

January 31, 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 MAIN OFFICE:

50 Salem Street, Ste. 103B Lynnfield, MA 01940 (781) 213-9198

#### **BRANCH OFFICES:**

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www.axiomenv.com

VIA EMAIL

AXIOM Project 01275.007

RE: Indoor Air Quality Testing, Springfield District Courthouse, 50 State Street, Springfield, MA

Dear Mr. Lane,

At your request, Axiom Partners, Inc. (AXIOM) performed indoor air quality (IAQ) testing at the referenced courthouse building. The testing was performed on January 12, 2022, by AXIOM Industrial Hygienist, Michael Keady. The IAQ survey consisted of the following:

#### I. INDOOR AIR TESTING AND OBSERVATIONS

#### 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<sup>®</sup> IAQ Monitor which continuously measures and records levels of carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), temperature and relative humidity (rH).

AXIOM positioned the Q-Trak in 36 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 are compared with established indoor air quality guidelines which are used to assess the adequacy of IAQ and ventilation.

### 3. Air Testing for Volatile Organic Compounds (VOCs)

A calibrated TSI GM460 Gas Monitor was used to take real-time spot readings for VOCs<sup>1</sup> in multiple locations throughout the building. The GM460 is a hand-held device that detects and measures more than 600 of the most common VOCs and has a lower detection limit of 1.0 ppb.



<sup>&</sup>lt;sup>1</sup> Includes a library of over 600 common VOCs

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 continuous dust monitoring throughout the building using a direct-reading TSI SidePak<sup>™</sup> AM520i dust monitor. This portable unit measured and recorded total dust concentrations.

The SidePak<sup>™</sup> 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 unit 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 10 air samples from inside the building and 2 outdoor baseline/control samples (12 total samples).

The air samples were analyzed by EMSL Analytical, inc. (EMSL) located in Woburn, MA. EMSL is accredited under the American Industrial Hygiene Association (AIHA) 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
- 3. As previously reported, there were numerous areas with dirty HVAC diffusers and adjacent ceiling tiles
- 4. As previously reported, there were water-stained ceiling tiles by the windows in the Law Library and in the corner of the Registry of Probate and in Office 204
- 5. A trash receptacle used to collect water from a leaking window was noted in the 4<sup>th</sup> floor Jury Pool Room and,
- 6. As previously reported, some unidentified stains were observed on carpets in some offices (possibly from drink/coffee spills)

### 2. General Air Quality Testing Parameters, VOCs and Total Dust

Table 1 provides a summary of the SidePak and GM460 indoor air quality testing. In addition to our IH taking regular measurements and recording them on a field form, the SidePak unit operated in the data logging mode where it 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. Due to an unknown equipment issue, the Q-Trak did not record sensor data to the unit's data log file.



| AIR QUALITY PARAMETER               | MINIMUM / MAXIMUM OF<br>MEASURED VALUES | Average of<br>Measured<br>Values | Guidelines                                       |
|-------------------------------------|---|----------------------------------|--|
| Temperature (T)                     | 64.4/ 77.1 °F                           | 72.4 °F                          | 68 – 75 °F <sup>a,b</sup><br>73 – 79 °F (summer) |
| Relative Humidity (rH)              | 9.6 / 15.9 %                            | 11.2 %                           | 30 – 60% <sup>a,b</sup>                          |
| Carbon Dioxide (CO <sub>2</sub> )   | 490 / 676 ppm                           | 566 ppm                          | <u>≤</u> 800 ppm <sup>b,c</sup>                  |
| Carbon Monoxide (CO)                | 0.0 / 0.1 ppm                           | 0.03 ppm                         | 9 ppm <sup>a,b</sup> /50 ppm <sup>d</sup>        |
| Volatile Organic Compounds<br>(VOC) | 0 / 24 ppb                              | 10.9 ppb                         | 300 ppb <sup>b, e</sup>                          |
| Total Airborne Particulate          | 0.002 / 0.025 mg/m <sup>3</sup>         | 0.008 mg/m <sup>3</sup>          | 15.0 mg/m <sup>3 d</sup>                         |

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

<sup>a</sup> ASHRAE 55-2013 Std. (American Society of Heating, Refrigerating & Air Conditioning Engineers).

<sup>b</sup> < means less than or equal to, °F = degrees Fahrenheit, % = percent, ppm = parts per million, ppb = parts per billion, mg/m<sup>3</sup> = milligrams per cubic meter; TWA = Time Weighted Average over 8-hours

<sup>c</sup> Occupational Safety & Health Administration (OSHA) proposed indoor air quality (IAQ) rule (59 FR 15968).

<sup>d</sup> OSHA (Occupational Safety and Health Administration) Permissible Exposure Limit.

<sup>e</sup> Refer to attached Total VOC summary table in Attachment 6.

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

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

Table 4 provides a summary of the spore trap air sampling results. The complete laboratory report is provided in Attachment 4.

| SAMPLE<br>NUMBER | LOCATION   | TOTAL FUNGI<br>(S/m <sup>3</sup> ) <sup>1</sup> | MOLD SPORE TYPE             |
|------------------|--|---|-----------------------------|
| 4509188          | Jury Pool 446  | 90  | Myxomycetes                 |
| 4509170          | Registration of Deeds 400                            | 40  | Myxomycetes                 |
| 4509109          | Superior Courtroom 4                                 | 0   | None Detected               |
| 4449735          | Superior Courtroom 5                                 | 40  | Myxomycetes                 |
| 4509181          | Jury Room 248  | 0   | None Detected               |
| 4509192          | 2 <sup>nd</sup> Floor Clerk of District Court, Civil | 0   | None Detected               |
| 4509136          | 1 <sup>st</sup> Floor Court Service Center           | 80  | Cladosporium, Myxomycetes   |
| 4509097          | Forensic Health Office 140                           | 40  | Myxomycetes                 |
| 4449730          | Mechanical Room G42                                  | 0   | None Detected               |
| 4509144          | Office G37   | 290   | Basidiospores, Cladosporium |
| 4509095          | Building Exterior by Main Entrance                   | 80  | Basidiospores               |
| 4509098          | Building Exterior - State St. Sidewalk               | 40  | Basidiospores               |

 TABLE 4

 SUMMARY OF AIRBORNE FUNGAL SPORE TESTING RESULTS

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



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Airborne fungi below 250 S/m<sup>3</sup> are normally not a concern for indoor environments<sup>2</sup>. Airborne levels outdoors are normally between 500 and 1,000 S/m<sup>3</sup> but can easily exceed 10,000 S/m<sup>3</sup> during the spring and summer months. Indoor airborne levels between 250 and 1,000 S/m<sup>3</sup> are typically considered to be moderate and levels that exceed 1,000 S/m<sup>3</sup> are often considered elevated<sup>3</sup> and may result in active mold growth.

It is important to note that bioaerosols (fungi/mold) are <u>always</u> 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.

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

Sincerely,

Evan MacArthur Project Manager/Sr. Industrial Hygienist

to Shin

Stephen E. Minassian Principal

Edward 2

Edward K. Kearney, CIH

Attachments: A1, Field data forms

- A2, Direct Read Instrument Reports
- A3, Fungi/mold testing report
- A4, Sample location floor plans
- A5, TVOC reference table



<sup>&</sup>lt;sup>2</sup> New York Committee for Occupational Safety and Health

<sup>&</sup>lt;sup>3</sup> Occupational Safety and Health Administration Technical Manual, Section III, Chapter 2, § IV (c)

FIELD DATA FORMS



### IAQ READINGS

Date: Project No.: Industrial Hygienist(s): 01/12/22 01275.007 Michael Keady Location:50 State St, Springfield MAProject Name:Air Quality Investigation,<br/>Springfield Hall of Justice

| Тіме | LOCATION   | <b>Темр</b><br><b>(</b> °F) | RH (%) | CO₂<br>(PPM) | CO<br>(PPM) | VOCs<br>(PPB) | PART.<br>(MG/M <sup>3</sup> ) |
|------|--|-----------------------------|--------|--------------|-------------|---------------|-------------------------------|
| 0732 | 4th Floor, Elevator Lobby  | 64.4                        | 13.3   | 582          | 0           | 0             | 0.007                         |
| 0745 | 4 <sup>th</sup> Floor, Hall by Probate Court #2                  | 68.4                        | 11.1   | 531          | 0.1         | 0             | 0.007                         |
| 0759 | 4 <sup>th</sup> Floor, Jury Pool                                 | 70.1                        | 10.5   | 522          | 0.1         | 0             | 0.003                         |
| 0812 | 4 <sup>th</sup> Floor, Probate Courtroom 2                       | 71.3                        | 9.6    | 490          | 0.1         | 1             | 0.007                         |
| 0824 | 4 <sup>th</sup> Floor, Judges Lobby 428A                         | 72.6                        | 10.6   | 556          | 0           | 4             | 0.003                         |
| 0838 | 4 <sup>th</sup> Floor, Registry of Probate                       | 70.0                        | 10.7   | 532          | 0           | 3             | 0.006                         |
| 0851 | 4 <sup>th</sup> Floor, Registry of Deeds                         | 70.6                        | 11.1   | 523          | 0           | 5             | 0.004                         |
| 0900 | 4 <sup>th</sup> Floor, Land Registration                         | 70.3                        | 10.9   | 520          | 0           | 5             | 0.01                          |
| 0912 | 3 <sup>rd</sup> Floor, Room 320A                                 | 71.0                        | 10.4   | 520          | 0.1         | 5             | 0.007                         |
| 0924 | 3 <sup>rd</sup> Floor, Superior Courtroom 4                      | 71.3                        | 10.2   | 530          | 0           | 7             | 0.012                         |
| 0936 | 3 <sup>rd</sup> Floor, Clerk of Superior Court,<br>Civil         | 71.6                        | 10.5   | 561          | 0           | 10            | 0.015                         |
| 0948 | 3 <sup>rd</sup> Floor, Superior Court Probation<br>Office 380    | 73.4                        | 10.4   | 592          | 0,1         | 20            | 0.01                          |
| 1000 | 3 <sup>rd</sup> Floor, District Attorneys Office<br>385          | 74.8                        | 10.3   | 676          | 0.1         | 17            | 0.012                         |
| 1015 | 3 <sup>rd</sup> Floor, Hall by District Attorneys<br>Office 385  | 74.3                        | 10.3   | 621          | 0.1         | 18            | 0.014                         |
| 1027 | 3 <sup>rd</sup> Floor, Superior Courtroom 5                      | 73.3                        | 10.6   | 607          | 0.1         | 15            | 0.003                         |
| 1038 | 3 <sup>rd</sup> Floor, Attorneys Lounge                          | 74.2                        | 10.5   | 659          | 0.1         | 21            | 0.013                         |
| 1052 | 2 <sup>nd</sup> Floor, Superior Courtroom 8                      | 73.6                        | 10.7   | 599          | 0           | 16            | 0.004                         |
| 1107 | 2 <sup>nd</sup> Floor, Jury Room 248                             | 76.5                        | 10.5   | 639          | 0.1         | 20            | 0.005                         |
| 1117 | 2 <sup>nd</sup> Floor, Chief Court Officer<br>Room 254           | 75.3                        | 11.0   | 650          | 0.1         | 20            | 0.003                         |
| 1131 | 2 <sup>nd</sup> Floor, Clerk of District Court,<br>Civil         | 76.3                        | 10.9   | 607          | 0.1         | 24            | 0.006                         |
| 1146 | 2 <sup>nd</sup> Floor, Upper Lobby, Outside<br>District Court 11 | 72.2                        | 10.9   | 555          | 0.1         | 19            | 0.009                         |
| 1200 | 2 <sup>nd</sup> Floor, District Courtroom 5                      | 73.0                        | 11.0   | 541          | 0           | 14            | 0.007                         |
| 1215 | 2 <sup>nd</sup> Floor, Witness Advocate 265                      | 75.0                        | 10.6   | 572          | 0           | 16            | 0.003                         |
| 1230 | 1 <sup>st</sup> Floor, Court Service Center                      | 73.3                        | 11.1   | 563          | 0           | 12            | 0.011                         |



### IAQ READINGS

Date: Project No.: Industrial Hygienist(s): 01/12/22 01275.007 Michael Keady Location:50 State St, Springfield MAProject Name:Air Quality Investigation,<br/>Springfield Hall of Justice

| Тіме | LOCATION  | <b>Темр</b><br><b>(</b> °F) | RH (%) | CO₂<br>(PPM) | CO<br>(PPM) | VOCs<br>(PPB) | PART.<br>(MG/M <sup>3</sup> ) |
|------|---|-----------------------------|--------|--------------|-------------|---------------|-------------------------------|
| 1242 | 1 <sup>st</sup> Floor, Probation Room 167                   | 74.8                        | 11.3   | 574          | 0           | 19            | 0.007                         |
| 1251 | 1 <sup>st</sup> Floor, Hall by Room 159                     | 75.1                        | 11.5   | 572          | 0           | 14            | 0.006                         |
| 1303 | 1 <sup>st</sup> Floor, Forensic Health Office               | 74.5                        | 11.2   | 530          | 0           | 13            | 0.002                         |
| 1316 | 1 <sup>st</sup> Floor, Bar Association                      | 71.9                        | 12.1   | 581          | 0           | 13            | 0.005                         |
| 1330 | 1 <sup>st</sup> Floor, Hall by Men's Room 174               | 75.8                        | 11.2   | 569          | 0           | 11            | 0.005                         |
| 1343 | 1 <sup>st</sup> Floor, Clerk of District Court,<br>Criminal | 77.1                        | 10.7   | 570          | 0           | 21            | 0.006                         |
| 1356 | 1 <sup>st</sup> Floor, Main Lobby, Next to Stairs           | 67.1                        | 13.6   | 522          | 0           | 8             | 0.016                         |
| 1408 | Ground Level, G42 Mechanical<br>Room                        | 72.7                        | 12.3   | 529          | 0           | 6             | 0.011                         |
| 1420 | Ground Level, Hall by G45                                   | 71.6                        | 11.8   | 494          | 0           | 5             | 0.011                         |
| 1438 | Ground Level, Office G37                                    | 74.1                        | 12.5   | 572          | 0           | 7             | 0.01                          |
| 1450 | Ground Level, Snack Bar G52                                 | 70.6                        | 12.8   | 506          | 0           | 5             | 0.025                         |
| 1505 | Ground Level, Hall by G57                                   | 64.4                        | 15.9   | 610          | 0           | 0             | 0.011                         |

°F = degrees Fahrenheit; % = percent; ppm = parts per million, mg/m<sup>3</sup> = milligrams per cubic meter



SIDEPAK PARTICULATE REPORT, GM460 SUMMARY REPORT & GRAPH





# 1/12/22 Report

Name: 1/12/22

**Description:** Aerosol Data

Location: 50 State St

Instrument Name: SidePak Aerosol Monitor

**Device Model Number: AM520** 

**Device Serial Number: 5201834010** 

**Firmware Version:** A.08

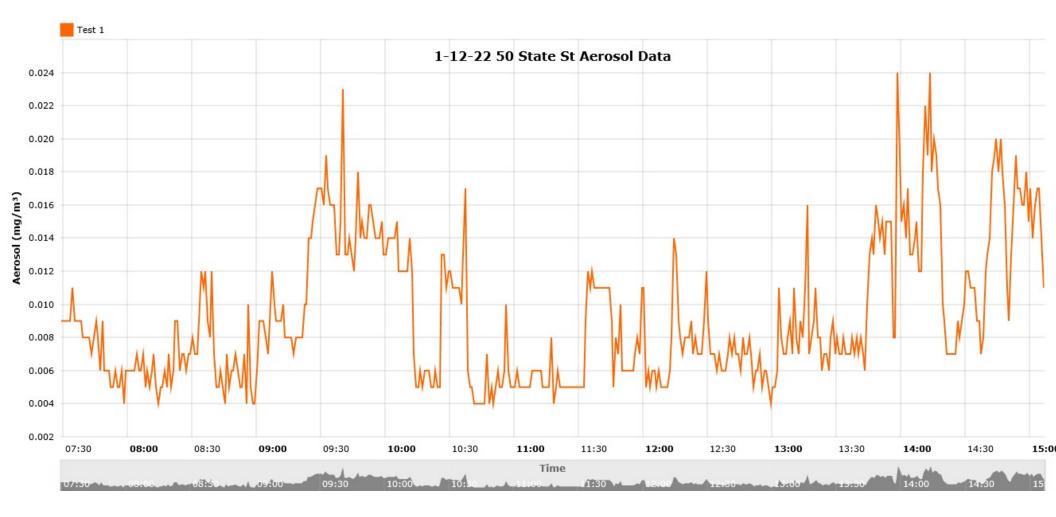
Last Factory Calibration: 3/12/2021

| Data Properties       |              |  |  |  |  |  |  |
|-----------------------|--------------|--|--|--|--|--|--|
| Start Date            | 1/12/2022    |  |  |  |  |  |  |
| Start Time            | 7:28 AM      |  |  |  |  |  |  |
| End Date              | 1/12/2022    |  |  |  |  |  |  |
| End Time              | 3:06 PM      |  |  |  |  |  |  |
| Test Length           | 00:07:38:00  |  |  |  |  |  |  |
| Logging Interval      | 60 second(s) |  |  |  |  |  |  |
| Number of Data Points | 458          |  |  |  |  |  |  |

Additional Information

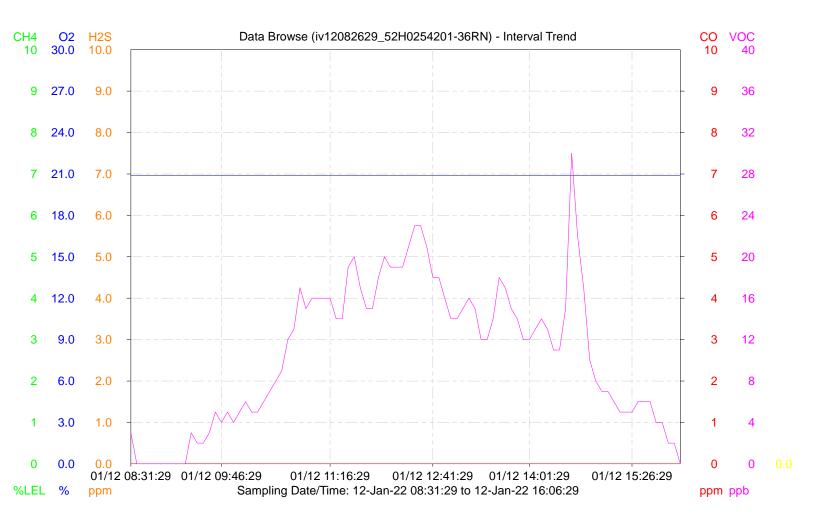
There is no metadata related to this test

| Test Statistics              |         |            |            |            |       |  |  |  |
|------------------------------|---------|------------|------------|------------|-------|--|--|--|
| Channel                      | Average | Minimum    | Maximum    | Cal Factor | TWA   |  |  |  |
|                              |         | 0.004      | 0.024      | 1          |       |  |  |  |
| Aerosol (mg/m <sup>3</sup> ) | 0.009   | 01/12/2022 | 01/12/2022 | Factory    | 0.009 |  |  |  |
|                              |         | 12:59:42   | 02:13:42   | 12/30/2021 |       |  |  |  |



### GM460 Data Logger (Interval Trend)

| Property   | Value  |  |  |  |   |                        |
|--|--|--|--|--|---|------------------------|
| Name<br>Sampling Date/Time<br>Serial No.<br>Station ID<br>User ID<br>Data Count<br>Interval Time (sec) | iv12082629_52H0<br>1/12/2022 8:26:29<br>52H0254201-36R<br>STATION_ID_001<br>USER_ID_001<br>92<br>300 | AM to 1/12/2022  | 4:06:33 PM   |  |   |                        |
| Gas(FullScale)<br>Avg<br>Max<br>Max Date/Time<br>Min<br>Min Date/Time<br>Warning<br>Alarm<br>STEL      | CH4(100%LEL)<br>0 %LEL<br>0 %LEL<br>01/12 08:26:29<br>*****<br>10 %LEL<br>50 %LEL<br>*****           | O2(40.0%)<br>20.9 %<br>20.9 %<br>01/12 08:26:29<br>20.9 %<br>01/12 08:26:29<br>19.5 %<br>23.5 %<br>***** | H2S(100.0ppm)<br>0.0 ppm<br>0.0 ppm<br>01/12 08:26:29<br>*****<br>5.0 ppm<br>30.0 ppm<br>5.0 ppm | CO(500ppm)<br>0 ppm<br>0 1/12 08:26:29<br>*****<br>25 ppm<br>50 ppm<br>200 ppm | VOC(50000ppb)<br>10 ppb<br>161 ppb<br>01/12 08:26:29<br>*****<br>5000 ppb<br>10000 ppb<br>***** | ()<br><br><br><br><br> |
| TWA  | ****   | ****   | 1.0 ppm  | 25 ppm   | ****  |                        |



EMSL MOLD AIR SAMPLING LABORATORY REPORT





## **EMSL** Analytical, Inc.

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

| Attention: | Michael Keady               | Phone:                | (781) 213-9198 |
|------------|-----------------------------|-----------------------|----------------|
|            | Axiom Partners, Inc.        | Fax:                  | (781) 213-6992 |
|            | 50B Salem Street, Suite 103 | Collected Date:       | 01/12/2022     |
|            | Lynnfield, MA 01940         | <b>Received Date:</b> | 01/14/2022     |
|            |                             | Analyzed Date:        | 01/21/2022     |

Project: 50 State Street

| Lab Sample Number:<br>Client Sample ID:<br>Volume (L):<br>Sample Location: | 132200378-0001<br>4509188<br>75<br>Jury Pool |                      |            |           | 132200378-0002<br>4509170<br>75<br>Registry of Deeds |            |           | 132200378-0003<br>4509109<br>75<br>Superior Court 4 |          |  |
|--|--|----------------------|------------|-----------|--|------------|-----------|---|----------|--|
| Spore Types  | Raw Count                                    | Count/m <sup>3</sup> | % of Total | Raw Count | Count/m <sup>3</sup>                                 | % of Total | Raw Count | Count/m <sup>3</sup>                                | % of Tot |  |
| Alternaria (Ulocladium)  | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Ascospores   | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Aspergillus/Penicillium  | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Basidiospores  | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Bipolaris++  | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Chaetomium++   | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Cladosporium   | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Curvularia   | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Epicoccum  | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Fusarium++   | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Ganoderma  | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Myxomycetes++  | 2  | 90                   | 100        | 1         | 40   | 100        | -         | -   | -        |  |
| Pithomyces++   | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Rust   | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Scopulariopsis/Microascus  | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Stachybotrys/Memnoniella   | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Unidentifiable Spores  | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Zygomycetes  | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Total Fungi  | 2  | 90                   | 100        | 1         | 40   | 100        | -         | None Detected                                       | -        |  |
| Hyphal Fragment  | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Insect Fragment  | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| Pollen   | -  | -                    | -          | -         | -  | -          | -         | -   | -        |  |
| 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.

the P.A

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

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 relates the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. 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.

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

Initial report from: 01/21/2022 09:08 AM



A

## **EMSL** Analytical, Inc.

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

| Attention: | Michael Keady               | Phone:          | (781) 213-9198 |
|------------|-----------------------------|-----------------|----------------|
|            | Axiom Partners, Inc.        | Fax:            | (781) 213-6992 |
|            | 50B Salem Street, Suite 103 | Collected Date: | 01/12/2022     |
|            | Lynnfield, MA 01940         | Received Date:  | 01/14/2022     |
|            |                             | Analyzed Date:  | 01/21/2022     |

Project: 50 State Street

| Lab Sample Number:<br>Client Sample ID:<br>Volume (L):<br>Sample Location: | 132200378-0004<br>4449735<br>75<br>Superior Court 5 |                      |            | 132200378-0005<br>4509181<br>75<br>Jury Room 248 |                      |            | 132200378-0006<br>4509192<br>75<br>Clerk of District Court, Civil |                      |            |
|--|---|----------------------|------------|--|----------------------|------------|---|----------------------|------------|
| Spore Types  | Raw Count   | Count/m <sup>3</sup> | % of Total | Raw Count  | Count/m <sup>3</sup> | % of Total | Raw Count   | Count/m <sup>3</sup> | % of Total |
| Alternaria (Ulocladium)  |   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Ascospores   | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Aspergillus/Penicillium  | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Basidiospores  | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Bipolaris++  | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Chaetomium++   | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Cladosporium   | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Curvularia   | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Epicoccum  | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Fusarium++   | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Ganoderma  | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Myxomycetes++  | 1   | 40                   | 100        | -  | -                    | -          | -   | -                    | -          |
| Pithomyces++   | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Rust   | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Scopulariopsis/Microascus  | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Stachybotrys/Memnoniella   | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Unidentifiable Spores  | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Zygomycetes  | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Total Fungi  | 1   | 40                   | 100        | -  | None Detected        | -          | -   | None Detected        | -          |
| Hyphal Fragment  | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Insect Fragment  | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Pollen   | -   | -                    | -          | -  | -                    | -          | -   | -                    | -          |
| Analyt. Sensitivity 600x   | -   | 43                   | -          | -  | 43                   | -          | -   | 43                   | -          |
| Analyt. Sensitivity 300x   | -   | 13*                  | -          | -  | 13*                  | -          | -   | 13*                  | -          |
| Skin Fragments (1-4)   | -   | -                    | -          | -  | 1                    | -          | -   | 1                    | -          |
| Fibrous Particulate (1-4)  | -   | -                    | -          | -  | 1                    | -          | -   | -                    | -          |
| Background (1-5)   | -   | 1                    | -          | -  | 1                    | -          | -   | 1                    | -          |

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

the P.J

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

Steve Grise, Laboratory Manager or other Approved Signatory

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The prevent of background particulates, period of the particulates, results are obligated and event of the particulates, period of the particulates of the particulates, period of the particulates, p

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

Initial report from: 01/21/2022 09:08 AM



## **EMSL** Analytical, Inc.

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:  | 132200378 |
|--------------|-----------|
| Customer ID: | AXIO80    |
| Customer PO: |           |
| Proiect ID:  |           |

| Attention: Michael Keady |               | Phone:          | (781) 213-9198 |
|--------------------------|---------------|-----------------|----------------|
| Axiom Partners           | , Inc.        | Fax:            | (781) 213-6992 |
| 50B Salem Stre           | et, Suite 103 | Collected Date: | 01/12/2022     |
| Lynnfield, MA            | 01940         | Received Date:  | 01/14/2022     |
|                          |               | Analyzed Date:  | 01/21/2022     |

Project: 50 State Street

| Lab Sample Number:<br>Client Sample ID:<br>Volume (L):<br>Sample Location: |           | 32200378-0007<br>4509136<br>75<br>Irt Service Cent | er         |           | 32200378-0008<br>4509097<br>75<br>nsic Health Off | ice        | 132200378-0009<br>4449730<br>75<br>G42 Mechanical Room |                      |            |  |
|--|-----------|--|------------|-----------|---|------------|--|----------------------|------------|--|
| Spore Types  | Raw Count | Count/m <sup>3</sup>                               | % of Total | Raw Count | Count/m <sup>3</sup>                              | % of Total | Raw Count  | Count/m <sup>3</sup> | % of Total |  |
| Alternaria (Ulocladium)  | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Ascospores   | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Aspergillus/Penicillium  | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Basidiospores  | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Bipolaris++  | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Chaetomium++   | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Cladosporium   | 1         | 40   | 50         | -         | -   | -          | -  | -                    | -          |  |
| Curvularia   | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Epicoccum  | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Fusarium++   | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Ganoderma  | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Myxomycetes++  | 1         | 40   | 50         | 1         | 40  | 100        | -  | -                    | -          |  |
| Pithomyces++   | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Rust   | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Scopulariopsis/Microascus  | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Stachybotrys/Memnoniella   | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Unidentifiable Spores  | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Zygomycetes  | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Total Fungi  | 2         | 80   | 100        | 1         | 40  | 100        | -  | None Detected        | -          |  |
| Hyphal Fragment  | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Insect Fragment  | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| Pollen   | -         | -  | -          | -         | -   | -          | -  | -                    | -          |  |
| 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.

the P.A.

Steve Grise, Laboratory Manager or other Approved Signatory

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

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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.

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

Initial report from: 01/21/2022 09:08 AM



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

| Attention: | Michael Keady               | Phone:          | (781) 213-9198 |
|------------|-----------------------------|-----------------|----------------|
|            | Axiom Partners, Inc.        | Fax:            | (781) 213-6992 |
|            | 50B Salem Street, Suite 103 | Collected Date: | 01/12/2022     |
|            | Lynnfield, MA 01940         | Received Date:  | 01/14/2022     |
|            |                             | Analyzed Date:  | 01/21/2022     |

Project: 50 State Street

| Lab Sample Number:<br>Client Sample ID:<br>Volume (L):<br>Sample Location: | 1         | 32200378-0010<br>4509144<br>75<br>G37 Office |            |           | 32200378-0011<br>4509095<br>75<br>Exterior, Main E | intrance   | 132200378-0012<br>4509098<br>75<br>Building Extreior, State St Sidewalk |                      |            |  |
|--|-----------|--|------------|-----------|--|------------|---|----------------------|------------|--|
| Spore Types  | Raw Count | Count/m <sup>3</sup>                         | % of Total | Raw Count | Count/m <sup>3</sup>                               | % of Total | Raw Count   | Count/m <sup>3</sup> | % of Total |  |
| Alternaria (Ulocladium)  | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Ascospores   | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Aspergillus/Penicillium  | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Basidiospores  | 2         | 90   | 31         | 1         | 40   | 50         | 1   | 40                   | 100        |  |
| Bipolaris++  | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Chaetomium++   | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Cladosporium   | 4         | 200  | 69         | -         | -  | -          | -   | -                    | -          |  |
| Curvularia   | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Epicoccum  | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Fusarium++   | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Ganoderma  | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Myxomycetes++  | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Pithomyces++   | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Rust   | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Scopulariopsis/Microascus  | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Stachybotrys/Memnoniella   | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Unidentifiable Spores  | -         | -  | -          | 1         | 40   | 50         | -   | -                    | -          |  |
| Zygomycetes  | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Total Fungi  | 6         | 290  | 100        | 2         | 80   | 100        | 1   | 40                   | 100        |  |
| Hyphal Fragment  | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Insect Fragment  | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| Pollen   | -         | -  | -          | -         | -  | -          | -   | -                    | -          |  |
| 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  | -          | -   | -                    | -          |  |
| Background (1-5)   | -         | 1  | -          | -         | 1  | -          | -   | 1                    | -          |  |

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

the P.J

Steve Grise, Laboratory Manager or other Approved Signatory

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

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

Initial report from: 01/21/2022 09:08 AM

| OrderID: | 132200378 |
|----------|-----------|
| EIV      | ISL       |

EMSL ANALYTICAL, INC.

Microbiology Chain of Custody Form EMSL Order Number / Lab Use Only

# 132200378

EMSL Analytical, Inc. 5A Constitution Way Woburn, MA 01801

PHONE: (781) 933-8411

|                      |   |   |                  |  |        |                           |                     | 11 8 21   |           |             |           |                                    | <b>M</b>        |              |                               | nlab@emsl.com               |
|----------------------|---|---|------------------|--|--------|---------------------------|---------------------|---|-----------|-------------|-----------|------------------------------------|-----------------|--------------|-------------------------------|-----------------------------|
|                      | Customer ID:  |   |                  |  |        |                           | -                   | Billing I   |           | iame es ke; | 007-10188 | ne the sector                      | Drank, In       | ng-bau       | A primit us dimes m           | ritten authorization,       |
| g                    | Company Name: 1   | Vie D. I  |                  |  |        |                           |                     | Сотра   | ny Nam    | e:          |           |                                    |                 | -            |                               |                             |
| Customer Information | Contact Name.   |   | nels<br>D        | -  |        |                           | Billing Information | Billing (   | Contact:  |             |           |                                    |                 |              |                               |                             |
| ГоГ                  | Street Address  |   | eady             |  |        |                           | Ē                   | Street  | Address   | :           |           |                                    |                 |              |                               |                             |
| erh                  | City, State, Zip: (   |   | 24               |  | N:     | ~                         | Ĭ                   | City, St  | ate, Zip  |             |           |                                    |                 |              |                               | Country:                    |
| stom                 | City, State, Zip: Lynnfield, MA, O1940 Country: USA<br>Phone: |   |                  |  | 54     | Bulli                     | Phone:              |   |           |             |           |                                    |                 |              |                               |                             |
| Ö                    | L. /81-   | <u>690 - 40 4</u><br>Ukendy@ax                      | 4<br>/a          | m and                                    |        |                           | ā                   |   | ) for inv | oice:       |           |                                    |                 |              |                               |                             |
|                      | emacarti  | Ur@axione   | nv. com          | en ena                                   |        |                           |                     | Linanta   |           | 0.00,       |           |                                    |                 |              |                               |                             |
|                      | ···   |   |                  |  | Proj   | ect infor                 | ma                  | tion  |           |             |           |                                    |                 |              |                               |                             |
| Proje<br>Nam         | сt<br>в/No: 0127  | 15.007  | - 50             | ) Stat                                   | e      | S#                        | <u>_</u>            |   |           |             |           |                                    | rchase<br>der:  |              |                               |                             |
| (if spp              | LIMS Project ID:<br>icable, EMSL will                         |   |                  | State<br>Samples                         |        | Zip Co<br>Samp            |                     |   |           |             | St:       | ate of Conr                        | necticut        | (CT) 1       | nust select pro               | ect location                |
| provide<br>S arro    | )<br>bled By Name;  |   |                  | Collected.<br>Sampled By Signal          | Juro   | Collect                   | ed::                |   |           |             |           | <u> </u>                           |                 |              |                               | amples                      |
|                      | Micha   | el Keady  | ſ                |  | h      | 6-                        |                     |   |           |             |           |                                    |                 |              | in Shipr                      |                             |
|                      | Sterile,  | Sodium Thiosulfate Pre                              |                  |  |        |                           |                     |   |           |             |           |                                    |                 |              |                               |                             |
| ┝                    |   |   | ter Supply Sampl |  |        |                           | _                   |   |           | -           |           | l if require                       |                 |              |                               | it be submitted by 11:30am, |
|                      | 3 Hour  |   | 24 Hour          | 32" Hour                                 |        | 48 Hour                   | -                   | ]   | 1         | Hour        |           | 96 Hour                            |                 | <b></b>      | 1 Weck                        | 2 Wook                      |
| $\vdash$             |   |   |                  |  |        | OLOGY "                   |                     |   | l<br>ES   |             |           |                                    |                 | <u> </u>     | <u>.</u>                      |                             |
| MOO                  | Ar-O-Cell   | M174 MoldSnap                                       |                  | M012 Pseudomona                          | as ae  | eruginosa                 | (P/                 | (A***)  |           |             | M         | 15 Sewag                           | e Scree         | n - W        | aler (P/A***)                 | -                           |
|                      | • •   | M032 Allergenco-D                                   |                  | M024 Pseudomona                          |        | -                         | (M)                 | FT")  |           |             | M1        | 16 Sewage                          | e Scree         | in - Wa      | ater (MPN**)                  |                             |
| 1                    | Fungal Direct Examin  |   |                  | M015 Heterotrophic                       |        |                           |                     |   |           |             |           | M117 Sewage Screen - Swab (P/A***) |                 |              |                               |                             |
|                      | Pollen ID & Enumeral<br>Dust Characterization                 |   |                  | M017 Total Colifor<br>M018 Total Colifor |        | -                         |                     |   |           |             |           |                                    | (MRSA)          |              |                               |                             |
| 1                    | Dust Characterization   |   |                  | 1  |        | •                         |                     | meration (Colliert MPN**) M031 Rapid-growing non-TB Mycobactena Detection & |           |             |           |                                    |                 |              |                               |                             |
| MOOS                 | Viable Fungi-Air Sam  | ples (Genus ID & Count)                             |                  | M019 Fecal Colifor                       |        |                           | -                   |   | •         |             |           | umeration                          |                 |              | • • • • • • • •               |                             |
|                      |   | ples (Includes <i>Peniculium</i> ,                  | Aspergillus,     | M020 Fecal Strepto                       | tococ  | cus (MF                   | T*)                 |   |           |             | м         | 014 Endoto                         | xin Ana         | lysis        |                               |                             |
|                      | osporium, Stachybotry:  |   |                  | M029 Enterococci                         | •      |                           |                     | M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite)                        |           |             |           |                                    | ich, Dust Mite) |              |                               |                             |
|                      | -   | ace Samples (Genus ID &<br>ace Samples (Includes Pi | -                | M129 Enterococci                         |        |                           |                     |   |           |             |           | )95 Bacterd                        |                 | al Daia      | e Cuido fee To                | al Codo                     |
|                      |   | Stachybotrys Species ID                             |                  | M180 Real Time q<br>M025 Sewage Scri     | -      |                           |                     |   |           |             |           |                                    |                 |              |                               |                             |
| MOOS                 | Bacteria Culture Grar   | n Stain & Count                                     |                  | *MFT= Membrane                           |        | -                         |                     |   |           |             |           |                                    |                 |              |                               |                             |
| M010                 | ) Bactena Count & ID -  | 3 Most Prominent                                    |                  | **MPN = Most Pros                        | bable  | e Number                  | r                   |   |           |             |           |                                    |                 |              |                               | }                           |
| MO1                  | l Bacteria Count & ID -                                       | 5 Most Prominent                                    |                  | *** P/A = Presence/                      | Abs(   | ence                      |                     |   |           |             |           |                                    |                 |              |                               |                             |
|                      | Sample #  | Sample Location                                     | Description      | Sample Type<br>(Matrix)                  |        | otable /<br>Potable<br>Wa |                     | ily for   | Test      | Code        | Volu      |                                    |                 |              | Temperature<br>(Lab Use Only) |                             |
| E                    | ample: Sample 1   | Kitchei   | n                | Water                                    |        | Pot                       | able                | 9   | м         | 017         | 1,0       | 000 mî                             | 1/              | 1/202        | :1 3:30pm                     |                             |
|                      | 509188  | Jury Po.  | (                | Air                                      |        |                           |                     |   | M         | 37          | 7         | 5 L                                | 1/1             | 2/2          | 07:32                         |                             |
| 4                    | 509170  | Registry<br>Surverior Court                         | of Oceds         |  |        |                           |                     |   |           |             |           |                                    |                 | 1            | 08:45                         |                             |
| Ľ                    | 1509109   | Superior Court                                      | 4 4              |  |        |                           |                     |   |           |             |           | <u> </u>                           | 11              |              | 09:20                         |                             |
| 4                    | 449735  | Superior la   | uit 5            | egulatory Requirements (Sample S         |        |                           |                     |   |           |             |           |                                    | $\downarrow$    |              | 10:25                         |                             |
| 4                    | 209181  | Jury Reom   | 248              |  |        |                           |                     |   |           | /           |           | /                                  |                 | /            | nioa                          |                             |
| 4                    | 509192  | Clerk of Us<br>Court, Ci                            | v:1              |  |        |                           |                     | 6   | V         |             |           |                                    |                 |              | 1625                          |                             |
| 1                    |   | special instru                                      | coons and/or Keg | uatory requirement                       | ແລ (ວິ | ampie S <b>j</b>          | Jeci                | ucations  | , 11008:  | saing Metr  |           | Sec of                             | 830             | n <b>c.)</b> |                               |                             |
| L                    |   |   |                  |  |        |                           |                     |   |           | R           |           |                                    | <u>101</u>      | <u>JAN</u>   | <u>1420</u> 2                 | 2                           |
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EMSL Analytical, Inc.'s Laboratory Terms and Conditions are Incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

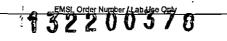


EMSL ANALYTICAL, INC. TESTING LABS · PRODUCTS · TRAINING

### **Microbiology Chain of Custody Form**

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

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Additional Pages of the Chein of Custody are only necessary I needed for additional sample Information Special Instructions and/or Regulatory R

PHONE: (800) 220-3675 EMAIL: CinnMicroLab@emsI.com

| Sample #                                | Sample Location/Description  | Sample Type<br>(Matrix)                    | Potable / Non<br>Potable (Only for<br>Water) |                        | Volume/Area             | Date / Tin    | ne Collected           | Temperature<br>(Lab Use Only) |
|---|--|--|--|------------------------|-------------------------|---------------|------------------------|-------------------------------|
| 4509136                                 | Court Service Center   | Air  | f  | M032                   | 75 L                    | 1/4/27        | 12:25                  |                               |
| 4509097                                 | Forensie Health Office<br>Gyz Mechanical<br>Room                                 |  |  | 1                      |                         |               | 13:00                  |                               |
| 4499730                                 | 642 Mechanical<br>Room   |  |  | 17                     |                         |               | 19:06                  |                               |
| 4509 144                                | (JOB OFFice  |  |  |                        |                         |               | 14:30                  |                               |
| 4509695                                 | Building Exterior  |  |  |                        |                         |               | 15:15                  |                               |
| 4509098                                 | Building Exterior<br>Building Exterior<br>Building Exterior<br>State St Sidewalk |  |  | V                      | W_                      |               | 15:27                  |                               |
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| had of Ohi work                         |  | <u> </u>                                   | <u> </u>                                     |                        |                         | <u> </u>      |                        |                               |
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| Controlled Document - COC-34 Mic        | ro R13 3/02/2021   | AGREE TO ELECTR                            | ONIC SIGNATURE (By o                         | checking, I consent to | signing this Chain of ( | Custody docu  | ment by electroni      | c signature.)                 |

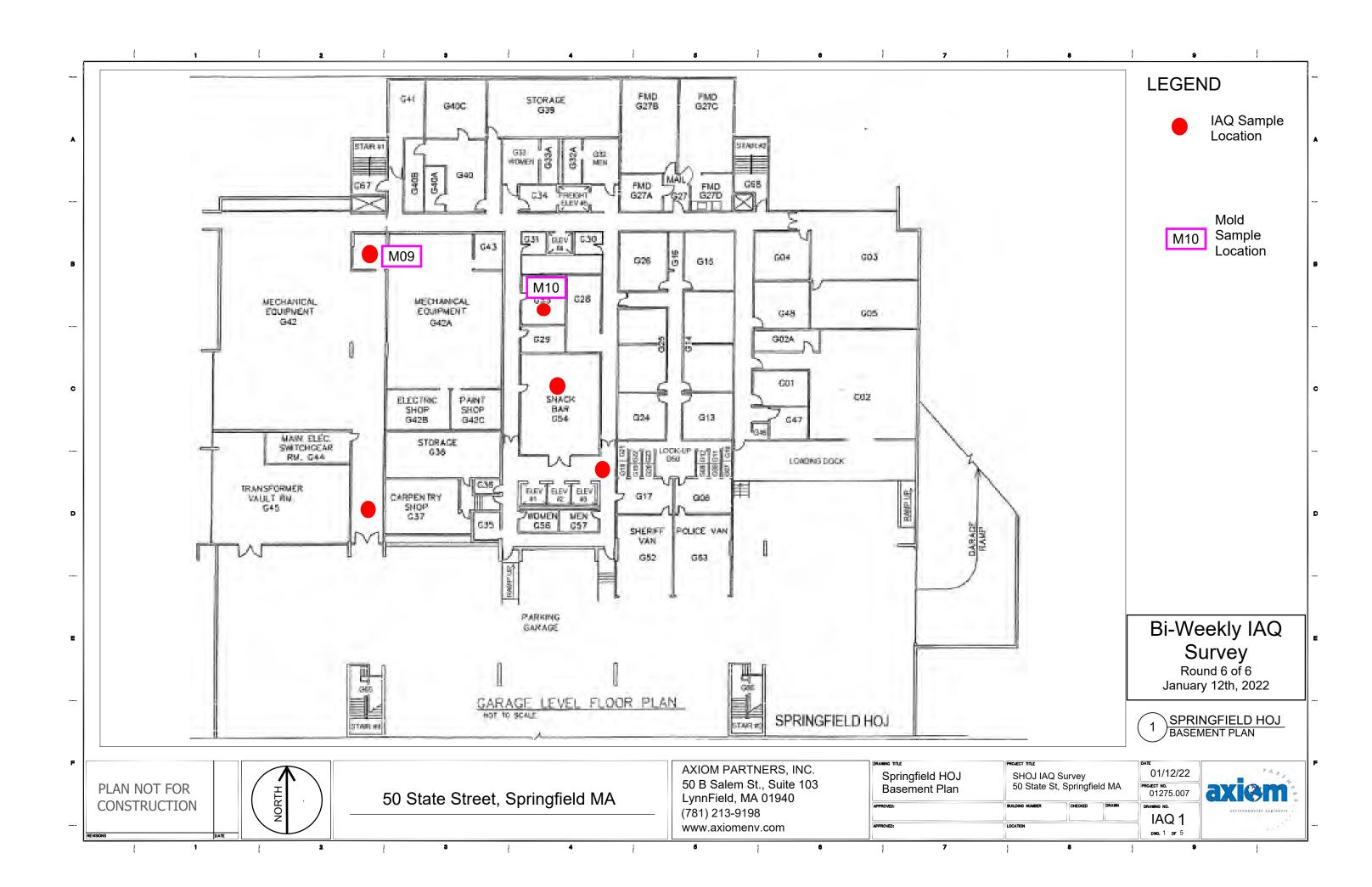
EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

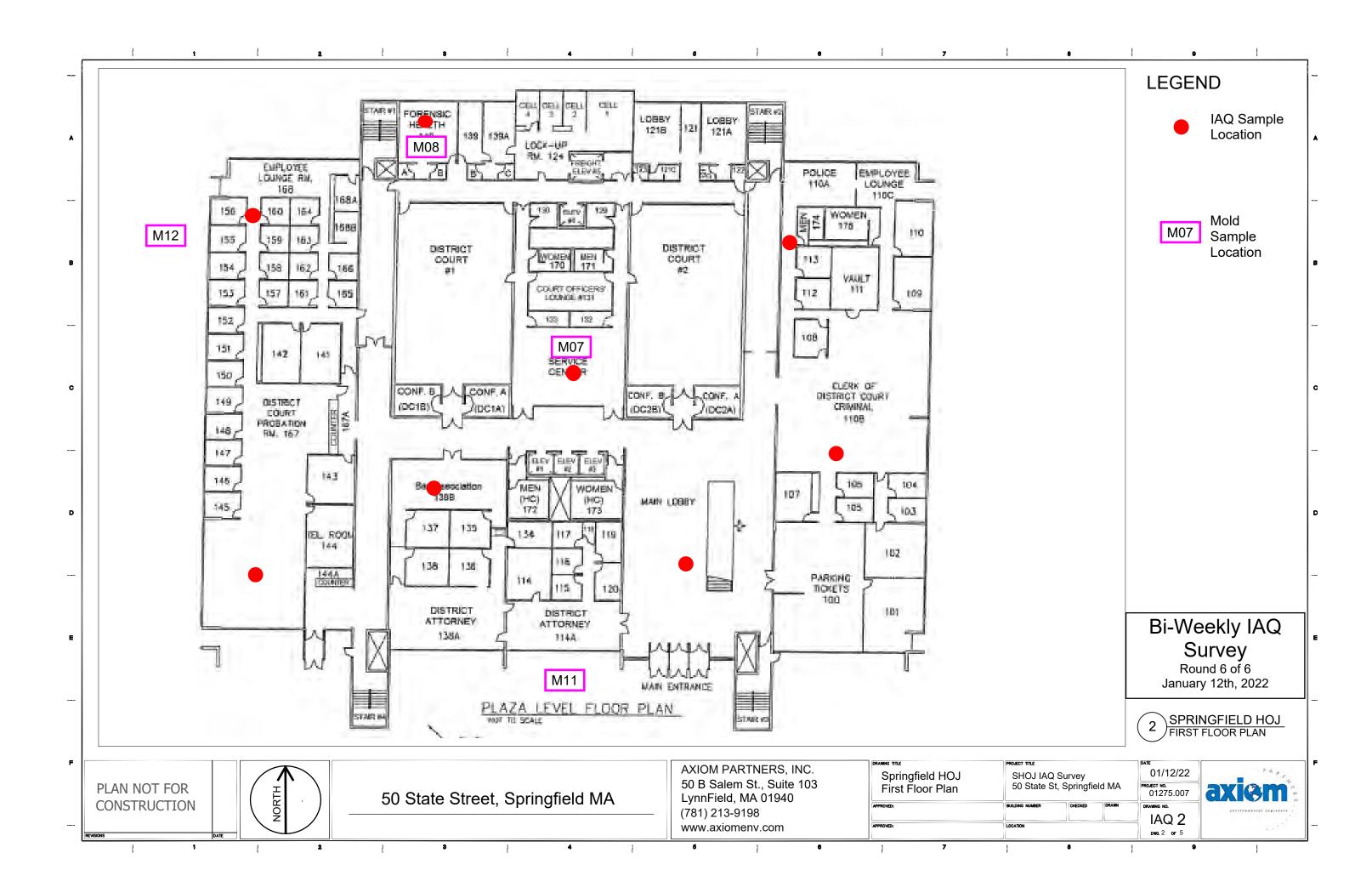
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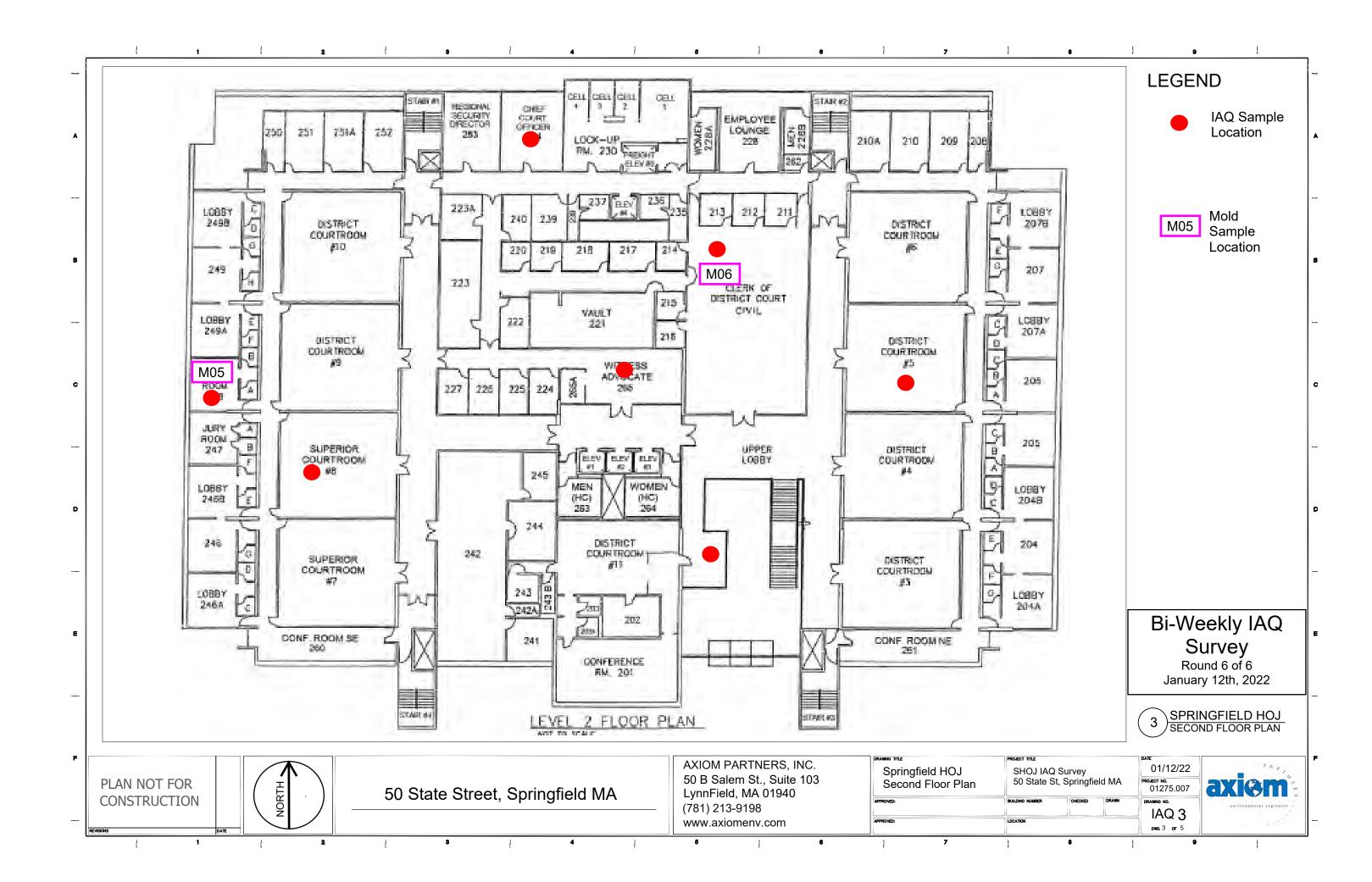
Page 2 Of

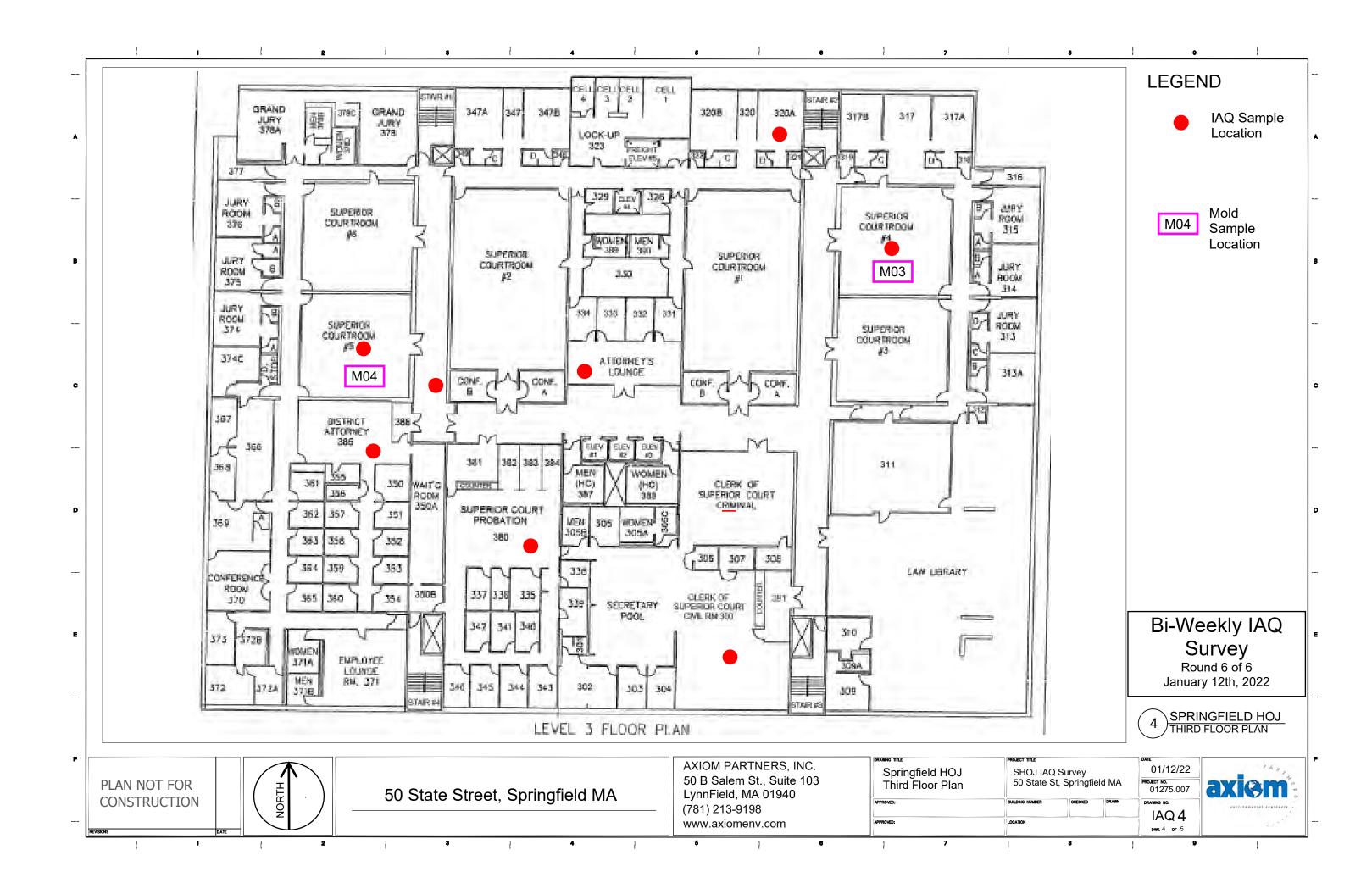
SAMPLE LOCATION FLOOR PLANS

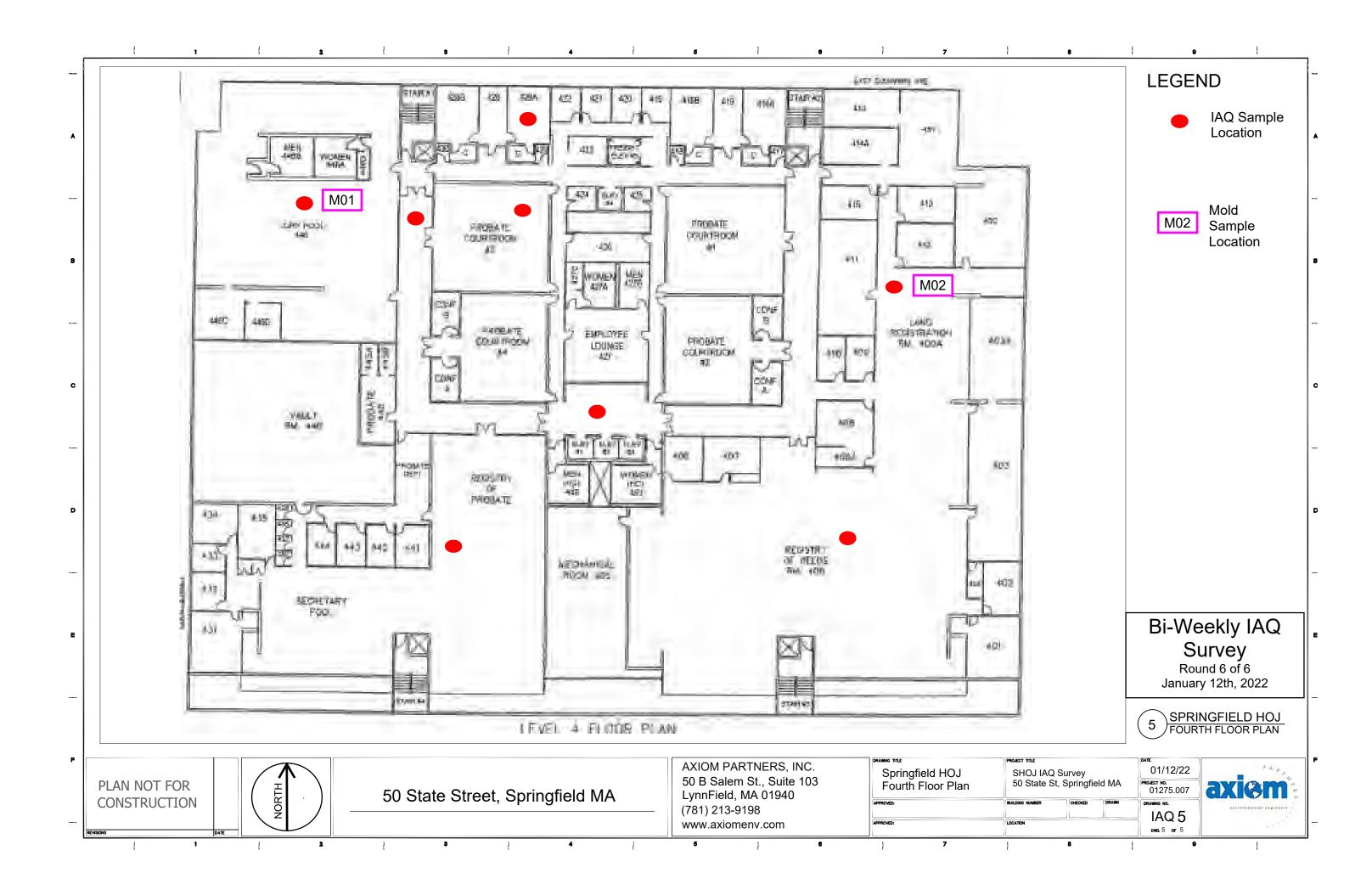












## **TVOC CONCENTRATION REFERENCE TABLE**



### TVOC INDOOR AIR CONCENTRATION REFERENCE GUIDE

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

