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 4, 2020

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

Reference: Robert Morris Elementary School – **Air Quality Clearance Testing**

Dear Mr. Dougherty,

On January 31, 2020, Guzek Associates, Inc. (GAI) performed asbestos air sampling. All samples were analyzed by EMSL using Phase Contrast Microscopy (PCM). These GAI air samples were performed after Datom Products, Dunmore, Pa, had removed asbestos insulation via glovebag procedures from pipes and fittings under sinks on the first and second floors of Robert Morris Elementary School. GAI estimates the total linear feet of removal was approximately twenty (20) linear feet.

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

Aggressive sampling techniques were used for each sampling area: each abated 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 PCM samples were hand delivered to an accredited laboratory for analysis with a 6-hour turnaround time.

Also, EPA Region 3 had been contacted prior to Datom's abatement activities regarding the clearance protocol to be used for this case. EPA recommended that each floor and each wing undergoing abatement activities, and thus qualifying as a "regulated area", be sub-divided into separate zones from which two PCM samples be collected to assure a high level of confidence in the air test results.

The PCM test report is attached to this report. The concentration of fibers detected in each sample collected was 0.007 fibers per cubic centimeter (fibers/cc) or less. AHERA's PCM clearance level for occupancy and resumption of normal activities in an area following an asbestos abatement project in that area is 0.01 fibers/cc. Therefore, according to AHERA requirements, the areas monitored as part of this project are safe for the resumption of normal activities.

Analytical Methodologies:
All PCM air samples were collected and analyzed in accordance with all AHERA requirements. PCM 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)
PCM Results (2 pages)
Sampling Location Map (1 page)

Scranton School District\20_705\2019_01-31Morris-AirTest

EMSL Analytical, Inc.

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

EMSL Order: 042002745
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: 02/01/2020 08:15 AM
Analysis Date: 02/01/2020
Collected Date: 01/31/2020

Project: 55020-806 / Robert Morris

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
102-1	1st Floor Room 102 in Wing "A"	01/31/2020	1260	8.5	100	0.002	10.8	0.003	
042002745-0001									
102-2	1st Floor Room 102 in Wing "A"	01/31/2020	1260	7.5	100	0.002	9.55	0.003	
042002745-0002									
103-1	1st Floor Room 103 in Wing "A"	01/31/2020	1240	8	100	0.002	10.2	0.003	
042002745-0003									
103-2	1st Floor Room 103 in Wing "A"	01/31/2020	1230	8	100	0.002	10.2	0.003	
042002745-0004									
104-1	1st Floor Room 104 in Wing "A"	01/31/2020	1270	6	100	0.002	7.64	0.002	
042002745-0005									
104-2	1st Floor Room 104 in Wing "A"	01/31/2020	1270	10.5	100	0.002	13.4	0.004	
042002745-0006									
106-1	1st Floor Room 106 in Wing "A"	01/31/2020	1300	11	100	0.002	14.0	0.004	
042002745-0007									
106-2	1st Floor Room 106 in Wing "A"	01/31/2020	1300	10	100	0.002	12.7	0.004	
042002745-0008									
105-1	1st Floor Room 105 in Wing "B"	01/31/2020	1240	7.5	100	0.002	9.55	0.003	
042002745-0009									
105-2	1st Floor Room 105 in Wing "B"	01/31/2020	1240	9	100	0.002	11.5	0.004	
042002745-0010									
107-1	1st Floor Room 107 in Wing "B"	01/31/2020	1220	8	100	0.002	10.2	0.003	
042002745-0011									
107-2	1st Floor Room 107 in Wing "B"	01/31/2020	1220	<5.5	100	0.002	<7.01	<0.002	
042002745-0012									
108-1	1st Floor Room 108 in Wing "B"	01/31/2020	1260	<5.5	100	0.002	<7.01	<0.002	
042002745-0013									

Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. 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 data reported that relies on information provided by the client, sample collection activities, or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Results have been blank corrected as applicable. The report reflects the samples as received. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.48, 21-50 fibers = 0.41, 51-100 fibers = 0.41. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NYS ELAP 10872, AIHA-LAP, LLC--IHLAP Accredited #100194, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from: 02/01/2020 03:24 PM

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Received Date: 02/01/2020 08:15 AM
Analysis Date: 02/01/2020
Collected Date: 01/31/2020

Project: 55020-806 / Robert Morris

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
108-2	1st Floor Room 108 in Wing "B"	01/31/2020	1200	<5.5	100	0.002	<7.01	<0.002	
042002745-0014									
207-1	2nd Floor Room 207 in Wing "D"	01/31/2020	1220	11.5	100	0.002	14.6	0.005	
042002745-0015									
207-2	2nd Floor Room 207 in Wing "D"	01/31/2020	1210	8.5	100	0.002	10.8	0.003	
042002745-0016									
208-1	2nd Floor Room 208 in Wing "D"	01/31/2020	1200	18	100	0.002	22.9	0.007	
042002745-0017									
208-2	2nd Floor Room 208 in Wing "D"	01/31/2020	1200	17	100	0.002	21.7	0.007	
042002745-0018									
209-1	2nd Floor Room 209 in Wing "D"	01/31/2020	1210	8.5	100	0.002	10.8	0.003	
042002745-0019									
209-2	2nd Floor Room 209 in Wing "D"	01/31/2020	1210	11	100	0.002	14.0	0.004	
042002745-0020									
210-1	2nd Floor Room 210 in Wing "D"	01/31/2020	1220	<5.5	100	0.002	<7.01	<0.002	
042002745-0021									
210-2	2nd Floor Room 210 in Wing "D"	01/31/2020	1210	<5.5	100	0.002	<7.01	<0.002	
042002745-0022									
211-1	2nd Floor Room 211 in Wing "D"	01/31/2020	1200	<5.5	100	0.002	<7.01	<0.002	
042002745-0023									
211-2	2nd Floor Room 211 in Wing "D"	01/31/2020	1200	9	100	0.002	11.5	0.004	
042002745-0024									
201-1	2nd Floor Room 201 in Wing "C"	01/31/2020	1220	7	100	0.002	8.92	0.003	
042002745-0025									
201-2	2nd Floor Room 201 in Wing "C"	01/31/2020	1220	8.5	100	0.002	10.8	0.003	
042002745-0026									

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NYS ELAP 10872, AIHA-LAP, LLC--IHLAP Accredited #100194, NJ DEP 03036, PA ID# 68-00367, LA #04127

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Project: 55020-806 / Robert Morris

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
204-1	2nd Floor Room 204 in Wing "C"	01/31/2020	1230	5.5	100	0.002	7.01	0.002	
042002745-0027									
204-2	2nd Floor Room 204 in Wing "C"	01/31/2020	1230	10.5	100	0.002	13.4	0.004	
042002745-0028									
206-1	2nd Floor Room 206 in Wing "C"	01/31/2020	1250	<5.5	100	0.002	<7.01	<0.002	
042002745-0029									
206-2	2nd Floor Room 206 in Wing "C"	01/31/2020	1250	7	100	0.002	8.92	0.003	
042002745-0030									

This method requires the submission of field blanks with each sample set. No discernable field blanks were submitted, samples are not blank corrected.

Analyst(s):
Christina Maiorana PCM 30

Samantha Rundstrom, Laboratory Manager
or other Approved Signatory

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Initial report from: 02/01/2020 03:24 PM

OrderID: 042002745

EMSL ANALYTICAL, INC.

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*): 042002745

EMSL Analytical, Inc.
200 Route 130 North
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 20-806 Robert Morris		**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: Brent Tripp, Chris Nolan, Marshall **Samplers Signature:** [signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
102-1	~~1st~~ FL, Room 102 in Wing "A"	1,260	1/31/20 10:51 AM
102-2	1ST FL, Room 102 in Wing "A"	1,260	1/31/20 10:51
103-1	1ST FL, Room 103 in Wing "A"	1,240	1/31/20 10:52
103-2	1ST FL, Room 103 in Wing "A"	1,230	1/31/20 10:52
104-1	1ST FL, Room 104 in Wing "A"	1,270	1/31/20 10:49

Client Sample # (s): 30 TOTAL **Total # of Samples:** 30

Relinquished (Client): [signature] **Date:** 1/31/2020 2/1/20 **Time:** 8:09 am

Received (Lab): [signature] WOI **Date:** 2-1-2020 **Time:** 8:15 AM

Comments/Special Instructions:
: Call Brent Tripp @ 570-~~98~~ 499-3474 WITH RESULTS.

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

042002745

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
104-2	1ST FL, Room 104 IN Wing "A"	1,270	1/31/20 10:49
106-1	1ST FL, Room 106 IN Wing "A"	1,300	1/31/20 10:46
106-2	1ST FL, Room 106 IN Wing "A"	1,300	1/31/20 10:46
105-1	1ST FL, Room 105 IN Wing "B"	1,240	1/31/20 1:06
105-2	1ST FL, Room 105 IN Wing "B"	1,240	1/31/20 1:06
107-1	1ST FL, Room 107 IN Wing "B"	1,220	1/31/20 1:08
107-2	1ST FL, Room 107 IN Wing "B"	1,220	1/31/20 1:08
108-1	1ST FL, Room 108 IN Wing "B"	1,260	1/31/20 1:10
108-2	1ST FL, Room 108 IN Wing "B"	1,200	1/31/20 1:10
207-1	2nd FL, Room 207 IN Wing "D"	1,220	1/31/20 2:04
207-2	2nd FL, Room 207 IN Wing "D"	1,210	1/31/20 2:05
208-1	2nd FL, Room 208 IN Wing "D"	1,200	1/31/20 2:03
208-2	2nd FL, Room 208 IN Wing "D"	1,200	1/31/20 2:04
209-1	2nd FL, Room 209 IN Wing "D"	1,210	1/31/20 2:02
209-2	2nd FL, Room 209 IN Wing "D"	1,210	1/31/20 2:02
210-1	2nd FL, Room 210 IN Wing "D"	1,220	1/31/20 2:00
210-2	2nd FL, Room 210 IN Wing "D"	1,210	1/31/20 2:04
211-1	2nd FL, Room 211 IN Wing "D"	1,200	1/31/20 1:59
211-2	2nd FL, Room 211 IN Wing "D"	1,200	1/31/20 1:59
201-1	2nd FL, Room 201 IN Wing "C"	1,230	1/31/20 3:20
201-2	2ND FL, Room 201 IN Wing "C"	1,230	1/31/20 3:20
204-1	2nd FL, Room 204 IN Wing "C"	1,230	1/31/20 3:19
204-2	2nd FL, Room 204 IN Wing "C"	1,230	1/31/20 3:19

***Comments/Special Instructions:**

OrderID: 042002745

EMSL ANALYTICAL, INC.
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Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

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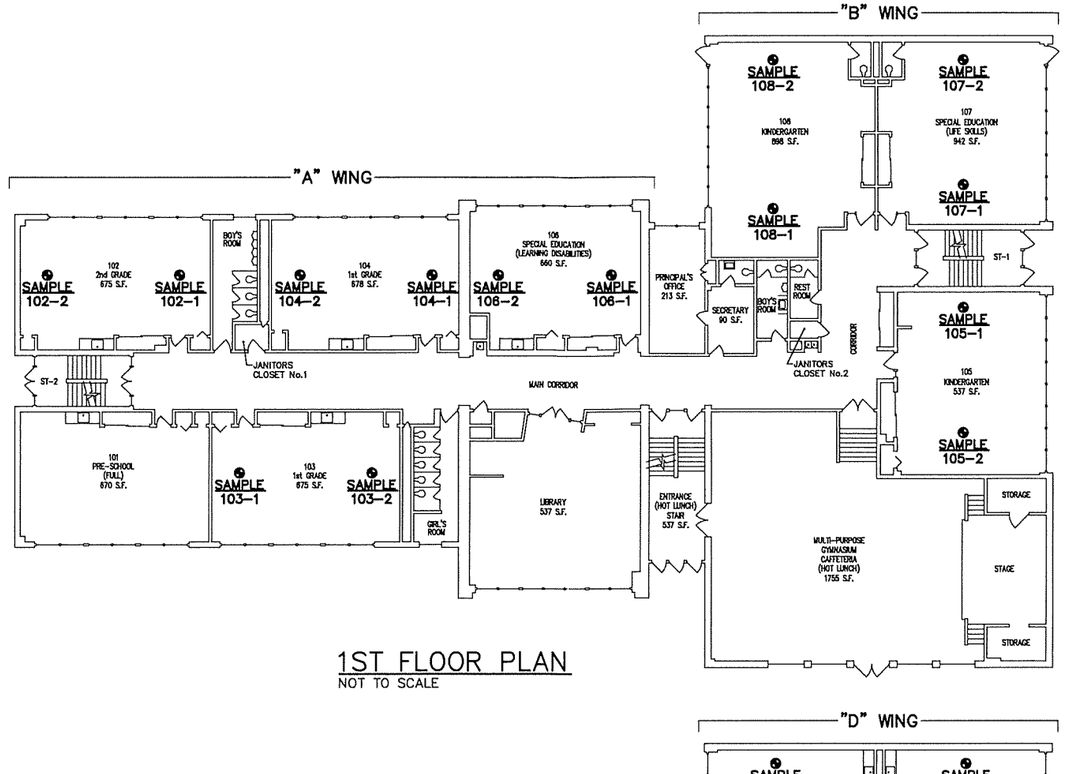
Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
206-1	2nd Floor, Room 206 In Wing "C"	1,250	1/31/20 3:19
206-2	2nd Floor, Room 206 In Wing "C"	1,250	1/31/20 3:19

*Comments/Special Instructions:



1ST FLOOR PLAN
NOT TO SCALE

2ND FLOOR PLAN
NOT TO SCALE

CLEARANCE SAMPLING AREAS

SCHOOL FLOOR PLANS: 01-31-2020

Sheet Size: 36"x24"

Guzek Associates Inc.
Mechanical, Electrical, Structural, Environmental, and Architectural Engineering
401 Davis Street
Clarks Summit, PA 18411
Phone: (570) 586-9700
FAX: (570) 586-6728
E-Mail: guzekassoc@aol.com

DRAWN BY: BMT | CHECKED BY: CN | JOB No.: SSD 20_705 | SCALE: AS NOTED | DATE: 01/31/2020

DWG. TITLE: 2020 ROBERT MORRIS ELEMENTARY SCHOOL FLOOR PLANS

ISSUED or REVISED | DATE

Scranton School District
Scranton School District
425 North Washington Avenue
Scranton, PA 18505

DRAWING No.: SK 1