



HYGIENETECH

Hygiene Technologies International, Inc.

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October 27, 2011

California State Board of Equalization
450 N Street
Sacramento, California 94279

Document No. 21110001.1

Attention: David Gau

Regarding: Airborne Fibrous Glass Exposure Assessment Survey
1st Floor - Print Room 139

Dear Mr. Gau:

On October 21, 2011, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted an airborne fibrous glass exposure assessment survey in Print Room 139 of the California State Board of Equalization (BOE) building located at the above referenced address. At the time of the survey, air samples were collected at various locations in Print Room 139 in order to determine exposure potentials to fibrous glass. The survey findings, along with the analytical data, conclusions, and a discussion of the recently recorded observations appear below.

During the survey, HygieneTech observed that a majority of the fiberglass insulation located at the ceiling of Print Room 139 was covered with fabric; however, small sections of exposed fiberglass insulation were observed at various locations in this area. Note that at the time of the survey, HygieneTech observed no fiberglass insulation debris in the areas immediately below the exposed sections of fiberglass insulation or in the surrounding areas in Print Room 139. On the survey date, a total of three area air samples were collected on 25-millimeter diameter, 0.8-micron pore size mixed cellulose ester filters contained in carbon filled polypropylene cassettes using SKC brand air sampling pumps. Pump flow rates were established and verified using a BIOS DryCal DC-Lite primary flow meter. All air samples and one blank (identical sampling media through which no air was drawn) were analyzed for fibrous glass by Phase Contrast Microscopy (PCM) in accordance with the National Institute for Occupational Safety and Health (NIOSH) Method 7400. These data are presented in fibers per cubic centimeter (f/cc) of air in Table 21110001-4.

The air monitoring results indicated that airborne fibrous glass was not detected at or above the laboratory analytical detection limit listed in the table. These data, which are expected to represent *exposure potentials* to fibrous glass, were well below the current State of California, Department of Industrial Relations, Division of Occupational Safety and Health (Cal-OSHA) 8-hour time-weighted average (TWA) permissible exposure limit (PEL) for fibrous glass of 1.0 f/cc, as defined in Title 8 of the California Code of Regulations, Section 5155 (T8, CCR § 5155). Note that because these data were recorded at stationary locations at approximate breathing zone height, the results are expected to represent *exposure potentials* for those persons occupying or passing through the areas monitored. Based on the survey



findings, HygieneTech has concluded that the data were unremarkable and not expected to represent conditions that pose an unacceptable health risk to Print Room 139 occupants.

An accurate record of all air monitoring results should be maintained in accordance with Cal-OSHA regulation T8, CCR § 3204. All affected employees should be informed that the exposure data in this report exist and that they, or their representative, have a right to access relevant exposure data and medical records.

Be advised that the data provided with this correspondence only represent fibrous glass exposure potentials that existed at the time the survey was performed and at the precise locations only, the latter of which were selected based on the visual observation made during the survey, and that fibrous glass exposure potentials may change due to changes in environmental conditions, such as those caused by the use of mechanical systems or other factors including physical disturbance. Also be advised that the exposure data recorded during the survey may not be sufficiently broad to adequately assess the suitability of the indoor air quality for all individuals, particularly those who are extremely sensitive to certain chemical and/or biological substances. Although not expected, if persons entering the surveyed area do experience non-specific ill effects of unknown etiology, then those affected should be referred to a medical professional in order to determine or specify the possible cause(s) of such reactions. If more information becomes available, further investigation and air monitoring may be warranted.

If you have any comments or questions regarding the information contained in this correspondence, please feel free to contact our offices directly at (310) 370-8370.

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 94279

APPENDIX A



**TABLE 21110001-4
AIR MONITORING RESULTS – FIBROUS GLASS
1ST FLOOR - PRINT ROOM 139
450 N STREET
SACRAMENTO, CALIFORNIA
OCTOBER 21, 2011**

NAME REFERENCE	SAMPLING LOCATION/ACTIVITIES	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (f/cc)	PEL (f/cc)
Area sample	Print Room 139; northern portion; about 10 feet south of northern partition wall and 10 feet west of eastern perimeter wall; approximately five feet above floor/Sampling activities only	21110001-4 F01	18:42/ 22:47	245 minutes	Fibrous glass	<0.01	1.0
Area sample	Print Room 139; central portion; Steve Hall's Cubicle along the eastern perimeter wall; western cubicle partition; approximately five feet above floor/Sampling activities only	21110001-4 F02	18:47/ 22:49	242 minutes	Fibrous glass	<0.01	1.0
Area sample	Print Room 139; southern portion; about center; approximately five feet above floor/Sampling activities only	21110001-4 F03	18:50/ 22:51	241 minutes	Fibrous glass	<0.01	1.0
Blank	N/A	21110001-4 F04BLANK	N/A	N/A	Fibrous glass	All data blank corrected	N/A

LEGEND

PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit
N/A: Not applicable

<: Less than
f/cc: Fibers per cubic centimeter of air



Mr. Kenny Hsi
Hygiene Technologies International
3625 Del Amo Blvd.
Suite 180
Torrance, CA 90503

October 26, 2011

DOH ELAP# 11626

Account# 11324

Login# L252149

Dear Mr. Hsi:

Enclosed are the revised analytical results for the samples received by our laboratory on October 24, 2011. Per your request, all sample IDs have been corrected. Please note that this revision replaces the previous version of this report. All test results meet the quality control requirements of AIHA and NYSDOH ELAP unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory.

Please contact Heidi Fruhlinger at (888) 432-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories

Mary G. Unangst
Laboratory Director

Enclosure(s)



LABORATORY ANALYSIS REPORT

6601 Kirkville Road	Client	: Hygiene Technologies International
East Syracuse, NY 13057	Site	: NS
(315) 432-5227	Project No.	: 21110001-4
FAX: (315) 437-0571	Date Sampled	: 21-OCT-11
www.galsonlabs.com	Date Received	: 24-OCT-11
	Date Analyzed	: 24-OCT-11
	Report ID	: 713082
	Account No.:	: 11324
	Login No.:	: L252149

Total Fiber Count

<u>Sample ID</u>	<u>Lab ID</u>	<u>Fibers/ Fields</u>	<u>Fibers/ mm2</u>	<u>Fibers/ Filter</u>	<u>Air Volume (cc)</u>	<u>Fibers/ cc</u>
21110001-4 F01	L252149-1	1/100	<13	<5000	490,000	<0.01
21110001-4 F02	L252149-2	1/100	<13	<5000	484,000	<0.01
21110001-4 F03	L252149-3	2/100	<13	<5000	482,000	<0.01
21110001-4 F04 BLANK	L252149-4	0/100	<13	<5000	NA	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Sample Matrix : PCM	Submitted by : MJS
Analytical Method : NIOSH 7400 "B" Rules; PCM	Approved by : PAW
Limit of Quantitation : 10 Fibers/ 100 Fields	Date : 24-OCT-11
Microscope field area : 0.00785 mm2	QC by: Tony D'Amico
Filter collection area: 385 mm2	NYSDOH # : 11626

< -Less Than	> -Greater Than	ND -Not Detected
NA -Not Applicable	cc -Cubic Centimeters	NS -Not Specified
mm2 -Square millimeters		



LABORATORY FOOTNOTE REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

Client Name : Hygiene Technologies International
Site :
Project No. : 21110001-4

Date Sampled : 21-OCT-11
Date Received: 24-OCT-11
Date Analyzed: 24-OCT-11

Account No.: 11324
Login No. : L252149

Unless otherwise noted below, all quality control results associated with the samples were within established control limits.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded in order to fit the report format and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

L252149 (Report ID: 713082):

Samples were analyzed by the NIOSH method 7400 "B" rules.

SOPs: ia-pcm(14)

The current intra-laboratory coefficients of variation (CVs) for the applicable fiber ranges are as follows:

0.113 (5-20 fibers/100 fields)
0.098 (>20-50 fibers/100 fields)
0.073 (>50-100 fibers/100 fields)
0.064 (>100 fibers/100 fields)

The stated CVs apply to the media, technology, and SOP(s) referenced in the report and do not take into account any uncertainty associated with the sampling process.

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	
