/Dust _____ (QTY)
 Quan. (s/area) Vacuum D5755-95 _____ (QTY)
 Quan. (s/area) Dust D6480-99 _____ (QTY)

TEM/Water

- Qual. (pres/abs) _____ (QTY)
 ELAP 198.2/EPA 100.2 _____ (QTY)
 EPA 100.1 _____ (QTY)

All samples received in good condition unless otherwise noted.
 (TEM Water samples _____ °C)

Metals Analysis

- Pb Paint Chip _____ (QTY)
 *Pb Dust/Wipe (wipe type _____) _____ (QTY)
 *Pb Air _____ (QTY)
 Pb Soil/Solid _____ (QTY)
 Pb TCLP _____ (QTY)
 Drinking Water Pb _____ (QTY) Cu _____ (QTY) As _____ (QTY)
 Waste Water Pb _____ (QTY) Cu _____ (QTY) As _____ (QTY)
 Pb Furnace (Media _____) _____ (QTY)

Fungal Analysis

- Collection Apparatus for Spore Traps/Air Samples:
 Collection Media
 *Spore-Trap _____ (QTY) Surface Vacuum Dust _____ (QTY)
 *Surface Swab _____ (QTY) Culturable ID Genus (Media _____) _____ (QTY)
 *Surface Tape _____ (QTY) Culturable ID Species (Media _____) _____ (QTY)
 Other (Specify _____) _____ (QTY)

LABORATORY STAFF ONLY: (CUSTODY)

CLIENT ID #	SAMPLE LOCATION/ID	DATE/TIME	VOL (L) / Wipe Area	ANALYSIS							LABORATORY STAFF ONLY									
				PLM	TEM	PC	LEAD	MOLD	AIR	BULK		DUST	OTHER	WATER	SWAB	TAPE	SPORE TRAP			
	See Attached Field Data Sheets																			
	Dup #s = 2-43 + 3-54																			
	Several Samples without #s on them																			
	Missing: 2-32, 2-33, 2-34, 2-38																			

CLIENT CONTACT (LABORATORY STAFF ONLY)
 Date/Time: 11/16/10 Contact: George Beauregard
 Date/Time: 11/16/10 Contact: Joshua White
 Date/Time: _____ Contact: _____
 Date/Time: _____ Contact: _____

LABORATORY: _____ By (Print): WMM
 STAFF ONLY: _____ By (Print): _____
 (CUSTODY) _____ By (Print): _____
 Date: _____ / _____ / _____
 Time: _____ / _____ / _____
 Initials: _____

Air Sampling Field Data Sheet

Page 1 of 5
Company: Federal Occupational Health

Job Name: Chet Hollifield
Job Location: 24000 Avila Road
Address: 24000 Avila Road
Laguna Niguel, CA 92677

Date Collected: November 10, 2016
Contact Person: Joshua White
Job Number: 98350-05528
S 190885 P 193661

Phone Number:
Collected By: Joshua White
COC Number:

Sample Number	Pump #	Floor #	Sample Location	Time			Flow Rate (LPM)			Volume (L)
				Start	Stop	Total (minutes)	Initial	Final	Average	
1-03		1	CIS 1000	750	1007	137	9.998	9.998	9.998	1,369.724
1-04		1	CIS 1590	754	1010	136	10.000	10.000	10.000	1,340.000
1-05		1	CIS 1590	757	1013	136	9.987	9.987	9.987	1,358.232
1-07		1	CIS 1700	805	1017	132	9.982	9.982	9.982	1,317.624
1-16		1	CIS Loading Doc	820	1024	124	9.994	9.994	9.994	1,239.256
1-17		1	CIS Loading Doc	815	1027	132	10.000	10.000	10.000	1,320.000
1-18		1	CIS Warehouse	817	1032	135	9.988	9.988	9.988	1,349.38
1-22		1	CIS File Room	845	1045	120	9.996	9.996	9.996	1,199.52

OK



Please Return Samples To:
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Air Sampling Field Data Sheet

Date Collected: November 10, 2016
 Contact Person: Joshua White
 Job Number: 98350-05528
 S 190885 P 193661

Job Name: Chet Hollifield
 Job Location: 24000 Avila Road
 Address: 24000 Avila Road
Laguna Niguel, CA 92677

Company: Federal Occupational Health
 Phone Number: _____
 Collected By: Joshua White
 COC Number: _____

Sample Number	Pump #	Floor #	Sample Location	Time			Flow Rate (LPM)			Volume (L)
				Start	Stop	Total (minutes)	Initial	Final	Average	
2-31		2	CIS 2109	0751	1006	135	9.978	9.978	9.978	1,347.03
2-32		2	CIS 23308 W.S. #2	0803	1010	127	9.986	9.986	9.986	1,268.222
2-33		2	CIS 23308 W.S. #1	0808	1013	125	10.000	10.000	10.000	1,250.000
2-34		2	CIS 23308 W.S. #4	0813	1016	123	9.996	9.996	9.996	1,229.508
2-38		2	CIS 2301 W.S. #3	0819	1019	120	9.923	9.923	9.923	1,190.76
2-39		2	CIS 2402 W.S. #1	0825	1028	123	10.000	10.000	10.000	1,230.000
2-40		2	CIS 2200 W.S. #1	0834	0936	122	9.994	9.994	9.994	1,219.268
2-41		2	CIS 2200 W.S. #3	0841	1042	121	9.982	9.982	9.982	1,207.822

Please Return Samples To:
 AMA Analytical Services, Inc., 4475 Forbes Blvd., Lanham, MD 20706, (800) 346-0961/(301) 459-2640 Fax, www.amaalab.com, info@amaalab.com



Air Sampling Field Data Sheet

Date Collected: November 10, 2016
 Contact Person: Joshua White
 Job Number: 98350-05528
 S 190885 P 193661

Job Name: Chet Hollifield
 Job Location: 24000 Avila Road
 Address: 24000 Avila Road
Laguna Niguel, CA 92677

Page 3 of 5
 Company: Federal Occupational Health
 Phone Number: _____
 Collected By: Joshua White
 COC Number: _____

Sample Number	Pump #	Floor #	Sample Location	Time			Flow Rate (LPM)			Volume (L)
				Start	Stop	Total (minutes)	Initial	Final	Average	
2-42		2	CIS 2300 w.s. #4	1044	1045	121	9.998	9.998	9.998	1,209.758
2-43		2	GYM CIS	1114	1116	122	9.987	9.987	9.987	1,218.414
2-44		2	24111	1123	123	120	10.000	10.000	10.000	1,200.000
2-29		2	2412	1106	110	124	9.994	9.994	9.994	1,239.256
2-27		2	Mail Room	1129	130	121	9.988	9.988	9.988	1,208.598
2-28		2	22310	1132	132	120	9.996	9.996	9.996	1,199.52
3-45		3	RM 3104	1141	226	165	10.000	10.000	10.000	1,650.000
1-09		1	OPM	1135	142	127	9.782	9.982	9.982	1,267.714

AMA Analytical Services, Inc., 4475 Forbes Blvd., Lanham, MD 20706, (800) 346-0961/(301) 459-2640 Fax, www.amalab.com, info@amalab.com



Air Sampling Field Data Sheet

Date Collected: November 10, 2016
 Contact Person: Joshua White
 Job Number: 98350-05528
 S 190885 P 193661

Job Name: Chet Hollifield
 Job Location: 24000 Avila Road
 Address: 24000 Avila Road
Laguna Niguel, CA 92677

Company: Federal Occupational Health
 Phone Number: _____
 Collected By: Joshua White
 COC Number: _____

Sample Number	Pump #	Floor #	Sample Location	Time			Flow Rate (LPM)			Volume (L)
				Start	Stop	Total (minutes)	Initial	Final	Average	
3-46		3	CIS Training Rm 3101	1107	136	149	10.000	10.000	10.000	1490.000
3-47		3	CIS 310D	1105	135	150	9.987	9.987	9.987	1498.05
3-54		3	CIS 3450	1112	141	149	9.998	9.998	9.998	1489.702
3-59			ICE 3106	1155	156	121	9.992	9.992	9.992	1209.032
4-61			CIS 4105	1057	129	152	9.994	9.994	9.994	1519.088
5-64			ICE 5160	1149	152	123	10.000	10.000	10.000	1230.000
6-66			CIS 6160	1118	146	148	9.999	9.999	9.999	1479.850
6-67			ICE 6020	1127	147	140	9.996	9.996	9.996	1399.44

Full bottle
 Cassette
 Collected 3-5406



Air Sampling Field Data Sheet

Page 5 of 5
 Company: Federal Occupational Health

Job Name: Chet Hollifield
 Job Location: 24000 Avila Road
 Address: 24000 Avila Road
Laguna Niguel, CA 92677

Date Collected: November 10, 2016
 Contact Person: Joshua White
 Job Number: 98350-05528
S 190885 P 193661

Phone Number: _____
 Collected By: Joshua White
 COC Number: _____

Sample Number	Pump #	Floor #	Sample Location	Time			Flow Rate (LPM)			Volume (L)
				Start	Stop	Total (minutes)	Initial	Final	Average	
1-15		6	6 th floor conference Rm.	1123	149	146	9.923	9.923	9.923	1,448.758