



Guzek Associates, Inc.

**Mechanical, Electrical, Structural,
Environmental, and Architectural Engineering**

**Phone: (570) 586-9700
Fax: (570) 586-6728
Email: guzekassoc@aol.com**

**401 DAVIS STREET
CLARKS SUMMIT, PA 18411-1837**

February 7, 2020

Mr. Paul Dougherty
Director of Operations
Scranton School District
425 North Washington Avenue
Scranton, PA 18503

Reference: Francis Willard Elementary School – **Air Quality Clearance Testing**

- Basement, 3-yr Old Preschool
- 2nd Floor, 2nd Floor, Room 212

Dear Mr. Dougherty,

On February 5, 2020, Guzek Associates, Inc. (GAI) performed asbestos clearance air sampling. All samples were analyzed by EMSL using Transmission Electron Microscopy (TEM). GAI required the more expensive TEM analysis in this case due to the unknown extent of remedial activity performed during the asbestos stabilization procedures by Datom Products, Dunmore, on February 5, 2020.

Sampling was conducted to verify that the above referenced areas were suitable for occupancy and resumption of normal activities based on EPA's Asbestos Hazard Emergency response Act (AHERA) standards. The AHERA standard for Final Clearance of an area for occupancy and resumption of normal activities following an asbestos abatement project in that area is less than 70 structures (asbestos fibers) per square millimeter (S/mm²) when all samples in the regulated area are averaged together.

The asbestos repair procedure performed within this school building consisted of stabilization of localized areas on plastered wall and ceiling surfaces with a bridging encapsulant.

Below are sampled areas with the following number of samples collected from each area:

Basement: 3-yr Old Preschool room - five samples collected

Second Floor: 2nd Floor, Room 212 - five samples collected

At each sample location, Guzek Associates performed asbestos air sampling utilizing a high volume vacuum pump attached to TEM cassettes. Each pump at each sample location was calibrated immediately prior to and immediately following sample collection.

Aggressive sampling techniques were used for each regulated area: each regulated area was blown out with a standard leaf blower immediately prior to sampling in the area. This procedure was performed to agitate and render airborne any stagnant asbestos fibers lying on surfaces or trapped in crevasses, if present.

Samples were collected for approximately two (2) hours at an airflow rate of 10.0 liters per minute (lpm). All asbestos TEM samples sent next day Federal Express to an accredited laboratory for analysis with a 6-hour turnaround time.

The TEM test report is attached to this report.

Report Summary:

No structures (asbestos fibers) were detected in the 3-yr Old Preschool room.

No structures (asbestos fibers) were detected in the 2nd Floor, Room 212.

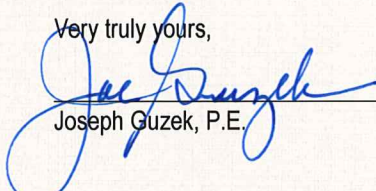
Based on these results, and according to AHERA regulations, the above areas sampled in the Francis Willard Elementary school are considered to be safe for occupancy and resumption of normal activities.

Analytical Methodologies:

All TEM air samples were collected and analyzed in accordance with all AHERA requirements. TEM analyses were performed by EMSL Analytical, Inc. located in Cinnaminson, NJ.

Should you have any questions on this report, please feel free to call me.

Very truly yours,


Joseph Guzek, P.E.

Attachments:

Chain-of-Custodies (2 pages)
TEM Results (2 pages)

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

042003154

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675

FAX: (856) 786-5974

Company Name : Guzek Associates, Inc		EMSL Customer ID:	
Street: 401 Davis Street		City: Clarks Summit	State/Province: PA
Zip/Postal Code: 18411	Country: US	Telephone #: 5705869700	Fax #: 570-586-6728
Report To (Name): Joseph Guzek		Please Provide Results: ☐ Fax ☒ Email	
Email Address: guzekassoc@aol.com		Purchase Order:	
Project Name/Number: Base 550 20-705 Willow		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: PA		CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt	
EMSL-Bill to: ☐ Same ☒ Different - If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party			
Turnaround Time (TAT) Options* - Please Check			
☐ 3 Hour ☒ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week			
*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
PCM - Air ☐ Check if samples are from NY ☐ NIOSH 7400 ☐ w/ OSHA 8hr. TWA		TEM - Air ☐ 4-4.5hr TAT (AHERA only) ☒ AHERA 40 CFR, Part ☐ 763 NIOSH 7402 ☐ EPA Level II ☐ ISO 10312	
PLM - Bulk (reporting limit) ☐ PLM EPA 600/R-93/116 (<1%) ☐ PLM EPA NOB (<1%) Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%) Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%) ☐ NYS 198.1 (friable in NY) ☐ NYS 198.6 NOB (non-friable-NY) ☐ NYS 198.8 SOF-V ☐ NIOSH 9002 (<1%)		TEM - Bulk ☐ TEM EPA NOB ☐ NYS NOB 198.4 (non-friable-NY) ☐ Chatfield SOP ☐ TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm ☐ Waste ☐ Drinking All Fiber Sizes ☐ Waste ☐ Drinking	
TEM - Dust ☐ Microvac - ASTM D 5755 ☐ Wipe - ASTM D6480 ☐ Carpet Sonication (EPA 600/J-93/167)		Soil/Rock/Vermiculite ☐ PLM EPA 600/R-93/116 with milling prep (<1%) ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%) ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%) ☐ TEM Qualitative via Filtration Prep ☐ TEM Qualitative via Drop Mount Prep ☐ Cincinnati Method EPA 600/R-04/004 - PLM/TEM (BC only)	
☐ Check For Positive Stop - Clearly Identify Homogenous Group		Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm	
Samplers Name: Brent Tripp, Gary Manstara		Samplers Signature: <i>Brent Tripp</i>	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
Will-3yr-01	Basement, 3yr Old Preschool	1,220	2/5/20 4:01
Will-3yr-02	Basement, 3yr Old Preschool	1,220	2/5/20 4:01
Will-3yr-03	Basement, 3yr Old Preschool	1,220	2/5/20 4:01
Will-3yr-04	Basement, 3yr Old Preschool	1,210	2/5/20 4:02
Will-3yr-05	Basement, 3yr Old Preschool	1,215	2/5/20 4:02
Client Sample # (s): 01-05		Total # of Samples: 5	
Relinquished (Client): <i>B. Manstara</i>		Date: 2/5/2020	Time: 6:15pm
Received (Lab): <i>[Signature]</i>		Date: 2/6/20	Time: 10 am
Comments/Special Instructions:			

58



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: 042003154
Customer ID: CLAG50
Customer PO:
Project ID:

Attention: Joseph Guzek
Guzek Associates, Inc.
401 Davis Street
Clarks Summit, PA 18411

Phone: (570) 586-9700
Fax: (570) 586-6728
Received Date: 02/06/2020 10:00 AM
Analysis Date: 02/06/2020
Collected Date: 02/05/2020

Project: 55D20-705 / Willard

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)
WILL-3yr-01	Basement, 3yr Old Preschool	1220.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
042003154-0001										
WILL-3yr-02	Basement, 3yr Old Preschool	1220.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
042003154-0002										
WILL-3yr-03	Basement, 3yr Old Preschool	1220.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
042003154-0003										
WILL-3yr-04	Basement, 3yr Old Preschool	1210.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
042003154-0004										
WILL-3yr-05	Basement, 3yr Old Preschool	1215.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
042003154-0005										

Analyst(s)

Sandy Burany, Ph.D (5)

Samantha Rundstrom, 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, LA #04127

Initial report from: 02/06/2020 14:30 PM



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

042003157

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675

FAX: (856) 786-5974

Company Name: Guzek Associates, Inc		EMSL Customer ID:	
Street: 401 Davis Street		City: Clarks Summit	State/Province: PA
Zip/Postal Code: 18411	Country: US	Telephone #: 5705869700	Fax #: 570-586-6728
Report To (Name): Joseph Guzek		Please Provide Results: ☐ Fax ☒ Email	
Email Address: guzekassoc@aol.com		Purchase Order:	
Project Name/Number: SSD 20-705 Willard		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: PA		CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt	
EMSL-Bill to: ☐ Same ☒ Different - If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party			
Turnaround Time (TAT) Options* - Please Check			
☐ 3 Hour ☒ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week			
*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
PCM - Air ☐ Check if samples are from NY ☐ NIOSH 7400 ☐ w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) ☐ PLM EPA 600/R-93/116 (<1%) ☐ PLM EPA NOB (<1%) Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%) Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%) ☐ NYS 198.1 (friable in NY) ☐ NYS 198.6 NOB (non-friable-NY) ☐ NYS 198.8 SOF-V ☐ NIOSH 9002 (<1%)		TEM - Air ☐ 4-4.5hr TAT (AHERA only) ☒ AHERA 40 CFR, Part ☐ 763 NIOSH 7402 ☐ EPA Level II ☐ ISO 10312 TEM - Bulk ☐ TEM EPA NOB ☐ NYS NOB 198.4 (non-friable-NY) ☐ Chatfield SOP ☐ TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm ☐ Waste ☐ Drinking All Fiber Sizes ☐ Waste ☐ Drinking	
TEM - Dust ☐ Microvac - ASTM D 5755 ☐ Wipe - ASTM D6480 ☐ Carpet Sonication (EPA 600/J-93/167)		Soil/Rock/Vermiculite ☐ PLM EPA 600/R-93/116 with milling prep (<1%) ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%) ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%) ☐ TEM Qualitative via Filtration Prep ☐ TEM Qualitative via Drop Mount Prep ☐ Cincinnati Method EPA 600/R-04/004 - PLM/TEM (BC only) Other: ☐	
☐ Check For Positive Stop - Clearly Identify Homogenous Group		Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm	
Samplers Name: <u>Brent Tripp, Gary Marshall</u>		Samplers Signature: <u>Brent Tripp</u>	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
Will-212-01	2nd 2nd Floor, Room 212	1,210	2/5/20 3:44
Will-212-02	2nd Floor, Room 212	1,210	2/5/20 3:44
Will-212-03	2nd Floor, Room 212	1,210	2/5/20 3:44
Will-212-04	2nd Floor, Room 212	1,210	2/5/20 3:44
Will-212-05	2nd Floor, Room 212	1,210	2/5/20 3:44
Client Sample # (s): <u>01-05</u>		Total # of Samples: <u>5</u>	
Relinquished (Client): <u>[Signature]</u>		Date: <u>2/5/20</u>	Time:
Received (Lab): <u>[Signature]</u>		Date: <u>2/6/20</u>	Time: <u>10 am</u>
Comments/Special Instructions:			

**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: 042003157
Customer ID: CLAG50
Customer PO:
Project ID:

Attention: Joseph Guzek
Guzek Associates, Inc.
401 Davis Street
Clarks Summit, PA 18411

Phone: (570) 586-9700
Fax: (570) 586-6728
Received Date: 02/06/2020 10:00 AM
Analysis Date: 02/06/2020
Collected Date: 02/05/2020

Project: 55D20-705 / Willard

**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)
WILL-212-01 042003157-0001	2nd Floor, Room 212	1210.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
WILL-212-02 042003157-0002	2nd Floor, Room 212	1210.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
WILL-212-03 042003157-0003	2nd Floor, Room 212	1210.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
WILL-212-04 042003157-0004	2nd Floor, Room 212	1210.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
WILL-212-05 042003157-0005	2nd Floor, Room 212	1210.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048

Analyst(s)

Ted Young (5)

Samantha Rundstrom, 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, LA #04127

Initial report from: 02/06/2020 14:23 PM