Midwest Environmental Consulting Services

February 24, 2023

Village of Villa Park
320 Wildwood Street
Villa Park, IL 60181

Attention: Brian Roche, Superintendent of Parks, Buildings & Grounds

Subject: PCM Air Clearance Sampling & Analysis
Lions Park Recreation Building
320 E. Wildwood Avenue, Villa Park, IL 60181
MEC Project #: 23-01-128-PM

Dear Mr. Roche;

Midwest Environmental Consulting, Inc. (MEC) of Yorkville, Illinois, was contracted to conduct clearance air sampling following an asbestos abatement project at Lions Park Recreation Building located at 320 E. Wildwood Avenue, Villa Park, Illinois 60181 The scope of work included the clearance testing of the basement/lower level abatement areas and the first floor abatement areas. On February 24, 2023, Stuart J. Bruce, an Illinois Department of Public Health (IDPH) licensed Air Sampling Professional (#100-03616), conducted Phase Contrast Microscopy (PCM) clearance air sampling in the east side offices and the 1st floor restrooms at the above referenced building.

PCM air sampling pumps were calibrated with a rotometer to a specific airflow rate before and after the sampling period. In this case, the pumps were calibrated to collect 10 liters of air per minute (LPM). A total of (5) work area samples were collected. The air sampling pumps were allowed to run for a minimum of 120 minutes.

At the end of the sampling period, the samples were collected and the data recorded and EMSL Analytical, Inc. 4140 Litt Drive, Hillside, Illinois. Samples were transported to EMSL and analyzed on a "3-hour" turnaround time basis. Samples were analyzed in accordance with NIOSH 7400A for airborne fibers using Phase Contrast Microscopy (PCM).

All clearance samples for the east side offices and 1st floor restrooms were below the EPA recommended and IDPH required clearance criteria of 0.01 f/cc. Previous clearance sampling on February 17, 2023 in the basement and February 22, 2023 in the north end of the 1st floor were also below the EPA recommended and IDPH required clearance level of 0.01 f/cc copy of the laboratory report is attached to this letter.

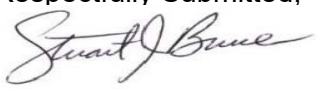
Corporate Headquarters
2551 N. Bridge Street
Yorkville, Illinois 60560
P: 630-553-3989

Chicago Office
954 W. Washington Blvd.
Suite 425
Chicago, Illinois 60607
P: 312-535-3228

Peoria Office
3100 N. Knoxville Ave.
Suite 204
Peoria, Illinois 61603
P: 309-621-4680

If you have any questions or concerns regarding this matter, please feel free to contact me at (630) 553-3989. Thank you for providing us with an opportunity to service your environmental needs.

Respectfully Submitted,



Stuart J. Bruce, IDPH License # 100-03616
IDPH Project Manager, Air Sampling Professional

EMSL Analytical, Inc.
4140 Litt Drive Hillside, IL 60162
Tel/Fax: (773) 313-0099 / (773) 313-0139
http://www.EMSL.com / chicagolab@emsl.com

POSTED

EMSL Order: 262301600
Customer ID: MECO77
Customer PO:
Project ID:

Attention: Steve Szeredy
Midwest Environmental Consulting Svs.
2551 North Bridge Street
Yorkville, IL 60560

Phone: (630) 608-8937
Fax: (630) 553-3990
Received Date: 02/22/2023 12:15 PM
Analysis Date: 02/22/2023
Collected Date:

Project: 23-01-128 DM LION PARK- 320 E WILDWOOD VILLA PARK IL

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*
CL-6	BLANK			<5.5	100		<7.01		Field Blank
262301600-0001									
CL-7	BLANK			<5.5	100		<7.01		Field Blank
262301600-0002									
CL-8	FC-1ST NORTH WEST SIDE		1350	<5.5	100	0.0020	<7.01	<0.0020	
262301600-0003									
CL-9	FC-1ST NORTH EAST SIDE		1350	<5.5	100	0.0020	<7.01	<0.0020	
262301600-0004									

The results reported have been blank corrected as applicable.

Analyst(s):
James Hahn PCM 4

James Hahn, Laboratory Manager
or other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm?. Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm?) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. 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 = 0.28, 21-50 fibers = 0.41, 51-100 fibers = 0.27. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.35.
Samples analyzed by EMSL Analytical, Inc. Hillside, IL

Initial report from: 02/22/2023 03:25 PM

OrderID: 262301600

Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only: 262301600

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EMAIL: CinnAsblab@EMSL.com

If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization.

Customer Information

Customer ID:	
Company Name:	MECS
Contact Name:	S. SZERGDY
Street Address:	2551 N BRIDGE
City, State, Zip:	YORKVILLE, IL
Country:	
Phone:	630 - 553 - 3989
Email(s) for Report:	S.SZERGDY@MEC-US.COM

Billing Information

Billing ID:	
Company Name:	
Billing Contact:	
Street Address:	
City, State, Zip:	
Country:	
Phone:	
Email(s) for Invoice:	

Project Information

Project Name/No:	23-01 - 128 DM LION PARK
Purchase Order:	
EMSL LIMS Project ID: (If applicable. EMSL will provide)	
US State where samples collected:	320 E WILDWOOD VILLA PARK, IL
State of Connecticut (CT) must select project location:	☐ Commercial (Taxable) ☐ Residential (Non-Taxable)
Sampled By Name:	
Sampled By Signature:	
No. of Samples In Shipment	

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 4-4.5 Hour AHERA ONLY ☐ 6 Hour ☒ 24 Hour ☐ 32 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

TEM Air 3-6 Hour, please call ahead to schedule. 32 Hour TAT available for select tests only; samples must be submitted by 11.30 am.

Test Selection

PCM Air
- ☒ NIOSH 7400
- ☐ NIOSH 7400 w/ 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)
- ☐ POINT COUNT
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%)
- POINT COUNT w/ GRAVIMETRIC
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%)
- ☐ NIOSH 9002 (<1%)
- ☐ NYS 198.1 (Friable - NY)
- ☐ NYS 198.6 NOB (Non-Friable - NY)
- ☐ NYS 198.8 (Vermiculite SM-V)

TEM - Air
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312*

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (Non-Friable-NY)
- ☐ TEM EPA 600/R-93/116 w Milling Prep (0.1%)

Other Test (please specify)

TEM - Settled Dust
- ☐ Microvac - ASTM D5755
- ☐ Wipe - ASTM D6480
- ☐ Qualitative via Filtration Prep
- ☐ Qualitative via Drop Mount Prep

Soil - Rock - Vermiculite (reporting limit)*
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM Qualitative via Filtration Prep
- ☐ TEM Qualitative via Drop Mount Prep

*Please call with your project-specific requirements.

☐ Positive Stop - Clearly Identified Homogeneous Areas (HA) | Filter Pore Size (Air Samples) ☒ 0.8um ☐ 0.45um

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
CL 6	BLANK		
CL 7	BLANK		
CL 8	FC - 1ST NORTH WEST SIDE	1350	
CL 9	FC - 1ST NORTH EAST SIDE	1350	

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time: 2/22/2023	Received by:	Date/Time: 02/23/23 10:15 AM
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-05 Asbestos R16 10/26/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

EMSL Analytical, Inc.

4140 Litt Drive Hillside, IL 60162
Tel/Fax: (773) 313-0099 / (773) 313-0139
http://www.EMSL.com / chicagolab@emsl.com

POSTED

EMSL Order: 262301660
Customer ID: MECO77
Customer PO:
Project ID:

Attention: Results
Midwest Environmental Consulting Svs.
2551 North Bridge Street
Yorkville, IL 60560

Phone: (630) 553-3989
Fax: (630) 553-3990
Received Date: 02/23/2023 04:15 PM
Analysis Date: 02/23/2023
Collected Date:

Project: 23-01-128-PM/VILLA PARK PARK DIST

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*
CL-01	IWA-EAST ROOM-CENTER		1570	<5.5	100	0.0017	<7.01	<0.0017	
262301660-0001									
CL-02	IWA-EAST SIDE-NORTHEAST ROOM		1570	<5.5	100	0.0017	<7.01	<0.0017	
262301660-0002									
CL-03	IWA-GIRLS REST ROOM		1520	<5.5	100	0.0018	<7.01	<0.0018	
262301660-0003									
CL-04	IWA-BOYS RESTROOM		1520	<5.5	100	0.0018	<7.01	<0.0018	
262301660-0004									
BLNK-01	BLANK FIELD								Field Blank Not Analyzed
262301660-0005									
BLNK-02	BLANK LAB								Lab Blank Not Analyzed
262301660-0006									

The results reported have been blank corrected as applicable.

Analyst(s):
James Hahn PCM 4

James Hahn, Laboratory Manager
or other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm?. Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm?) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. 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 = 0.28, 21-50 fibers = 0.41, 51-100 fibers = 0.27. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.35.
Samples analyzed by EMSL Analytical, Inc. Hillside, IL

Initial report from: 02/23/2023 05:27 PM

OrderID: 262301660

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

262301660

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: CinnAsblab@EMSL.com

If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization.

Customer Information		Billing Information	
Customer ID		Billing ID	
Company Name:	MEC	Company Name	
Contact Name:		Billing Contact:	
Street Address:		Street Address:	
City, State, Zip:	Yorkville, IL	City, State, Zip:	
Country:		Country:	
Phone:		Phone:	
Email(s) for Report:	RESULTS@MEC-US.com	Email(s) for Invoice:	

Project Information

Project Name/No:	23-01-128 - PM / Villa Park Park Dist	Purchase Order:	
EMSL LIMS Project ID: (If applicable, EMSL will provide)		US State where samples collected:	State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)
Sampled By Name:	Stuart Bruce	Sampled By Signature:	No. of Samples In Shipment: 6

Turn-Around-Time (TAT)

☒ 3 Hour ☐ 4-4.5 Hour AHERA ONLY ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

TEM Air 3-6 Hour, please call ahead to schedule. 32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.

Test Selection

PCM Air
- ☒ NIOSH 7400
- ☒ NIOSH 7400 w/ 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)
- ☐ POINT COUNT
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%)
- POINT COUNT w/ GRAVIMETRIC
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%)
- ☐ NIOSH 9002 (<1%)
- ☐ NYS 198.1 (Friable - NY)
- ☐ NYS 198.6 NOB (Non-Friable - NY)
- ☐ NYS 198.8 (Vermiculite SM-V)

TEM - Air
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312*

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (Non-Friable-NY)
- ☐ TEM EPA 600/R-93/116 w Milling Prep (0.1%)

Other Test (please specify)

TEM - Settled Dust
- ☐ Microvac - ASTM D5755
- ☐ Wipe - ASTM D6480
- ☐ Qualitative via Filtration Prep
- ☐ Qualitative via Drop Mount Prep

Soil - Rock - Vermiculite (reporting limit)*
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM Qualitative via Filtraton Prep
- ☐ TEM Qualitative via Drop Mount Prep

*Please call with your project-specific requirements.

☐ Positive Stop - Clearly Identified Homogeneous Areas (HA) | Filter Pore Size (Air Samples) ☐ 0.8um ☐ 0.45um

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
CL-01	IWA - East Room - Center	1,570	2/23/23
CL-02	IWA - East Side - Northeast Room	1,570	
CL-03	IWA - Girls Rest Room	1,520	
CL-04	IWA Boys Rest Room	1,520	
BLNK-01	Blank - Field	—	
BLNK-02	Blank - Lab	—	

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

DO NOT ANALYZE BLANKS

Method of Shipment:	DROP		Sample Condition Upon Receipt:	GOOD	
Relinquished by:	Stuart Bruce	Date/Time: 2/23/23 4:15	Received by:	2-23-23	Date/Time: 4:15PM (WI)
Relinquished by:		Date/Time:	Received by:		Date/Time:

Controlled Document - COC-05 Asbestos R16 10/26/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

SGS FORENSIC LABORATORIES

POSTED

Final Report

Airborne Fiber Analysis

NIOSH 7400 Method, Issue 3, 14 June 2019, counting rules 'A'

Midwest Environmental Consulting
Stuart Bruce
2551 N Bridge Street

Yorkville, IL 60560

Client ID: L2100
Report Number: A304662
Date Received: 02/17/23
Date Analyzed: 02/20/23
Date Printed: 02/20/23
First Reported: 02/20/23

Job ID/Site: 23-01-128 Lions Park Rec. Center - 320 E. Wildwood Ave., Villa Park, IL

SGSFL Job ID: L2100
Total Samples Submitted: 7
Total Samples Analyzed: 7

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	Fibers/mm^2	LOD F/cc	**Fibers/cc**
CL-01	**91018125**	NA	1200.0	0.0	100	<7.0	0.002	**< 0.002**
CL-02	**91018126**	NA	1200.0	1.0	100	<7.0	0.002	**< 0.002**
CL-03	**91018127**	NA	1200.0	0.0	100	<7.0	0.002	**< 0.002**
CL-04	**91018128**	NA	1200.0	1.0	100	<7.0	0.002	**< 0.002**
CL-05	**91018129**	NA	1200.0	1.0	100	<7.0	0.002	**< 0.002**
BLNK-01	**91018130**	NA	0.0	0.0	100	--	--	**--**
BLNK-02	**91018131**	NA	0.0	0.0	100	--	--	**--**

Karen Buehler, Laboratory Team Lead, Chicago Laboratory

Intralaboratory Relative Standard Deviation (Sr) per 100 graticule fields: 5 to 20 fibers: 0.11; >20 to 50 fibers: 0.39; >50 fibers: 0.17

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested and results are based upon sample information provided by the client. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. Samples are not blank corrected unless otherwise noted. All samples were received in acceptable condition unless otherwise noted.
Note* Sampling data used in this report was provided by the client as noted on the associated chain of custody form.

SGS FORENSIC LABORATORIES

Analysis Request Form (COC)

Client Name & Address: MIDWEST ENVIRONMENTAL CONSULTING SERVICES, INC. 2551 N. Bridge Street Yorkville, IL 60560	Client No.:
PO / Job#: 23-01-128	Date: 2/17/23
Turn Around Time: Same Day / 1Day / 2Day / 3Day / 4Day / 5Day	
☒ PCM: ☒ NIOSH 7400A / ☐ NIOSH 7400B ☐ Rotometer	
☐ PLM: ☐ Standard / ☐ Point Count 400 / 1000 / ☐ CARB 435	
Contact: Stuart Bruce	Phone: (630) 608-8957
☐ TEM Air: ☐ AHERA / ☐ Yamate2 / ☐ NIOSH 7402 ☐ TEM Bulk: ☐ Quantitative / ☐ Qualitative / ☐ Chatfield ☐ TEM Water: ☐ Potable / ☐ Non-Potable / ☐ Weight % ☐ TEM Dust: ☐ D5755 (microvac) / ☐ D6480 (wipe)	
E-mail: results@mec-us.com ; MPOI2@Mec-us.com	
Site Name: Lions Park Rec. Center	☐ IAQ Particle Identification (PLM LAB) ☐ PLM Opaques/Soot ☐ Particle Identification (TEM LAB) ☐ Special Project
Site Location: 320 E. Wildwood Ave. Villa Park, IL	☐ Metals Analysis Matrix: Method: Analytes:
Comments:	☐ Silica in Air ☐ w/Gravimetry ☐ Quartz Only

Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY: Type	Time On/Off	Avg LPM	Total Time	Sample Area / Air Volume
~~MMA~~	~~7/15/22~~	~~Spray texture/Paint on concrete ceiling deck~~	A P C		~~10.0~~		
C1-01	2/17	Basement - West	A P C		10.0	120	1,200
C1-02		Basement - East	A P C				
C1-03		Basement - North	A P C				
C1-04		Basement - South	A P C				
C1-05		Basement - Center	A P C				
Field Blank			A P C				
Lab Blank			A P C				
			A P C				
			A P C				

Sampled By: ~~BOB~~ MP Date/Time: 2/17/23 Shipped Via: ☐ Fed Ex ☐ UPS ☐ US Mail ☐ Courier ☐ Drop Off ☐ Other:

Relinquished By:	Relinquished By:	Relinquished By:
Date / Time: 2/17/23	Date / Time:	Date / Time:
Received By: Karen Buehler	Received By:	Received By:
Date / Time: 2-17-23 3:00pm	Date / Time:	Date / Time:
Condition Acceptable? ☒ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No

AIHA Proficiency Analytical Testing Programs

3120 Fairview Park Drive, Suite 360, Falls Church, VA 22042 USA
main 1+ 703-846-0757 fax 1+ 703-207-8558
email info.patllc@aiha.org *web* http://www.aihapat.org

IHPAT Round 231
Proficiency Testing Performance for Participant ID: PAT-102992

Report Issue Date: 11/15/2022

EMSL Analytical, Inc
4140 Litt Dr
Hillside, IL 60162-1120

This report contains your organization's IHPAT Proficiency Analytical Testing results for **IHPAT Round 231**. It is the participant's responsibility to thoroughly review the information in this final report and to immediately contact the AIHA Proficiency Analytical Testing Programs, in writing, if any errors are found.

IHPAT Results
The final report is comprised of two sections relating to IHPAT Round 231. The first section contains your organization's results listed per analyte, per sample. The second section contains your current performance and performance from the two previous rounds, respectively (where applicable). Summary results for all participants for IHPAT Round 231 are located in a separate report.

Testing Results for IHPAT Round 231
This part of the report contains your organization's results listed per analyte, per sample.

Contaminant	Unit	#	Result	Ref. Value	Lower Limit	Upper Limit	z-Score	Rating
Asbestos (ASB)	f/mm²	1	275	309	156	514	-0.6	A
	f/mm²	2	150	172	92	277	-0.7	A
	f/mm²	3	56	87	43	147	-1.8	A
	f/mm²	4	92	109	58	177	-0.9	A
Cadmium (CAD)	mg	1	0.00212	0.00193	0.00159	0.00226	1.7	A
	mg	2	0.00761	0.00779	0.00664	0.00894	-0.5	A
	mg	3	0.01112	0.01169	0.01	0.01337	-1	A
	mg	4	0.01793	0.01756	0.01495	0.02017	0.4	A
Lead (LEA)	mg	1	0.0469	0.0495	0.0434	0.0555	-1.3	A
	mg	2	0.0272	0.0299	0.0263	0.0336	-2.3	A
	mg	3	0.1082	0.1185	0.1043	0.1327	-2.2	A
	mg	4	0.0752	0.0792	0.0679	0.0905	-1.1	A
Nickel (NKL)	mg	1	0.1544	0.1497	0.1311	0.1682	0.8	A
	mg	2	0.0991	0.1004	0.087	0.1137	-0.3	A
	mg	3	0.0194	0.0201	0.0173	0.023	-0.8	A
	mg	4	0.0627	0.0603	0.0525	0.0681	0.9	A

Statistical Analysis Interpretation Note:
Reference value is the mean of the reference group.
Lower limit = reference value - 3 standard deviations; Upper limit = reference value + 3 standard deviations
z-Score = (reported result - reference value)/standard deviation. Note: z-Scores indicate how far a particular score is away from the mean.A - Acceptable* Analysis; U - Unacceptable Analysis; E - Excused Absence
Fiber data are positively skewed therefore transformations are used to obtain approximately normal distributions. Both the assigned values and acceptance limits are based on consensus of the reference group.
*The acceptability of reported results is based on upper and lower acceptance limits. A reported result may appear acceptable/unacceptable according to z-Score, but be identified as an outlier based upon the acceptance limits. Any non-participation or non-reporting of PAT data will result in unacceptable results (see PAT Programs Participation Policies, Section 2.1.6.2.).
Measurement uncertainty of any assigned value is also available on the respective certificate of analysis for the round.
Technical Comment: None

Overall Performance Summary Concluding with IHPAT Round 231

The following table contains your organization's current and two previous test rounds performance respectively (where applicable). For more information in regard to the determination of proficiency, please visit: www.aihapat.org.

Analyte Class	Round	Round Score	Round Performance	Proficiency Status - Three Round Score
Metals	229	12/12	PASS	
	230	11/12	PASS	
	231	12/12	PASS	PROFICIENT
Asbestos	229	4/4	PASS	
	230	4/4	PASS	
	231	4/4	PASS	PROFICIENT

Interpretation Notes:

The denominators represent the total number of samples analyzed.The numerators represent the number of acceptable results.
Pass: Round Score greater than or equal to 75%
Fail: Round Score less than 75%
P - Proficient; NP - Non-proficient; I - Indeterminate (not enough rounds to determine proficiency)
A participant is rated proficient for the applicable IHPAT analyte group if the participant has a passing score for the applicable IHPAT analyte group in two (2) of the last three (3) consecutive PT rounds. A participant is rated non-proficient for the applicable PT analyte group if the participant has failing scores for the associated PT analyte group in two (2) of the last three (3) consecutive PT rounds.

Additional information on the following items are available in the IHPAT Scheme Plan:
Procedures used to statistically analyze the data, establish the assigned value and standard deviation for proficiency assessment, or other criteria for evaluation; details of the metrological traceability and measurement uncertainty of the assigned value; information about design and implementation of PT scheme. The Industrial Hygiene Scheme Plan is available in the PAT Portal. Measurement uncertainty of any assigned value is also available on the respective certificate of analysis for the round.

Participants shall not describe their proficiency status in a manner that implies accreditation, certification or variations thereof. PAT results pertain only to the participant organization at the location listed on this results report. AIHA PAT Programs makes every effort to ensure that individual participant results are kept confidential and are not made public. Round results are only released to the participant and those entities requiring this information for accreditation, regulatory and contract purposes. New participants are made aware of the arrangement in advance of participation and consent is sought prior to the release of records for participants. PAT reports may not be reproduced or distributed unless copied in its entirety.

IHPAT samples are generated, verified, packaged, and shipped by RTI International under contract with AIHA Proficiency Analytical Testing Programs. Unless otherwise noted, sample homogeneity and stability criteria were satisfied for all samples.

Authorized by:
David Clawson
Senior Manager, Technical and Quality
AIHA PAT Programs
dclawson@aiha.org

AIHA Proficiency Analytical Testing Programs

3120 Fairview Park Drive, Suite 360, Falls Church, VA 22042 USA
main 1+ 703-846-0757 fax 1+ 703-207-8558
email info.patllc@aiha.org *web* http://www.aihapat.org

Proficiency Testing Performance for Participant ID: 290854
Report Issue Date: 11/15/2022

SGS Forensic Laboratories
3020 Woodcreek Dr Ste C
Downers Grove, IL 60515-5416

This report contains your organization's IHPAT Proficiency Analytical Testing results for **IHPAT Round 231**. It is the participant's responsibility to thoroughly review the information in this final report and to immediately contact the AIHA Proficiency Analytical Testing Programs, in writing, if any errors are found.

IHPAT Results
The final report is comprised of two sections relating to IHPAT Round 231. The first section contains your organization's results listed per analyte, per sample. The second section contains your current performance and performance from the two previous rounds, respectively (where applicable). Summary results for all participants for IHPAT Round 231 are located in a separate report.

Testing Results for IHPAT Round 231
This part of the report contains your organization's results listed per analyte, per sample.

Contaminant	Unit	#	Result	Ref. Value	Lower Limit	Upper Limit	z-Score	Rating
Asbestos (ASB)	f/mm²	1	414	309	156	514	1.8	A
	f/mm²	2	115	172	92	277	-1.8	A
	f/mm²	3	196	87	43	147	6.4	U
	f/mm²	4	108	109	58	177	-0.1	A

Statistical Analysis Interpretation Note:
Reference value is the mean of the reference group.
Lower limit = reference value - 3 standard deviations; Upper limit = reference value + 3 standard deviations
z-Score = (reported result - reference value)/standard deviation. Note: z-Scores indicate how far a particular score is away from the mean.A - Acceptable* Analysis; U - Unacceptable Analysis; E - Excused Absence
Fiber data are positively skewed therefore transformations are used to obtain approximately normal distributions. Both the assigned values and acceptance limits are based on consensus of the reference group.
*The acceptability of reported results is based on upper and lower acceptance limits. A reported result may appear acceptable/unacceptable according to z-Score, but be identified as an outlier based upon the acceptance limits. Any non-participation or non-reporting of PAT data will result in unacceptable results (see PAT Programs Participation Policies, Section 2.1.6.2.).
Measurement uncertainty of any assigned value is also available on the respective certificate of analysis for the round.
Technical Comment: None

Overall Performance Summary Concluding with IHPAT Round 231
The following table contains your organization's current and two previous test rounds performance respectively (where applicable). For more information in regard to the determination of proficiency, please visit: www.aihapat.org.

Analyte Class	Round	Round Score	Round Performance	Proficiency Status - Three Round Score
Asbestos	229	3/4	PASS	
	230	4/4	PASS	
	231	3/4	PASS	PROFICIENT

Interpretation Notes:
The denominators represent the total number of samples analyzed.The numerators represent the number of acceptable results.
Pass: Round Score greater than or equal to 75%
Fail: Round Score less than 75%
P - Proficient; NP - Non-proficient; I - Indeterminate (not enough rounds to determine proficiency)
A participant is rated proficient for the applicable IHPAT analyte group if the participant has a passing score for the applicable IHPAT analyte group in two (2) of the last three (3) consecutive PT rounds. A participant is rated non-proficient for the applicable PT analyte group if the participant has failing scores for the associated PT analyte group in two (2) of the last three (3) consecutive PT rounds.

Additional information on the following items are available in the IHPAT Scheme Plan:
Procedures used to statistically analyze the data, establish the assigned value and standard deviation for proficiency assessment, or other criteria for evaluation; details of the metrological traceability and measurement uncertainty of the assigned value; information about design and implementation of PT scheme. The Industrial Hygiene Scheme Plan is available in the PAT Portal. Measurement uncertainty of any assigned value is also available on the respective certificate of analysis for the round.

Participants shall not describe their proficiency status in a manner that implies accreditation, certification or variations thereof. PAT results pertain only to the participant organization at the location listed on this results report. AIHA PAT Programs makes every effort to ensure that individual participant results are kept confidential and are not made public. Round results are only released to the participant and those entities requiring this information for accreditation, regulatory and contract purposes. New participants are made aware of the arrangement in advance of participation and consent is sought prior to the release of records for participants. PAT reports may not be reproduced or distributed unless copied in its entirety.

IHPAT samples are generated, verified, packaged, and shipped by RTI International under contract with AIHA Proficiency Analytical Testing Programs. Unless otherwise noted, sample homogeneity and stability criteria were satisfied for all samples.

Authorized by:
David Clawson
Senior Manager, Technical and Quality
AIHA PAT Programs
dclawson@aiha.org

IDPH
ILLINOIS DEPARTMENT OF PUBLIC HEALTH

525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.dph.illinois.gov

STUART J BRUCE
8241 GRAND AVENUE
RIVER GROVE, IL 60171

2/17/2022

ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 03616

Enclosed is your Asbestos Professional License. Please note the expiration date on the card and in the image depicted below.

COPY OF THE ASBESTOS PROFESSIONAL LICENSE

Front of License

IDPH

ASBESTOS PROFESSIONAL LICENSE

ID NUMBER	ISSUED	EXPIRES
100 - 03616	2/17/2022	05/15/2023

STUART J BRUCE
8241 GRAND AVENUE
RIVER GROVE, IL 60171

Environmental Health

Back of License

ENDORSEMENTS	TC EXPIRES
INSPECTOR	11/12/2022
PROJECT MANAGER	9/1/2022
AIR SAMPLING PROFESSIONAL	

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois Department of Public Health
This license is valid only when accompanied by a valid training course certificate.

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.

Our WEB address is: dph.illinois.gov/topics-services/environmental-health-protection/asbestos
EMAIL Address: dph.asbestos@illinois.gov

Moraine Valley Community College
Environmental Institute
NIOSH 582 Equivalency

This certificate is awarded to

STUART J. BRUCE, JR.

In recognition of having attended and successfully passed the required course of study on the evaluation of airborne fiber concentrations

Course Dates	Test Date	Certificate #
May 4 - 8, 1992	**May 8, 1992**	**592N005**

Moraine Valley
Community College
10900 South 88th Avenue
Palos Hills, Illinois 60465-9988
(708) 974-5735

David Jorgenson
Instructional Coordinator
Environmental Institute