

April 14, 2023

Kildeer Countryside Community Consolidated SD#96
1050 Ivy Hall Lane
Buffalo Grove, IL 60069



JMS Project: J-25384

Attn: Mr. Sam Miranda
Director of Buildings & Grounds

RE: Indoor Air Quality Assessment
Kildeer Countryside School
3100 Old McHenry Road
Long Grove, IL

Dear Mr. Miranda,

This report covers the results of the indoor air quality testing that JMS Environmental Associates, Ltd. (JMS) performed at the above referenced project location on March 23rd and 30th, 2023.

At the request of Mr. Sam Miranda, JMS was to perform an Indoor Air Quality survey within the school located at 3100 Old McHenry Road in Long Grove, IL.

JMS performed sampling for sixty-one targeted airborne Volatile Organic Compounds (VOC's), Carbon Monoxide (CO), Carbon Dioxide (CO₂), ultra-fine particles, temperature, relative humidity, and airborne mold spores.

VOCs were sampled utilizing a TO 6-liter Canister covering a 8-hour sampling period and analyzed following the EPA Method TO-15.

CO, CO₂, temperature, and relative humidity were measured utilizing a TSI Velocicalc instrument with direct measurement.

Ultra-Fine Particles were measured with a P-Trak 8525 instrument with direct measurement.

Airborne Mold Spores were measured utilizing a calibrated Buck BioAire pump with Allergenco "D" Monitoring Cassette's.

Samples for Airborne Mold Spores were collected by JMS Environmental Associates, Ltd. (JMS) and submitted to an independent laboratory (Eurofins/EMLab P&K, Naperville, Illinois) for microscopic (fungi) identification and quantification.

JMS Environmental Associates, Ltd.

Kildeer CCSD#96: IAQ Kildeer School

J-25384

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Summary for results of Volatile Organic Compounds

Combined levels of analyzed Volatile Organic Compounds for Sample ID: Library Can # 60463 (Kildeer School) totaled 53.19 ug/m³, where most standards and guidelines consider 200 to 500 ug/m³ an acceptable level in homes and offices.

Of the compounds that were detected, all were below the OSHA PEL for that specific compound.

Refer to Appendix A for Analytical Results

Summary for results of Carbon Monoxide (CO), Carbon Dioxide (CO2), Temperature (F) & Relative Humidity

CO & CO2

Summary of Carbon Monoxide (CO) & Carbon Dioxide (CO2) Readings in parts per million (ppm)

Site: Kildeer Library **Date** 3/23/23 **JMS Project#:** J-25384

LOCATION	TIME	Temp. F	Rel. Hum %	CO	CO2	P-Track PT/CC
Library Near lower sitting area	7:58	65.5	39.6	0	601	1700
Library By Books Lower	7:59	68.1	34.7	0	533	1700
Library, Upper by 3D Printers	8:00	69.2	36.3	0	1371	1890
		70.2	32.9	0	710	2140
		70.3	31	0	607	1840
Outside	2:21	49	28	0	440	---
Library Near Screen	2:24	68.7	29.6	0	621	---

Carbon Monoxide readings inside the school measured 0 ppm (parts per million) ppm on the day of the survey which is below the American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE) and OSHA PEL acceptable level of less than 25 ppm.

Carbon Dioxide readings inside the school measured between 440 to 1371 ppm on the day of the survey which is below the OSHA PEL acceptable level of less than 5000 ppm.

JMS Environmental Associates, Ltd.

Kildeer CCSD#96: IAQ Kildeer School

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Temperature and Relative Humidity

Temperature ranged between 65.5 F – 70.3 F within the school building on the day of the survey.

Relative Humidity ranged between 30% - 47% within the school building on the day of the survey.

*The American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) Standard 62.1-2004 recommends that relative humidity indoors be maintained below 65 percent. Relative humidity above 65 percent will promote the growth of mold. **Relative humidity was not within these guidelines in several areas on the day of the inspection.***

Summary for results of Airborne Ultra Fine Particles

Measured indoor levels of Airborne Ultra Fine Particles (UFP) ranged between 1700 to 2140 particles/cc (cubic centimeter) as measured in multiple areas within the school on March 23rd, 2023.

In urban environments, studies indicate background UFP levels range from a few thousand to as high as 20,000 particles/cc. Near roads and tunnels, motor vehicles are a major source of UFP's, and levels can be ten times higher. Measured levels of UFP appear to be within acceptable background levels.

Airborne Mold Spore Sampling Results

All airborne mold sampling results were acceptable on the day of the survey.

Refer to Appendix B for Mold Sampling Report

Laboratory Certification

Refer to Appendix C for Laboratory Certification

JMS Environmental Associates, Ltd.

Kildeer CCSD#96: IAQ Kildeer School

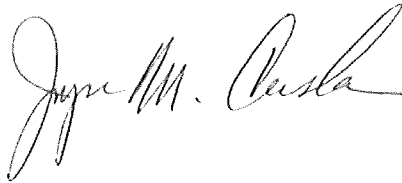
J-25384

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Enclosed please find the analytical test results, chain of custody records for samples and laboratory accreditation certificates.

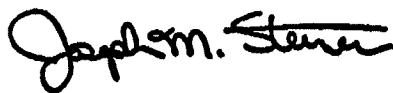
If you have any further questions, please do not hesitate to contact our office.

Respectfully Submitted,
JMS ENVIRONMENTAL ASSOCIATES, LTD.



Joyce M. Ciesla
Senior Project Manager

Reviewed by:
JMS ENVIRONMENTAL ASSOCIATES, LTD.



Joseph M. Sterner
President/Environmental Director

JMS Environmental Associates, Ltd.

Kildeer CCSD#96: IAQ Kildeer School

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APPENDIX "A"

**Laboratory Report / Chain of Custody
Volatile Organic Compounds**

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

April 06, 2023

JMS Environmental Associates, Ltd.

816 Burr Oak Drive

Westmont, IL 60559

Telephone: (630) 655-8500

Fax: (630) 655-8724

Analytical Report for STAT Work Order: 23040011 Revision 0

RE: J-25384, Kildeer, 3100 Old McHenry Road, Long Grove.

Dear JMS Environmental Associates, Ltd.:

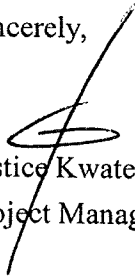
STAT Analysis received 1 sample for the referenced project on 4/3/2023 11:43:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng

Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: JMS Environmental Associates, Ltd.
Project: J-25384, Kildeer, 3100 Old McHenry Road, Long Grov **Work Order Sample Summary**
Work Order: 23040011 Revision 0

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
23040011-001A	25384-03-3001K - Library		3/30/2023 7:01:00 AM	4/3/2023

CLIENT: JMS Environmental Associates, Ltd.
Project: J-25384, Kildeer, 3100 Old McHenry Road, Long Grove.
Work Order: 23040011 Revision 0

CASE NARRATIVE

TO-15 results that are reported in $\mu\text{g}/\text{m}^3$ are calculated based on a temperature of 25°C , atmospheric pressure of 760 mm Hg, and the molecular weight of the analyte.

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 06, 2023

Date Printed: April 06, 2023

ANALYTICAL RESULTS

Client: JMS Environmental Associates, Ltd.

Client Sample ID: 25384-03-3001K - Library

Work Order: 23040011 Revision 0

Collection Date: 3/30/2023 7:01:00 AM

Project: J-25384, Kildeer, 3100 Old McHenry Road, Long

Matrix: Air

Lab ID: 23040011-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS		TO-15			Prep Date: 4/3/2023	Analyst: KVV
1,1,1-Trichloroethane	ND	0.30		ppbv	1	4/5/2023
1,1,1,2-Tetrachloroethane	ND	0.30		ppbv	1	4/5/2023
1,1,2-Trichloroethane	ND	0.30		ppbv	1	4/5/2023
1,1-Dichloroethane	ND	0.30		ppbv	1	4/5/2023
1,1-Dichloroethene	ND	0.30		ppbv	1	4/5/2023
1,2,4-Trichlorobenzene	ND	0.30		ppbv	1	4/5/2023
1,2,4-Trimethylbenzene	ND	0.30		ppbv	1	4/5/2023
1,2-Dibromoethane	ND	0.30		ppbv	1	4/5/2023
1,2-Dichlorobenzene	ND	0.30		ppbv	1	4/5/2023
1,2-Dichloroethane	ND	0.30		ppbv	1	4/5/2023
1,2-Dichloropropane	ND	0.30		ppbv	1	4/5/2023
1,3,5-Trimethylbenzene	ND	0.30		ppbv	1	4/5/2023
1,3-Butadiene	ND	0.30		ppbv	1	4/5/2023
1,3-Dichlorobenzene	ND	0.30		ppbv	1	4/5/2023
1,4-Dichlorobenzene	4.4	0.30		ppbv	1	4/5/2023
1,4-Dioxane	ND	0.75		ppbv	1	4/5/2023
2-Butanone	ND	0.75		ppbv	1	4/5/2023
2-Hexanone	ND	1.5		ppbv	1	4/5/2023
4-Ethyltoluene	ND	0.30		ppbv	1	4/5/2023
4-Methyl-2-pentanone	ND	1.5		ppbv	1	4/5/2023
Acetone	4.7	3.0	*	ppbv	1	4/5/2023
Benzene	ND	0.30		ppbv	1	4/5/2023
Benzyl chloride	ND	0.75		ppbv	1	4/5/2023
Bromodichloromethane	ND	0.30		ppbv	1	4/5/2023
Bromoform	ND	0.75		ppbv	1	4/5/2023
Bromomethane	ND	0.75		ppbv	1	4/5/2023
Carbon disulfide	ND	0.30		ppbv	1	4/5/2023
Carbon tetrachloride	ND	0.30		ppbv	1	4/5/2023
Chlorobenzene	ND	0.30		ppbv	1	4/5/2023
Chloroethane	ND	0.30		ppbv	1	4/5/2023
Chloroform	ND	0.30		ppbv	1	4/5/2023
Chloromethane	ND	0.75		ppbv	1	4/5/2023
cis-1,2-Dichloroethene	ND	0.30		ppbv	1	4/5/2023
cis-1,3-Dichloropropene	ND	0.30		ppbv	1	4/5/2023
Cyclohexane	ND	0.30		ppbv	1	4/5/2023
Dibromochloromethane	ND	0.30		ppbv	1	4/5/2023
Dichlorodifluoromethane	0.72	0.30		ppbv	1	4/5/2023
Ethyl acetate	ND	0.75		ppbv	1	4/5/2023

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 06, 2023

ANALYTICAL RESULTS

Date Printed: April 06, 2023

Client: JMS Environmental Associates, Ltd.
 Work Order: 23040011 Revision 0
 Project: J-25384, Kildeer, 3100 Old McHenry Road, Long
 Lab ID: 23040011-001

Client Sample ID: 25384-03-3001K - Library

Collection Date: 3/30/2023 7:01:00 AM

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS		TO-15			Prep Date: 4/3/2023	Analyst: KVV
Ethylbenzene	ND	0.30		ppbv	1	4/5/2023
Freon-113	ND	0.30		ppbv	1	4/5/2023
Freon-114	ND	1.5		ppbv	1	4/5/2023
Heptane	ND	0.30		ppbv	1	4/5/2023
Hexachlorobutadiene	ND	0.30		ppbv	1	4/5/2023
Hexane	ND	0.75		ppbv	1	4/5/2023
Isopropyl Alcohol	ND	1.5		ppbv	1	4/5/2023
m,p-Xylene	ND	0.60		ppbv	1	4/5/2023
Methyl tert-butyl ether	ND	0.30		ppbv	1	4/5/2023
Methylene chloride	ND	3.0		ppbv	1	4/5/2023
Naphthalene	ND	0.30		ppbv	1	4/5/2023
o-Xylene	ND	0.30		ppbv	1	4/5/2023
Propene	ND	3.0		ppbv	1	4/5/2023
Styrene	ND	0.30		ppbv	1	4/5/2023
Tetrachloroethene	ND	0.30		ppbv	1	4/5/2023
Tetrahydrofuran	ND	0.75		ppbv	1	4/5/2023
Toluene	0.57	0.30		ppbv	1	4/5/2023
trans-1,2-Dichloroethene	ND	0.30		ppbv	1	4/5/2023
trans-1,3-Dichloropropene	ND	0.30		ppbv	1	4/5/2023
Trichloroethene	ND	0.30		ppbv	1	4/5/2023
Trichlorofluoromethane	ND	0.30		ppbv	1	4/5/2023
Vinyl acetate	ND	3.0		ppbv	1	4/5/2023
Vinyl chloride	ND	0.30		ppbv	1	4/5/2023
Xylenes, Total	ND	0.90		ppbv	1	4/5/2023
Volatile Organic Compounds in Air by GC/MS		TO-15			Prep Date: 4/3/2023	Analyst: KVV
1,1,1-Trichloroethane	ND	1.6		µg/m ³	1	4/5/2023
1,1,2,2-Tetrachloroethane	ND	2.1		µg/m ³	1	4/5/2023
1,1,2-Trichloroethane	ND	1.6		µg/m ³	1	4/5/2023
1,1-Dichloroethane	ND	1.2		µg/m ³	1	4/5/2023
1,1-Dichloroethene	ND	1.2		µg/m ³	1	4/5/2023
1,2,4-Trichlorobenzene	ND	2.2		µg/m ³	1	4/5/2023
1,2,4-Trimethylbenzene	ND	1.5		µg/m ³	1	4/5/2023
1,2-Dibromoethane	ND	2.3		µg/m ³	1	4/5/2023
1,2-Dichlorobenzene	ND	1.8		µg/m ³	1	4/5/2023
1,2-Dichloroethane	ND	1.2		µg/m ³	1	4/5/2023
1,2-Dichloropropane	ND	1.4		µg/m ³	1	4/5/2023
1,3,5-Trimethylbenzene	ND	1.5		µg/m ³	1	4/5/2023
1,3-Butadiene	ND	0.67		µg/m ³	1	4/5/2023

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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Date Printed: April 06, 2023

Client: JMS Environmental Associates, Ltd.

Client Sample ID: 25384-03-3001K - Library

Work Order: 23040011 Revision 0

Collection Date: 3/30/2023 7:01:00 AM

Project: J-25384, Kildeer, 3100 Old McHenry Road, Long

Matrix: Air

Lab ID: 23040011-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS		TO-15			Prep Date: 4/3/2023	Analyst: KVV
1,3-Dichlorobenzene	ND	1.8		µg/m ³	1	4/5/2023
1,4-Dichlorobenzene	26	1.8		µg/m ³	1	4/5/2023
1,4-Dioxane	ND	2.7		µg/m ³	1	4/5/2023
2-Butanone	ND	2.2		µg/m ³	1	4/5/2023
2-Hexanone	ND	6.2		µg/m ³	1	4/5/2023
4-Ethyltoluene	ND	1.5		µg/m ³	1	4/5/2023
4-Methyl-2-pentanone	ND	6.2		µg/m ³	1	4/5/2023
Acetone	11	7.2	*	µg/m ³	1	4/5/2023
Benzene	ND	0.96		µg/m ³	1	4/5/2023
Benzyl chloride	ND	3.9		µg/m ³	1	4/5/2023
Bromodichloromethane	ND	2.0		µg/m ³	1	4/5/2023
Bromoform	ND	7.8		µg/m ³	1	4/5/2023
Bromomethane	ND	2.9		µg/m ³	1	4/5/2023
Carbon disulfide	ND	0.94		µg/m ³	1	4/5/2023
Carbon tetrachloride	ND	1.9		µg/m ³	1	4/5/2023
Chlorobenzene	ND	1.4		µg/m ³	1	4/5/2023
Chloroethane	ND	0.79		µg/m ³	1	4/5/2023
Chloroform	ND	1.5		µg/m ³	1	4/5/2023
Chloromethane	ND	1.6		µg/m ³	1	4/5/2023
cis-1,2-Dichloroethene	ND	1.2		µg/m ³	1	4/5/2023
cis-1,3-Dichloropropene	ND	1.4		µg/m ³	1	4/5/2023
Cyclohexane	ND	1.0		µg/m ³	1	4/5/2023
Dibromochloromethane	ND	2.6		µg/m ³	1	4/5/2023
Dichlorodifluoromethane	3.6	1.5		µg/m ³	1	4/5/2023
Ethyl acetate	ND	2.7		µg/m ³	1	4/5/2023
Ethylbenzene	ND	1.3		µg/m ³	1	4/5/2023
Freon-113	ND	2.3		µg/m ³	1	4/5/2023
Freon-114	ND	11		µg/m ³	1	4/5/2023
Heptane	ND	1.2		µg/m ³	1	4/5/2023
Hexachlorobutadiene	ND	3.2		µg/m ³	1	4/5/2023
Hexane	ND	2.7		µg/m ³	1	4/5/2023
Isopropyl Alcohol	ND	3.7		µg/m ³	1	4/5/2023
m,p-Xylene	ND	2.6		µg/m ³	1	4/5/2023
Methyl tert-butyl ether	ND	1.1		µg/m ³	1	4/5/2023
Methylene chloride	ND	10		µg/m ³	1	4/5/2023
Naphthalene	ND	1.6		µg/m ³	1	4/5/2023
o-Xylene	ND	1.3		µg/m ³	1	4/5/2023
Propene	ND	5.2		µg/m ³	1	4/5/2023

Qualifiers:
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 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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ANALYTICAL RESULTS

Date Printed: April 06, 2023

Client: JMS Environmental Associates, Ltd.

Client Sample ID: 25384-03-3001K - Library

Work Order: 23040011 Revision 0

Collection Date: 3/30/2023 7:01:00 AM

Project: J-25384, Kildeer, 3100 Old McHenry Road, Long

Matrix: Air

Lab ID: 23040011-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS		TO-15			Prep Date: 4/3/2023	Analyst: KWV
Styrene	ND	1.3		µg/m ³	1	4/5/2023
Tetrachloroethene	ND	2.0		µg/m ³	1	4/5/2023
Tetrahydrofuran	ND	2.2		µg/m ³	1	4/5/2023
Toluene	2.2	1.1		µg/m ³	1	4/5/2023
trans-1,2-Dichloroethene	ND	1.2		µg/m ³	1	4/5/2023
trans-1,3-Dichloropropene	ND	1.4		µg/m ³	1	4/5/2023
Trichloroethene	ND	1.6		µg/m ³	1	4/5/2023
Trichlorofluoromethane	ND	1.7		µg/m ³	1	4/5/2023
Vinyl acetate	ND	11		µg/m ³	1	4/5/2023
Vinyl chloride	ND	0.77		µg/m ³	1	4/5/2023
Xylenes, Total	ND	3.9		µg/m ³	1	4/5/2023

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

SUMMA CANISER LOG

JMS Environmental Associates, Ltd. 816 Burr Oak Drive, Westmont, IL
 Project Manager: Joyce Ciesla 630-204-8580 Cell 630-655-8500 Office iciesla@jmsenviro.com

JMS PROJECT # J-25384 - Kildeer
 Sampling Date: 3/30/23

JH
 4-23-2023
 2305 23040011

SAMPLE #	SAMPLE LOCATION	CALIBRATOR ID	CANISTER ID	Temp /RH	START TIME	START HG	END TIME	END HG	Temp/RH	Total Time Minutes
25384-03-3001K	Kildeer Library	A0180878-1	60463	68.4° 17.2%	7:01am	29	11:31	0	67.6° 17.8%	270

Sample Receipt Checklist

Client Name JMS

Date and Time Received: 4/3/2023 11:43:00 AM

Work Order Number 23040011

Received by: MM

Checklist completed by: Jim Kern 4-3-2023
Signature Date

Reviewed by: MP 04/03/2023
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature Ambient °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

Laboratory ID : 23040011-001
 Client Sample ID : 25384-03-3001K - Library
 Date Collected : 03/30/2023 07:01

Analyte	Test Method	Units	
1,1,1-Trichloroethane	TO-15	ppbv	< 0.30
1,1,2,2-Tetrachloroethane	TO-15	ppbv	< 0.30
1,1,2-Trichloroethane	TO-15	ppbv	< 0.30
1,1-Dichloroethane	TO-15	ppbv	< 0.30
1,1-Dichloroethene	TO-15	ppbv	< 0.30
1,2,4-Trichlorobenzene	TO-15	ppbv	< 0.30
1,2,4-Trimethylbenzene	TO-15	ppbv	< 0.30
1,2-Dibromoethane	TO-15	ppbv	< 0.30
1,2-Dichlorobenzene	TO-15	ppbv	< 0.30
1,2-Dichloroethane	TO-15	ppbv	< 0.30
1,2-Dichloropropane	TO-15	ppbv	< 0.30
1,3,5-Trimethylbenzene	TO-15	ppbv	< 0.30
1,3-Butadiene	TO-15	ppbv	< 0.30
1,3-Dichlorobenzene	TO-15	ppbv	< 0.30
1,4-Dichlorobenzene	TO-15	ppbv	4.4
1,4-Dioxane	TO-15	ppbv	< 0.75
2-Butanone	TO-15	ppbv	< 0.75
2-Hexanone	TO-15	ppbv	< 1.5
4-Ethyltoluene	TO-15	ppbv	< 0.30
4-Methyl-2-pentanone	TO-15	ppbv	< 1.5
Acetone	TO-15	ppbv	4.7
Benzene	TO-15	ppbv	< 0.30
Benzyl chloride	TO-15	ppbv	< 0.75
Bromodichloromethane	TO-15	ppbv	< 0.30
Bromoform	TO-15	ppbv	< 0.75
Bromomethane	TO-15	ppbv	< 0.75
Carbon disulfide	TO-15	ppbv	< 0.30
Carbon tetrachloride	TO-15	ppbv	< 0.30
Chlorobenzene	TO-15	ppbv	< 0.30
Chloroethane	TO-15	ppbv	< 0.30
Chloroform	TO-15	ppbv	< 0.30
Chloromethane	TO-15	ppbv	< 0.75
cis-1,2-Dichloroethene	TO-15	ppbv	< 0.30
cis-1,3-Dichloropropene	TO-15	ppbv	< 0.30
Cyclohexane	TO-15	ppbv	< 0.30
Dibromochloromethane	TO-15	ppbv	< 0.30
Dichlorodifluoromethane	TO-15	ppbv	0.72

Ethyl acetate	TO-15	ppbv	< 0.75
Ethylbenzene	TO-15	ppbv	< 0.30
Freon-113	TO-15	ppbv	< 0.30
Freon-114	TO-15	ppbv	< 1.5
Heptane	TO-15	ppbv	< 0.30
Hexachlorobutadiene	TO-15	ppbv	< 0.30
Hexane	TO-15	ppbv	< 0.75
Isopropyl Alcohol	TO-15	ppbv	< 1.5
m,p-Xylene	TO-15	ppbv	< 0.60
Methyl tert-butyl ether	TO-15	ppbv	< 0.30
Methylene chloride	TO-15	ppbv	< 3.0
Naphthalene	TO-15	ppbv	< 0.30
o-Xylene	TO-15	ppbv	< 0.30
Propene	TO-15	ppbv	< 3.0
Styrene	TO-15	ppbv	< 0.30
Tetrachloroethene	TO-15	ppbv	< 0.30
Tetrahydrofuran	TO-15	ppbv	< 0.75
Toluene	TO-15	ppbv	0.57
trans-1,2-Dichloroethene	TO-15	ppbv	< 0.30
trans-1,3-Dichloropropene	TO-15	ppbv	< 0.30
Trichloroethene	TO-15	ppbv	< 0.30
Trichlorofluoromethane	TO-15	ppbv	< 0.30
Vinyl acetate	TO-15	ppbv	< 3.0
Vinyl chloride	TO-15	ppbv	< 0.30
Xylenes, Total	TO-15	ppbv	< 0.90
1,1,1-Trichloroethane	TO-15	$\mu\text{g}/\text{m}^3$	< 1.6
1,1,2,2-Tetrachloroethane	TO-15	$\mu\text{g}/\text{m}^3$	< 2.1
1,1,2-Trichloroethane	TO-15	$\mu\text{g}/\text{m}^3$	< 1.6
1,1-Dichloroethane	TO-15	$\mu\text{g}/\text{m}^3$	< 1.2
1,1-Dichloroethene	TO-15	$\mu\text{g}/\text{m}^3$	< 1.2
1,2,4-Trichlorobenzene	TO-15	$\mu\text{g}/\text{m}^3$	< 2.2
1,2,4-Trimethylbenzene	TO-15	$\mu\text{g}/\text{m}^3$	< 1.5
1,2-Dibromoethane	TO-15	$\mu\text{g}/\text{m}^3$	< 2.3
1,2-Dichlorobenzene	TO-15	$\mu\text{g}/\text{m}^3$	< 1.8
1,2-Dichloroethane	TO-15	$\mu\text{g}/\text{m}^3$	< 1.2
1,2-Dichloropropane	TO-15	$\mu\text{g}/\text{m}^3$	< 1.4
1,3,5-Trimethylbenzene	TO-15	$\mu\text{g}/\text{m}^3$	< 1.5
1,3-Butadiene	TO-15	$\mu\text{g}/\text{m}^3$	< 0.67
1,3-Dichlorobenzene	TO-15	$\mu\text{g}/\text{m}^3$	< 1.8
1,4-Dichlorobenzene	TO-15	$\mu\text{g}/\text{m}^3$	26
1,4-Dioxane	TO-15	$\mu\text{g}/\text{m}^3$	< 2.7

2-Butanone	TO-15	µg/m ³	< 2.2
2-Hexanone	TO-15	µg/m ³	< 6.2
4-Ethyltoluene	TO-15	µg/m ³	< 1.5
4-Methyl-2-pentanone	TO-15	µg/m ³	< 6.2
Acetone	TO-15	µg/m ³	11
Benzene	TO-15	µg/m ³	< 0.96
Benzyl chloride	TO-15	µg/m ³	< 3.9
Bromodichloromethane	TO-15	µg/m ³	< 2.0
Bromoform	TO-15	µg/m ³	< 7.8
Bromomethane	TO-15	µg/m ³	< 2.9
Carbon disulfide	TO-15	µg/m ³	< 0.94
Carbon tetrachloride	TO-15	µg/m ³	< 1.9
Chlorobenzene	TO-15	µg/m ³	< 1.4
Chloroethane	TO-15	µg/m ³	< 0.79
Chloroform	TO-15	µg/m ³	< 1.5
Chloromethane	TO-15	µg/m ³	< 1.6
cis-1,2-Dichloroethene	TO-15	µg/m ³	< 1.2
cis-1,3-Dichloropropene	TO-15	µg/m ³	< 1.4
Cyclohexane	TO-15	µg/m ³	< 1.0
Dibromochloromethane	TO-15	µg/m ³	< 2.6
Dichlorodifluoromethane	TO-15	µg/m ³	3.6
Ethyl acetate	TO-15	µg/m ³	< 2.7
Ethylbenzene	TO-15	µg/m ³	< 1.3
Freon-113	TO-15	µg/m ³	< 2.3
Freon-114	TO-15	µg/m ³	< 11
Heptane	TO-15	µg/m ³	< 1.2
Hexachlorobutadiene	TO-15	µg/m ³	< 3.2
Hexane	TO-15	µg/m ³	< 2.7
Isopropyl Alcohol	TO-15	µg/m ³	< 3.7
m,p-Xylene	TO-15	µg/m ³	< 2.6
Methyl tert-butyl ether	TO-15	µg/m ³	< 1.1
Methylene chloride	TO-15	µg/m ³	< 10
Naphthalene	TO-15	µg/m ³	< 1.6
o-Xylene	TO-15	µg/m ³	< 1.3
Propene	TO-15	µg/m ³	< 5.2
Styrene	TO-15	µg/m ³	< 1.3
Tetrachloroethene	TO-15	µg/m ³	< 2.0
Tetrahydrofuran	TO-15	µg/m ³	< 2.2
Toluene	TO-15	µg/m ³	2.2
trans-1,2-Dichloroethene	TO-15	µg/m ³	< 1.2
trans-1,3-Dichloropropene	TO-15	µg/m ³	< 1.4
Trichloroethene	TO-15	µg/m ³	< 1.6

Trichlorofluoromethane	TO-15	$\mu\text{g}/\text{m}^3$	< 1.7
Vinyl acetate	TO-15	$\mu\text{g}/\text{m}^3$	< 11
Vinyl chloride	TO-15	$\mu\text{g}/\text{m}^3$	< 0.77
Xylenes, Total	TO-15	$\mu\text{g}/\text{m}^3$	< 3.9

JMS Environmental Associates, Ltd.

Kildeer CCSD#96: IAQ Kildeer School

J-25384

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APPENDIX "B"

Mold Sampling Report

March 8, 2023

Kildeer Community Consolidated School District #96
1050 Ivy Hall Lane
Buffalo Grove, IL 60089



Attn: Mr. Sam Miranda
Buildings & Grounds

RE: Limited Mold IAQ Sampling Survey;
Kildeer Elementary School
3100 Old McHenry Road
Long Grove, IL 60047

JMS Project: J-25323

Dear Mr. Miranda:

Enclosed is the Limited Mold Sampling Survey Report that JMS Environmental Associates, Ltd. (JMS) has performed for Kildeer Countryside School District # 96 at Kildeer Countryside Elementary School, Library, 3100 Old McHenry Road, Long Grove, IL. The Environmental Mold Sampling tests were performed on Marc 3rd, 2023. JMS performed specific mold tests including spore trap sampling.

Sampling

Spore Trap sampling was performed in the Library area, adjacent hallway and outside near doors 1.

Note, this report does not constitute any conclusions regarding any medical effects from environmental molds. A trained and experienced medical physician should be consulted regarding the physiological effects of environmental molds. No opinions or recommendations are being stated about possible health effects of mold species. The client should consult a medical doctor/toxicologist for the human effects of mold species.

Visual Inspection:

A visual inspection was performed focusing on the Library area of the school. JMS was requested to come out to the facility to perform IAQ testing based on a strange odor coming from the area. Upon visual inspection of the room, no visible mold was found. The area above the drop ceiling was inspected as well as the perimeter area. Minor staining was noted on the ceiling tiles near the lower classroom area. This staining has been consistent for the last several years.

There is an odor in the area, almost a dusty type smell or heat. This may be given off by the 3D printers. The smell is not found in any of the surrounding area's.

JMS Environmental Associates, Ltd.

Kildeer Countryside School District #96: Kildeer Countryside Elementary School Library

JMS Project: J-25323

March 3, 2023

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Table 1. Summary of Results of Microscopic Analysis of Air Samples at Kildeer Countryside Elementary School, Long Grove

Room/Area Description	Sample Number	Results	
		Spore Density or Concentration	Predominant Genus
Outside Door 1 Pre Sample	25232-03-0301	110 per m ³	Ascospores (53), Basidiospores(53)
Library Lower Area	25232-03-0302	N/A	N/A
Library Upper Area Near 3D Printers	25232-03-0303	N/A	N/A
Hallway Outside Small Gym	25232-03-0304	N/A	N/A
Outside Door 1 Post Sampling	25232-03-0305	N/A	N/A

Conclusion:

JMS noted no visual issues. The mold and air monitoring noted normal air quality levels for mold. The temperature and humidity were within a normal range.

Refer to Appendix 'A': Laboratory Analytical Results / Chain of Custody

JMS Environmental Associates, Ltd.

Kildeer Countryside School District #96: Kildeer Countryside Elementary School Library

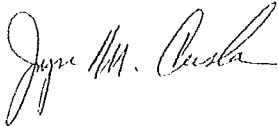
JMS Project: J-25323

March 3, 2023

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If you have any questions regarding this project survey report, please do not hesitate to contact us at JMS.

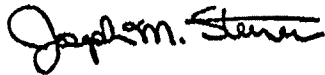
Respectfully submitted,
JMS ENVIRONMENTAL ASSOCIATES, LTD.



Joyce M. Ciesla
Senior Project Manager

JMS ENVIRONMENTAL ASSOCIATES, LTD.

Reviewed by,



Joseph M. Sterner, MS
Environmental Director/President

JMS Environmental Associates, Ltd.

Kildeer Countryside School District #96: Kildeer Countryside Elementary School Library

JMS Project: J-25323

March 3, 2023

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Appendix 'A': Laboratory Analytical Results / Chain of Custody



Built Environment Testing

JMS Environmental Associates, Ltd.

Report for:

Ms. Joyce Ciesla
JMS Environmental Associates, Ltd.
816 Burr Oak Drive
Westmont, IL 60559

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: J-25323; Kildeer
EML ID: 3185352

Approved by:

Cluster Leader
Dr. Kamash Pillai

Dates of Analysis:
Spore trap analysis: 03-06-2023

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #176641

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested. Information supplied by the client which can affect the validity of results: sample air volume.

Eurofins EPK Built Environment Testing, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EPK Built Environment Testing, LLC's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Eurofins EPK Built Environment Testing, LLC
 1815 West Diehl Road, Suite 800, Naperville, IL 60563
 (866) 871-1984 www.eurofinsus.com/Built

Client: JMS Environmental Associates, Ltd.
 C/O: Ms. Joyce Ciesla
 Re: J-25323; Kildeer

Date of Sampling: 03-03-2023
 Date of Receipt: 03-03-2023
 Date of Report: 03-06-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	25323-03-0301: Outside Front Door 1	25323-03-0302: Lower Library Center	25323-03-0303: Upper Library by 3D Printers	25323-03-0304: Hallway Near Little Gym	25323-03-0305: Outside Front Door 1					
Comments (see below)	None	None	None	None	None					
Lab ID-Version†:	15414140-1	15414141-1	15414142-1	15414143-1	15414144-1					
Analysis Date:	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023					
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores	1	53								
Basidiospores	1	53								
Botrytis										
Chaetomium										
Cladosporium										
Curvularia										
Epicoccum										
Fusarium										
Myrothecium										
Nigrospora										
Other colorless										
Penicillium/Aspergillus types†										
Pithomyces										
Rusts										
Smuts, Periconia, Myxomycetes										
Stachybotrys										
Stemphylium										
Torula										
Ulocladium										
Zygomycetes										
Background debris (1-4+)††	3+		2+		2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		< 1+		< 1+	
Sample volume (liters)	75		75		75		75		75	
§ TOTAL SPORES/m3		110		< 13		< 13		< 13		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³, per spore and per sample.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m³ has been rounded to two significant figures to reflect analytical precision.

Eurofins EPK Built Environment Testing, LLC
 1815 West Diehl Road, Suite 800, Naperville, IL 60563
 (866) 871-1984 www.eurofinsus.com/Built

Client: JMS Environmental Associates, Ltd.
 C/O: Ms. Joyce Ciesla
 Re: J-25323; Kildeer

Date of Sampling: 03-03-2023
 Date of Receipt: 03-03-2023
 Date of Report: 03-06-2023

MoldRANGE™, Local Climate; Extended Outdoor Comparison

Outdoor Location: 25323-03-0301, Outside Front Door 1

Fungi Identified	Outdoor data	Typical Outdoor Data for: March in Central† EMLab Regional Climate code¹						Typical Outdoor Data for: The entire year in Central† EMLab Regional Climate code¹					
		B Annual Temp, A Elev., B Rain, A Temp. Range (n‡=287)						B Annual Temp, A Elev., B Rain, A Temp. Range (n‡=3625)					
Project zip code 60047	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	7	7	13	27	39	13	13	20	53	190	310	52
Bipolaris/Drechslera group	-	-	-	-	-	-	<1	7	7	13	27	48	6
Chaetomium	-	-	-	-	-	-	2	7	7	13	33	59	4
Cladosporium	-	27	53	110	290	640	66	53	120	690	2,900	5,500	86
Curvularia	-	-	-	-	-	-	<1	7	13	13	40	53	8
Nigrospora	-	-	-	-	-	-	2	7	13	20	53	110	18
Penicillium/Aspergillus types	-	27	53	110	160	360	31	40	53	110	350	670	40
Stachybotrys	-	-	-	-	-	-	2	7	13	27	67	110	1
Torula	-	-	-	-	-	-	<1	7	13	20	53	80	6
Seldom found growing indoors**													
Ascospores	53	27	27	53	240	370	47	53	110	530	1,800	3,300	77
Basidiospores	53	53	53	160	800	1,400	64	53	190	1,000	4,100	7,800	87
Rusts	-	-	-	-	-	-	1	13	13	27	110	180	26
Smuts, Periconia, Myxomycetes	-	7	7	13	27	40	19	13	13	40	120	210	50
§ TOTAL SPORES/m3	110												

¹EMLab Regional Climate codes are a climate classification scheme for regional geographic areas containing multiple states. The MoldRANGE™ Local Climate report uses the sampling location zip code to identify the EMLab Regional Climate code in that area. Using information available from the NOAA weather database, the EMLab Regional Climate code sharpens the precision of the MoldRANGE™ reporting system, providing more reliable estimates of the range and average concentrations of the different airborne fungal spore types for each region. Additional information on the EMLab Regional Climate code system can be found on the last page of this report.

‡The Typical Outdoor Data represents the typical outdoor spore levels across the region's group of states for the time period and EMLab Regional Climate code indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically and if not enough data is available to make a statistically meaningful assessment, it is indicated with a dash.

‡ n is the sample size used to calculate the MoldRANGE™ Local Climate data summarized in the table.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: JMS Environmental Associates, Ltd.
C/O: Ms. Joyce Ciesla
Re: J-25323; Kildeer

Date of Sampling: 03-03-2023
Date of Receipt: 03-03-2023
Date of Report: 03-06-2023

MoldRANGE™, Local Climate; Extended Outdoor Comparison

Outdoor Location: 25323-03-0305, Outside Front Door 1

Fungi Identified	Outdoor data	Typical Outdoor Data for: March in Central† EMLab Regional Climate code¹						Typical Outdoor Data for: The entire year in Central† EMLab Regional Climate code¹					
		B Annual Temp, A Elev., B Rain, A Temp. Range (n‡=287)						B Annual Temp, A Elev., B Rain, A Temp. Range (n‡=3625)					
Project zip code 60047	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	7	7	13	27	39	13	13	20	53	190	310	52
Bipolaris/Drechslera group	-	-	-	-	-	-	<1	7	7	13	27	48	6
Chaetomium	-	-	-	-	-	-	2	7	7	13	33	59	4
Cladosporium	-	27	53	110	290	640	66	53	120	690	2,900	5,500	86
Curvularia	-	-	-	-	-	-	<1	7	13	13	40	53	8
Nigrospora	-	-	-	-	-	-	2	7	13	20	53	110	18
Penicillium/Aspergillus types	-	27	53	110	160	360	31	40	53	110	350	670	40
Stachybotrys	-	-	-	-	-	-	2	7	13	27	67	110	1
Torula	-	-	-	-	-	-	<1	7	13	20	53	80	6
Seldom found growing indoors**													
Ascospores	-	27	27	53	240	370	47	53	110	530	1,800	3,300	77
Basidiospores	-	53	53	160	800	1,400	64	53	190	1,000	4,100	7,800	87
Rusts	-	-	-	-	-	-	1	13	13	27	110	180	26
Smuts, Periconia, Myxomycetes	-	7	7	13	27	40	19	13	13	40	120	210	50
§ TOTAL SPORES/m3	< 13												

¹EMLab Regional Climate codes are a climate classification scheme for regional geographic areas containing multiple states. The MoldRANGE™ Local Climate report uses the sampling location zip code to identify the EMLab Regional Climate code in that area. Using information available from the NOAA weather database, the EMLab Regional Climate code sharpens the precision of the MoldRANGE™ reporting system, providing more reliable estimates of the range and average concentrations of the different airborne fungal spore types for each region. Additional information on the EMLab Regional Climate code system can be found on the last page of this report.

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Client: JMS Environmental Associates, Ltd.
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Date of Sampling: 03-03-2023
Date of Receipt: 03-03-2023
Date of Report: 03-06-2023

Understanding EMLab Regional Climate Codes

Outdoor airborne spore concentrations are strongly influenced by climate and weather patterns, often resulting in pronounced seasonal and diurnal cycles (Burge 1995). The seasonal climatic changes directly affect the growth cycle of plants, thereby influencing fungal growth, spore maturation, and release cycles. By evaluating outdoor spore concentrations across similar climatic zones rather than for the state as a whole, it is possible to provide a more representative estimate of typical outdoor spore levels and frequency of occurrence for different airborne fungal spore types in a given area.

The EMLab Regional Climate code system is a novel classification system that uses data from the NOAA - National Oceanic and Atmospheric Administration database to define unique climate zones. The following climate variables, for each regional zip code, are obtained from NOAA and assigned a letter code of A (above the regional average for that variable) or B (below the regional average for that variable):

1. Annual High Temperature
2. Elevation
3. Rainfall/Precipitation
4. Monthly Temperature Range

The result is a 4-character code assigned to each statewide zip code, referred to as the Regional Climate Code. Below are some examples of decoded Regional Climate Codes:

AAAA = Above avg. Annual High Temperature, Above avg. Elevation, Above avg. Rainfall/Precipitation, Above avg. Monthly Temperature Range
AABB = Above avg. Annual High Temperature, Above avg. Elevation, Below avg. Rainfall/Precipitation, Below avg. Monthly Temperature Range
BBAA = Below avg. Annual High Temperature, Below avg. Elevation, Above avg. Rainfall/Precipitation, Above avg. Monthly Temperature Range

The actual outdoor air sample data from matching regional climate codes in each group of states are then compiled in a manner relating typical spore concentrations and frequency of occurrence.

The data presented in this report is from the Central Region which includes the states of: IL, IN, KY, MO, OH, TN, and WV

The NOAA regional climate variables were selected by mapping data points from a subset of approximately 145,000 weather and geographic database entries to over 80,000 outdoor spore trap samples with known zip codes and assessing them using orthogonal array experimental design techniques. The results were then compared to the typical ranges of spore types found when grouping zip codes using the Koppen-Geiger climatic classification system; a commonly used climatic system that provides an objective numerical definition in terms of climatic elements such as temperature, rainfall, and other seasonal characteristics. The EMLab Regional Climate codes showed improved granularity and refinement of the zip code groupings, implying a better representation of the expected range of spore types to be found within an individual zip code.

The values on this report were calculated by obtaining the four variables listed above from the over 585 million data points of weather and geographic information available in the NOAA database, and determining the frequencies and percentile values of spore types by utilizing over 180,000 Eurofins EMLab P&K outdoor spore trap samples with known zip codes.

This report groups regional zip codes in relation to these EMLab Regional Climate codes and summarizes MoldRANGE™ data by month and year within each EMLab Regional Climate code.

References:

Burge, Harriet, A. Bioaerosols: Boca Raton: Lewis Publishers, pp. 163-171, 1995.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by Eurofins EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, Eurofins EMLab P&K may not have received and tested a representative number of samples for every region or time period. Eurofins EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Eurofins EPK Built Environment Testing, LLC
 1815 West Diehl Road, Suite 800, Naperville, IL 60563
 (866) 871-1984 www.eurofinsus.com/Built

Client: JMS Environmental Associates, Ltd.
 C/O: Ms. Joyce Ciesla
 Re: J-25323; Kildeer

Date of Sampling: 03-03-2023
 Date of Receipt: 03-03-2023
 Date of Report: 03-06-2023

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 25323-03-0301: Outside Front Door 1

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				53	13 - 210 - 6,000	74
Basidiospores				53	13 - 440 - 25,000	89
Cladosporium				< 13	27 - 450 - 7,500	88
Penicillium/Aspergillus types				< 13	20 - 200 - 2,700	62
Smuts, Periconia, Myxomycetes				< 13	7 - 53 - 850	64
Total				110		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 25323-03-0302: Lower Library Center

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: N/A Result: N/A Critical value: N/A Inside Similar: N/A	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
None Detected		<100	1K	10K	>100K
					< 13

Location: 25323-03-0303: Upper Library by 3D Printers

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: N/A Result: N/A Critical value: N/A Inside Similar: N/A	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
None Detected		<100	1K	10K	>100K
					< 13

Client: JMS Environmental Associates, Ltd.
 C/O: Ms. Joyce Ciesla
 Re: J-25323; Kildeer

Date of Sampling: 03-03-2023
 Date of Receipt: 03-03-2023
 Date of Report: 03-06-2023

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25323-03-0304: Hallway Near Little Gym

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: N/A Result: N/A Critical value: N/A Inside Similar: N/A	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
None Detected		>100K		
		< 13		

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. Eurofins EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

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Client: JMS Environmental Associates, Ltd.
 C/O: Ms. Joyce Ciesla
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Date of Sampling: 03-03-2023
 Date of Receipt: 03-03-2023
 Date of Report: 03-06-2023

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25323-03-0304: Hallway Near Little Gym

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: N/A	dF: N/A Result: N/A Critical value: N/A Inside Similar: N/A	Result: N/A	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
None Detected		>100K		
		< 13		

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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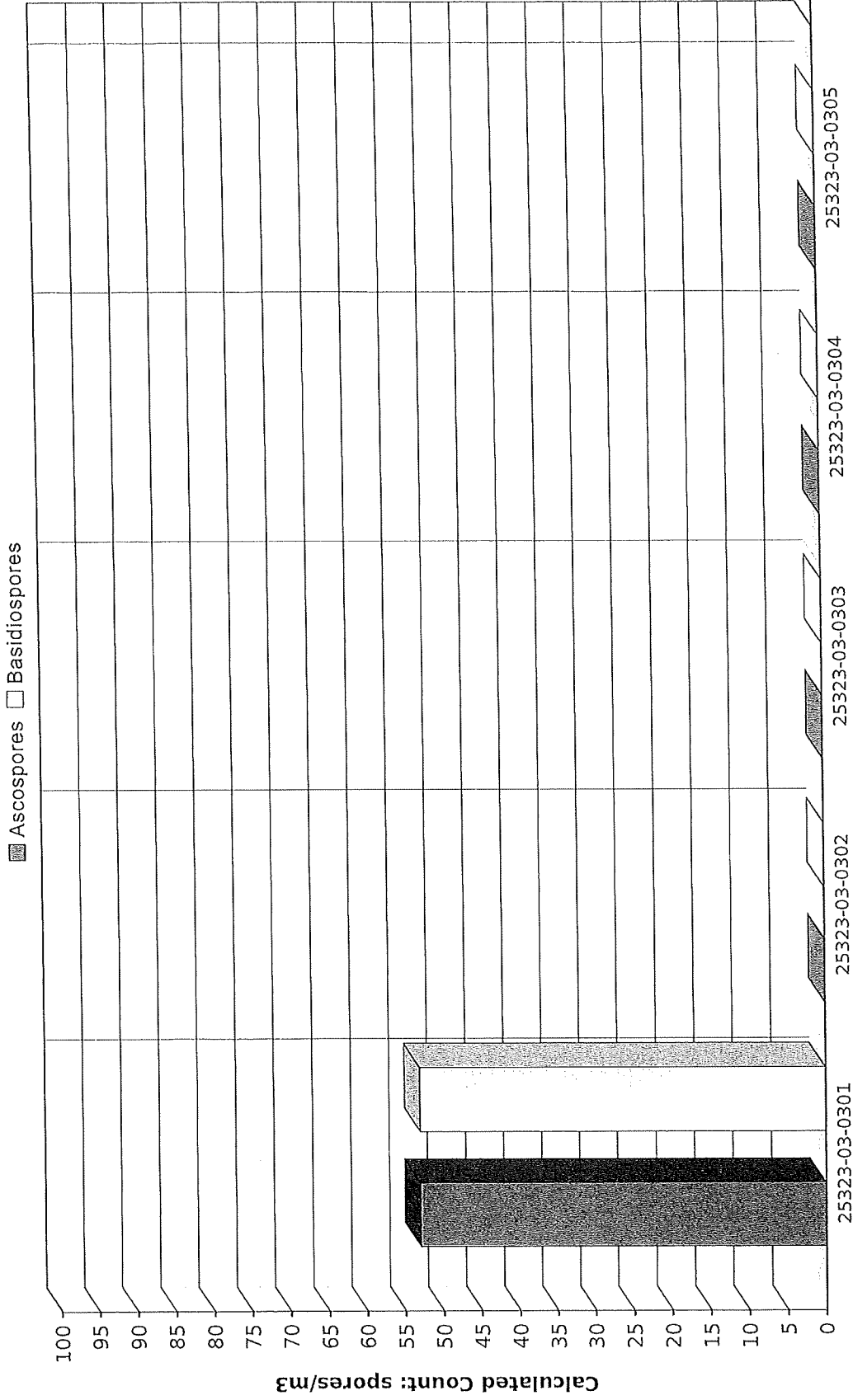
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03-06-2023: J-25323

1815 West Diehl Road, Suite 800, Naperville, IL 60563
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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY



Comments:

Note: Graphical output may understate the importance of certain "marker" genera.
Eurofins EPK Built Environment Testing, LLC

East: (866) 871-1984
Central: (800) 651-4802
West: (866) 888-6653

CONTACT INFORMATION

Company: JMS Environmental Associates, Ltd. Address: 816 Burr Oak Drive, Westmont, IL
Special Instructions:
Contact: Joyce Ciesla E-mail Results to: jciesla@jmsenviro.com
Phone: 630-204-8580

PROJECT INFORMATION

Project ID: **1-25323**
Project Description: **Kildeer**
Project Zip Code: **60047**
Sampling Date & Time: **1/31/23**
Sampled By: **Joyce Ciesla**
Turn Around Time Codes (TAT):
STD - Standard (DEF-ADLT)
ND - Next Business Day
SD - Same Business Day Rush
WH - Weekend / Holiday

Sample ID	Description	Sample Type (Below)	TAT (above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
0301	Outside Front Door	ST	STD	75	
0302	Lower Library Corridor	ST	STD	75	
0303	Upper Library by 3D Printers	ST	STD	75	
0304	Hallway Near Little Gym	ST	STD	75	
0305	Outside Front Door 1	ST	STD	75	

SAMPLE TYPE CODES

BE - BioCassette™	T - Tape	D - Dust
ATIS - Anduisan	SW - Swab	W - Water
SAS - Surface Air Sampler	B - Bulk	SO - Soil
O - Other:		

RELINQUISHED BY

[Signature]
DATE & TIME: 3/3/23 1:00 PM

RECEIVED BY

[Signature]
DATE & TIME: MAR 3 2023

FUNGAL ANALYSIS

REQUESTED SERVICES (Check boxes below)

Micro-Culturable	Culturable	Spore Trap	Spore Trap Analysis - Other particles	Spore Trap Analysis	Air Fungi (Genus ID + Asp. spec.)	Air Fungi - Full speciation Pen. & Clad genus only	Quantitative Spore Count Direct Exam	Dust Characterization	Direct Microscopic Exam (Qualitative)	1-Media Surface Fungi (Genus ID + Asp. speciation)	1-Media Surface Fungi - Full spec. Pen/Clad genus only	2-Media Surface Fungi (Genus ID + Asp. sp.)	2-Media Surface Fungi - Full spec. Pen/Clad	3-Media Surface Fungi (Genus ID + Asp. sp.)	3-Media Surface Fungi - Full speciation	3-Media Surface Fungi - Full speciation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

BioCassette™, And Water, Bulk, Dust, S

003185352

JMS Environmental Associates, Ltd.

Kildeer CCSD#96: IAQ Kildeer School

J-25384

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APPENDIX "C"

**Laboratory Certification
STAT Analysis Corporation & Eurfins/EMLab**



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
NELAP - RECOGNIZED



ENVIRONMENTAL LABORATORY ACCREDITATION

is hereby granted to

STAT Analysis Corporation
2242 West Harrison Street
Chicago, IL 60612

NELAP ACCREDITED

Accreditation Number #100445



According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

Primary Accrediting Authority: Illinois

Millie Rose
Supervisor
Environmental Laboratory Accreditation Program

Certificate No: 1004452022-10

Expiration Date: 9/30/2023

Issued On: 9/26/2022

Field of Testing /Matrix: CWA (Non Potable Water)

Aroclor-1232 (PCB-1232)	IL
Aroclor-1242 (PCB-1242)	IL
Aroclor-1248 (PCB-1248)	IL
Aroclor-1254 (PCB-1254)	IL
Aroclor-1260 (PCB-1260)	IL
beta-BHC (beta-Hexachlorocyclohexane)	IL
Chlordane (tech.)(N.O.S.)	IL
delta-BHC	IL
Dieldrin	IL
Endosulfan I	IL
Endosulfan II	IL
Endosulfan sulfate	IL
Endrin	IL
Endrin aldehyde	IL
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	IL
Heptachlor	IL
Heptachlor epoxide	IL
Methoxychlor	IL
Toxaphene (Chlorinated camphene)	IL

Method EPA 624

1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL
1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL
1,1-Dichloroethylene	IL
1,2-Dichloroethane (Ethylene dichloride)	IL
1,2-Dichloropropane	IL
1,3-Dichlorobenzene	IL
1,4-Dichlorobenzene	IL
2-Chloroethyl vinyl ether	IL
Acrolein (Propenal)	IL
Acrylonitrile	IL
Benzene	IL
Bromodichloromethane	IL
Bromoform	IL
Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
cis-1,3-Dichloropropene	IL
Ethylbenzene	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
Tetrachloroethylene (Perchloroethylene)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL

Field of Testing /Matrix: CWA (Non Potable Water)

n-Nitrosodiphenylamine	IL
Pentachlorophenol	IL
Phenanthrene	IL
Phenol	IL
Pyrene	IL
Method SM 2310 B-1997	
Acidity, as CaCO ₃	IL
Method SM 2320 B-1997	
Alkalinity as CaCO ₃	IL
Method SM 2540 B Rev: 20th ED	
Residue-total	IL
Method SM 2540 C-1997	
Residue-filterable (TDS)	IL
Method SM 2540 D-1997	
Residue-nonfilterable (TSS)	IL
Method SM 2540 E-1997	
Residue-volatile	IL
Method SM 2540 F-1997	
Residue-settleable	IL
Method SM 3500-Cr B-2009	
Chromium VI	IL
Method SM 4500-Cl G-2000	
Total residual chlorine	IL
Method SM 4500-CN⁻ E-1999	
Cyanide	IL
Method SM 4500-H⁺ B-2000	
pH	IL
Method SM 4500-NH₃ G Rev: 21st ED	
Ammonia	IL
Method SM 4500-NO₃⁻ F-2000	
Nitrate	IL
Nitrate plus Nitrite as N	IL
Nitrite as N	IL
Method SM 4500-P E-1999	
Orthophosphate as P	IL
Phosphorus	IL
Method SM 5210 B-2001	
Biochemical oxygen demand	IL
Carbonaceous BOD, CBOD	IL

Field of Testing /Matrix: CWA (Solid & Hazardous Material)

Endrin aldehyde	IL
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	IL
Heptachlor	IL
Heptachlor epoxide	IL
Methoxychlor	IL
Toxaphene (Chlorinated camphene)	IL

Method EPA 624

1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL
1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL
1,1-Dichloroethylene	IL
1,2-Dichloroethane (Ethylene dichloride)	IL
1,2-Dichloropropane	IL
2-Chloroethyl vinyl ether	IL
Acrolein (Propenal)	IL
Acrylonitrile	IL
Benzene	IL
Bromodichloromethane	IL
Bromoform	IL
Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
cis-1,3-Dichloropropene	IL
Ethylbenzene	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
Tetrachloroethylene (Perchloroethylene)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL
Vinyl chloride	IL
Xylene (total)	IL

Method EPA 625

1,2,4-Trichlorobenzene	IL
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	IL
2,4,5-Trichlorophenol	IL
2,4,6-Trichlorophenol	IL
2,4-Dichlorophenol	IL
2,4-Dimethylphenol	IL
2,4-Dinitrophenol	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL
2-Chloronaphthalene	IL
2-Chlorophenol	IL

Field of Testing /Matrix: *CWA (Solid & Hazardous Material)*
Carbonaceous BOD, CBOD

IL

Field of Testing /Matrix: RCRA (Non Potable Water)

alpha-BHC (alpha-Hexachlorocyclohexane)	IL
alpha-Chlordane, cis-Chlordane	IL
beta-BHC (beta-Hexachlorocyclohexane)	IL
Chlordane (tech.)(N.O.S.)	IL
delta-BHC	IL
Dieldrin	IL
Endosulfan I	IL
Endosulfan II	IL
Endosulfan sulfate	IL
Endrin	IL
Endrin aldehyde	IL
Endrin ketone	IL
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	IL
gamma-Chlordane	IL
Heptachlor	IL
Heptachlor epoxide	IL
Methoxychlor	IL
Toxaphene (Chlorinated camphene)	IL

Method EPA 8081B

4,4'-DDD	IL
4,4'-DDE	IL
4,4'-DDT	IL
Aldrin	IL
alpha-BHC (alpha-Hexachlorocyclohexane)	IL
alpha-Chlordane, cis-Chlordane	IL
beta-BHC (beta-Hexachlorocyclohexane)	IL
Chlordane (tech.)(N.O.S.)	IL
delta-BHC	IL
Dieldrin	IL
Endosulfan I	IL
Endosulfan II	IL
Endosulfan sulfate	IL
Endrin	IL
Endrin aldehyde	IL
Endrin ketone	IL
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	IL
gamma-Chlordane	IL
Heptachlor	IL
Heptachlor epoxide	IL
Methoxychlor	IL
Toxaphene (Chlorinated camphene)	IL

Method EPA 8082 Rev: 0

Aroclor-1016 (PCB-1016)	IL
Aroclor-1221 (PCB-1221)	IL
Aroclor-1232 (PCB-1232)	IL
Aroclor-1242 (PCB-1242)	IL
Aroclor-1248 (PCB-1248)	IL
Aroclor-1254 (PCB-1254)	IL
Aroclor-1260 (PCB-1260)	IL

Method EPA 8082A

Aroclor-1016 (PCB-1016)	IL
-------------------------	----

Field of Testing /Matrix: RCRA (Non Potable Water)

cis-1,3-Dichloropropene	IL
Dibromomethane (Methylene bromide)	IL
Dichlorodifluoromethane (Freon-12)	IL
Diethyl ether	IL
Ethyl acetate	IL
Ethylbenzene	IL
Hexachlorobutadiene	IL
Isobutyl alcohol (2-Methyl-1-propanol)	IL
Isopropyl alcohol (2-Propanol, Isopropanol)	IL
Isopropylbenzene	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
m-Xylene	IL
Naphthalene	IL
n-Butyl alcohol (1-Butanol, n-Butanol)	IL
n-Butylbenzene	IL
o-Xylene	IL
p-Xylene	IL
sec-Butylbenzene	IL
Styrene	IL
tert-Butylbenzene	IL
Tetrachloroethylene (Perchloroethylene)	IL
Tetrahydrofuran (THF)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL
Vinyl acetate	IL
Vinyl chloride	IL
Xylene (total)	IL
Method EPA 8260C	
1,1,1,2-Tetrachloroethane	IL
1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL
1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL
1,1-Dichloroethylene	IL
1,1-Dichloropropene	IL
1,2,3-Trichlorobenzene	IL
1,2,3-Trichloropropane	IL
1,2,4-Trichlorobenzene	IL
1,2,4-Trimethylbenzene	IL
1,2-Dibromo-3-chloropropane (DBCP)	IL
1,2-Dibromoethane (EDB, Ethylene dibromide)	IL
1,2-Dichloroethane (Ethylene dichloride)	IL
1,2-Dichloropropane	IL
1,3,5-Trimethylbenzene	IL
1,3-Dichloro-2-propanol	IL
1,3-Dichlorobenzene	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Vinyl chloride	IL
Method EPA 8270C Rev: 3	
1,2,4-Trichlorobenzene	IL
1,2-Diphenylhydrazine	IL
1,3-Dichlorobenzene	IL
1,4-Dichlorobenzene	IL
1,4-Dinitrobenzene	IL
1-Methylnaphthalene	IL
2,4,5-Trichlorophenol	IL
2,4,6-Trichlorophenol	IL
2,4-Dichlorophenol	IL
2,4-Dimethylphenol	IL
2,4-Dinitrophenol	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL
2-Chloronaphthalene	IL
2-Chlorophenol	IL
2-Methylnaphthalene	IL
2-Methylphenol (o-Cresol)	IL
2-Nitroaniline	IL
2-Nitrophenol	IL
3,3'-Dichlorobenzidine	IL
3-Methylphenol (m-Cresol)	IL
3-Nitroaniline	IL
4-Bromophenyl phenyl ether	IL
4-Chloro-3-methylphenol	IL
4-Chloroaniline	IL
4-Chlorophenyl phenylether	IL
4-Methylphenol (p-Cresol)	IL
4-Nitroaniline	IL
4-Nitrophenol	IL
Acenaphthene	IL
Acenaphthylene	IL
Aniline	IL
Anthracene	IL
Benzidine	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzoic acid	IL
Benzyl alcohol	IL
bis(2-Chloroethoxy)methane	IL
bis(2-Chloroethyl) ether	IL
bis(2-Ethylhexyl) phthalate (DEHP)	IL
Butyl benzyl phthalate	IL
Carbazole	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Dibenzofuran	IL
Diethyl phthalate	IL
Dimethyl phthalate	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Acenaphthylene	IL
Aniline	IL
Anthracene	IL
Benzidine	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzoic acid	IL
Benzyl alcohol	IL
bis(2-Chloroethoxy)methane	IL
bis(2-Chloroethyl) ether	IL
bis(2-Ethylhexyl) phthalate (DEHP)	IL
Butyl benzyl phthalate	IL
Carbazole	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Dibenzofuran	IL
Diethyl phthalate	IL
Dimethyl phthalate	IL
Di-n-butyl phthalate	IL
Di-n-octyl phthalate	IL
Diphenylamine	IL
Fluoranthene	IL
Fluorene	IL
Hexachlorobenzene	IL
Hexachlorobutadiene	IL
Hexachlorocyclopentadiene	IL
Hexachloroethane	IL
Indeno(1,2,3-cd) pyrene	IL
Isophorone	IL
Naphthalene	IL
Nitrobenzene	IL
n-Nitrosodimethylamine	IL
n-Nitrosodi-n-propylamine	IL
n-Nitrosodiphenylamine	IL
Pentachlorophenol	IL
Phenanthrene	IL
Phenol	IL
Pyrene	IL
Pyridine	IL
Method EPA 8321B	
2,4,5-T	IL
2,4-D	IL
2,4-DB	IL
Dalapon	IL
Dicamba	IL
Dichloroprop (Dichlorprop)	IL
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	IL
MCPA	IL
MCPP	IL
Silvex (2,4,5-TP)	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Method EPA 1010A	
Ignitability	IL
Method EPA 1311 Rev: 0	
Toxicity Characteristic Leaching Procedure (TCLP)	IL
Method EPA 1312 Rev: 0	
Synthetic Precipitation Leaching Procedure (SPLP)	IL
Method EPA 6020A Rev: 1	
Aluminum	IL
Antimony	IL
Arsenic	IL
Barium	IL
Beryllium	IL
Boron	IL
Cadmium	IL
Calcium	IL
Chromium	IL
Cobalt	IL
Copper	IL
Iron	IL
Lead	IL
Magnesium	IL
Manganese	IL
Molybdenum	IL
Nickel	IL
Potassium	IL
Selenium	IL
Sodium	IL
Thallium	IL
Vanadium	IL
Zinc	IL
Method EPA 7000B	
Lead	IL
Method EPA 7196A Rev: 1	
Chromium VI	IL
Method EPA 7471B	
Mercury	IL
Method EPA 8015B Rev: 2	
Diesel range organics (DRO)	IL
Ethylene glycol	IL
Gasoline range organics (GRO)	IL
Method EPA 8015C	
Diesel range organics (DRO)	IL
Gasoline range organics (GRO)	IL
Method EPA 8081A Rev: 1	
4,4'-DDD	IL
4,4'-DDE	IL
4,4'-DDT	IL
Aldrin	IL
alpha-BHC (alpha-Hexachlorocyclohexane)	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Aroclor-1232 (PCB-1232)	IL
Aroclor-1242 (PCB-1242)	IL
Aroclor-1248 (PCB-1248)	IL
Aroclor-1254 (PCB-1254)	IL
Aroclor-1260 (PCB-1260)	IL

Method EPA 8260B

1,1,1,2-Tetrachloroethane	IL
1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	IL
1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL
1,1-Dichloroethylene	IL
1,1-Dichloropropene	IL
1,2,3-Trichlorobenzene	IL
1,2,3-Trichloropropane	IL
1,2,4-Trichlorobenzene	IL
1,2,4-Trimethylbenzene	IL
1,2-Dibromo-3-chloropropane (DBCP)	IL
1,2-Dibromoethane (EDB, Ethylene dibromide)	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dichloroethane (Ethylene dichloride)	IL
1,2-Dichloropropane	IL
1,3,5-Trimethylbenzene	IL
1,3-Dichloropropane	IL
1,4-Dioxane (1,4- Diethyleneoxide)	IL
2,2-Dichloropropane	IL
2-Butanone (Methyl ethyl ketone, MEK)	IL
2-Chloroethyl vinyl ether	IL
2-Chlorotoluene	IL
2-Hexanone	IL
2-Nitropropane	IL
4-Chlorotoluene	IL
4-Isopropyltoluene (p-Cymene,p-Isopropyltoluene)	IL
4-Methyl-2-pentanone (MIBK)	IL
Acetone	IL
Acrolein (Propenal)	IL
Benzene	IL
Bromobenzene	IL
Bromochloromethane	IL
Bromodichloromethane	IL
Bromoform	IL
Carbon disulfide	IL
Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
cis-1,2-Dichloroethylene	IL
cis-1,3-Dichloropropene	IL
Dibromomethane (Methylene bromide)	IL
Dichlorodifluoromethane (Freon-12)	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

2-Butanone (Methyl ethyl ketone, MEK)	IL
2-Chloroethyl vinyl ether	IL
2-Chlorotoluene	IL
2-Hexanone	IL
2-Nitropropane	IL
4-Chlorotoluene	IL
4-Isopropyltoluene (p-Cymene,p-Isopropyltoluene)	IL
4-Methyl-2-pentanone (MIBK)	IL
Acetone	IL
Acrolein (Propenal)	IL
Acrylonitrile	IL
Benzene	IL
Bromobenzene	IL
Bromochloromethane	IL
Bromodichloromethane	IL
Bromoform	IL
Carbon disulfide	IL
Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
cis-1,2-Dichloroethylene	IL
cis-1,3-Dichloropropene	IL
Dibromomethane (Methylene bromide)	IL
Dichlorodifluoromethane (Freon-12)	IL
Diethyl ether	IL
Ethyl acetate	IL
Ethylbenzene	IL
Isopropylbenzene	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl tert-butyl ether (MTBE)	IL
m-Xylene	IL
Naphthalene	IL
n-Butyl alcohol (1-Butanol, n-Butanol)	IL
n-Butylbenzene	IL
o-Xylene	IL
p-Xylene	IL
sec-Butylbenzene	IL
Styrene	IL
tert-Butylbenzene	IL
Tetrachloroethylene (Perchloroethylene)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL
Vinyl acetate	IL
Vinyl chloride	IL

Method EPA 8270C Rev: 3

1,2,4-Trichlorobenzene

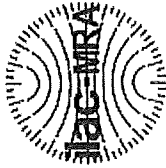
IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Diphenylamine	IL
Fluoranthene	IL
Fluorene	IL
Hexachlorobenzene	IL
Hexachlorobutadiene	IL
Hexachlorocyclopentadiene	IL
Hexachloroethane	IL
Indeno(1,2,3-cd) pyrene	IL
Isophorone	IL
Naphthalene	IL
Nitrobenzene	IL
n-Nitrosodimethylamine	IL
n-Nitrosodi-n-propylamine	IL
n-Nitrosodiphenylamine	IL
Pentachlorophenol	IL
Phenanthrene	IL
Phenol	IL
Pyrene	IL
Pyridine	IL
Method EPA 8270D	
1,2,4-Trichlorobenzene	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Diphenylhydrazine	IL
1,4-Dinitrobenzene	IL
1-Methylnaphthalene	IL
2,4,5-Trichlorophenol	IL
2,4,6-Trichlorophenol	IL
2,4-Dichlorophenol	IL
2,4-Dimethylphenol	IL
2,4-Dinitrophenol	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL
2-Chloronaphthalene	IL
2-Chlorophenol	IL
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	IL
2-Methylnaphthalene	IL
2-Methylphenol (o-Cresol)	IL
2-Nitroaniline	IL
2-Nitrophenol	IL
3,3'-Dichlorobenzidine	IL
3-Methylphenol (m-Cresol)	IL
3-Nitroaniline	IL
4-Bromophenyl phenyl ether	IL
4-Chloro-3-methylphenol	IL
4-Chloroaniline	IL
4-Chlorophenyl phenylether	IL
4-Methylphenol (p-Cresol)	IL
4-Nitroaniline	IL
4-Nitrophenol	IL
Acenaphthene	IL
Acenaphthylene	IL
Aniline	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Method EPA 9012A Rev: 1 Cyanide	IL
Method EPA 9012B Cyanide	IL
Method EPA 9045C Rev: 3 pH	IL
Method EPA 9045D pH	IL
Method EPA 9066 Rev: 0 Total phenolics	IL
Method EPA 9095A Paint Filter Test	IL
Method EPA 9095B Paint Filter Test	IL



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

Eurofins EMLab P&K

1815 West Diehl Rd, Suite 800, Naperville, IL 60563-6421

Laboratory ID: LAP-176641

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | | |
|-------------------------------------|----------------------------|--------------------------------------|
| <input type="checkbox"/> | INDUSTRIAL HYGIENE | Accreditation Expires: |
| <input type="checkbox"/> | ENVIRONMENTAL LEAD | Accreditation Expires: |
| <input checked="" type="checkbox"/> | ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: June 01, 2023 |
| <input type="checkbox"/> | FOOD | Accreditation Expires: |
| <input type="checkbox"/> | UNIQUE SCOPES | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Cheryl O. Morton

Cheryl O Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 05/31/2021

Revision19: 09/01/2020



EMLAP Scope Category	Field of Testing (FOT)	Component, parameter or characteristic tested	Method	Method Description <i>(for internal methods only)</i>
				Water/Liquid Samples for Quantitative Fungal and /or Bacterial Analysis
Fungal	Surface - Culturable	Dust, Swab, Bulk, Water/Liquids, Wipes, Contact Plates	EM-MY-S-2584	Analysis of Dust, Swab, Water, and Bulk Samples for Culturable Fungi
Fungal	Surface - Direct Examination	Tape, Swab, Wipe, Bulk, Dust, Soil	EM-MY-S-1039	Preparation and Analysis of Tape, Swab, Wipe, Bulk and Dust - Soil Samples for Qualitative Direct Microscopic Examination
Fungal	Surface - Direct Examination	Tape, Swab, Wipe, Bulk, Dust, Soil	EM-MY-S-1041	Preparation and Analysis of Tape, Swab, Wipe, Bulk and Dust - Soil Samples for Quantitative Direct Microscopic Examination

A complete listing of currently accredited EMLAP laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>