Mabbett™

Mabbett & Associates, Inc.
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October 2, 2013

Mr. Tim Sleeth
Industrial Hygienist
General Services Administration (GSA)
Safety, Environmental, & Fire Protection Branch
301 7th Street, SW, Room 2080
Washington, DC 20407

RE: **Fiber-in-Air Survey Report**
Department of Interior South Building
Contract Number: GS-11P-12-DC-C-0007
Mabbett Project No.: 2012011.043

Dear Mr. Sleeth:

Mabbett & Associates, Inc. (Mabbett™) received a request from GSA, NCR, Service Delivery Support Safety, Environmental, and Fire Protection Branch to conduct the annual asbestos fiber-in-air (FIA) testing within thirty-seven GSA facilities. This report summarizes the results of the survey conducted at the Department of Interior South Building, located at 1951 Constitution Ave. NW, Washington D.C.

Mabbett Industrial Hygienists Lindsay Mahoney, Damien Hammond, and Andrew Gronan performed the sampling from September 3 to 6, 2013. The survey was performed in accordance with the GSA fiber-in-air sampling protocol.

Methods

Fiber-in-air samples were collected to fulfill requirements under GSA fiber-in-air protocols. Eight area air samples were collected using 25 mm, 0.8 micron, mixed cellulose ester filter cassettes connected to low volume sampling pumps with plastic tubing, sampled at a rate of three to four liters per minute. A minimum total air volume of 1200 liters was obtained for all samples. Each sampling train was calibrated using a rotometer calibrated against a primary standard within a year of use. One field blank was collected for quality control.

Air samples were collected during normal working hours at locations distributed randomly throughout the building. Sampling cassettes were positioned three to five feet above the floor. The sampling pumps were placed within occupied areas for the duration of the sampling period.

PCM samples collected were submitted to Scientific Analytical Institute Inc. (SAI) of Greensboro, North Carolina for analysis by Phase Contrast Microscopy (PCM) using NIOSH Method 7400. Samples unable to be analyzed by PCM were analyzed by Transmission Electron Microscopy (TEM) using AHERA (TEM) Method. SAI is accredited by the American Industrial Hygiene Association (AIHA) for asbestos fiber-in-air analyses by PCM, and participates in the National Voluntary Laboratory Accreditation Program (NVLAP) for analysis by TEM.

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Findings

Fiber concentrations of all samples collected were found to be below the GSA FIA protocol threshold of 0.01 fibers per cubic centimeter (f/cc). A summary of the results can be found in Table 1 below. Detailed sample results can be found in the Laboratory Analysis Report (Attachment A) and Field Data Sheets (Attachment B).

Table 1
PCM Fiber in Air Sampling Results Summary
(Samples Collected September 3 - 6, 2013)

Sample ID	Person Sampled/Sample Location	Fibers Fields	Volume (L)	Fibers (f/cc)
DOIS-B-1	Cafeteria	<5.5	1292	<0.01
DOIS-B-2	File Rm. # 35	<5.5	1386	<0.01
DOIS-2-1	Outside Rm. 226	6	1368	<0.01
DOIS-1-1	Outside Rm. 116	<5.5	1422	<0.01
DOIS-1-2	Outside Rm. 134	<5.5	1296	<0.01
DOIS-3-3	Outside Rm. 334	12	1314	<0.01
DOIS-3-4	Outside Rm. 314	<5.5	1346	<0.01
DOIS-2-3	Outside Rm. 244	<5.5	1297	<0.01
DOIS-FB-1	Blank	N/A	0	N/A

f/cc = fibers per cubic centimeter
< = less than
L = liters
N/A = Not applicable

Conclusions and Recommendations

All asbestos fiber in air sample results were below the acceptable threshold of 0.01 f/cc. No further action is required.

Mabbett appreciates this opportunity to provide this asbestos fiber- in-air monitoring services for GSA, NCR. Should you have any questions or concerns, please do not hesitate to contact us at (703) 486-5680.

Very truly yours,

MABBETT & ASSOCIATES, INC.

By:

Andrew Gronan
Industrial Hygienist

Reviewed by:

Damien Hammond, MS, CSP, CIH
Sr. Industrial Hygienist

Attachment A: Laboratory Analysis Report
Attachment B: Field Data Sheets

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ATTACHMENT A

Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)

Customer: Mabbett & Associates
1940 Duke St #200
Alexandria, VA 22314

Attn: Andrew Gronan
Damien Hammond

Lab Order ID: 1316421
Analysis ID: 1316421_PCM
Date Received: 9/9/2013
Date Reported: 9/10/2013

Project: DOIS Fiber in Air Survey

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Volume / *Filter Area*	Fibers / Fields	Filter (Fibers / mm²)	LOD (Fibers / cc)	Conc. (Fibers / cc)
DOIS-B-1 / *1316421PCM_1*	Cafeteria	1292 L / *385 mm 2*	< 5.5 / 100	< 7.0	0.0021	**< 0.0021**
DOIS-B-2 / *1316421PCM_2*	File rm # 35	1386 L / *385 mm 2*	< 5.5 / 100	< 7.0	0.0019	**< 0.0019**
DOIS-2-1 / *1316421PCM_3*	Outside 226	1368 L / *385 mm 2*	6 / 100	7.6	0.0020	**0.0021**
DOIS-1-1 / *1316421PCM_4*	Outside rm 116	1422 L / *385 mm 2*	< 5.5 / 100	< 7.0	0.0019	**< 0.0019**
DOIS-1-2 / *1316421PCM_5*	Outside rm 134	1296 L / *385 mm 2*	< 5.5 / 100	< 7.0	0.0021	**< 0.0021**
DOIS-3-3 / *1316421PCM_6*	Outside rm 334	1314 L / *385 mm 2*	12 / 100	15	0.0021	**0.0044**
DOIS-3-4 / *1316421PCM_7*	Outside rm 314	1346 L / *385 mm 2*	< 5.5 / 100	< 7.0	0.0020	**< 0.0020**
DOIS-2-3 / *1316421PCM_8*	Outside rm. 244	1297 L / *385 mm 2*	< 5.5 / 100	< 7.0	0.0021	**< 0.0021**

Scientific Analytical Institute participates in the AIHA IHPAT program. IHPAT Laboratory ID: 173190
(Laboratory precision: Sr: 0.45)

Matt Thomas (9)

Analyst

Approved Signatory

Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)

Customer: Mabbett & Associates
1940 Duke St #200
Alexandria, VA 22314

Attn: Andrew Gronan
Damien Hammond

Lab Order ID: 1316421
Analysis ID: 1316421_PCM
Date Received: 9/9/2013
Date Reported: 9/10/2013

Project: DOIS Fiber in Air Survey

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Volume / *Filter Area*	Fibers / Fields	Filter (Fibers / mm²)	LOD (Fibers / cc)	Conc. (Fibers / cc)
DOIS-FB-1	Blank	0 L	< 5.5	< 7.0	N/A	**N/A**
1316421PCM_9		*385 mm 2*	100			

Scientific Analytical Institute participates in the AIHA IHPAT program. IHPAT Laboratory ID: 173190
(Laboratory precision: Sr: 0.45)

Matt Thomas (9)

Analyst

Approved Signatory

1316421

Client:	Mabbett & Associates	***Instructions:***
Contact:	Andrew Gronan	*Use Column "B" for your contact info*
Address:	1940 Duke St. Ste. 200 Alexandria, VA 22314	
Phone:	703-486-5680	*To See an Example Click the bottom Example Tab.*
Fax:	[Enter fax here]	
Email:	gronan@mabbett.com cc: hammond@mabbett.com	***Enter samples between "<<" and ">>"***
Project:	DOIS Fiber in Air Survey	***Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.***
Client Notes:	Invoice at GSA approved fees. If any sample results are positive please notify Damien Hammond at 314-324-6042 immediately.	*Only Enter your data on the first sheet "Sheet1"*
P.O. #.	2012011.043	*Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.*
Date Submitted:	9/6/2013	
Analysis:	PCM NIOSH 7400	
TurnAroundTime:	24 Hours	

Scientific Analytical Institute

4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Data 1 - Volume (L)	Sample Description	Data 2 - Date
<<			
DOIS-B-1	1292	Cafeteria	9/3/2013
DOIS-B-2	1386	File Rm. # 35	9/3/2013
DOIS-2-1	1368	Outside Rm. 226	9/3/2013
DOIS-1-1	1422	Outside Rm. 116	9/3/2013
DOIS-1-2	1296	Outside Rm. 134	9/3/2013
DOIS-3-3	1314	Outside Rm. 334	9/5/2013
DOIS-3-4	1346	Outside Rm. 314	9/5/2013
DOIS-2-3	1297	Outside Rm. 244	9/5/2013
DOIS-FB-1	N/A	Blank	9/5/2013
>>			

Accepted ☑

Rejected ☐

9/9 10pm

Andrew Gronan

9/6/13

ATTACHMENT B

Asbestos Air Sample Data Form

Activity: DOI - Sam

Date 9-6-13

IH: LSM, AG, DH

Client & Sampling Location: GSA FIA

Analyst:

Project No.:

Analytical Method:

Calibrator/Rotameter Type & Number

Sample ID	Pump ID	Person Sampled/Sample Location	Flow Rate Pre:	Flow Rate Post:	Start Time	Stop Time	Sample Duration	Volume* (L)	Fibers/ Fields	Fibers/ cc
DOIS-B-1		Cafeteria	3.7	3.5	909	1508	359	1292		
DOIS-B-2		file room #35	4	3.7	912	1512	360	1386		
DOIS-2-1		Outside room 226	3.8	3.8	859	1459	360	1368		
DOIS-1-1		Outside room 116	4	3.9	8:30	14:30	360	1422		
DOI S-1-2		Outside room 134	3.7	3.5	8:34	14:34	360	1296		
DOI S-3-3		Outside room 334	3.7	3.2	7:03	13:24	381	1314		
DOI S-3-4		Outside room 314	3.7	3.5	7:15	13:29	374	1346		
DOI S-2-3		Outside room 244	3.7	3.2	7:18	13:34	376	1297		
DOI SFB-1		Blank	NA	NA	NA	NA	NA	NA		

*Volume is based on the lower of the pre and post calibration flow rates

Comments: