



Hazard Management Services, Inc.

207 McHenry Ave. • Modesto, CA 95354
(209) 551-2000 • www.hazmanage.com

August 15, 2018

Judy Lanchester, Director
Facilities Planning and Operations
Yosemite Community College District
2201 Blue Gum Avenue
Modesto, CA 95358

Dear Ms. Lanchester:

This letter contains the results of an “life style aggressive “ air sampling exercise performed by Hazard Management Services, Inc. (HMS, Inc.) at Modesto Junior College’s East Campus, located at 435 College Avenue in Modesto, California. This exercise was conducted to determine potential asbestos and dust exposure levels throughout five buildings impacted by the recent CO² tank explosion in the Pool Area of the campus. The sampling was conducted after previous sampling data revealed unexpected levels of asbestos fibers in the Men’s PE Building as there were no asbestos-containing materials damaged by the explosion.

Buildings in which air sampling occurred were Women’s P.E., Men’s P.E., Gymnasium, P.E. Offices, and the Library. This sampling exercise was performed by HMS, Inc. personnel lead by Michael Sharp and Chris Chipponeri on August 2, 2018. Mr. Sharp and Mr. Chipponeri are Cal/OSHA Certified Asbestos Consultants and EPA-accredited Contractor – Supervisors. See attached HMS, Inc. personnel certifications.

Personal Sampling Procedures - Asbestos

During this sampling exercise, samples were collected in a “lifestyle-aggressive” fashion. This method of collection involved HMS, Inc. personnel moving through the buildings performing various tasks normally conducted to by YCCD personnel. HMS, Inc. also simulated building-specific activities in each building (e.g. reading books and magazines in Library, basketball game in gym). The tasks performed are listed below, along with the results of sample analysis.

Personal air sampling pumps were hooked to each simulators waist, and a cowled cassette containing a 25mm, 0.8-micron pore size, MCE filter was placed in each worker’s breathing zone. All samples were calibrated to draw air at a rate of 2.0 liters per minute at the start of the sampling exercise. At the conclusion of sampling, the personal pumps were re-calibrated to determine flow rate at the conclusion of sampling to determine the average flow rate during the sampling exercise. HMS, Inc. collected samples for comparison to both the Cal/OSHA Personal Exposure Limit and Short-Term Exposure Limit for asbestos during this sampling exercise. Short-Term Exposure Limit samples were collected for 30 minutes and samples collected for comparison to the Permissible Exposure Limit were collected for approximately 3.5 hours. Two blank samples were included with the personal samples as required by Cal/OSHA to generate a negative exposure assessment.



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The sampling cassettes were labeled, packaged and logged onto a chain of custody form before being delivered by HMS, Inc. personnel to Forensic Analytical Laboratories, Inc. (FALI) in Hayward, California for analysis by phase contrast microscopy (PCM) using NIOSH method 7400A. FALI is accredited by the American Industrial Hygiene Association's Industrial Hygiene Laboratory Accreditation Program for the analysis of air samples by PCM. See attached laboratory accreditation.

Results – Women's P.E.

The results of the air sampling are presented in the table below, along with the Cal/OSHA Permissible Exposure Limit. Activities simulated are as listed:

Empty trash	Move furniture	Building inspection
Painting locksmith	Walk outside	Weight lifting
Change lights	Mop floor	

Sample TWA	Result	Cal/OSHA Permissible Exposure Limit
M18143-NA-01	<0.007 f fibers/cubic centimeter (8-hour TWA = <0.003 f/cc)	0.1 fibers/cubic centimeter
Sample STEL	Result	Cal/OSHA Permissible Exposure Limit
M18143-JS-05	< 0.045 fibers/cubic centimeter	1.0 fibers/cubic centimeter

Results – Men's P.E.

The results of the air sampling are presented in the table below, along with the Cal/OSHA Permissible Exposure Limit. Activities simulated are as listed:

Empty trash	Change lights	Building inspections walk
Painting	Move furniture	Walk outside
Locksmith	Mop floors	Folding laundry

Sample TWA	Result	Cal/OSHA Permissible Exposure Limit
M18143-MS-01	<0.018 f fibers/cubic centimeter (8 hr TWA = <0.0057 f/cc)	0.1 fibers/cubic centimeter
M18143-MS-02	<0.011 f fibers/cubic centimeter (8 hr TWA = <0.0057 f/cc)	0.1 fibers/cubic centimeter
Sample STEL	Result	Cal/OSHA Permissible Exposure Limit
M18143-JS-03	< 0.045 fibers/cubic centimeter	1.0 fibers/cubic centimeter



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Results – Library

The results of the air sampling are presented in the table below, along with the Cal/OSHA Permissible Exposure Limit. Activities simulated are as listed:

Walk outside		
Empty trash	Move furniture	Check in/out books
Painting locksmith	Vacuum	
Change lights	Building inspections	

Sample TWA	Result	Cal/OSHA Permissible Exposure Limit
M18143-CC-01	<0.007 f fibers/cubic centimeter (8 hr TWA = <0.003 f/cc)	0.1 fibers/cubic centimeter
Sample STEL	Result	Cal/OSHA Permissible Exposure Limit
M18143-JS-02	< 0.045 fibers/cubic centimeter	1.0 fibers/cubic centimeter

Results – P.E. Offices

The results of the air sampling are presented in the table below, along with the Cal/OSHA Permissible Exposure Limit. Activities simulated are as listed:

Empty trash	change lights	building inspections
painting	move furniture	walk outside
locksmith	clean floors	clerical

Sample TWA	Result	Cal/OSHA Permissible Exposure Limit
M18143-TL-01	<0.009 f fibers/cubic centimeter (8 hr TWA = <0.0054 f/cc)	0.1 fibers/cubic centimeter
Sample STEL	Result	Cal/OSHA Permissible Exposure Limit
M18143-JS-04	< 0.045 fibers/cubic centimeter	1.0 fibers/cubic centimeter



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Results – Gym

The results of the air sampling are presented in the table below, along with the Cal/OSHA Permissible Exposure Limit. Activities simulated are as listed:

Empty trash	Move furniture	Wrestling
Painting	Mop floors	Basketball game
Locksmith	Bleacher inspection	
Change lights	Walk outside	

Sample TWA	Result	Cal/OSHA Permissible Exposure Limit
M18143-TF-01	<0.006 f fibers/cubic centimeter (8 hr TWA = <0.003 f/cc)	0.1 fibers/cubic centimeter
Sample STEL	Result	Cal/OSHA Permissible Exposure Limit
M18143-JS-01	< 0.045 fibers/cubic centimeter	1.0 fibers/cubic centimeter

Results – Exterior

The results of the air sampling are presented in the table below, along with the Cal/OSHA Permissible Exposure Limit. Activities simulated consisted solely of walking the exterior of the site.

Sample TWA	Result	Cal/OSHA Permissible Exposure Limit
M18143-KW-01	<0.007 f fibers/cubic centimeter (8 hr TWA = <0.003 f/cc)	0.1 fibers/cubic centimeter

Total Dust Sampling

While performing asbestos personal monitoring, a total dust sample was collected on HMS, Inc. personnel. This sample was collected from personnel that spent time within each building and outside of the building performing various tasks. The sample was collected using a personal sampling pump connected to a 37-mm mixed cellulose ester filter placed in the worker's breathing zone.

The sample was given a unique number, identified on a chain of custody, packaged, and delivered by HMS, Inc. personnel to FALI for gravimetric analysis. FALI is accredited by the American Industrial Hygiene Association for the analysis of air samples by this method.



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Total Dust Results

The results of the total dust air sampling are presented in the table below, along with the Cal/OSHA Permissible Exposure Limit.

Sample TWA	Result	Cal/OSHA Permissible Exposure Limit
M18143-JS-07	<0.2 mg/m ³ (8 hr TWA = 0.08 mg/m ³)	10 mg/m ³

Findings

The results of the air sampling show that personnel performing similar activities, in the same conditions, will not be exposed above the Cal/OSHA Permissible Exposure Limit or Excursion Limit for asbestos or total dust within and outside of these buildings. Workers would not be required to wear suits or disposable coveralls when cleaning dust and debris from Women's P.E., Men's P.E., Gym, Library, and the P.E. Offices.

During the sampling, HMS, Inc. personnel did find debris and built-up dust to be present in various spaces of each building. The installation of filters over HVAC registers was suggested by HMS, Inc. to capture any soot or dust emitting from registers to limit the continuing release of this particulate into occupied spaces. The buildings shall be cleaned by the restoration contractor before being turned over to YCCD custodial staff for further cleaning. The filters should be removed once the HVAC ducts have expelled all of the soot and dust shaken loose from their interior walls by the explosion.

Thank you for the opportunity to perform this sampling exercise. If you have any questions, or need further assistance, please contact me at (209) 551-2000 (office) or (209) 484-4648 (cell) or via e-mail at cchipponeri@hazmanage.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Chris Chipponeri'.

Chris Chipponeri
Chief Operating Officer
Cal/OSHA CAC 10-4633

Enclosures:
HMS, Inc. Personnel Certifications
FALI Laboratory Accreditation
Chains of Custody and Result Report
Picture Log



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Forensic Analytical Laboratories, Inc.

3777 Depot Road, Suite 409

Hayward, CA 94545-2761

Mr. Steven Takahashi

Phone: 310-294-4365 Fax: 310-764-1136

Email: stakahashi@falaboratories.com

<http://www.falaboratories.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101459-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

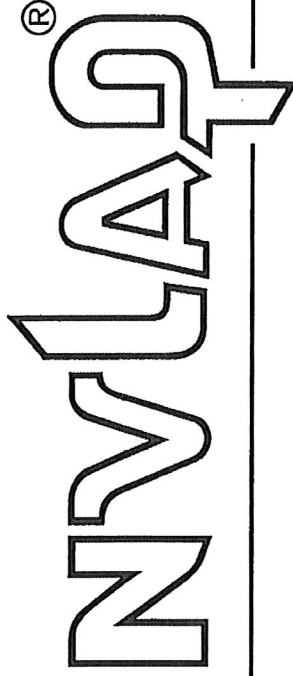
Airborne Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

A handwritten signature in black ink, reading "Dana S. Laman".

For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101459-0

Forensic Analytical Laboratories, Inc.
Hayward, CA

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2018-07-01 through 2019-06-30

Effective Dates

A handwritten signature in black ink, which appears to read "Peter S. Lander".

For the National Voluntary Laboratory Accreditation Program



Forensic Analytical LABORATORIES

Analysis Request Form (COC)

Client Name & Address: HMS, Inc		Client No.: 1146	PO / Job#: M18143		Date: 8-2-18
			Turn Around Time: <input checked="" type="checkbox"/> Same Day / <input type="checkbox"/> 1Day / <input type="checkbox"/> 2Day / <input type="checkbox"/> 3Day / <input type="checkbox"/> 4Day / <input type="checkbox"/> 5Day		
			<input checked="" type="checkbox"/> PCM: <input type="checkbox"/> NIOSH 7400A / <input type="checkbox"/> NIOSH 7400B <input type="checkbox"/> Rotometer		
			<input type="checkbox"/> PLM: <input type="checkbox"/> Standard / <input type="checkbox"/> Point Count 400 / 1000 / <input type="checkbox"/> CARB 435		
Contact: T. FAISON		Phone: 209 551 2000	<input type="checkbox"/> TEM Air: <input type="checkbox"/> AHERA / <input type="checkbox"/> Yamate2 / <input type="checkbox"/> NIOSH 7402		
E-mail: T.FAISON@HAZMANAGE.COM			<input type="checkbox"/> TEM Bulk: <input type="checkbox"/> Quantitative / <input type="checkbox"/> Qualitative / <input type="checkbox"/> Chatfield		
Site Name: M.J.C.			<input type="checkbox"/> TEM Water: <input type="checkbox"/> Potable / <input type="checkbox"/> Non-Potable / <input type="checkbox"/> Weight %		
Site Location: POOL AREA			<input type="checkbox"/> TEM Microvac: <input type="checkbox"/> Qual / <input type="checkbox"/> D5755(str/area) / <input type="checkbox"/> D5756(str/mass)		
			<input type="checkbox"/> IAQ Particle Identification (PLM LAB) <input type="checkbox"/> PLM Opaques/Soot		
			<input type="checkbox"/> Particle Identification (TEM LAB) <input type="checkbox"/> Special Project		
			<input type="checkbox"/> Metals Analysis Matrix: Method:		
			Analytes:		
Comments:					<input type="checkbox"/> Silica in Air <input type="checkbox"/> w/Gravimetry

Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg LPM	Total Time	
M18143-MS-01	8-2-18	MEN'S PE BLDG MIKE SHARP	A P C	20:31 21:50	2.0	76	152
M18143-MS02	8-2-18	MEN'S PE BLDG MIKE SHARP	A P C	21:51 24:00	1.9	129	2451
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				

Sampled By: M. Sharp Date/Time: 8-2-18		Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> US Mail <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Drop Off <input type="checkbox"/> Other:	
Relinquished By:		Relinquished By:	
Date / Time:		Date / Time:	
Received By:		Received By:	
Date / Time:		Date / Time:	
Condition Acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	

Forensic Analytical Laboratories may subcontract client samples to other FALL locations to meet client requests.

San Francisco Office: 3777 Depot Road, Suite 409, Hayward, CA 94545-2761 • Phone: 510/887-8828 • 800/827-3274

Los Angeles Office: 2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 • Phone: 310/763-2374 • 888/813-9417

Las Vegas Office: 6765 S. Eastern Avenue, Suite 3, Las Vegas, NV 89119 • Phone: 702/784-0040



Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Hazard Mgmt Svcs-Modesto/Plst Hill
T. Faison
P.O. Box 576848

Modesto, CA 95357-6848

Client ID: 1146
Report Number: A240587
Date Received: 08/03/18
Date Analyzed: 08/03/18
Date Printed: 08/03/18
First Reported: 08/03/18

Job ID/Site: M18143 - MJC, Pool Area

FALI Job ID: 1146
Total Samples Submitted: 2
Total Samples Analyzed: 2

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	Fibers/mm ²	LOD F/cc	Fibers/cc
M18143-MS-01	12062783	08/02/18	152.0	3.0	100	<7.0	0.018	< 0.018
M18143-MS-02	12062784	08/02/18	245.1	1.5	100	<7.0	0.011	< 0.011

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Intralaboratory Relative Standard Deviation (Sr) per 100 graticule fields: 5 to 20 fibers: 0.59; >20 to 50 fibers: 0.51; >50 fibers: 0.48

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested and results are based upon sample information provided by the client. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. FALI is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. Samples are not blank corrected unless otherwise noted. All samples were received in acceptable condition unless otherwise noted.



Forensic Analytical LABORATORIES

Analysis Request Form (COC)

Client Name & Address: HMS Inc		Client No.: 1146	PO / Job#: 8 M18143		Date: 8-2
Contact: TRAISON			Phone: 209-551-2000		
E-mail: TRAISON@hazmanage.com			Site Name: MJC		
Site Location: FILL AREA			Comments:		
Turn Around Time: Same Day / 1Day / 2Day / 3Day / 4Day / 5Day			<input checked="" type="checkbox"/> PCM: <input type="checkbox"/> NIOSH 7400A / <input type="checkbox"/> NIOSH 7400B <input type="checkbox"/> Rolometer <input type="checkbox"/> PLM: <input type="checkbox"/> Standard / <input type="checkbox"/> Point Count 400-1000 / <input type="checkbox"/> CARB 435 <input type="checkbox"/> TEM Air: <input type="checkbox"/> AHERA / <input type="checkbox"/> Yamate2 / <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> TEM Bulk: <input type="checkbox"/> Quantitative / <input type="checkbox"/> Qualitative / <input type="checkbox"/> Chatfield <input type="checkbox"/> TEM Water: <input type="checkbox"/> Potable / <input type="checkbox"/> Non-Potable / <input type="checkbox"/> Weight % <input type="checkbox"/> TEM Microvac: <input type="checkbox"/> Qual / <input type="checkbox"/> D5755(str/area) / <input type="checkbox"/> D5756(str/mass) <input type="checkbox"/> IAQ Particle Identification (PLM LAB) <input type="checkbox"/> PLM Opaques/Soot <input type="checkbox"/> Particle Identification (TEM LAB) <input type="checkbox"/> Special Project <input type="checkbox"/> Metals Analysis Matrix: Method:		
<input type="checkbox"/> Silica in Air <input type="checkbox"/> w/Gravimetry					

Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg LPM	Total Time	
M18143-CC-01	8-2	LIBRARY C. CHIPPONERI	IA (P) C	20:35 00:04	1.9	209	317.1
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				

Sampled By: C. CHIPPONERI	Date/Time: 8-2-18	Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> US Mail <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Drop Off <input type="checkbox"/> Other:
Relinquished By:	Relinquished By:	Relinquished By:
Date / Time:	Date / Time:	Date / Time:
Received By:	Received By:	Received By:
Date / Time:	Date / Time:	Date / Time:
Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No

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 Los Angeles Office: 2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 • Phone: 310/763-2374 • 888/813-9417
 Las Vegas Office: 6765 S. Eastern Avenue, Suite 3, Las Vegas, NV 89119 • Phone: 702/784-0040



Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Hazard Mgmt Svcs-Modesto/Plst Hill
Project Manager
P.O. Box 576848

Modesto, CA 95357-6848

Client ID: 1146
Report Number: A240593
Date Received: 08/03/18
Date Analyzed: 08/03/18
Date Printed: 08/03/18
First Reported: 08/03/18

Job ID/Site: M18143 - MJC, Pool Area

FALI Job ID: 1146
Total Samples Submitted: 1
Total Samples Analyzed: 1

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	Fibers/mm ²	LOD F/cc	Fibers/cc
M18143-CC-01	12062797	08/02/18	397.1	4.0	100	<7.0	0.007	< 0.007

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Intralaboratory Relative Standard Deviation (Sr) per 100 graticule fields: 5 to 20 fibers: 0.59; >20 to 50 fibers: 0.51; >50 fibers: 0.48

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Forensic Analytical LABORATORIES

Analysis Request Form (COC)

Client Name & Address: HMS Inc		Client No.: 1146		PO / Job#: M18143		Date: 8-2-18			
Contact: TFAISON				Phone: 207-551-2000					
E-mail: TFAISON@hazmanage.com				Turn Around Time: <input checked="" type="checkbox"/> Same Day / <input type="checkbox"/> 1Day / <input type="checkbox"/> 2Day / <input type="checkbox"/> 3Day / <input type="checkbox"/> 4Day / <input type="checkbox"/> 5Day					
Site Name: MJC				<input checked="" type="checkbox"/> PCM: <input type="checkbox"/> NIOSH 7400A / <input type="checkbox"/> NIOSH 7400B <input type="checkbox"/> Rotometer					
Site Location: POOL AREA				<input type="checkbox"/> PLM: <input type="checkbox"/> Standard / <input type="checkbox"/> Point Count 400 - 1000 / <input type="checkbox"/> CARB 435					
Comments:				<input type="checkbox"/> TEM Air: <input type="checkbox"/> AHERA / <input type="checkbox"/> Yamato2 / <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> TEM Bulk: <input type="checkbox"/> Quantitative / <input type="checkbox"/> Qualitative / <input type="checkbox"/> Chatfield <input type="checkbox"/> TEM Water: <input type="checkbox"/> Potable / <input type="checkbox"/> Non-Potable / <input type="checkbox"/> Weight % <input type="checkbox"/> TEM Microvac: <input type="checkbox"/> Qual / <input type="checkbox"/> D5755(str/area) / <input type="checkbox"/> D5756(str/mass) <input type="checkbox"/> IAQ Particle Identification (PLM LAB) <input type="checkbox"/> PLM Opaques/Soot <input type="checkbox"/> Particle Identification (TEM LAB) <input type="checkbox"/> Special Project <input type="checkbox"/> Metals Analysis Matrix: Method: Analytes:					
				<input type="checkbox"/> Silica in Air <input type="checkbox"/> w/Gravimetry					
Sample ID		Date / Time	Sample Location / Description		FOR AIR SAMPLES ONLY			Sample Area / Air Volume	
M18143-NA-01		8-2	WOMEN'S PE NOEL A		Type A P C	Time On/Off 2035 0007	Avg LPM 19	Total Time 2012	402.8
					A P C				
					A P C				
					A P C				
					A P C				
					A P C				
					A P C				
					A P C				
					A P C				
					A P C				
					A P C				
					A P C				
Sampled By: NOEL A		Date/Time: 8-2-18	Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> US Mail <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Drop Off <input type="checkbox"/> Other:						
Relinquished By:		Relinquished By:		Relinquished By:					
Date / Time:		Date / Time:		Date / Time:					
Received By:		Received By:		Received By:					
Date / Time:		Date / Time:		Date / Time:					
Condition Acceptable? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Condition Acceptable? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Condition Acceptable? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

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Las Vegas Office: 6765 S. Eastern Avenue, Suite 3, Las Vegas, NV 89119 • Phone: 702/784-0040

Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Hazard Mgmt Svcs-Modesto/Plst Hill
Project Manager
P.O. Box 576848

Modesto, CA 95357-6848

Client ID: 1146
Report Number: A240591
Date Received: 08/03/18
Date Analyzed: 08/03/18
Date Printed: 08/03/18
First Reported: 08/03/18

Job ID/Site: M18143 - MJC, Pool Area

FALI Job ID: 1146
Total Samples Submitted: 1
Total Samples Analyzed: 1

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	Fibers/mm ²	LOD F/cc	Fibers/cc
M18143-NA-01	12062795	08/02/18	402.8	1.0	100	<7.0	0.007	< 0.007



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

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Forensic Analytical LABORATORIES

Analysis Request Form (COC)

Client Name & Address: HMS, Inc		Client No.: 1146	PO / Job#: M18143 RUSH	Date: 8-2-18
Contact: T. FAISON		Phone: 204-551-2000	Turn Around Time: <input checked="" type="checkbox"/> Same Day / <input type="checkbox"/> 1Day / <input type="checkbox"/> 2Day / <input type="checkbox"/> 3Day / <input type="checkbox"/> 4Day / <input type="checkbox"/> 5Day	
E-mail: TEAISON@hazmanage.com		<input checked="" type="checkbox"/> PCM: <input type="checkbox"/> NIOSH 7400A / <input type="checkbox"/> NIOSH 7400B <input type="checkbox"/> Rotometer <input type="checkbox"/> PLM: <input type="checkbox"/> Standard / <input type="checkbox"/> Point Count 400 - 1000 / <input type="checkbox"/> CARB 435		
Site Name: M.J.C.		<input type="checkbox"/> TEM Air: <input type="checkbox"/> AHERA / <input type="checkbox"/> Yamate2 / <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> TEM Bulk: <input type="checkbox"/> Quantitative / <input type="checkbox"/> Qualitative / <input type="checkbox"/> Chalfield <input type="checkbox"/> TEM Water: <input type="checkbox"/> Potable / <input type="checkbox"/> Non-Potable / <input type="checkbox"/> Weight % <input type="checkbox"/> TEM Microvac: <input type="checkbox"/> Qual / <input type="checkbox"/> D5755(str/area) / <input type="checkbox"/> D5756(str/mass)		
Site Location: POOL AREA		<input type="checkbox"/> IAQ Particle Identification (PLM LAB) <input type="checkbox"/> PLM Opaques/Soot <input type="checkbox"/> Particle Identification (TEM LAB) <input type="checkbox"/> Special Project <input type="checkbox"/> Metals Analysis Matrix: Method: Analytes:		
Comments:			<input type="checkbox"/> Silica in Air <input type="checkbox"/> w/Gravimetry	

Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg LPM	Total Time	
M18143-TF01	8-2-18	GYM BLDG TYLER FAISON	IA P C	20:35 00:32	1.95	237	462.15
			IA P C				
			IA P C				
			IA P C				
			IA P C				
			IA P C				
			IA P C				
			IA P C				
			IA P C				
			IA P C				
			IA P C				
			IA P C				
			IA P C				
			IA P C				

Sampled By: **T. FAISON** Date/Time: **8-2-18** Shipped Via: ☐ Fed Ex ☐ UPS ☐ US Mail ☐ Courier ☒ Drop Off ☐ Other:

Relinquished By:	Relinquished By:	Relinquished By:
Date / Time:	Date / Time:	Date / Time:
Received By:	Received By:	Received By:
Date / Time:	Date / Time:	Date / Time:
Condition Acceptable? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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 Las Vegas Office: 6765 S. Eastern Avenue, Suite 3, Las Vegas, NV 89119 • Phone: 702/784-0040

Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Hazard Mgmt Svcs-Modesto/Plst Hill
Project Manager
P.O. Box 576848

Modesto, CA 95357-6848

Client ID: 1146
Report Number: A240592
Date Received: 08/03/18
Date Analyzed: 08/03/18
Date Printed: 08/03/18
First Reported: 08/03/18

Job ID/Site: M18143 - MJC, Pool Area

FALI Job ID: 1146
Total Samples Submitted: 1
Total Samples Analyzed: 1

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	Fibers/mm ²	LOD F/cc	Fibers/cc
M18143-TF01	12062796	08/02/18	462.2	0.0	100	<7.0	0.006	< 0.006



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Intralaboratory Relative Standard Deviation (Sr) per 100 graticule fields: 5 to 20 fibers: 0.59; >20 to 50 fibers: 0.51; >50 fibers: 0.48

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Forensic Analytical LABORATORIES

Analysis Request Form (COC)

Client Name & Address: HMS, Inc		Client No.: 1146	PO / Job#: M18143	Date: 8/2
Turn Around Time: <input checked="" type="checkbox"/> Same Day / <input type="checkbox"/> 1Day / <input type="checkbox"/> 2Day / <input type="checkbox"/> 3Day / <input type="checkbox"/> 4Day / <input type="checkbox"/> 5Day			<input checked="" type="checkbox"/> PCM: <input type="checkbox"/> NIOSH 7400A / <input type="checkbox"/> NIOSH 7400B <input type="checkbox"/> Rotometer	
<input type="checkbox"/> PLM: <input type="checkbox"/> Standard / <input type="checkbox"/> Point Count 400 / 1000 / <input type="checkbox"/> CARB 435			<input type="checkbox"/> TEM Air: <input type="checkbox"/> AHERA / <input type="checkbox"/> Yamate2 / <input type="checkbox"/> NIOSH 7402	
Contact: T FAISON			<input type="checkbox"/> TEM Bulk: <input type="checkbox"/> Quantitative / <input type="checkbox"/> Qualitative / <input type="checkbox"/> Chaffield	
Phone: 201-551-2000			<input type="checkbox"/> TEM Water: <input type="checkbox"/> Potable / <input type="checkbox"/> Non-Potable / <input type="checkbox"/> Weight %	
E-mail: TFAISON@nazmanage.com			<input type="checkbox"/> TEM Microvac: <input type="checkbox"/> Qual / <input type="checkbox"/> D5755(str/area) / <input type="checkbox"/> D5756(str/mass)	
Site Name: M J.C			<input type="checkbox"/> IAQ Particle Identification (PLM LAB) <input type="checkbox"/> PLM Opaques/Soot	
Site Location: POOL AREA			<input type="checkbox"/> Particle Identification (TEM LAB) <input type="checkbox"/> Special Project	
Comments:			<input type="checkbox"/> Metals Analysis Matrix: Method: Analytes:	
			<input type="checkbox"/> Silica in Air <input type="checkbox"/> w/Gravimetry	

Sample ID	Date / Time	Sample location / Description	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg LPM	Total Time	
M18143-KW-01	8-2-18	OUTSIDE/EXTERIOR OF BLDGS KWATTS	IA IP C	2038 00:09	1.9	211	4009
M18143-KW-02	8-2-18	BLANK	IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
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			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				
			IA IP C				

Sampled By: KWATTS Date/Time: 8/2 Shipped Via: ☐ Fed Ex ☐ UPS ☐ US Mail ☒ Courier ☐ Drop Off ☐ Other:

Relinquished By:	Relinquished By:	Relinquished By:
Date / Time:	Date / Time:	Date / Time:
Received By:	Received By:	Received By:
Date / Time:	Date / Time:	Date / Time:
Condition Acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No

Forensic Analytical Laboratories may subcontract client samples to other FALL locations to meet client requests.

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 Las Vegas Office: 6765 S. Eastern Avenue, Suite 3, Las Vegas, NV 89119 • Phone: 702/784-0040



Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Hazard Mgmt Svcs-Modesto/Plst Hill
T. Faison
P.O. Box 576848

Modesto, CA 95357-6848

Client ID: 1146
Report Number: A240588
Date Received: 08/03/18
Date Analyzed: 08/03/18
Date Printed: 08/03/18
First Reported: 08/03/18

Job ID/Site: M18143 - MJC, Pool Area

FALI Job ID: 1146
Total Samples Submitted: 2
Total Samples Analyzed: 2

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	Fibers/mm ²	LOD F/cc	Fibers/cc
M18143-KW-01	12062785	08/02/18	400.9	1.5	100	<7.0	0.007	< 0.007
M18143-KW-02	12062786	08/02/18	0.0	1.5	100	--	--	--

Comments: This result was used to blank correct the other samples on this rpt. Blank filters are reported only as # of fibers & fields counted.

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Intralaboratory Relative Standard Deviation (Sr) per 100 graticule fields: 5 to 20 fibers: 0.59; >20 to 50 fibers: 0.51; >50 fibers: 0.48

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Forensic Analytical LABORATORIES

Analysis Request Form (COC)

Client Name & Address: HMS, Inc		Client No.: 1146	PO / Job#: M18143 Date: 8-2-18	
			Turn Around Time: <input checked="" type="checkbox"/> Same Day / <input type="checkbox"/> 1Day / <input type="checkbox"/> 2Day / <input type="checkbox"/> 3Day / <input type="checkbox"/> 4Day / <input type="checkbox"/> 5Day	
			<input checked="" type="checkbox"/> PCM: <input type="checkbox"/> NIOSH 7400A / <input type="checkbox"/> NIOSH 7400B <input type="checkbox"/> Rotometer	
			<input type="checkbox"/> PLM: <input type="checkbox"/> Standard / <input type="checkbox"/> Point Count <input type="checkbox"/> 400 / <input type="checkbox"/> 1000 / <input type="checkbox"/> CARB 435	
Contact: TEALSON		Phone: 209-551 2000	<input type="checkbox"/> TEM Air: <input type="checkbox"/> AHERA / <input type="checkbox"/> Yamate2 / <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> TEM Bulk: <input type="checkbox"/> Quantitative / <input type="checkbox"/> Qualitative / <input type="checkbox"/> Chatfield <input type="checkbox"/> TEM Water: <input type="checkbox"/> Potable / <input type="checkbox"/> Non-Potable / <input type="checkbox"/> Weight % <input type="checkbox"/> TEM Microvac: <input type="checkbox"/> Qual / <input type="checkbox"/> D5755(str/area) / <input type="checkbox"/> D5756(str/mass)	
Email: TEALSON@HACMANAGE.COM				
Site Name: MJC			<input type="checkbox"/> IAQ Particle Identification (PLM LAB) <input type="checkbox"/> PLM Opaques/Soot <input type="checkbox"/> Particle Identification (TEM LAB) <input type="checkbox"/> Special Project	
Site Location: PULL AREA			<input type="checkbox"/> Metals Analysis Matrix: Method: Analytes:	
Comments:				<input type="checkbox"/> Silica In Air <input type="checkbox"/> w/Gravimetry

Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg LPM	Total Time	
M18143-JS-01	8/2/18	GYM BLDG - JAKE SHARP	IA (P) C	20:37 21:07	2.0	30	60
M18143-JS-02	8/2/18	LIBRARY - JAKE SHARP	IA (P) C	21:33 22:03	2.0	30	60
M18143-JS-03	8/2/18	MENS RE - JAKE SHARP	IA (P) C	22:04 22:34	2.0	30	60
M18143-JS-04	8/2/18	RE OFFICES - JAKE SHARP	IA (P) C	22:40 23:10	2.0	30	60
M18143-JS-05	8/2/18	WOMENS RE - JAKE SHARP	IA (P) C	23:12 23:42	2.0	30	60
M18143-JS-06		BLANK	IA (P) C				60
			IA (P) C				
			IA (P) C				
			IA (P) C				
			IA (P) C				
			IA (P) C				

Sampled By: J. SHARP		Date/Time: 8/2	Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> US Mail <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Drop Off <input type="checkbox"/> Other:	
Relinquished By:		Date / Time:	Relinquished By:	
Date / Time:		Date / Time:	Date / Time:	
Received By:		Date / Time:	Received By:	
Date / Time:		Date / Time:	Date / Time:	
Condition Acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	

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 Las Vegas Office: 6765 S. Eastern Avenue, Suite 3, Las Vegas, NV 89119 • Phone: 702/784-0040

Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Hazard Mgmt Svcs-Modesto/Plst Hill
T. Faison
P.O. Box 576848

Modesto, CA 95357-6848

Client ID: 1146
Report Number: A240586
Date Received: 08/03/18
Date Analyzed: 08/03/18
Date Printed: 08/03/18
First Reported: 08/03/18

Job ID/Site: M18143 - MJC, Pool Area

FALI Job ID: 1146
Total Samples Submitted: 6
Total Samples Analyzed: 6

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	Fibers/mm ²	LOD F/cc	Fibers/cc
M18143-JS-01	12062777	08/02/18	60.0	1.0	100	<7.0	0.045	< 0.045
M18143-JS-02	12062778	08/02/18	60.0	0.0	100	<7.0	0.045	< 0.045
M18143-JS-03	12062779	08/02/18	60.0	0.0	100	<7.0	0.045	< 0.045
M18143-JS-04	12062780	08/02/18	60.0	0.0	100	<7.0	0.045	< 0.045
M18143-JS-05	12062781	08/02/18	60.0	0.0	100	<7.0	0.045	< 0.045
M18143-JS-06	12062782	08/02/18	0.0	0.0	100	--	--	--

Comments: This result was used to blank correct the other samples on this rpt. Blank filters are reported only as # of fibers & fields counted.



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Intralaboratory Relative Standard Deviation (Sr) per 100 graticule fields: 5 to 20 fibers: 0.59; >20 to 50 fibers: 0.51; >50 fibers: 0.48

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Forensic Analytical LABORATORIES

Analysis Request Form (COC)

Client Name & Address: HMS Inc		Client No.: 1146	PO / Job#: M18143		Date: 8-2-18	
Contact: T. FAISON Phone: 209-551-2000 E-mail: T.FAISON@HAZMANAGE.COM Site Name: MJC Site Location: POOL AREA			Turn Around Time: <input checked="" type="checkbox"/> Same Day / <input type="checkbox"/> 1Day / <input type="checkbox"/> 2Day / <input type="checkbox"/> 3Day / <input type="checkbox"/> 4Day / <input type="checkbox"/> 5Day			
			<input checked="" type="checkbox"/> PCM: <input type="checkbox"/> NIOSH 7400A / <input type="checkbox"/> NIOSH 7400B <input type="checkbox"/> Rotometer			
			<input type="checkbox"/> PLM: <input type="checkbox"/> Standard / <input type="checkbox"/> Point Count 400-1000 / <input type="checkbox"/> CARB 435			
			<input type="checkbox"/> TEM Air: <input type="checkbox"/> AHERA / <input type="checkbox"/> Yamate2 / <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> TEM Bulk: <input type="checkbox"/> Quantitative / <input type="checkbox"/> Qualitative / <input type="checkbox"/> Chalfield <input type="checkbox"/> TEM Water: <input type="checkbox"/> Potable / <input type="checkbox"/> Non-Potable / <input type="checkbox"/> Weight % <input type="checkbox"/> TEM Microvac: <input type="checkbox"/> Qual / <input type="checkbox"/> D5755(str/area) / <input type="checkbox"/> D5756(str/mass)			
			<input type="checkbox"/> IAQ Particle Identification (PLM LAB) <input type="checkbox"/> PLM Opaques/Soot <input type="checkbox"/> Particle Identification (TEM LAB) <input type="checkbox"/> Special Project			
Comments:			<input type="checkbox"/> Metals Analysis Matrix: Method: <input type="checkbox"/> Silica in Air <input type="checkbox"/> w/Gravimetry			

Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg LPM	Total Time	
M18143-TL-01	8-2-18	PE OFFICES TREVOR LEITZ	IA (P) C	2035 00.03	19	208	3152
			IA P C				
			IA P C				
			IA P C				
			IA P C				
			IA P C				
			IA P C				
			IA P C				
			IA P C				
			IA P C				
			IA P C				

Sampled By: T. FAISON Date/Time: 8-2-18		Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> US Mail <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Drop Off <input type="checkbox"/> Other:	
Relinquished By: 		Relinquished By: 	
Date / Time: 		Date / Time: 	
Received By: 		Received By: 	
Date / Time: 		Date / Time: 	
Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No		Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	

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 Las Vegas Office: 6765 S. Eastern Avenue, Suite 3, Las Vegas, NV 89119 • Phone: 702/784-0040

Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Hazard Mgmt Svcs-Modesto/Plst Hill
T. Faison
P.O. Box 576848

Modesto, CA 95357-6848

Client ID: 1146
Report Number: A240589
Date Received: 08/03/18
Date Analyzed: 08/03/18
Date Printed: 08/03/18
First Reported: 08/03/18

Job ID/Site: M18143 - MJC, Pool Area

FALI Job ID: 1146
Total Samples Submitted: 1
Total Samples Analyzed: 1

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	Fibers/mm ²	LOD F/cc	Fibers/cc
M18143-TL-01	12062787	08/02/18	291.2	1.0	100	<7.0	0.009	< 0.009



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Intralaboratory Relative Standard Deviation (Sr) per 100 graticule fields: 5 to 20 fibers: 0.59; >20 to 50 fibers: 0.51; >50 fibers: 0.48

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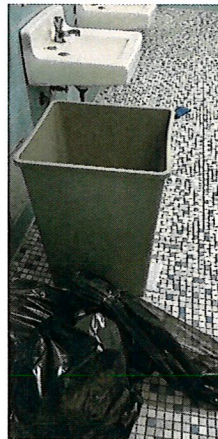
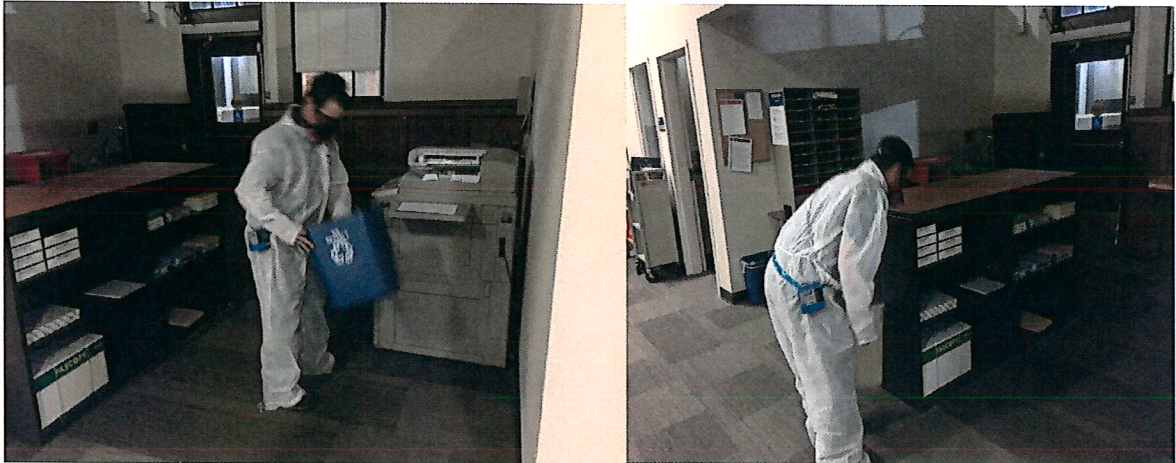
**Hazard
Management
Services**
SINCE 1984

Project Manager's Daily Log

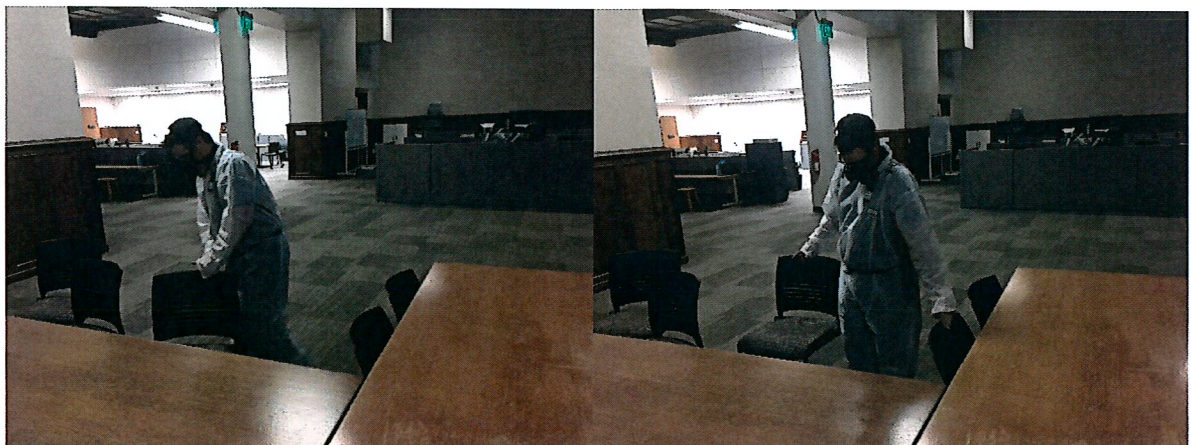
Date: August 2nd, 2018 Project Number: M18143 HMS Representative on Site: _____

Detail of Work

Taking out the Trash



Move Furniture



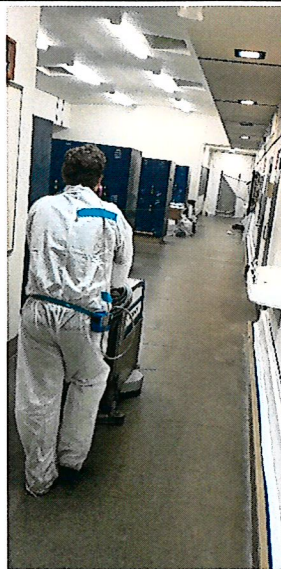


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Project Manager's Daily Log

Date: August 2nd, 2018 Project Number: M18143 HMS Representative on Site: _____

Sweeping



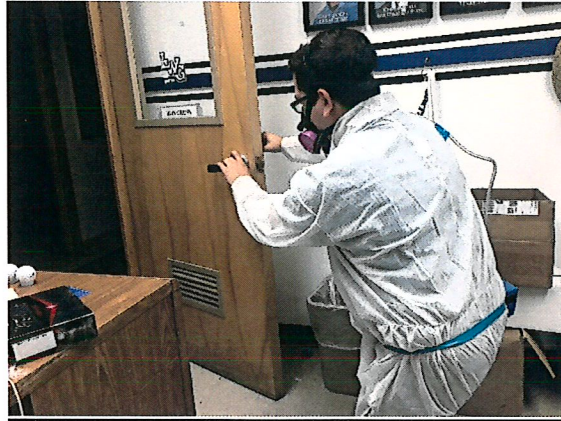


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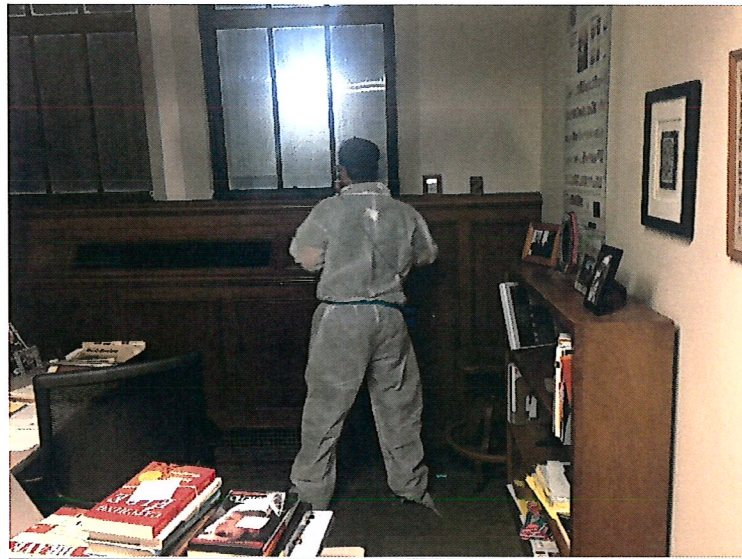
Project Manager's Daily Log

Date: August 2nd, 2018 Project Number: M18143 HMS Representative on Site: _____

Locksmith



Building Inspection Walking





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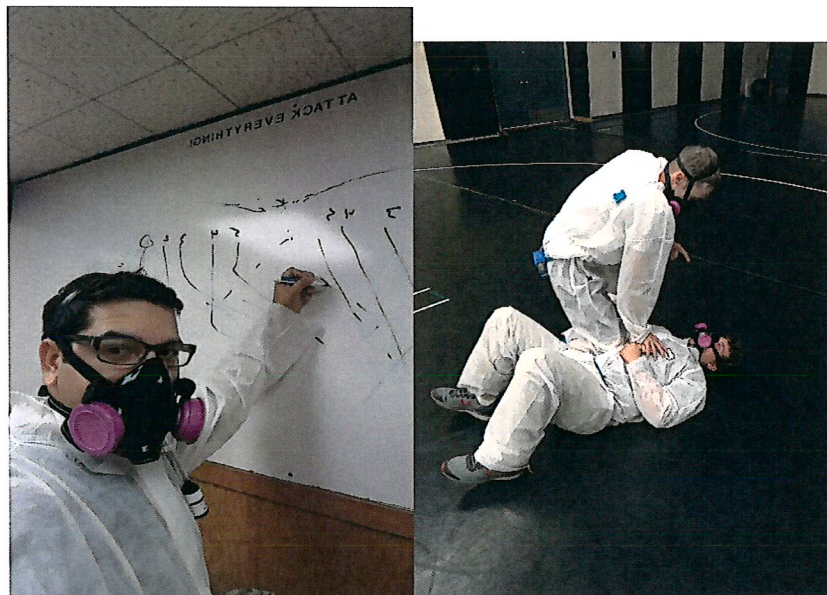
Project Manager's Daily Log

Date: August 2nd, 2018 Project Number: M18143 HMS Representative on Site: _____

Cleaning/Laundry



Misc.





**Hazard
Management
Services**
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Project Manager's Daily Log

Date: August 2nd, 2018 Project Number: M18143 HMS Representative on Site: _____

