

May 23, 2022

Mr. Michael Lane
Environmental Health & Safety Manager
Office of Court Management/
Facilities Management & Court Capital
Massachusetts Superior Courts
Lowell Justice Center
370 Jackson Street
Lowell, MA 01852

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www.axiomenv.com

VIA EMAIL

AXIOM Project 01275.008

RE: Indoor Air Quality Testing, 80 State Street, Springfield, MA

Dear Mr. Lane,

At your request, Axiom Partners, Inc. (AXIOM) performed indoor air quality (IAQ) testing in the referenced superior courthouse building. The testing was performed on April 25, 2022 by AXIOM Industrial Hygienist, Ryan Burns and consisted of the following:

I. INDOOR AIR TESTING PROCESS

1. Visual Assessment of Interior Spaces

AXIOM performed a general inspection of the interior spaces for visible signs of potential water damage or mold/fungal growth. This did <u>not</u> include above ceiling spaces and HVAC equipment.

2. General Air Quality Testing Parameters

AXIOM performed testing of IAQ parameters throughout the building using a direct reading Q-Trak[®] IAQ Monitor which continuously measures and records levels of carbon monoxide (CO), carbon dioxide (CO₂), temperature and relative humidity (rH).

AXIOM positioned the Q-Trak in 29 locations over the course of the day, with run times in each location ranging between 10 and 20 minutes. Locations were chosen to represent general air quality and the locations are documented on the attached floor plans.

Results were compared with established indoor air quality guidelines which are used to assess the adequacy of indoor air quality and ventilation.

3. Air Testing for Total Volatile Organic Compounds (TVOCs)

A calibrated TSI GM460 Gas Monitor was used to take real-time spot readings for TVOCs¹ in multiple locations throughout the building. The GM460 is a hand-held device that detects and measures more than 600 of the most common TVOCs and has a lower detection limit of 1.0 ppb.



¹ Includes a library of over 600 common VOCs

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The screening locations and associated Gas Monitor responses were be recorded on an indoor air sampling form. The locations mimicked the Q-Trak sampling locations.

4. Air Testing for Total Dust

AXIOM performed dust monitoring throughout the building using a direct-reading SidePak AM520 dust monitor. This portable unit measured and recorded total dust concentrations.

The SidePak™ Personal Aerosol Monitor AM520i is a portable, battery-operated, data-logging, device that provides real-time aerosol mass concentration readings of dusts, fumes, mists, smoke and fog.

AXIOM periodically moved the SidePak units throughout the building mimicking the Q-Trak and Gas Monitor sampling locations.

5. Air Testing for Non-Culturable Mold (Fungi)

AXIOM also collect air samples for direct optical examination for mold and fungal spores using Allergenco-D air sampling cassettes which are used for the rapid collection and analysis of a wide range of airborne aerosols, including fungal spores, pollen, insect parts, skin cell fragments, fibers, and inorganic particulates. AXIOM collected eight (8) air samples from inside the building and two (2) outdoor baseline/control samples (10 total samples).

The air samples were analyzed by EMSL Analytical, inc. (EMSL) located in Woburn, MA. EMSL is accredited by the American Industrial Hygiene Association (AlHA) for fungal analysis. A chain-of-custody form was used to document sample handling and to specify analytical requirements.

II. SUMMARY OF INDOOR AIR TESTING

1. Observations

During the course of performing the air testing, AXIOM inspected interior spaces in the building and made the following observations:

- 1. Most areas in the building appeared to be relatively clean.
- 2. No visible signs and no odors associated with mold/fungi were noted in the building areas investigated.
- 3. Water damaged ceiling tiles that were observed in previous visits have since been replaced
- 4. HVAC diffusers appear to have been surface cleaned at the time of ceiling tile replacement.

2. General Air Quality Testing Parameters, TVOCs and Total Dust

Table 1 provides a summary of the Q-Trak, SidePak and GM460 indoor air quality testing. In addition to taking regular measurements and recording them on a field form, the Q-Trak and SidePak units were operated in the data logging mode where each recorded and logged readings every 60 seconds throughout the sampling period. The GM460 is an automatic datalogging device that collects readings every 5 minutes when operational.



TABLE 1
SUMMARY OF Q-TRAK, SIDEPAK AND GM460 TESTING RESULTS

AIR QUALITY PARAMETER	MINIMUM / MAXIMUM OF MEASURED VALUES	AVERAGE OF MEASURED VALUES	Guidelines
Temperature (T)	69.7 / 76.4 °F	73.4 °F	68 – 75 °F ^{a,b} 73 – 79 °F (summer)
Relative Humidity (rH)	17.0 / 26.7 %	22.9 %	30 - 60% ^{a,b}
Carbon Dioxide (CO ₂)	438 / 700 ppm	538 ppm	≤ 800 ppm ^{b,c}
Carbon Monoxide (CO)	0.0 / 0.2 ppm	0.0 ppm	9 ppm ^{a,b} /50 ppm ^d
Total Volatile Organic Compounds (TVOC)	0 / 0.192 ppm	0.011 ppm	0.3 ppm ^{b, e}
Total Airborne Particulate	0.002 / 0.079 mg/m ³	0.008 mg/m ³	15.0 mg/m³/5 ^d

^a ASHRAE 55-2013 Std. (American Society of Heating, Refrigerating & Air Conditioning Engineers).

Attachment 1 includes the field recording forms. The Q-Trak, SidePak and GM460 data summaries and graphs are provided in Attachment 2.

4. Air Testing for Non-Culturable Mold (Fungi)

Table 2 provides a summary of the spore trap air sampling results and the complete lab report is provided in Attachment 3.

TABLE 2
SUMMARY OF AIRBORNE FUNGAL SPORE TESTING RESULTS

SAMPLE NUMBER	LOCATION	TOTAL FUNGI (S/m³) ¹	MOLD SPORE TYPE
4541413	3 rd Floor, Meeting Room 301	60	Aspergillus/Penicillium, Basidiospores
4541494	3 rd Floor, Office 341	20	Aspergillus/Penicillium
4541520	2 nd Floor, Probation Office 242	20	Cladosporium
4541457	2 nd Floor, Conference Room A 220	130	Aspergillus/Penicillium, Myxomycetes
4541521	1 st Floor, Office 126	80	Basidiospores, Myxomycetes
4541533	1 st Floor, Juvenile Court Room #3	160	Aspergillus/Penicillium, Basidiospores, Cladosporium, Myxomycetes
4541506	Basement, Juvenile Detention A	40	Myxomycetes
4541437	Basement, Basement Storage B15	40	Myxomycetes
4541422	Building Exterior, Housing Entrance	120	Ascospores, Basidiospores, Myxomycetes
4541435	Building Exterior, Juvenile Entrance	1,710	Ascospores, Aspergillus/Penicillium, Basidiospores, Myxomycetes

 $^{^{1}}$ S/ m^{3} = spore counts per cubic meter of air



b ≤ means less than or equal to, °F = degrees Fahrenheit, % = percent, ppm = parts per million, mg/m³ = milligrams per cubic meter; TWA = Time Weighted Average over 8-hours

[°] Occupational Safety & Health Administration (OSHA) proposed indoor air quality (IAQ) rule (59 FR 15968).

^d OSHA (Occupational Safety and Health Administration) Permissible Exposure Limit.

e Refer to attached Total VOC summary table in Attachment 6.

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Indoor Air Quality Testing Massachusetts Superior Courthouse 80 State St., Springfield, MA

Airborne fungi below 250 S/m³ are normally not a concern for indoor environments². Airborne levels outdoors are normally between 500 and 1,000 S/m³, but, can easily exceed 10,000 S/m³ during the spring and summer months. Indoor airborne levels between 250 and 1,000 S/m³ are typically considered to be moderate and levels that exceed 1,000 S/m³ are often considered elevated³ and may result in active mold growth.

It is important to note that bioaerosols (fungi/mold) are always present and it is the excess quantity of microorganisms that can be of concern. By comparing the microbiological profiles of indoor sample results to outside samples, it is often possible to determine if amplification of microorganisms is occurring within the building.

Comparing the microbial profiles of the air samples, AXIOM has concluded that the airborne fungal spore levels on the days of the sampling were not elevated and amplification was not occurring.

III. CONCLUSIONS

In summary, based on the results of the air quality testing described herein, AXIOM did not identify any air quality conditions or levels for measured parameters that were significantly outside acceptable levels of indoor air quality, however the relative humidity measurements were slightly below the ASHRAE guidelines during this visit. It is not uncommon to see low humidity levels during seasonal transitions particularly when heating systems are operating during cooler nights followed by warmer daytime temperatures. Prolonged exposure to low-humidity environments may cause eye irritation, dry skin and other negative effects.

Although the TVOC levels are considered acceptable, it should be noted that as a result of increased cleaning and sanitizing inside building due to Covid-19, reports of higher-than-normal levels of TVOCs inside buildings have been seen.

Please do not hesitate to contact us if you have any questions.

Sincerely,

Evan MacArthur

Project Manager/Sr. IH

Stephen E. Minassian

Principal

Edward K. Kearney, CIH

Principal

Attachments: A1, Field data forms

A2, Direct Read Instrument Reports

A3, Fungi/mold testing report A4, Sample location floor plans A5, TVOC reference table



² New York Committee for Occupational Safety and Health

³ Occupational Safety and Health Administration Technical Manual, Section III, Chapter 2, § IV (c)

ATTACHMENT 1 FIELD DATA FORMS



IAQ READINGS

Date:04/25/22Location:80 State St, Springfield, MAProject No.:01275.008Project Name:Indoor Air Quality InvestigationIndustrial Hygienist(s):Ryan Burns

Тіме	LOCATION	TEMP (°F)	RH (%)	CO ₂ (PPM)	CO (PPM)	VOCs (PPB)	PART. (MG/M ³)
8:50	3 rd Floor, Employee Break Room 307	73.2	25.7	550	0	N/A	0.01
9:03	3 rd Floor Meeting Room 301	71.6	26	577	0	N/A	0.01
9:15	3 rd Floor, Peck Library & Conference Room 321	72.2	25.8	578	0	N/A	0.008
9:28	3 rd Floor, Office 305	72.6	24.2	564	0	N/A	0.008
9:30	3 rd Floor, Juvenile Probation Department Room 338	71	27.7	542	0	N/A	0.012
9:40	3 rd Floor, Office 341	74.9	22.8	511	0	N/A	0.008
9:54	3 rd Floor, Employee Break Room 336	72.7	24.1	546	0	N/A	0.001
10:06	3 rd Floor, Elevator Lobby by Court Clinic 328	73	23.5	488	0	N/A	0.006
10:20	2 nd Floor, Probation Office 242	72.9	22.4	595	0	N/A	0.003
10:33	2 nd Floor, Probation Office 253	72.1	21.2	444	0	N/A	0.012
10:47	2 nd Floor, Hall by Judicial Department Office 227	71.5	24	529	0	N/A	0.002
11:02	2 nd Floor, Housing Court Room #1	72.8	21.7	497	0	N/A	0.009
11:15	2 nd Floor, Hall by Housing Court Room #2	72	19.6	446	0	N/A	0.01
11:31	2 nd Floor, Conference Room A 220	74.5	21.5	517	0	N/A	0.003
11:44	2 nd Floor, Stairs 210	74.2	23.1	645	0	N/A	0.005
11:58	1st Floor, Hall by Bathrooms 114	74.1	23.3	549	0	N/A	0
12:13	1 st Floor, Housing Court Clerks Office	74.1	23.7	564	0	N/A	0
12:25	1 st Floor, Office 126	75.4	22.7	605	0	N/A	0.003
12:38	1st Floor, Hallway by Juvenile Court Room #2	75.8	22.4	666	0	N/A	0.003
12:51	1st Floor, Juvenile Court Room #3	74.9	23.3	575	0	N/A	0.003
13:03	1st Floor, Public Waiting Room 155	76.2	21.6	627	0	N/A	0.001
13:15	1 st Floor, Clerk Magistrate's Office	75	22.2	500	0	N/A	0.004
13:30	Basement, Juvenile Detention A	69.6	26	556	0	N/A	0.002
13:43	Basement, Juvenile Detention B	72	23.9	513	0	N/A	0
13:57	Basement, DA Waiting Room B12	73.6	22.8	504	0	N/A	0.001

[°]F = degrees Fahrenheit; % = percent; ppm = parts per million, mg/m³ = milligrams per cubic meter



IAQ READINGS

Date:	04/25/22	Location:	80 State St, Springfield, MA
Project No.:	01275.008	Project Name:	Indoor Air Quality Investigation
Industrial Hygienist(s)	Rvan Burns	-	

TIME	LOCATION	TEMP (°F)	RH (%)	CO ₂ (PPM)	CO (PPM)	VOCs (PPB)	PART. (MG/M ³)
14:09	Basement, Storage Room B15	74.4	20	490	0	N/A	0.001
14:19	Basement, Conference Room B30	74.1	20.3	489	0	N/A	0.004
14:30	Basement, Office B34	71.8	25.9	468	0	N/A	0.004
14:44	Bldg, Exterior, Housing Court Entry	74.3	17	444	0.0	N/A	0.012



ATTACHMENT 2

Q-TRAK REPORT & GRAPH,
SIDEPAK PARTICULATE REPORT & GRAPH
GM460 REPORT & GRAPH



TrackPro Report Page 1 of 1

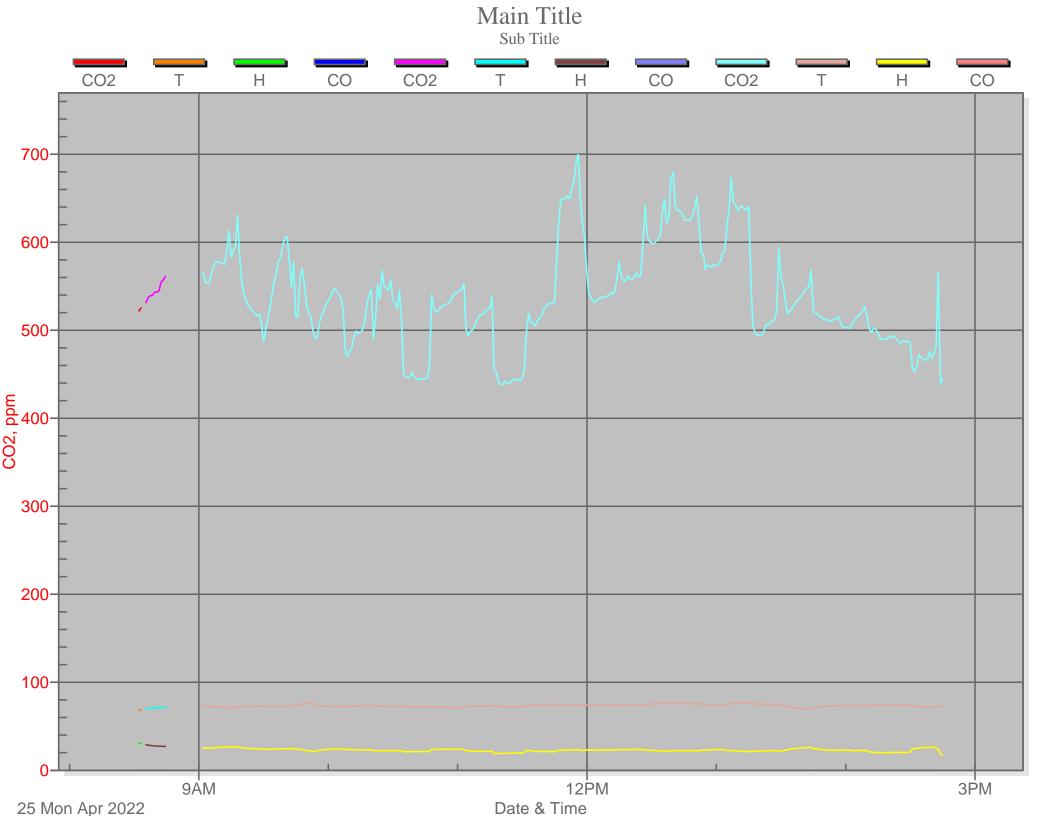
Test 003

Test 003

	Instrument	Data Properties		
Model	VelociCalc/Q-Trak 7575	Start Date	04/25/2022	
Meter S/N	7575X1910009	Start Time	09:00:56	
Probe Model	982	Stop Date	04/25/2022	
Probe S/N	P19140039	Stop Time	14:44:56	
Meter Cal Date	03/21/2022	Total Time	0:05:44:00	
		Logging Interval	60 seconds	

Statistics							
	CO2	Т	Н	СО			
Avg	538 ppm	73.4 deg F	22.9 %rh	0.0 ppm			
Max	700 ppm	76.4 deg F	26.7 %rh	0.1 ppm			
Max Date	04/25/2022	04/25/2022	04/25/2022	04/25/2022			
Max Time	11:55:56	13:14:56	09:13:56	09:01:56			
Min	438 ppm	69.7 deg F	17.0 %rh	0.0 ppm			
Min Date	04/25/2022	04/25/2022	04/25/2022	04/25/2022			
Min Time	11:20:56	13:42:56	14:44:56	13:44:56			
TWA (8 hr)	385			0.0			
TWA Start Date	04/25/2022			04/25/2022			
TWA Start Time	09:00:56			09:00:56			
TWA End Time	14:44:56			14:44:56			

about:blank 5/10/2022





Test 2 Report

Name: Test 2

Description: None

Location: Unknown

Instrument Name: SidePak Aerosol

Monitor

Device Model Number: AM520

Device Serial Number: 5201912003

Firmware Version: A.08

Last Factory Calibration: 3/23/2022

Data Properties					
Start Date	4/25/2022				
Start Time	8:51 AM				
End Date	4/25/2022				
End Time	2:47 PM				
Test Length	00:05:56:00				
Logging Interval	60 second(s)				
Number of Data Points	356				

Additional Information				
Threshold Alarms	1			
STEL event(s)	True			

Test Statistics							
Channel	Average	Minimum	Maximum	Cal Factor	TWA		
		0.001	0.021	1			
Aerosol (mg/m³)	0.006	04/25/2022	04/25/2022	Factory	0.004		
		01:51:04	08:52:04	03/30/2022			



GM460 Data Sample (Interval Trend)

Property Value

Name iv25082422_52H0254201-36RN

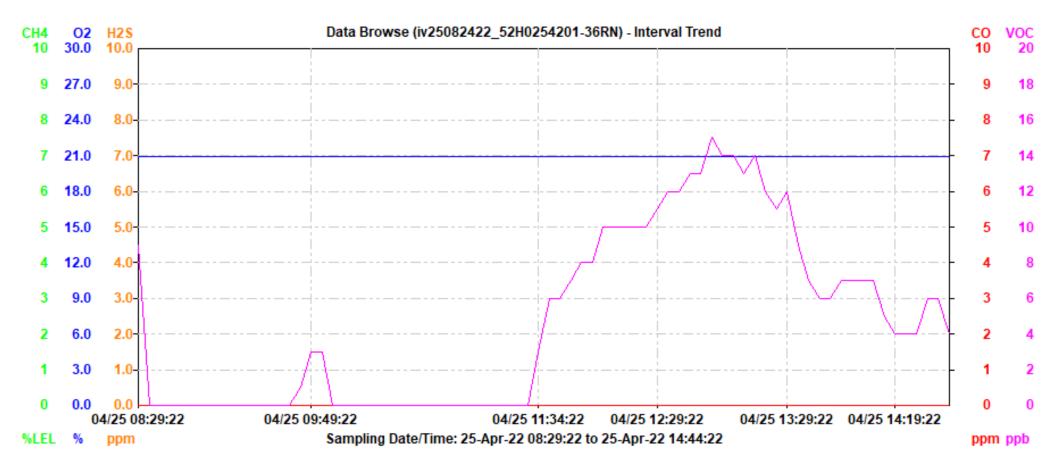
Sampling Date/Time 2022/04/25 08:24:22 to 2022/04/25 14:46:10

Serial No. 52H0254201-36RN
Station ID STATION_ID_001
User ID USER_ID_001
Data Count 76

Data Count 76
Interval Time (sec) 300

Gas(FullScale)	Avg	Max	Max Date/Time	Min	Min Date/Time	Warning	Alarm	STEL	TWA
CH4(100%LEL)	0 %LEL	0 %LEL	4/25/2022 8:24	****	****	10 %LEL	50 %LEL	****	****
O2(40.0%)	20.90%	6 21.20%	4/25/2022 11:23	20.90%	4/25/2022 8:24	19.50%	23.50%	****	****
H2S(100.0ppm)	0.0 ppm	0.0 ppm	4/25/2022 8:24	****	****	5.0 ppm	30.0 ppm	5.0 ppm	1.0 ppm
CO(500ppm)	0 ppm	0 ppm	4/25/2022 8:24	****	****	25 ppm	50 ppm	200 ppm	25 ppm
VOC(50000ppb)	4 ppb	201 ppb	4/25/2022 8:24	****	****	5000 ppb	10000 ppb	****	****
()									

No	Date/Time	CH4(100% O2(40.0%)	H2	2S(100.0	CO(500ppm)	VOC(5000	()
1	4/25/2022 8:29	0 %LEL	20.90% 0.0	0 ppm	0 ppm	9 ppb	
2	4/25/2022 8:34	0 %LEL	20.90% 0.0	0 ppm	0 ppm	0 ppb	
3	4/25/2022 8:39	0 %LEL	20.90% 0.0	0 ppm	0 ppm	0 ppb	
4	4/25/2022 8:44	0 %LEL	20.90% 0.0	0 ppm	0 ppm	0 ppb	
5	4/25/2022 8:49	0 %LEL	20.90% 0.0	0 ppm	0 ppm	0 ppb	
6	4/25/2022 8:54	0 %LEL	20.90% 0.0	0 ppm	0 ppm	0 ppb	
7	4/25/2022 8:59	0 %LEL	20.90% 0.0	0 ppm	0 ppm	0 ppb	
8	4/25/2022 9:04	0 %LEL	20.90% 0.0	0 ppm	0 ppm	0 ppb	
9	4/25/2022 9:09	0 %LEL	20.90% 0.0	0 ppm	0 ppm	0 ppb	
10	4/25/2022 9:14	0 %LEL	20.90% 0.0	0 ppm	0 ppm	0 ppb	
11	4/25/2022 9:19	0 %LEL	20.90% 0.0	0 ppm	0 ppm	0 ppb	
12	4/25/2022 9:24	0 %LEL	20.90% 0.0	0 ppm	0 ppm	0 ppb	
13	4/25/2022 9:29	0 %LEL	20.90% 0.0	0 ppm	0 ppm	0 ppb	
14	4/25/2022 9:34	0 %LEL	20.90% 0.0	0 ppm	0 ppm	0 ppb	
15	4/25/2022 9:39	0 %LEL	20.90% 0.0	0 ppm	0 ppm	0 ppb	
16	4/25/2022 9:44	0 %LEL	20.90% 0.0	0 ppm	0 ppm	1 ppb	



ATTACHMENT 3

EMSL MOLD AIR SAMPLING LABORATORY REPORT





5 Constitution Way, Unit A Woburn, MA 01801 Tel/Fax: (781) 933-8411 / (781) 933-8412 http://www.EMSL.com / bostonlab@emsl.com

EMSL Order: 132202969 Customer ID: AXIO80

Customer PO: Project ID:

Phone: (781) 213-9198

Attention: Evan MacArthur Axiom Partners, Inc.

50B Salem Street, Suite 103 Lynnfield, MA 01940 Fax: (781) 213-6992
Collected Date: 04/25/2022
Received Date: 04/28/2022

Analyzed Date: 05/05/2022

Project: 01275.008 / Hampden Superior Court

Test Report: Allergenco-D(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)									
Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	: 4541413 : 150		132202969-0002 4541494 150 3rd Floor, Office 341			132202969-0003 4541520 150 2nd Floor, Probation Office 242			
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	2	40	66.7	1	20	100	-	-	-
Basidiospores	1	20	33.3	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	1	20	100
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Helicoma	-	-	-	-	-	-	-	-	-
Total Fungi	3	60	100	1	20	100	1	20	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	1	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

No discernable field blank was submitted with this group of samples.

St. P.S.

Steve Grise, 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 note. High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. ***Denotes particles found at 300X. *.**Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. Skin & Fibrous ratings: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-100%) of the background particles.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AlHA-LAP, LLC-EMLAP Accredited #180179



5 Constitution Way, Unit A Woburn, MA 01801 Tel/Fax: (781) 933-8411 / (781) 933-8412 http://www.EMSL.com / bostonlab@emsl.com EMSL Order: 132202969 Customer ID: AXIO80

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Attention: Evan MacArthur

Axiom Partners, Inc.

50B Salem Street, Suite 103 Lynnfield, MA 01940 **Fax:** (781) 213-6992 **Collected Date:** 04/25/2022

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Test Report: Allergenco-D(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)									
Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	132202969-0004 4541457 75 2nd Floor, Conference Room A 220			132202969-0005 4541521 75 1st Floor, Office 126			132202969-0006 4541533 75 1st Floor, Juvenile Court Room #3		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	2	90	69.2	-	-	-	1	40	25
Basidiospores	-	-	-	1	40	50	1	40	25
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	1	40	25
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1	40	30.8	1	40	50	1	40	25
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Helicoma	-	-	-	-	-	-	-	-	-
Total Fungi	3	130	100	2	80	100	4	160	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	1	40	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category

No discernable field blank was submitted with this group of samples.

St. P.S.

Steve Grise, Laboratory Manager or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Woburn, MA AlHA-LAP, LLC-EMLAP Accredited #180179



5 Constitution Way, Unit A Woburn, MA 01801 Tel/Fax: (781) 933-8411 / (781) 933-8412 http://www.EMSL.com / bostonlab@emsl.com

EMSL Order: 132202969 Customer ID: AXIO80

Customer PO: Project ID:

Phone: (781) 213-9198

Attention: Evan MacArthur

Axiom Partners, Inc.

50B Salem Street, Suite 103 Lynnfield, MA 01940 Fax: (781) 213-6992

 Collected Date:
 04/25/2022

 Received Date:
 04/28/2022

 Analyzed Date:
 05/05/2022

Project: 01275.008 / Hampden Superior Court

Test Report: Allergenco-D(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)									
Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	4541506 75		132202969-0008 4541437 75 Basement, Storage Room B15			132202969-0009 4541422 150 Building Exterior at Housing Court			
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Tota
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	1	20	16.7
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	-	-	-	-	-	-	2	40	33.3
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1	40	100	1	40	100	3	60	50
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Helicoma	-	-	-	-	-	-	-	-	-
Total Fungi	1	40	100	1	40	100	6	120	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	1	20	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	21	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	7*	
Skin Fragments (1-4)	-	1	-	-	1	-	-	-	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	
Background (1-5)	-	1	-	-	1	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

No discernable field blank was submitted with this group of samples.

St. P. Su

Steve Grise, Laboratory Manager or other Approved Signatory

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EMSL Order: 132202969 Customer ID: AXIO80

Customer PO: Project ID:

Phone: (781) 213-9198

Attention: Evan MacArthur

Axiom Partners, Inc.

50B Salem Street, Suite 103 Lynnfield, MA 01940 Fax: (781) 213-6992

 Collected Date:
 04/25/2022

 Received Date:
 04/28/2022

 Analyzed Date:
 05/05/2022

Project: 01275.008 / Hampden Superior Court

Test Report: Allergenco-D(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICI								TM D7391)	
Lab Sample Number: Client Sample ID: Volume (L): Sample Location:		32202969-0010 4541435 75 kterior at Juven	ile Court						
Spore Types	Raw Count	Count/m³	% of Total	-	-	-	-	-	-
Alternaria (Ulocladium)	-	-	-	-	-		- '		
Ascospores	18	770	45	-		-			
Aspergillus/Penicillium	1	40	2.3	-		-			
Basidiospores	18	770	45	-		-			
Bipolaris++	-	-	-	-		-			
Chaetomium++	-	-	-	-		_			
Cladosporium	-	-	-	-		-			
Curvularia	-	-	-	-		-			
Epicoccum	-	-	-	-		-			
Fusarium++	-	-	-	-		_			
Ganoderma	-	-	-	-		-			
Myxomycetes++	2	90	5.3	-		-			
Pithomyces++	-	-	-	-		-			
Rust	-	-	-	-		_			
Scopulariopsis/Microascus	-	-	-	-		-			
Stachybotrys/Memnoniella	-	-	-	-		_			
Unidentifiable Spores	-	-	-	-		-			
Zygomycetes	-	-	-	-		-			
Helicoma	1	40	2.3			-			
Total Fungi	40	1710	100	-		-			
Hyphal Fragment	-	-	-	-		-			
Insect Fragment	-	-	-	-		-			
Pollen	8	300	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	43	-	-		-			
Analyt. Sensitivity 300x	-	13*	-			-			
Skin Fragments (1-4)	-	-	-	-		-			
Fibrous Particulate (1-4)	-	1	-			-			
Background (1-5)	-	1	-	-		-			

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

No discernable field blank was submitted with this group of samples.

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Samples analyzed by EMSL Analytical, Inc. Woburn, MA AlHA-LAP, LLC-EMLAP Accredited #180179

OrderID: 132202969



Microbiology Chain of Custody EMSL Order Number (Lab Use Only):

132202969

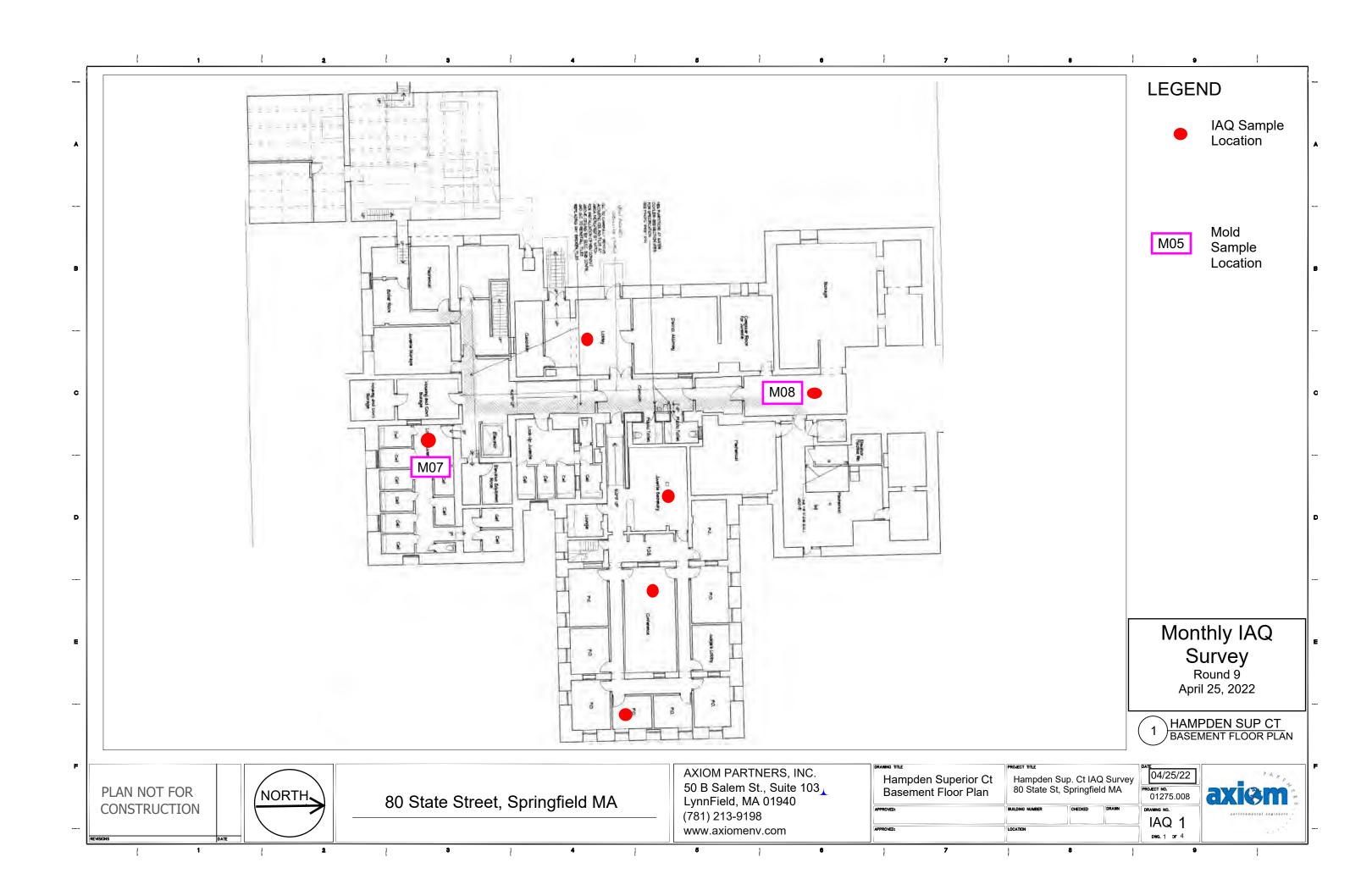
EMSL ANALYTICAL, INC. 5 CONSTITUTION WAY, UNIT A WOBURN, MA 01801

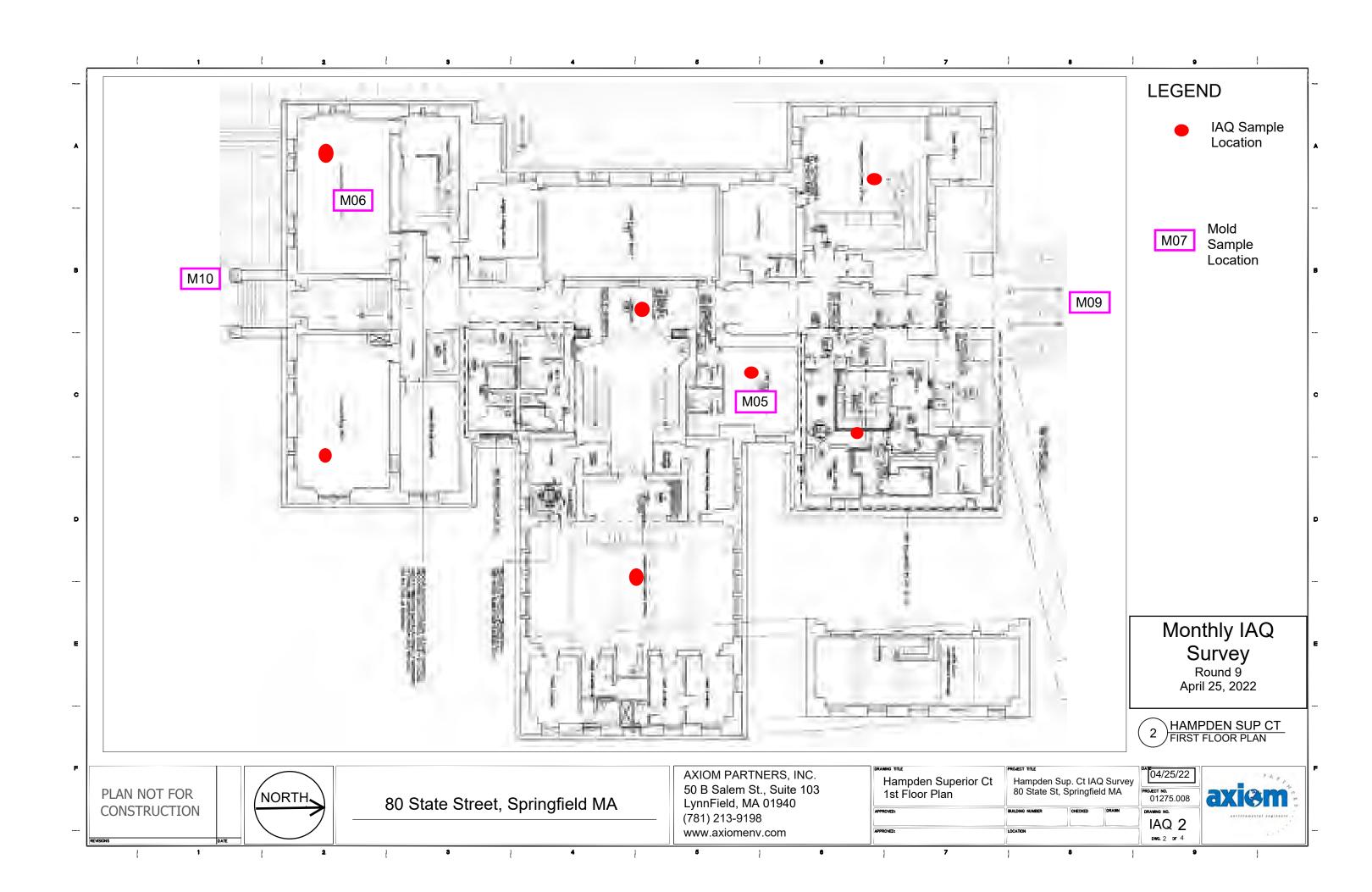
> PHONE: (781) 933-8411 FAX:(781) 933-8412

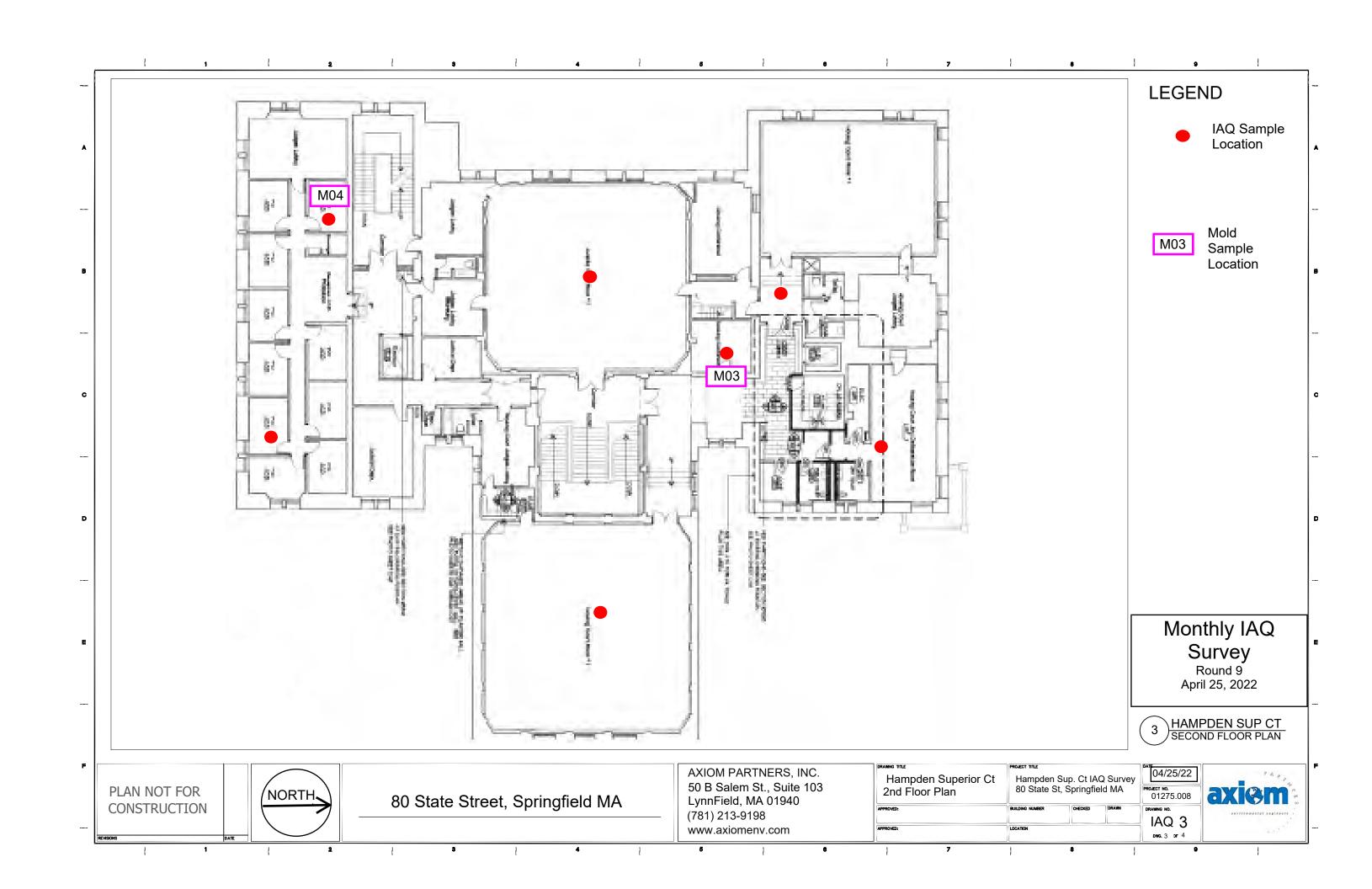
Company Name: A	Axiom Envir	onmental Partners		EMSL-Bill to: Same ☐ Different If Bill to is Different note instructions in Comments**						
Street: 50B Salem	St			Third Part	ty Billing requ	Billing requires written authorization from third party				
City: Lynnfield		State/Province: MA (1940	Zip/Postal Co	de:		Country:			
Report To (Name):	- 14)	Telephone #:								
Email Address: er		***************************************		Fax #:			Purchase Order:			
Project Name/Num	nber: #012	275.008 / Hampden Sup	perior Ct	or Ct Please Provide Results: Fax Email						
U.S. State Samples	Γaken: MA	Zip Code Sample	Taken:	C	onnecticut	Samples:	Commercial	Residential		
		with EMSL's Terms and Co					ject to methodolo	gy requirements		
		osulfate Preserved Bot								
Public \	Water Suppl	y Samples: Note: A				to DOH if	required by sta	ite.		
☐ 3 Hour	☐ 6 Hou	The same of the sa	48 Hour	ptions * - Pleas	-	6 Hour	⊠ 1 Week	☐ 2 Week		
□ 3 Hour	в пои					nour	□ I Week	z week		
MADOM Air O Call	14474		Moza Pseudo	monas aeruginosa	(MFT*)	M115 Sow	age Screen - Wat	er (D/Δ***)		
M001 Air-O-Cell M030 Micro 5		MoldSnap	M015 Heteroti	rophic Plate Count		M116 Sew	age Screen - Wate	er (MPN**)		
		Allergenco-D		oliform & E. coli (C	olilert		age Screen - Swa			
M041 Fungal Direct E M168 Pollen ID & Enu			P/A***) M018 Total Co	oliform & E. coli (M	IFT*)		age Screen - Swa nicillin-resistant St			
M280 Dust Character			M114 Total Co	oliform & E. coli En		(MRSA)				
M281 Dust Character			(Colilert MPN*	(*) oliform (MFT*)			d-growing non-TB & Enumeration	Mycobacteria		
M005 Viable Fungi- A M006 Viable Fungi- A			M020 Fecal S	treptococcus (MFT	·*)	M014 Endo	otoxin Analysis			
Aspergillus, Cladospo	orium, Stachyb	otrys Species ID & Count)	M029 Enteroc	occi (MFT*) occi (Enterolert P//	A ***\	M044 Grou Dust Mite)	p Allergen (Cat, D	og, Cockroach,		
M007 Culturable fung M008 Culturable fung		mples (Genus ID & Count)		ne qPCR-ERMI 36				Guide		
		um, Stachybotrys Species	Panel	Corner Mater (A	Legionella Analysis Please use EMSL					
ID & Count)	· Comm Chain S	Count	M025 Sewage Screen –Water (MFT*) Legionella COC							
M009 Bacteria Culture M010 Bacteria Count			*MFT= Membrane Filtration Technique							
M011 Bacteria Count				Probable Number				To the state of		
M012 Pseudomonas	aeruginosa (P	/A***)	**MPN= Most ***P/A= Prese	nce/Absence		Marin	? —			
	aeruginosa (P	/A***)		Signature of S	Sampler: /	hum		Temperature		
M012 Pseudomonas Name of Sampler:	aeruginosa (Pa Ryan Burns	/A***) S		nce/Absence	Test	Volume/	Date/Time	Temperature (°C)		
M012 Pseudomonas	aeruginosa (Pa Ryan Burns	/A***)	***P/A= Prese	Signature of S Potable/ NonPotable (only for				(°C) (Lab Use		
M012 Pseudomonas Name of Sampler: Sample #	Ryan Burns Sample	(A***) S Location/Description	Sample Type	Signature of S Potable/ NonPotable (only for waters)	Test Code	Volume/ Area	Date/Time Collected	(°C)		
M012 Pseudomonas Name of Sampler: Sample #	aeruginosa (P/ Ryan Burns Sample	/A***) s Location/Description	Sample Type	Signature of S Potable/ NonPotable (only for waters)	Test Code	Volume/ Area	Date/Time Collected 9/1/13 4:00 PM	(°C) (Lab Use		
M012 Pseudomonas Name of Sampler: Sample #	aeruginosa (P/ Ryan Burns Sample	(A***) S Location/Description	Sample Type	Signature of S Potable/ NonPotable (only for waters)	Test Code	Volume/ Area	Date/Time Collected	(°C) (Lab Use		
M012 Pseudomonas Name of Sampler: Sample #	Sample Kitchen Sir 3rd Floor, I	Location/Description ak/Tap Meeting Room 301 Office 341	Sample Type Water Air	Signature of S Potable/ NonPotable (only for waters) P NP P NP P NP	Test Code M017 M032 M032	Volume/ Area 100 mL 150 mL	Date/Time Collected 9/1/13 4:00 PM 4/25/22 4/25/22	(°C) (Lab Use		
M012 Pseudomonas Name of Sampler: Sample # Example A1 4541413	Sample Kitchen Sir 3rd Floor, (Cand Floor, Cand Floo	Location/Description ak/Tap Meeting Room 301 Office 341 Probation Office 242	Sample Type Water Air	Signature of S Potable/ NonPotable (only for waters) P NP P NP	Test Code M017 M032	Volume/ Area	Date/Time Collected 9/1/13 4:00 PM 4/25/22	(°C) (Lab Use		
M012 Pseudomonas Name of Sampler: Sample # Example A1 4541413 4541494 4541520	Sample Kitchen Sir 3rd Floor, (2nd Floor,	Location/Description ak/Tap Meeting Room 301 Office 341	Sample Type Water Air Air	Signature of S Potable/ NonPotable (only for waters) P NP P NP P NP P NP	Test Code M017 M032 M032 M032	Volume/ Area 100 mL 150 mL 150 mL	Date/Time Collected 9/1/13 4:00 PM 4/25/22 4/25/22 4/25/22	(*C) (Lab Use Only)		
M012 Pseudomonas Name of Sampler: Sample # Example A1 4541413 4541494 4541520 4541457	Sample Kitchen Sir 3rd Floor, I 2rd Floor, I 2nd Floor, I 2nd Floor, I 2nd Floor, I 2nd Floor, I	Location/Description ak/Tap Meeting Room 301 Office 341 Probation Office 242 Conference Room A	Sample Type Water Air Air	Signature of S Potable/ NonPotable (only for waters) P NP P NP P NP P NP P NP	Test Code M017 M032 M032 M032 M032	Volume/ Area 100 mL 150 mL 150 mL 150 mL	Date/Time Collected 9/1/13 4.00 PM 4/25/22 4/25/22 4/25/22 4/25/22	(*C) (Lab Use Only)		
M012 Pseudomonas Name of Sampler: Sample # Example A1 4541413 4541494 4541520	Sample Kitchen Sir 3rd Floor, I 2nd Floor, I 3rd Floor, I	Location/Description ak/Tap Meeting Room 301 Office 341 Probation Office 242 Conference Room A	Sample Type Water Air Air	Signature of S Potable/ NonPotable (only for waters) P NP P NP P NP P NP	Test Code M017 M032 M032 M032	Volume/ Area 100 mL 150 mL 150 mL	Date/Time Collected 9/1/13 4:00 PM 4/25/22 4/25/22 4/25/22	(*C) (Lab Use Only)		
M012 Pseudomonas Name of Sampler: Sample # Example A1 4541413 4541494 4541520 4541457	Sample Kitchen Sir 3rd Floor, I 2nd Floor, I 3rd Floor, I	Location/Description ak/Tap Meeting Room 301 Office 341 Probation Office 242 Conference Room A	Sample Type Water Air Air	Signature of S Potable/ NonPotable (only for waters) P NP P NP P NP P NP P NP	Test Code M017 M032 M032 M032 M032	Volume/ Area 100 mL 150 mL 150 mL 150 mL	Date/Time Collected 9/1/13 4.00 PM 4/25/22 4/25/22 4/25/22 4/25/22	(*C) (Lab Use Only)		
M012 Pseudomonas Name of Sampler: Sample # Example A1 4541413 4541494 4541520 4541457 4541521	Sample Kitchen-Sir 3rd Floor, I 2nd Floor, I 2nd Floor, I 2nd Floor, I 2nd Floor, I 3rd Floor, I 4rd Floor	Location/Description ak/Tap Meeting Room 301 Office 341 Probation Office 242 Conference Room A	Sample Type Water Air Air Air	Signature of S Potable/ NonPotable (only for waters) P NP	Test Code M017 M032 M032 M032 M032 M032 M032	Volume/ Area 100 mL 150 mL 150 mL 150 mL 75 mL 75 mL 75 mL	Date/Time Collected 9/1/13 4.00 PM 4/25/22 4/25/22 4/25/22 4/25/22 4/25/22	(°C) (Lab Use Only)		
M012 Pseudomonas Name of Sampler: Sample # Example A1 4541413 4541494 4541520 4541457 4541521	Sample Kitchen Sir 3rd Floor, (2nd Floor,	Location/Description ak/Tap Meeting Room 301 Office 341 Probation Office 242 Conference Room A	Sample Type Water Air Air Air Air Air Total # of Sar	Signature of S Potable/ NonPotable (only for waters) P NP	Test Code M017 M032 M032 M032 M032 M032 M032 Samples	Volume/ Area 100 mL 150 mL 150 mL 150 mL 75 mL 75 mL 75 mL	Date/Time Collected 9/1/13 4:00 PM 4/25/22 4/25/22 4/25/22 4/25/22 4/25/22 Chilled? Yes /	(°C) (Lab Use Only)		
M012 Pseudomonas Name of Sampler: Sample # Example A1 4541413 4541494 4541520 4541521 4541533 Client Sample # (s	Sample Kitchen Sir 3rd Floor, (2nd Floor,	Location/Description Meeting Room 301 Office 341 Probation Office 242 Conference Room A Office 126 Juvenile Court Room	Sample Type Water Air Air Air Air Air Total # of Sar	Signature of S Potable/ NonPotable (only for waters) P NP P	Test Code M017 M032 M032 M032 M032 M032 M032 Samples	Volume/ Area 100 mL 150 mL 150 mL 75 mL 75 mL 75 mL Received	Date/Time Collected 9/1/13 4:00 PM 4/25/22 4/25/22 4/25/22 4/25/22 4/25/22 Chilled? Yes /	(°C) (Lab Use Only)		
M012 Pseudomonas Name of Sampler: Sample # Example A1 4541413 4541494 4541520 4541457 4541521 4541533 Client Sample # (see Relinquished (Client)	Sample Kitchen Sir 3rd Floor, I 2nd Floor	Location/Description ak/Tap Meeting Room 301 Office 341 Probation Office 242 Conference Room A Office 126 Juvenile Court Room	Sample Type Water Air Air Air Air Air Total # of Sai	Signature of S Potable/ NonPotable (only for waters) P NP P	Test Code M017 M032 M032 M032 M032 M032 M032 Samples	Volume/ Area 100 mL 150 mL 150 mL 75 mL 75 mL 75 mL Received of	Date/Time Collected 9/1/13 4:00 PM 4/25/22 4/25/22 4/25/22 4/25/22 4/25/22 Chilled? Yes /	(°C) (Lab Use Only)		
M012 Pseudomonas Name of Sampler: Sample # Example A1 4541413 4541494 4541520 4541521 4541533 Client Sample # (seeived (Lab):	Sample Kitchen Sir 3rd Floor, I 2nd Floor	Location/Description ak/Tap Meeting Room 301 Office 341 Probation Office 242 Conference Room A Office 126 Juvenile Court Room	Sample Type Water Air Air Air Air Air Total # of Sai	Signature of S Potable/ NonPotable (only for waters) P NP P	Test Code M017 M032 M032 M032 M032 M032 M032 Samples	Volume/ Area 100 mL 150 mL 150 mL 75 mL 75 mL 75 mL Received of	Date/Time Collected 9/1/13 4:00 PM 4/25/22 4/25/22 4/25/22 4/25/22 4/25/22 Chilled? Yes /	(°C) (Lab Use Only)		
M012 Pseudomonas Name of Sampler: Sample # Example A1 4541413 4541494 4541520 4541521 4541533 Client Sample # (seeived (Lab):	Sample Kitchen Sir 3rd Floor, I 2nd Floor	Location/Description ak/Tap Meeting Room 301 Office 341 Probation Office 242 Conference Room A Office 126 Juvenile Court Room	Sample Type Water Air Air Air Air Air Total # of Sai	Signature of S Potable/ NonPotable (only for waters) P NP P	Test Code M017 M032 M032 M032 M032 M032 M032 Samples	Volume/ Area 100 mL 150 mL 150 mL 75 mL 75 mL 75 mL Received of	Date/Time Collected 9/1/13 4:00 PM 4/25/22 4/25/22 4/25/22 4/25/22 4/25/22 Chilled? Yes /	(°C) (Lab Use Only)		
M012 Pseudomonas Name of Sampler: Sample # Example A1 4541413 4541494 4541520 4541521 4541533 Client Sample # (seeived (Lab):	Sample Kitchen Sir 3rd Floor, I 2nd Floor	Location/Description ak/Tap Meeting Room 301 Office 341 Probation Office 242 Conference Room A Office 126 Juvenile Court Room	Sample Type Water Air Air Air Air Air Total # of Sai	Signature of S Potable/ NonPotable (only for waters) P NP P	Test Code M017 M032 M032 M032 M032 M032 M032 Samples	Volume/ Area 100 mL 150 mL 150 mL 75 mL 75 mL 75 mL Received of	Date/Time Collected 9/1/13 4:00 PM 4/25/22 4/25/22 4/25/22 4/25/22 4/25/22 Chilled? Yes /	(°C) (Lab Use Only)		

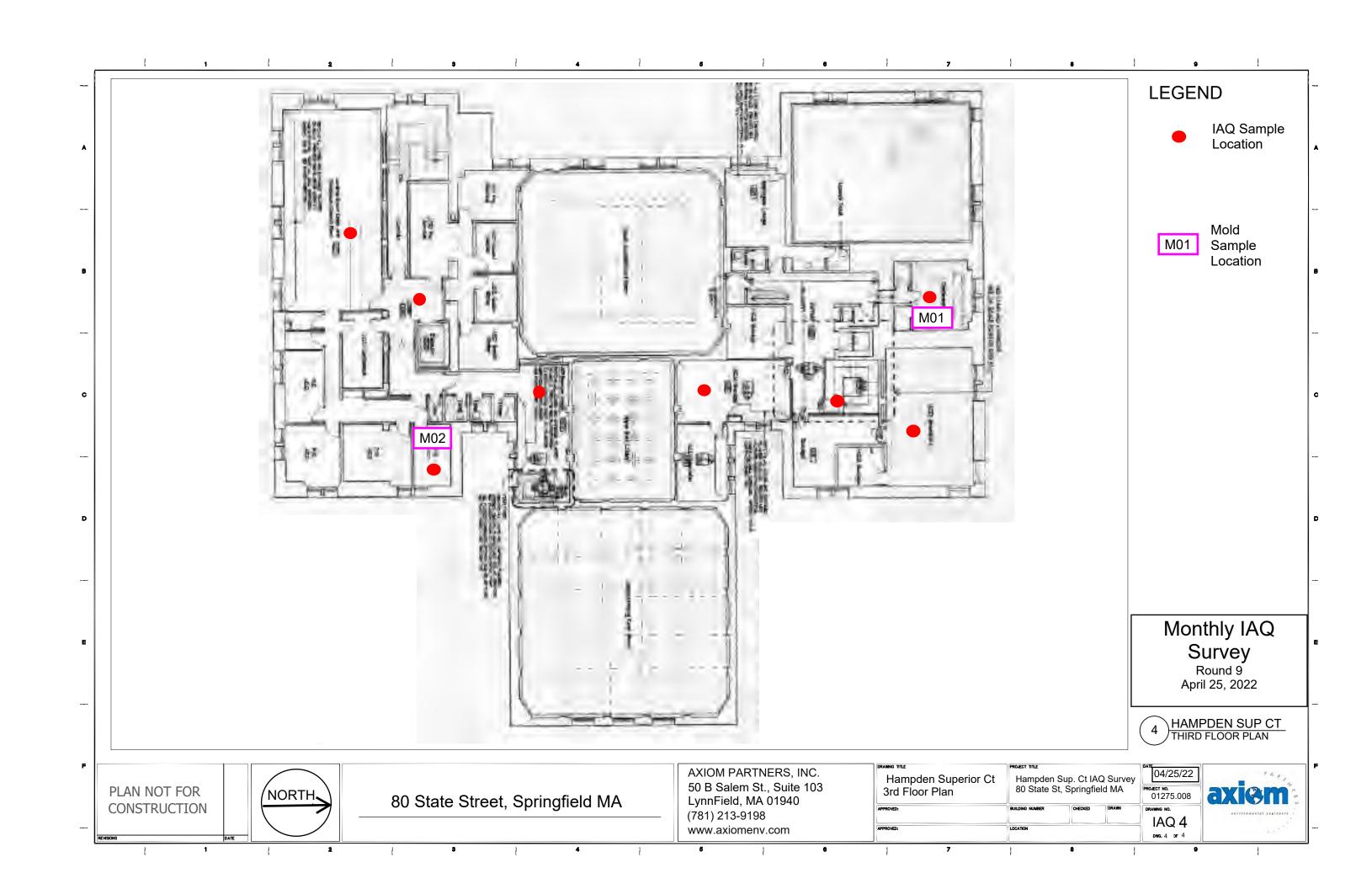
ATTACHMENT 4 Sample Location Floor Plans











ATTACHMENT 5 TVOC CONCENTRATION REFERENCE TABLE



TVOC INDOOR AIR CONCENTRATION REFERENCE GUIDE

TVOC Level ug/m3	Level of Concern	Symptoms	Comments
<300 (0.3 ppm)	Low	No irritation or discomfort is expected	There is a low likelihood that specific VOC sources are present
300 to 500 (0.3 to 0.5 ppm)	Acceptable	Occasional irritation or discomfort may be possible with sensitive individuals	There is a low to moderate likelihood that specific VOC sources are present
500 to 1,000 (0.5 to 1.0 ppm)	Marginal	Complaints about irritation and discomfort are possible in sensitive individuals	A moderate likelihood that specific VOC sources are it is recommended that steps be taken to identify the sources
1,000 to 3,000 (1.0 to 3.0 ppm)	High	Irritation and discomfort are very likely	A high likelihood that specific VOC sources are present and it is highly recommended that steps be taken to identify them
>3,000 (>3.0 ppm)	Very High	Irritation and discomfort are very possible	These levels are usually found in an industrial environment where workers are exposed to chemicals

