

CERTIFICATE OF ANALYSIS

Client: Synertech Inc.
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 11/26/2019
Report No.: 605121 - TEM AHERA
Project: Benjamin Franklin HS
Project No.: 010-4507

TEM AIR SAMPLE ANALYSIS SUMMARY

Lab No.: 6926814
Client No.: ATS-11-26-01

Volume: 1800.0 L
Location: 19A Music Rm West
Date Sampled: 11/26/19

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

Lab No.: 6926815
Client No.: ATS-11-26-02

Volume: 1800.0 L
Location: 19B Music Rm West
Date Sampled: 11/26/19

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

Lab No.: 6926816
Client No.: ATS-11-26-03

Volume: 1800.0 L
Location: 19C Music Rm West
Date Sampled: 11/26/19

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

Lab No.: 6926817
Client No.: ATS-11-26-04

Volume: 1800.0 L
Location: In Containment Outside Music Rms
South
Date Sampled: 11/26/19

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

Lab No.: 6926818
Client No.: ATS-11-26-05

Volume: 1800.0 L
Location: In Containment Outside Music Rm
North
Date Sampled: 11/26/19

Density (s/mm²): <19.2
Concentration (s/cc): <0.0041
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.

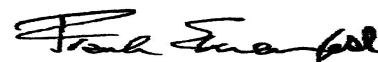
Date Received: 11/26/2019

Date Analyzed: 11/26/2019

Signature:

Analyst: Jhoon Jeon

Approved By:



Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Synertech Inc.
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 11/26/2019
Report No.: 605121 - TEM AHERA
Project: Benjamin Franklin HS
Project No.: 010-4507

Appendix to Analytical Report:

Customer Contact: Jacqueline McMahon
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.

CERTIFICATE OF ANALYSIS

Client: Synertech Inc.
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 11/26/2019
Report No.: 605121 - TEM AHERA
Project: Benjamin Franklin HS
Project No.: 010-4507

TEM AIR SAMPLE ANALYSIS DETAILS

Lab No.: 6926814
Client No.: ATS-11-26-01

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: 11/26/19
Location: 19A Music Rm West
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.: 6926815
Client No.: ATS-11-26-02

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: 11/26/19
Location: 19B Music Rm West
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.: 6926816
Client No.: ATS-11-26-03

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: 11/26/19
Location: 19C Music Rm West
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:

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

Date Received: 11/26/2019
Date Analyzed: 11/26/2019

Signature: 
Analyst: Jhoon Jeon

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Synertech Inc.
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 11/26/2019
Report No.: 605121 - TEM AHERA
Project: Benjamin Franklin HS
Project No.: 010-4507

TEM AIR SAMPLE ANALYSIS DETAILS

Lab No.: 6926817
Client No.: ATS-11-26-04

Volume (L): 1800.0 L
Date Sampled: 11/26/19
Location: In Containment Outside Music Rms
South

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.: 6926818
Client No.: ATS-11-26-05

Volume (L): 1800.0 L
Date Sampled: 11/26/19
Location: In Containment Outside Music Rm
North

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.

Date Received: 11/26/2019
Date Analyzed: 11/26/2019
Signature: 
Analyst: Jhoon Jeon

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Synertech Inc.
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 11/26/2019
Report No.: 605121 - TEM AHERA
Project: Benjamin Franklin HS
Project No.: 010-4507

Project: Benjamin Franklin HS Date: 11-26-19
Project Number: 010-4507 Rotometer No.: HVR / LVR
Laboratory: IATL Analysis: TEM Phila. Requirements: ☒ YES ☐ NO

AIR SAMPLE LOG & CHAIN OF CUSTODY

SAMPLES			TIME			CALIBRATION			ANALYTICAL	
No.	Location	Code	On	Off	Total	Start	Finish	Liters	Laboratory # Fibers/Fields	Results
ATS-26-01	19A music Room west	3A	10:26 AM	1:26 PM	180	10	10	1800	6926814	
ATS-26-02	19B music Room west	3A	10:26 AM	1:26 PM	180	10	10	1800	6926815	
ATS-26-03	19C music Room west	3A	10:26 AM	1:26 PM	180	10	10	1800	6926816	
ATS-26-04	19D music Room west	3A	10:26 AM	1:26 PM	180	10	10	1800	6926817	
ATS-26-05	19E music Room west	3A	10:26 AM	1:26 PM	180	10	10	1800	6926818	
ATS-26-06	19F music Room west	3A	10:26 AM	1:26 PM	180	10	10	1800	6926819	
ATS-26-07	19G music Room west	3A	10:26 AM	1:26 PM	180	10	10	1800	6926820	
ATS-26-08	19H music Room west	3A	10:26 AM	1:26 PM	180	10	10	1800	6926821	

Sampling Codes

- 1 Diagnostic
- 2 Preliminary
- 3 Clearance/Final
- 4 Personnel Work Area
- 5 Environmental Work Area
- 6 Personnel Clean Area
- 7 Environmental Clean Area

- A Aggressive
- N Normal
- E Excursion
- T TWA
- R Representative

Turnaround Time (TAT): ☐ Immediate ☒ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ Other

6 Hour TAT Contact: ERIC BOFF

Samples Collected By: Eric Boff

Transmitted to Lab By: Eric Boff

Received in Lab By: Eric Boff

Samples Analyzed By: Eric Boff

at: ERIC BOFF @ GO SYNERTECH

Date: 11-26-19

Date: 11-26-19

Date: 11-26-19

Date: 11-26-19

Eric Boff

Project: Benjamin Franklin H³ Date: 11-26-19
Project Number: 010-4507 Rotometer No.: HVR 1 LVR
Laboratory: IATL Analysis: PCM Phila. Requirements: ☒ YES ☐ NO

AIR SAMPLE LOG & CHAIN OF CUSTODY

SAMPLES			TIME			CALIBRATION			ANALYTICAL	
No.	Location	Code	On	Off	Total	Start	Finish	Liters	Laboratory # Fibers/Fields	Results
ATS- 26- 09	Outside contain ment near Room 16 Door North	3N	10:21 AM	11:21 PM	180	10	10	1800	6920822	
ATS 26- 10	Outside contain ment near poly Barrier & Hepa Unit	3N	10:21 AM	11:21 PM	180	10	110	1800	6920823	
ATS- 26- 11	QC Blank Field								6920824	
ATS- 26- 12	Do not analyze QC Blank Field								6920825	
ATS- 26- 13	Do not analyze QC Blank Sealed								6920826	
-										
-										
-										

Sampling Codes

- 1 Diagnostic
 - 2 Preliminary
 - 3 Clearance/Final
 - 4 Personnel Work Area
 - 5 Environmental Work Area
 - 6 Personnel Clean Area
 - 7 Environmental Clean Area
- A Aggressive
 - N Normal
 - E Excursion
 - T TWA
 - R Representative

Turnaround Time (TAT): ☐ Immediate ☒ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ Other

6 Hour TAT Contact: Eric Belfer at: _____
Samples Collected By: Andy Kelly Date: 11-26-19
Transmitted to Lab By: Andy Kelly Date: 11-26-19
Received in Lab By: _____ Date: _____
Samples Analyzed By: _____ Date: _____

PRELIMINARY RESULTS
Airborne Asbestos Analysis
TEM AHERA

Client: Synertech Inc.
228 Moore Street
Philadelphia, PA 19148
Client No.: SYN177

Batch No.: 605121
Project: Benjamin Franklin HS
Project No.: 010-4507
Philly Regs: Y
Turn-Around Time: 6 Hour Rush

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

Chain of Custody:					
Samples Taken in Field:	<u>Client</u>	Date:	<u>11/26/2019</u>	Time:	_____
Samples Rec'd at Laboratory:	<u>L. D'Ornellas</u>	Date:	<u>11/26/2019</u>	Time:	_____
Samples Analyzed:	<u>J. Jeon</u>	Date:	<u>11/26/2019</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
ATS-1126-01	6926814	1800	None Detected	< 19.2	< 0.0041
ATS-1126-02	6926815	1800	None Detected	< 19.2	< 0.0041
ATS-1126-03	6926816	1800	None Detected	< 19.2	< 0.0041
ATS-1126-04	6926817	1800	None Detected	< 19.2	< 0.0041
ATS-1126-05	6926818	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 #: 1794
Instrument (I, II, III) III

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.

Client Name: Synertech Inc.
Client Project #: 010-4507
Sample Type: **AHERA -Philly Regulations**
QC Submittal

Analysis Date:
11/26/19

IATL Sample #:	6926814
Client Sample #:	ATS-1126-01
IATL Grid Box #:	1794
Grid Archive ID #:	L3L5

Electron Microscope ID:		Filter Dia. (mm):	<u>25</u>	Magnification:	20,000X
		Effective Area (mm):	<u>385</u>		
III	JEOL, JEM-1230, EM18440033	Filter Type:	<u>MCE</u>	Accelerating Voltage:	100KeV
	EVEX	Filter Pore Size (µm):	0.45		

Grid Opening:	<u>0.115</u>	mm	Volume of Air Sampled:	<u>1800</u>	Liters
Grid opening Area:	<u>0.013</u>	mm ²			
Grid Openings Read/Required:	<u>4</u>	4	Analytical Sensitivity:	<u>19.2</u>	mm ²
Total Area Analyzed:	<u>0.0520</u>	mm ²	Minimum Detection Limit:	<u>0.0041</u>	s/cc

Total Asbestos Structures:	NSD	Non-Asbestos Structures:	NSD		
0.5µm - 5.0µm:	NSD				
>5.0µm:					
Asbestos:	< 19.2	s/mm ²	Non-Asbestos:	< 19.2	s/mm ²
Asbestos:	< 0.0041	s/cc	Non-Asbestos:	< 0.0041	s/cc

Analysis Data:

Grid Opening ID	Structure Number	Structure Type F/B/C/M	¹ Length 0.5 -5.0 µm	² Length > 5.0 µm	* Chrysotile	**Amphibole	***Non-Asbestos	Micrograph / EDS ID
L3 D4		NSD						
D5		NSD						
L5 D3		NSD						
D4		NSD						
Total:	NSD	NSD	0	0	0	0	0	

* Must confirm by Morphology, SAED, and EDXA for each suspect asbestos fiber
Record visible prominent Chrysotile DP reflections (002, 004, 110, 130, 220, 200)

** Define Amphibole (DP obtained Y/N). Print-out EDS and attach.

*** Characterize by EDS

1, 2 Record Structure Length & Width (μm)

SEE REVERSE: FIBER ORIENTATION MAP

Comments:

Prep Quality:

Dissolution	Good
Carbon Film	Good
Loading	2%

Analyzed By: J. Jeon

Reviewed By:

IATL Sample #:	6926815
Client Sample #:	ATS-1126-02
IATL Grid Box #:	1794
Grid Archive ID #:	L7L9

Total Asbestos Structures:	NSD	Non-Asbestos Structures:	NSD		
0.5µm - 5.0µm:	NSD				
>5.0µm:					
Asbestos:	< 19.2	s/mm ²	Non-Asbestos:	< 19.2	s/mm ²
Asbestos:	< 0.0041	s/cc	Non-Asbestos:	< 0.0041	s/cc

Grid Opening ID	Structure Number	Structure Type F/B/C/M	¹ Length 0.5 -5.0 µm	² Length > 5.0 µm	* Chrysotile	**Amphibole	***Non-Asbestos	Micrograph / EDS ID
L7 E5		NSD						
E6		NSD						
L9 F6		NSD						
F7		NSD						
Total:	NSD	NSD	0	0	0	0	0	

- | | |
|-------------|------|
| Dissolution | Good |
| Carbon Film | Good |
| Loading | 2% |

Reviewed By:

Client Name: Synertech Inc.
Client Project #: 010-4507
Sample Type: **AHERA -Philly Regulations**
QC Submittal

Analysis Date:
11/26/19

IATL Sample #:	6926816
Client Sample #:	ATS-1126-03
IATL Grid Box #:	1794
Grid Archive ID #:	M2M4

Electron Microscope ID:		Filter Dia. (mm):	<u>25</u>	Magnification:	20,000X
		Effective Area (mm):	<u>385</u>		
III	JEOL, JEM-1230, EM18440033 EVEX	Filter Type:	<u>MCE</u>	Accelerating Voltage:	100KeV
		Filter Pore Size (µm):	0.45		

Grid Opening:	0.115	mm	Volume of Air Sampled:	1800	Liters
Grid opening Area:	0.013	mm ²			
Grid Openings Read/Required:	4	4	Analytical Sensitivity:	19.2	mm ²
Total Area Analyzed:	0.0520	mm ²	Minimum Detection Limit:	0.0041	s/cc

Total Asbestos Structures:	<u>NSD</u>	Non-Asbestos Structures:	<u>NSD</u>
0.5µm - 5.0µm:	<u>NSD</u>		
>5.0µm:			
Asbestos:	<u>< 19.2</u>	s/mm ²	Non-Asbestos: <u>< 19.2</u>
Asbestos:	<u>< 0.0041</u>	s/cc	Non-Asbestos: <u>< 0.0041</u>
			s/cc

Analysis Data:

Grid Opening ID	Structure Number	Structure Type F/B/C/M	¹ Length 0.5 -5.0 µm	² Length > 5.0 µm	* Chrysotile	**Amphibole	***Non-Asbestos	Micrograph / EDS ID
M2 E4		NSD						
E5		NSD						
M4 F6		NSD						
F7		NSD						
Total:	NSD	NSD	0	0	0	0	0	

- * Must confirm by Morphology, SAED, and EDXA for each suspect asbestos fiber
Record visible prominent Chrysotile DP reflections (002 ,004, 110, 130, 220, 200)
- ** Define Amphibole (DP obtained Y/N). Print-out EDS and attach.
- *** Characterize by EDS

1, 2 Record Structure Length & Width (μm)

SEE REVERSE: FIBER ORIENTATION MAP

Comments:

Prep Quality:

Dissolution	Good
Carbon Film	Good
Loading	2%

Analyzed By: J. Jeon

Reviewed By:

IATL Sample #:	6926817
Client Sample #:	ATS-1126-04
IATL Grid Box #:	1794
Grid Archive ID #:	M6M8

Total Asbestos Structures:	NSD	Non-Asbestos Structures:	NSD
0.5µm - 5.0µm:	NSD		
>5.0µm:			
Asbestos:	< 19.2	s/mm ²	Non-Asbestos: < 19.2 s/mm ²
Asbestos:	< 0.0041	s/cc	Non-Asbestos: < 0.0041 s/cc

Grid Opening ID	Structure Number	Structure Type F/B/C/M	¹ Length 0.5 -5.0 µm	² Length > 5.0 µm	* Chrysotile	**Amphibole	***Non-Asbestos	Micrograph / EDS ID
M6 F3		NSD						
F4		NSD						
M8 F5		NSD						
F6		NSD						
Total:	NSD	NSD	0	0	0	0	0	

Dissolution	Good
Carbon Film	Good
Loading	2%

Analyzed By: J. Jeon
Reviewed By: _____

IATL Sample #:	6926818
Client Sample #:	ATS-1126-05
IATL Grid Box #:	1794
Grid Archive ID #:	M10N1

Total Asbestos Structures:	NSD	Non-Asbestos Structures:	NSD		
0.5µm - 5.0µm:	NSD				
>5.0µm:					
Asbestos:	< 19.2	s/mm ²	Non-Asbestos:	< 19.2	s/mm ²
Asbestos:	< 0.0041	s/cc	Non-Asbestos:	< 0.0041	s/cc

Grid Opening ID	Structure Number	Structure Type F/B/C/M	¹ Length 0.5 -5.0 µm	² Length > 5.0 µm	* Chrysotile	**Amphibole	***Non-Asbestos	Micrograph / EDS ID
M10 D4		NSD						
D5		NSD						
N1 E4		NSD						
E5		NSD						
Total:	NSD	NSD	0	0	0	0	0	

Dissolution	Good
Carbon Film	Good
Loading	2%

Analyzed By: J. Jeon
Reviewed By: _____

PRELIMINARY RESULTS
Airborne Asbestos Analysis
TEM AHERA

Client: OHCS Inc.
209 Catharine St.
Philadelphia, PA 19147
Client No.: OHC164

Batch No.: 605122
Project: Ben Franklin
Project No.: Music Rooms 19A 19B 19C
Philly Regs: Y
Turn-Around Time: 12 Hour

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

Chain of Custody:			
Samples Taken in Field:	<u>Client</u>	Date: <u>11/26/2019</u>	Time: _____
Samples Rec'd at Laboratory:	<u>L. D'Ornellas</u>	Date: <u>11/26/2019</u>	Time: _____
Samples Analyzed:	<u>J. Jeon</u>	Date: <u>11/26/2019</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
112619BEN01	6926827	1800	None Detected	< 19.2	< 0.0041
112619BEN02	6926828	1800	None Detected	< 19.2	< 0.0041
112619BEN03	6926829	1800	None Detected	< 19.2	< 0.0041
112619BEN04	6926830	1800	None Detected	< 19.2	< 0.0041
112619BEN05	6926831	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 #: 1794
Instrument (I, II, III) III

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.

PRELIMINARY RESULTS
Airborne Asbestos Analysis
TEM AHERA

Client: OHCS Inc.
209 Catharine St.
Philadelphia, PA 19147
Client No.: OHC164

Batch No.: 605122
Project: Ben Franklin
Project No.: Music Rooms 19A 19B 19C
Philly Regs: Y
Turn-Around Time: 12 Hour

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

Chain of Custody:			
Samples Taken in Field:	<u>Client</u>	Date: <u>11/26/2019</u>	Time: _____
Samples Rec'd at Laboratory:	<u>L. D'Ornellas</u>	Date: <u>11/26/2019</u>	Time: _____
Samples Analyzed:	<u>J. Jeon</u>	Date: <u>11/26/2019</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
112619BEN06	6926832	1800	None Detected	< 19.2	< 0.0041
112619BEN07	6926833	1800	None Detected	< 19.2	< 0.0041
112619BEN08	6926834	1800	None Detected	< 19.2	< 0.0041
112619BEN09	6926835	1800	None Detected	< 19.2	< 0.0041
112619BEN10	6926836	1800	None Detected	< 19.2	< 0.0041

AHERA Clearance Criteria is 70 s/mm² .	Average (s/mm ²) = <u>19.2</u>	Grid Box #: <u>1794</u>
Phila. Regulations Clearance Criteria is 0.00554 s/cc	Geo = 0.0041	
Z Test Results (see attached, if applicable)		Instrument (I, II, III) <u>III</u>

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.

OHCS Inc.

Occupational Health Consultation Services

209 Catharine Street, Philadelphia, PA 19147

Cell: 215-407-3900 Office: 215-925-3870 Fax: 215-925-3872

JRoseman@ohcs.net

dentalinfo@ohcs.com

CHAIN OF CUSTODY - Air Samples

CLIENT: PFT	SITE: BEN FRANKLIN
PROJECT #: MUSIC ROOMS 19A 19B 19C	PAGE #: 1 OF 1
SAMPLED BY: TIM DAVEY	DATE: 11-26-19
CONTAMINANTS: ASBESTOS	ANALYSIS NEEDED BY: 12 HOUR

ASBESTOS LATE BROWN

2.0 FD'S

	SAMPLE #	VOLUME	TYPE	COMMENTS	10 LPM
1024	112619 BEN01	1800	TEM	INSIDE CONTAINMENT MUSIC ROOM 19A	6926827
1027	112619 BEN02	1800		INSIDE CONTAINMENT MUSIC ROOM 19B	6926828
1028	112619 BEN03	1800		INSIDE CONTAINMENT MUSIC ROOM 19C	6926829
1028	112619 BEN04	1800		INSIDE CONTAINMENT MUSIC ROOM	6926830
1028	112619 BEN05	1800		INSIDE CONTAINMENT MUSIC ROOM	6926831
1021	112619 BEN06	1800		OUT SIDE MUSIC ROOM DECON: CLEAN ROOM	6926832
1021	112619 BEN07	1800		OUT SIDE MUSIC ROOM HALLWAY	6926833
1022	112619 BEN08	1800		OUT SIDE MUSIC ROOMS HALLWAY POLY BARRIER	6926834
1023	112619 BEN09	1800		OUT SIDE ROOM 16 ENTRANCE	6926835
1023	112619 BEN10	1800	✓	OUT SIDE ROOM 16 CENTER	6926836

SAMPLE PACKAGED AND SEALED BY:

DATE: 11-26-19 TIME:

SENT TO: IATL

CONDITION UPON RECEIPT (DAMAGED / UNDAIMAGED)