

CERTIFICATE OF ANALYSIS

Client: Synertech Inc.
228 Moore Street
Philadelphia PA 19148

Report Date: 10/11/2019
Report No.: 601742 - TEM AHERA
Project: Ben Franklin HS
Project No.: 010-4507

Client: SYN177

TEM AIR SAMPLE ANALYSIS SUMMARY

Lab No.: 6897168 **Volume:** 1800.0 L **Density (s/mm²):** <19.2
Client No.: JRM-1011-01 **Location:** In Hall Tent Between Rms 18 And 20 **Concentration (s/cc):** <0.0041
Date Sampled: 10/11/19 **Asbestos Type(s):** None Detected

Lab No.: 6897169 **Volume:** 1800.0 L **Density (s/mm²):** <19.2
Client No.: JRM-1011-02 **Location:** In Hall Tent Between Rms 18 And 20 **Concentration (s/cc):** <0.0041
Date Sampled: 10/11/19 **Asbestos Type(s):** None Detected


Lab No.: 6897170 **Volume:** 1800.0 L **Density (s/mm²):** <19.2
Client No.: JRM-1011-03 **Location:** In Hall Tent Between Rms 18 And 20 NE Of Tent **Concentration (s/cc):** <0.0041
Date Sampled: 10/11/19 **Asbestos Type(s):** None Detected


Lab No.: 6897171 **Volume:** 1800.0 L **Density (s/mm²):** <19.2
Client No.: JRM-1011-04 **Location:** Hall Between Rms 18 And 20 At Tent Entrance **Concentration (s/cc):** <0.0041
Date Sampled: 10/11/19 **Asbestos Type(s):** None Detected

Lab No.: 6897172 **Volume:** 1800.0 L **Density (s/mm²):** <19.2
Client No.: JRM-1011-05 **Location:** Hall Between Rms 18 And 20 East Of Tent **Concentration (s/cc):** <0.0041
Date Sampled: 10/11/19 **Asbestos Type(s):** None Detected

Note: Phila. Regulations Clearance Criteria is 0.00554 s/cc based on 5 samples.
Geometric Mean = 0.0041 Structures/cc

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 10/11/2019
Date Analyzed: 10/11/2019
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

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228 Moore Street
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Report Date: 10/11/2019
Report No.: 601742 - TEM AHERA
Project: Ben Franklin HS
Project No.: 010-4507

Appendix to Analytical Report:

Customer Contact: John Fiorelli
Method: 40 CFR 763 Final Rule

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: wchampion@iatl.com
iATL Account Representative: Shirley Clark
Sample Matrix: Air Cassettes

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by 40 CFR 763 Final Rule

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021

All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. AHERA guidelines recommend a minimum of 1200 L (0.0049 s/cc).

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation.

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Report No.: 601742 - TEM AHERA
Project: Ben Franklin HS
Project No.: 010-4507

Client: SYN177

TEM AIR SAMPLE ANALYSIS DETAILS

Lab No.: 6897168
Client No.: JRM-1011-01

Grid Openings: 4
Opening Area (mm²): 0.013
Area Analyzed (mm²): 0.0520
Sensitivity (s/mm²): 19.2
Detection Limit (s/cc): 0.0041

Volume (L): 1800.0 L
Date Sampled: 10/11/19
Location: In Hall Tent Between Rms 18 And 20
Asbestos Structures: None Detected

Structures 0.5 µm to <5.0 µm: None Detected
Structures ≥ 5.0 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Asbestos Type(s): None Detected

Filter Type: MCE
Filter Size (mm²): 385
Pore Size (µm): 0.45
Non-Asbestos Structures: None Detected

Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Non-Asbestos Type(s): None Detected

Micrograph Number:
EDXA Spectrum ID:

Lab No.: 6897169
Client No.: JRM-1011-02

Grid Openings: 4
Opening Area (mm²): 0.013
Area Analyzed (mm²): 0.0520
Sensitivity (s/mm²): 19.2
Detection Limit (s/cc): 0.0041

Volume (L): 1800.0 L
Date Sampled: 10/11/19
Location: In Hall Tent Between Rms 18 And 20
Asbestos Structures: None Detected

Structures 0.5 µm to <5.0 µm: None Detected
Structures ≥ 5.0 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Asbestos Type(s): None Detected

Filter Type: MCE
Filter Size (mm²): 385
Pore Size (µm): 0.45
Non-Asbestos Structures: None Detected

Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Non-Asbestos Type(s): None Detected

Micrograph Number:
EDXA Spectrum ID:

Lab No.: 6897170
Client No.: JRM-1011-03

Grid Openings: 4
Opening Area (mm²): 0.013
Area Analyzed (mm²): 0.0520
Sensitivity (s/mm²): 19.2
Detection Limit (s/cc): 0.0041

Volume (L): 1800.0 L
Date Sampled: 10/11/19
Location: In Hall Tent Between Rms 18 And 20
NE Of Tent
Asbestos Structures: None Detected


Structures 0.5 µm to <5.0 µm: None Detected
Structures ≥ 5.0 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Asbestos Type(s): None Detected


Filter Type: MCE
Filter Size (mm²): 385
Pore Size (µm): 0.45
Non-Asbestos Structures: None Detected

Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Non-Asbestos Type(s): None Detected

Micrograph Number:
EDXA Spectrum ID:

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Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

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Client: Synertech Inc.
228 Moore Street
Philadelphia PA 19148

Report Date: 10/11/2019
Report No.: 601742 - TEM AHERA
Project: Ben Franklin HS
Project No.: 010-4507

Client: SYN177

TEM AIR SAMPLE ANALYSIS DETAILS

Lab No.: 6897171
Client No.: JRM-1011-04

Volume (L): 1800.0 L
Date Sampled: 10/11/19
Location: Hall Between Rms 18 And 20 At Tent Entrance

Filter Type: MCE
Filter Size (mm²): 385
Pore Size (µm): 0.45

Grid Openings: 4
Opening Area (mm²): 0.013
Area Analyzed (mm²): 0.0520
Sensitivity (s/mm²): 19.2
Detection Limit (s/cc): 0.0041

Asbestos Structures: None Detected

Structures 0.5 µm to <5.0 µm: None Detected
Structures ≥ 5.0 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Asbestos Type(s): None Detected

Non-Asbestos Structures: None Detected

Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Non-Asbestos Type(s): None Detected

Micrograph Number:
EDXA Spectrum ID:

Lab No.: 6897172
Client No.: JRM-1011-05

Volume (L): 1800.0 L
Date Sampled: 10/11/19
Location: Hall Between Rms 18 And 20 East Of Tent

Filter Type: MCE
Filter Size (mm²): 385
Pore Size (µm): 0.45

Grid Openings: 4
Opening Area (mm²): 0.013
Area Analyzed (mm²): 0.0520
Sensitivity (s/mm²): 19.2
Detection Limit (s/cc): 0.0041

Asbestos Structures: None Detected

Structures 0.5 µm to <5.0 µm: None Detected
Structures ≥ 5.0 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Asbestos Type(s): None Detected


Non-Asbestos Structures: None Detected


Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Non-Asbestos Type(s): None Detected

Micrograph Number:
EDXA Spectrum ID:

Note: Phila. Regulations Clearance Criteria is 0.00554 s/cc based on 5 samples.
Geometric Mean = 0.0041 Structures/cc

Please refer to the Appendix of this report for further information regarding your analysis.

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Date Analyzed: 10/11/2019
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

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Client: Synertech Inc.
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 10/11/2019
Report No.: 601742 - TEM AHERA
Project: Ben Franklin HS
Project No.: 010-4507

PRELIMINARY RESULTS
Airborne Asbestos Analysis
TEM AHERA

Client: OHCS Inc.
209 Catharine St.
Philadelphia, PA 19147

Client No.: OHC164

Batch No.: 601743
Project: BEN FRANKLIN
Project No.: _____
Philly Regs: Y
Turn-Around Time: 12 Hour Rush

Client Contacts:	Laboratory Contacts:
Contacts: _____	Contacts: Frank E. Ehrenfeld III
Phone: _____	Phone: (856) 231-9449
Fax: _____	Fax: (856) 231-9818
Cell/Pager: _____	Cell/Pager: (609) 929-4211
E-Mail: _____	E-Mail: frankehrenfeld@iatl.com

Chain of Custody:			
Samples Taken in Field: _____	Date: _____	Time: _____	
Samples Rec'd at Laboratory: <u>L. D'Ornellas</u>	Date: <u>10/11/2019</u>	Time: _____	
Samples Analyzed: <u>SC</u>	Date: <u>10/12/2019</u>	Time: _____	
Preliminary Results Faxed: _____	Date: _____	Time: _____	
Preliminary Results E-Mail: _____	Date: _____	Time: _____	

Summary Data
Transmission Electron Microscopy
AHERA 40CFR 763

Client Sample ID #	IATL Sample ID #	Volume (L)	Comments	Results s/mm ²	Results s/cc
01	6897176	1800	None Detected	< 19.2	< 0.0041
02	6897177	1800	None Detected	< 19.2	< 0.0041
03	6897178	1800	None Detected	< 19.2	< 0.0041
04	6897179	1800	None Detected	< 19.2	< 0.0041
05	6897180	1800	None Detected	< 19.2	< 0.0041

AHERA Clearance Criteria is 70 s/mm². Average (s/mm²) = 19.2
Phila. Regulations Clearance Criteria is 0.00554 s/cc Geo = 0.0041
Z Test Results (see attached, if applicable)

Grid Box #: 1755
Instrument (I, II, III) I

These preliminary results are issued by IATL to expedite procedures by the clients based upon the above data. IATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificates of Analysis will follow these preliminary results. The signed COAs are to be considered the official results.

Occupational Health Consultation Services
209 Catharine Street; Philadelphia, PA 19147
Cell: 215-407-3900 Office: 215-925-3870 Fax: 215-925-3872

J.Roseman@ohcs.net

serafino@ohcs.com

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CHAIN OF CUSTODY - Air Samples

CLIENT: PFT.	SITE: BEN FRANKLIN.
PROJECT #:	PAGE #: 1 OF 1
SAMPLED BY: TIM DALEY.	DATE: 10-11-19
CONTAMINANTS: ASBESTOS	ANALYSIS NEEDED BY: 12 HOUR.

AGGRESSIVE LEAF BLOWN

1. RTD.

1044
1044
1047
1047
1047

	SAMPLE #	VOLUME	TYPE	COMMENTS
1	101119 BEN 01	1800	TEM	INSIDE CONTAINMENT HALLWAY TENT. 18
2	101119 BEN 02	1800		INSIDE CONTAINMENT HALLWAY TENT. 18
3	101119 BEN 03	1800		OUT SIDE HALLWAY ELECTRICAL PANEL BY ROOM 20
4	101119 BEN 04	1800		OUT SIDE HALLWAY ENTRANCE TO ROOM 18
5	101119 BEN 05	1800		OUT SIDE HALLWAY ENTRANCE TO MAIN HALL
6				
7				
8				
9				
10				

6897176
1344
6897177
1344
6897178
1347
6897179
1347
6897180
1347

SAMPLE PACKAGED AND SEALED BY:

Tim Daley

DATE: TIME:

10-11-19

SENT TO:

IATL

CONDITION UPON RECEIPT (DAMAGED / UNDA MAGED):

Sedya.C

SC 10/11/19