



TTI ENVIRONMENTAL, INC
Consulting & Contracting

1253 North Church Street, Moorestown, NJ 08057
www.ttienv.com o 856-840-8800 f 856-840-8815

October 4, 2017

Mr. Stephen J. Brennan, MBA, CPA
Business Administrator/Board Secretary
Pinelands Regional School District
520 Nugentown Road, Little Egg Harbor, New Jersey 08087

Reference: Asbestos Air Monitoring - Pinelands Regional High School
TTI Project No. 17-1224

Dear Mr. Brennan:

In response to your request, TTI Environmental, Inc. (TTI) performed asbestos air sampling at the above referenced location on October 3, 2017. The air samples were collected as a result of a roofing project that may have potentially contaminated the indoor space. Air samples were collected throughout the building to verify asbestos concentrations within the building. All air sampling was performed by a New Jersey Licensed Asbestos Safety Technician who conducted the sampling using aggressive methods (fans/leaf blowers) to agitate any fibers that may have settled. Samples were analyzed via Transmission Electron Microscopy (TEM).

TEM analysis represents the most sophisticated technology available for characterizing asbestos minerals. This technique is now the standard for most airborne investigations including post abatement clearance testing as well as diagnostic and environmental monitoring activities. Using magnifications routinely at 20,000X or greater and employing powerful chemical (EDXA) and mineralogical (SAEDP) tools, the TEM can differentiate, not only asbestos from non-asbestos fibers, but also can classify the several species that comprise asbestos minerals.

The following project summary details events, applicable test results and observations.

PROJECT SUMMARY

TABLE 1 - ASBESTOS AIR SAMPLING – 10/3/17				
DATE	EVENT	LOCATION	ASBESTOS STRUCTURES	TESTING RESULT
10/03/17	Asbestos TEM Air Sampling	1. Hallway by Exit 30	None Detected	<13.0 s/mm ² by TEM
		2. Hallway by Room 175	None Detected	<13.0 s/mm ² by TEM
		3. Hallway by Front Stage	None Detected	<13.0 s/mm ² by TEM
		4. Hallway by Custodial Elec Svc	None Detected	<13.0 s/mm ² by TEM
		5. Hallway by 164	N/A	Overloaded
		6. Hallway by Student Svcs. Ofc	None Detected	<16.0 s/mm ² by TEM
		7. Hallway by Defibrillator	None Detected	<16.0 s/mm ² by TEM
		8. Hallway by Attendance Ofc	None Detected	<16.0 s/mm ² by TEM
		9. Hallway by Cafeteria Entrance	None Detected	<16.0 s/mm ² by TEM
		10. Hallway by Head Custodian Ofc	None Detected	<16.0 s/mm ² by TEM
		11. Hallway by Rm 169	None Detected	<16.0 s/mm ² by TEM
		12. Hallway by Rm 171	1	16.0 s/mm ² by TEM
		13. Print Shop Rm 176	None Detected	<8.7 s/mm ² by TEM
		14. Rm 177-Art Graphics	None Detected	<8.7 s/mm ² by TEM
		15. Hallway by Rm 176	None Detected	<8.7 s/mm ² by TEM
		16. Rm 179	None Detected	<7.9 s/mm ² by TEM
		17. Hallway by Room 179	None Detected	<7.9 s/mm ² by TEM
		18. Rm 167	None Detected	<7.9 s/mm ² by TEM
s/mm ² = structures per millimeter squared; TEM = Transmission Electron Microscopy. AHERA/NJDCA Clearance Standard - < 70 structures/millimeter ² . (s/mm ²) by TEM				



A total of 18 samples were collected from the Pinelands Regional High School on October 3, 2017. Of the 18 samples collected, 16 were non-detected for asbestos fibers, one (1) sample was overloaded with non-asbestos roofing debris from the on-going project and could not be analyzed, and one (1) sample had one (1) asbestos fiber detected, which could be considered background levels.

Additional air sampling was performed on October 4, 2017, utilizing the same aggressive air sampling methods with TEM analysis. A total of 13 samples were collected and analyzed. No asbestos fibers were detected in any of the additional 13 samples.

All asbestos air samples collected were below the Federal Asbestos Hazard Emergency Response Act (AHERA) and New Jersey Department of Community Affairs (NJDEA) asbestos abatement final clearance air sampling limit for re-occupancy of < 70 structures per millimeter by Transmission Electron Microscopy (TEM).

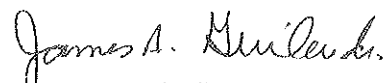
The laboratory analytical reports are attached to this report.

TABLE 2 - ASBESTOS AIR SAMPLING 10/4/17				
DATE	EVENT	LOCATION	ASBESTOS STRUCTURES	TESTING RESULT
10/04/17	Asbestos TEM Air Sampling	19. In Room 171	None Detected	<16.0 s/mm ² by TEM
		20. In Room 169	None Detected	<16.0 s/mm ² by TEM
		21. In Room 165	None Detected	<16.0 s/mm ² by TEM
		22. In Room 175	None Detected	<16.0 s/mm ² by TEM
		23. In Room 166	None Detected	<16.0 s/mm ² by TEM
		24. In Room 164	None Detected	<13.0 s/mm ² by TEM
		25. In Auditorium	None Detected	<13.0 s/mm ² by TEM
		26. In Atrium	None Detected	<13.0 s/mm ² by TEM
		27. By Hall & 2 nd Fl Rm 250	None Detected	<13.0 s/mm ² by TEM
		28. 3 rd Fl/Hall by Elect Room	None Detected	<13.0 s/mm ² by TEM
		29. In Cafeteria	None Detected	<16.0 s/mm ² by TEM
		30. Hall by B156	None Detected	<13.0 s/mm ² by TEM
		31. In Gym	None Detected	<16.0 s/mm ² by TEM
s/mm ² = structures per millimeter squared; TEM = Transmission Electron Microscopy. AHERA/NJDCA Clearance Standard - < 70 structures/millimeter ² . (s/mm ²) by TEM				

If you should have any questions or require additional information, please feel free to contact me at any time.

Sincerely,

TTI ENVIRONMENTAL, INC.


James A. Guillard
Senior Project Manager



ASBESTOS AIR SAMPLING ANALYSIS RESULTS



1253 North Church Street, Moorestown, NJ 08057
856-840-8800 Fax 856-840-8815

SAMPLING DATA AND CHAIN OF CUSTODY RECORD

PCM

TEM

(Circle One)

PRES

DURINGS

POST

20-023642

PROJECT #: 17-1224

CLIENT: Ave/Ardsley, H.S.

TEI PROJECT MANAGER: Gullardi O Stocku O Seaman

SAMPLER(S): J. Degea

FACILITY: H.S. Hallway

SAMPLING DATE: 10/3/17

SAMPLE #	PUMP #	SAMPLE LOCATION	TIMES			FLOW RATE			TOTAL VOLUME	FIBER COUNT (fibers/field)	FIBER DENSITY (fibers/m ²)	FIBER CONCENTRATION (fibers/cc)
			START	STOP	TOTAL	INITIAL	FINAL	AVERAGE				
01	31	HALLWAY by EXT 30.	8:45	10:45	120	10	10	10	1200			
02	35	HALLWAY by ROOM 175	8:46	10:46	120	10	10	10	1200			
03	40	HALLWAY by FRONT STAGE 8-41	10:47	120	10	10	10	10	1200			
04	41	HALLWAY by CUSTODIAN 8-41	10:47	120	10	10	10	10	1200			
05	50	HALLWAY by 16425	8:48	10:48	120	10	10	10	1200			
06	61	HALLWAY by 16425	10:49	12:49	122	10	10	10	1220			
07	22	HALLWAY by 16425	10:46	12:50	124	10	10	10	1240			
08	19	HALLWAY by 16425	10:49	12:52	125	10	10	10	1250			
09	18	HALLWAY by 16425	10:49	12:54	127	10	10	10	1270			
10	17	HALLWAY by 16425	10:49	12:56	128	10	10	10	1280			
11	3	HALLWAY by 16425	11:38	12:49	149	10	10	10	1490			
12	4	HALLWAY by 16425	11:30	12:48	148	10	10	10	1480			
13	8	RESTROOM RM 176	12:03	14:14	71	10	10	10	710			

RECEIVED
EMSL
CINNAMILNOSH, N.J.
OCT 3 2017

Relinquished by: (Signature)

Date: 10/3/17

Received by: (Signature)

Date: 10/3/17

Comments:
e-mail all results and COC to:
in-lab@ttienv.com

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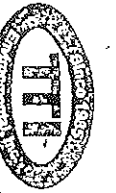
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Analyst: (Signature)



1253 North Church Street, Moorestown, NJ 08057
856-840-8800 Fax 856-840-8815

ChR.

041728916

SAMPLING DATA AND CHAIN OF CUSTODY RECORD

PCM TEM (Circle One) PRES DURINGS POST

TTI PROJECT MANAGER: ☒ Gullardi ☐ Stocku ☐ Seaman

SAMPLING DATE: 10/31/17

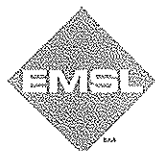
PROJECT #: 17-1224 CLIENT: Duels Reg. 45

SAMPLERS(S): J. Orgera FACILITY: H.S. - HALLWAYS

SAMPLE #	PUMP #	SAMPLE LOCATION	TIMES			FLOW RATE			TOTAL VOLUME	FIBER COUNT (fibers/field)	FIBER DENSITY (1/mm ²)	FIBER CONCENTRATION (fibers/cc)
			START	STOP	TOTAL	INITIAL	FINAL	AVERAGE				
14	50	Rm. 177 - ART Graphics	12:04	1:05	71	10	10	10	710			
15	41	HALLWAY by Rm. 176	12:25	1:38	71	10	10	10	710			
16	40	Rm. 179	12:31	1:38	67	10	10	10	670			
17	35	HALLWAY by Rm. 179	12:33	1:40	67	10	10	10	670			
18	31	Rm. 167	12:37	1:41	64	10	10	10	640			
19		Blank										
20		Blank										

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CINNAMINSON, N.J.
2017 OCT -3 P 8:25

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Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	e-mail all results and COC to: in-lab@ttienv.com
Analyst: (Signature)	Date:	Time:	Rotameter #: TTE 4	PO #: 0236642	Turn Around Time: 6 hr	
			Filter Manufacturer: ZETON	FOR TEM ANALYSIS ONLY. DO NOT ANALYZE BLANKS		
			Lot #: 48040			

**EMSL Analytical, Inc.**

200 Route 130 North Cinnaminson, NJ 08077
 Tel/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 041728916

Customer ID: TTIE54

Customer PO: 023642

Project ID:

Attention: Jim Guilardi

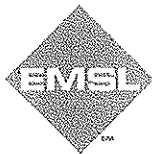
TTI Environmental Inc.
 1253 North Church Street
 Moorestown, NJ 08057

Phone: (856) 840-8800**Fax:** (856) 840-8815**Received Date:** 10/03/2017 5:25 PM**Analysis Date:** 10/03/2017**Collected Date:** 10/03/2017**Project:** 17-1224 / Pinelands Reg HS / HS Hallways & Classrooms

**Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by
 EPA 40 CFR Part 763 Appendix A to Subpart E**

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5μ < 5μ ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
01	Hallway by Exit 30	1200.00	0.0762	0	None Detected		0.0042	<13.00	<0.0042
041728916-0001									
02	Hallway by Room 175	1200.00	0.0762	0	None Detected		0.0042	<13.00	<0.0042
041728916-0002									
03	Hallway by Front Stage	1200.00	0.0762	0	None Detected		0.0042	<13.00	<0.0042
041728916-0003									
04	Hallway by Custodial Elec Svc	1200.00	0.0762	0	None Detected		0.0042	<13.00	<0.0042
041728916-0004									
05	Hallway by 164	1200.00			Overloaded				N/A
041728916-0005									
>10% particulate loading									
06	Hallway near Student Svcs Ofc	1220.00	0.0635	0	None Detected		0.0050	<16.00	<0.0050
041728916-0006									
07	Hallway by Defibrillator	1240.00	0.0635	0	None Detected		0.0049	<16.00	<0.0049
041728916-0007									
08	Hallway by Attendance Ofc	1250.00	0.0635	0	None Detected		0.0049	<16.00	<0.0049
041728916-0008									
09	Hallway by Cafeteria Entrance	1270.00	0.0635	0	None Detected		0.0048	<16.00	<0.0048
041728916-0009									
10	Hallway by Head Custodian Ofc	1280.00	0.0635	0	None Detected		0.0047	<16.00	<0.0047
041728916-0010									
11	Hallway by Rm 169	1490.00	0.0635	0	None Detected		0.0041	<16.00	<0.0041
041728916-0011									
12	Hallway by Rm 171	1480.00	0.0635	0	Chrysotile	0 1	0.0041	16.00	0.0041
041728916-0012									
13	Print Shop Rm 176	710.00	0.1140	0	None Detected		0.0047	<8.70	<0.0047
041728916-0013									
14	Rm 177-Art Graphics	710.00	0.1140	0	None Detected		0.0047	<8.70	<0.0047
041728916-0014									

Initial report from: 10/03/2017 23:19:23

**EMSL Analytical, Inc.**

200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 041728916
Customer ID: TTIE54
Customer PO: 023642
Project ID:

Attention: Jim Guilardi
TTI Environmental Inc.
1253 North Church Street
Moorestown, NJ 08057

Phone: (856) 840-8800
Fax: (856) 840-8815
Received Date: 10/03/2017 5:25 PM
Analysis Date: 10/03/2017
Collected Date: 10/03/2017

Project: 17-1224 / Pinelands Reg HS / HS Hallways & Classrooms

**Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by
EPA 40 CFR Part 763 Appendix A to Subpart E**

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5μ ≥5μ		(S/mm ²)	(S/cc)
15	Hallway by Rm 176	710.00	0.1140	0	None Detected			0.0047	<8.70	<0.0047
041728916-0015										
16	Rm 179	670.00	0.1270	0	None Detected			0.0045	<7.90	<0.0045
041728916-0016										
17	Hallway by Rm 179	670.00	0.1270	0	None Detected			0.0045	<7.90	<0.0045
041728916-0017										
18	Rm 167	640.00	0.1270	0	None Detected			0.0047	<7.90	<0.0047
041728916-0018										

Analyst(s)

Debbie Little (8)

Wayne Froehlich (10)

Benjamin Ellis, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 10/03/2017 23:19:23



1253 North Church Street, Moorestown, NJ 08057
856-840-8800 Fax 856-840-8815

041724983

SAMPLING DATA AND CHAIN OF CUSTODY RECORD

PCM (TEM) (Circle One) PRES DURING POST

PO. 023649

TTI PROJECT MANAGER: ☒ Gulari ☐ Stock ☐ Seaman

PROJECT #: 17-1244 CLIENT: Phelands Fea. H.S. TTI PROJECT MANAGER: ☒ Gulari ☐ Stock ☐ Seaman
SAMPLER(S): 68922 CLIENT CONTACT: Bob P. Phelands H.S. FACILITY: Phelands H.S. SAMPLING DATE: 10/4/17

SAMPLE #	PUMP #	SAMPLE LOCATION	TIMES				FLOW RATE				TOTAL VOLUME	FIBER COUNT (fibers/field)	FIBER DENSITY (fibers/m ³)	FIBER CONCENTRATION (fibers/cc)
			START	STOP	TOTAL	INITIAL	FINAL	AVERAGE						
21	25	IN ROOM 171	7:45	9:50		10	10	10						
22	41	IN ROOM 169	7:45	9:54		10	10	10						
23	31	IN ROOM 165	7:48	9:04		10	10	10						
24	61	IN ROOM 125	7:50	9:59		10	10	10						
25	40	IN ROOM 166	7:55	10:02		10	10	10						
26	22	IN ROOM 164	7:58	9:46		10	10	10						
27	8	IN AUDITORIUM	7:59	10:08		10	10	10						
28	50	IN ATRIUM	8:03	10:10		10	10	10						
29	19	by hand Fl. RM 250	8:10	10:13		10	10	10						
30	4	3rd FL Hall by Elect. RM	8:14	10:15		10	10	10						
31	17	IN CAFETERIA	8:18	10:22		10	10	10						
32	18	Hall by B156	8:20	10:20		10	10	10						
33	3	IN GYM	8:24	10:28		10	10	10						

RECEIVED
EMSL
CINNAMINSON, N.J.
2017 OCT - 4 P 12:23

Relinquished by: (Signature)	Date: <u>10/4/17</u>	Time: <u>12:20 PM</u>	Received by: (Signature)	Date: <u>10/4/17</u>	Time: <u>12:20 PM</u>
Relinquished by: (Signature)	Date: <u>10/4/17</u>	Time: <u>12:20 PM</u>	Received by: (Signature)	Date: <u>10/4/17</u>	Time: <u>12:20 PM</u>
Analyst: (Signature)	Date: <u>10/4/17</u>	Time: <u>12:20 PM</u>	Rotameter #: <u>TT14</u>	Filter Manufacturer: <u>2EFOD</u>	Lot #: <u>48040</u>

PO # 023649
Turn Around Time: 3hr
FOR TEM ANALYSIS ONLY. DO NOT ANALYZE BLANKS

Comments:
e-mail all results and COC to:
jth-lab@ttienv.com

1564

**EMSL Analytical, Inc.**

200 Route 130 North Cinnaminson, NJ 08077
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<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 041728983

Customer ID: TTIE54

Customer PO: 023642

Project ID:

Attention: Jim Guilardi

TTI Environmental Inc.

1253 North Church Street

Moorestown, NJ 08057

Phone: (856) 840-8800

Fax: (856) 840-8815

Received Date: 10/04/2017 12:20 PM

Analysis Date: 10/04/2017

Collected Date: 10/04/2017

Project: 17-1244 / Pinelands Reg. H.S.

**Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by
 EPA 40 CFR Part 763 Appendix A to Subpart E**

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5μ < 5μ ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
21	In Room 171	1250.00	0.0635	0	None Detected		0.0049	<16.00	<0.0049
041728983-0001									
22	In Room 169	1280.00	0.0635	0	None Detected		0.0047	<16.00	<0.0047
041728983-0002									
23	In Room 165	1360.00	0.0635	0	None Detected		0.0045	<16.00	<0.0045
041728983-0003									
24	In Room 175	1290.00	0.0635	0	None Detected		0.0047	<16.00	<0.0047
041728983-0004									
25	In Room 166	1270.00	0.0635	0	None Detected		0.0048	<16.00	<0.0048
041728983-0005									
26	In Room 164	1080.00	0.0762	0	None Detected		0.0047	<13.00	<0.0047
041728983-0006									
27	In Auditorium	1280.00	0.0762	0	None Detected		0.0039	<13.00	<0.0039
041728983-0007									
28	In Atrium	1070.00	0.0762	0	None Detected		0.0047	<13.00	<0.0047
041728983-0008									
29	By Hall and 2nd Fl. Rm 250	1200.00	0.0762	0	None Detected		0.0042	<13.00	<0.0042
041728983-0009									
30	3rd Fl Hall by Elct. Rm	1210.00	0.0762	0	None Detected		0.0042	<13.00	<0.0042
041728983-0010									
31	In Cafeteria	1300.00	0.0635	0	None Detected		0.0047	<16.00	<0.0047
041728983-0011									
32	Hall by B156	1200.00	0.0762	0	None Detected		0.0042	<13.00	<0.0042
041728983-0012									
33	In Gym	1240.00	0.0635	0	None Detected		0.0049	<16.00	<0.0049
041728983-0013									

Initial report from: 10/04/2017 15:47:43

ASB_TEMAHERA_0004 Printed: 10/4/2017 3:47:47PM

Page 1 of 2

**EMSL Analytical, Inc.**

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<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 041728983
Customer ID: TTIE54
Customer PO: 023642
Project ID:

Attention: Jim Guilardi
TTI Environmental Inc.
1253 North Church Street
Moorestown, NJ 08057

Phone: (856) 840-8800
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Received Date: 10/04/2017 12:20 PM
Analysis Date: 10/04/2017
Collected Date: 10/04/2017

Project: 17-1244 / Pinelands Reg. H.S.

**Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by
EPA 40 CFR Part 763 Appendix A to Subpart E**

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5μ < 5μ ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
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Analyst(s)

Essie Spencer (5)

Wayne Froehlich (8)

Benjamin Ellis, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 10/04/2017 15:47:43