November 11, 2024

Mr. Robert Mortka
Director of Facilities
**Black Horse Pike Regional Board of Education**
580 Erial Rd.
Blackwood, NJ 08102

**RE: Indoor Air Quality Inspections – August/October 2024**
**Triton High School**
**Epic Project No. 24-2177**

Dear Mr. Mortka:

**Epic Environmental Services, LLC (Epic)** was retained by the Black Horse Pike Regional Board of Education (District) to perform indoor air quality assessment services at Triton High School. The initial evaluation consisted of inspecting six randomly selected rooms within the building. Following the results of the initial inspections, follow-up checks were performed to address issues identified during the initial inspections. The assessments consisted of temperature and humidity data collection, visual observations, and air sampling. The dates below list the services provided by Epic Environmental. Details of each inspection are attached.

## Services Provided by Date

| | |
|---|---|
| August 22, 2024 | Initial Inspections and Testing |
| October 10, 2024 | First Follow-up (Rooms H-7 and C-4) |
| October 29, 2024 | Second Follow-up (Room H-7) |

## General Conclusions

- All classrooms where mold was observed have been cleaned and air quality has been evaluated.
- Regular activity may be resumed in all classrooms.
- The humidity issue throughout the school must be addressed to avoid future mold activity.

Please do not hesitate to contact me at 856-205-1077 should you have any questions.

An invoice for the completed project is enclosed.

Regards,

Tim Eberts
Senior Project Manager
Epic Environmental Services, LLC

James Eberts
President
Epic Environmental Services, LLC

# August 22, 2024 – Initial Inspections & Testing

Epic Environmental Services, LLC performed routine air quality inspections at Triton High School on August 22, 2024, selecting six rooms at random. Airborne Aspergillus/Penicillium mold spore concentrations were elevated in rooms H-7 and C-4. Visual mold growth was observed on wooden cabinets, wooden desk legs, and beams in these areas.

No visible mold was observed in Rooms E-27, B-32, or C-30. Airborne mold spore concentrations were near or below background.

Relative humidity levels were within the ideal range of 30-60%. Relative humidity is a critical factor when assessing the potential for mold growth. Relative humidity above 70% can trigger certain types of mold to become active if a food source is available. The district was advised to clean all affected wooden surfaces with a mold-inhibiting cleaner and to operate air scrubbers post-cleanup to eliminate residual airborne mold spores.

## Air Sampling Summary

**Air Samples** **August 22, 2024**

| Air Sample Location | Airborne Mold Concentrations (spores/m³) | | |
|---|---|---|---|
| | Total | Individual Mold Concentrations | |
| Room E-27 | 560 | Ascospores | 200 |
| | | Aspergillus/Penicillium | 80 |
| | | Basidiospores | 200 |
| | | Epicoccum | 80 |
| Room H-7 | 7380 | Ascospores | 300 |
| | | Aspergillus/Penicillium | 6500 |
| | | Basidiospores | 500 |
| | | Pithomyces | 80 |
| Room B-32 | 3060 | Alternaria | 80 |
| | | Ascospores | 1100 |
| | | Aspergillus/Penicillium | 400 |
| | | Basidiospores | 1200 |
| | | Cladosporium | 200 |
| | | Myxomycetes | 80 |
| Room C-30 | 1800 | Ascospores | 200 |
| | | Aspergillus/Penicillium | 700 |
| | | Basidiospores | 600 |
| | | Cladosporium | 300 |

Continued Next Page

## Air Samples August 22, 2024

| Air Sample Location | Airborne Mold Concentrations (spores/m³) | | |
|---|---|---|---|
| | Total | Individual Mold Concentrations | |
| Room C-13 | | Ascospores | 600 |
| | | Aspergillus/Penicillium | 300 |
| | | Basidiospores | 1400 |
| | | Cladosporium | 200 |
| | | Myxomycetes | 80 |
| Room C-4 | 3380 | Ascospores | 400 |
| | | Aspergillus/Penicillium | 1700 |
| | | Basidiospores | 880 |
| | | Cladosporium | 400 |
| Outside | 7640 | Ascospores | 2300 |
| | | Aspergillus/Penicillium | 80 |
| | | Basidiospores | 4100 |
| | | Bipolaris | 80 |
| | | Cladosporium | 600 |
| | | Ganoderma | 200 |
| | | Myxomycetes | 200 |
| | | Pithomyces | 80 |

- Total mold counts found in **green** indicate a total airborne mold level NEAR or BELOW the outside (background) level.
- Total mold counts found in **red** indicate a total airborne mold level ABOVE the outside (background) level, and may be an indicator of active mold growth.
- Individual molds listed in **green** indicate an individual airborne mold level NEAR or BELOW outside the (background) level.
- Individual molds listed in **purple** were not found in the background sample, but not considered evidence of a water/moisture issue or active mold growth.
- Individual molds listed in **red** indicate an individual airborne mold level ABOVE the outside (background) level, and may be an indicator of active mold growth in the area.

Airborne Aspergillus/Penicillium concentrations were elevated in rooms H-7 and C-4.


Epic Enviromental Services, LLC
Tele: 856.205.1077
www.epicenviro.com
80 Fork Bridge Road
Pittsgrove, NJ 08318

# October 10, 2024 – First Follow-up (Rooms H-7 & C-4)

Epic Environmental Services, LLC performed a follow-up inspection for Triton High School on October 10, 2024. The purpose of the inspection was to assess airborne mold spore concentrations post mold cleanup.

Air sampling results indicated a significant improvement in Room C4. However, Room H-7 still presented elevated concentrations of airborne Aspergillus/Penicillium spores. Visible mold was still observed on wooden furniture in Room H-7. Following these findings, the district received further recommendations to clean the affected furniture, operate air scrubbers to capture any residual spores, and to conduct another round of testing after a period allowing the air scrubbers to effectively clean the air.

## Air Sampling Summary

### Air Samples October 10, 2024

| Air Sample Location | Airborne Mold Concentrations (spores/m³) | | |
|---|---|---|---|
| | Total | Individual Mold Concentrations | |
| Room H-7 | 6540 | Alternaria | 40 |
| | | Ascospores | 200 |
| | | Aspergillus/Penicillium | 1400 |
| | | Basidiospores | 1100 |
| | | Cladosporium | 2800 |
| Room C-4 | 1220 | Aspergillus/Penicillium | 600 |
| | | Basidiospores | 300 |
| | | Cladosporium | 200 |
| | | Curvularia | 40 |
| | | Pithomyces | 80 |
| Outside | 4280 | Aspergillus/Penicillium | 800 |
| | | Basidiospores | 2200 |
| | | Cladosporium | 880 |
| | | Epicoccum | 80 |
| | | Ganoderma | 200 |
| | | Rust | 40 |
| | | Nigrospora | 80 |

- Total mold counts found in **green** indicate a total airborne mold level NEAR or BELOW the outside (background) level.
- Total mold counts found in **red** indicate a total airborne mold level ABOVE the outside (background) level, and may be an indicator of active mold growth.
- Individual molds listed in **green** indicate an individual airborne mold level NEAR or BELOW outside the (background) level.
- Individual molds listed in **purple** were not found in the background sample, but not considered evidence of a water/moisture issue or active mold growth.
- Individual molds listed in **red** indicate an individual airborne mold level ABOVE the outside (background) level, and may be an indicator of active mold growth in the area.

Airborne Aspergillus/Penicillium and Cladosporium mold spore concentrations were elevated in Room H-7. Airborne mold spore concentrations were near or below background (outside) concentrations in Room C-4.

# October 29, 2024 – Second Follow-up (Room H-7)

Epic Environmental Services, LLC performed a second follow-up air quality inspection on October 29, 2024 for Room H-7 to assess airborne mold spore concentrations following additional remediation activities. No visible mold was observed. Airborne mold spore concentrations in Room H-7 were near or below background (outside) concentrations and the room was cleared.

## Air Sampling Summary

**Air Samples** **October 29, 2024**

| Air Sample Location | Airborne Mold Concentrations (spores/m³) | | |
|---|---|---|---|
| | Total | Individual Mold Concentrations | |
| Room H-7 | 3240 | Ascospores | 80 |
| | | Aspergillus/Penicillium | 200 |
| | | Basidiospores | 800 |
| | | Cladosporium | 2000 |
| | | Curvularia | 80 |
| | | Myxomycetes | 80 |
| Outside | 6100 | Alternaria | 200 |
| | | Ascospores | 200 |
| | | Aspergillus/Penicillium | 200 |
| | | Basidiospores | 960 |
| | | Cladosporium | 3500 |
| | | Curvularia | 80 |
| | | Myxomycetes | 200 |
| | | Pithomyces | 80 |
| | | Unidentifiable Spores | 80 |
| | | Paecilomyces | 600 |

- Total mold counts found in **green** indicate a total airborne mold level NEAR or BELOW the outside (background) level.
- Total mold counts found in **red** indicate a total airborne mold level ABOVE the outside (background) level, and may be an indicator of active mold growth.
- Individual molds listed in **green** indicate an individual airborne mold level NEAR or BELOW outside the (background) level.
- Individual molds listed in **purple** were not found in the background sample, but not considered evidence of a water/moisture issue or active mold growth.
- Individual molds listed in **red** indicate an individual airborne mold level ABOVE the outside (background) level, and may be an indicator of active mold growth in the area.

Airborne mold spore concentrations were near or below background (outside) concentrations.

# EMSL Analytical, Inc.

2700 W. Cypress Creek Rd. Ste. C108 Fort Lauderdale, FL 33309
Tel/Fax: (954) 786-9331 / (954) 941-4145
http://www.EMSL.com / ftlauderdalelab@emsl.com


**EMSL Order:** 562404006
**Customer ID:** EPIC62
**Customer PO:** 24-2177
**Project ID:**

**Attention:** James Eberts
Epic Environmental Services, LLC
80 Fork Bridge Road
Pittsgrove, NJ 08318

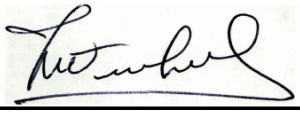
**Phone:** (856) 205-1077
**Fax:** (856) 205-0413
**Collected Date:** 08/22/2024
**Received Date:** 08/22/2024
**Analyzed Date:** 08/29/2024

**Project:** Triton HS IAQ - Routine

**Test Report: Micro-5(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)**

| Lab Sample Number: | 562404006-0001 | | | 562404006-0002 | | | 562404006-0003 | | |
|---|---|---|---|---|---|---|---|---|---|
| Client Sample ID: | T-01 | | | T-02 | | | T-03 | | |
| Volume (L): | 25 | | | 25 | | | 25 | | |
| Sample Location: | Outside | | | RM E-27 | | | RM H-7 | | |
| **Spore Types** | **Raw Count†** | **Count/m³** | **% of Total** | **Raw Count†** | **Count/m³** | **% of Total** | **Raw Count†** | **Count/m³** | **% of Total** |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | 29 | 2300 | 30.1 | 2 | 200 | 35.7 | 4 | 300 | 4.1 |
| Aspergillus/Penicillium++ | 1 | 80 | 1 | 1 | 80 | 14.3 | 81 | 6500 | 88.1 |
| Basidiospores | 51 | 4100 | 53.7 | 2 | 200 | 35.7 | 6 | 500 | 6.8 |
| Bipolaris++ | 1 | 80 | 1 | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - |
| Cladosporium | 8 | 600 | 7.9 | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | 1 | 80 | 14.3 | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - |
| Ganoderma | 2 | 200 | 2.6 | - | - | - | - | - | - |
| Myxomycetes++ | 3 | 200 | 2.6 | - | - | - | - | - | - |
| Pithomyces++ | 1 | 80 | 1 | - | - | - | 1 | 80 | 1.1 |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| **Total Fungi** | **96** | **7640** | **100** | **6** | **560** | **100** | **92** | **7380** | **100** |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 80 | - | - | 80 | - | - | 80 | - |
| Analyt. Sensitivity 300x | - | 40* | - | - | 40* | - | - | 40* | - |
| Skin Fragments (1-4) | - | 1 | - | - | 2 | - | - | 2 | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Background (1-5) | - | 2 | - | - | 2 | - | - | 3 | - |

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.
† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.



Yessica Martinez Seeman, Florida Microbiology Regional Manager

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



Samples analyzed by EMSL Analytical, Inc. Fort Lauderdale, FL

Initial report from: 08/29/2024 12:36 PM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com

# EMSL Analytical, Inc.

2700 W. Cypress Creek Rd. Ste. C108 Fort Lauderdale, FL 33309
Tel/Fax: (954) 786-9331 / (954) 941-4145
http://www.EMSL.com / ftlauderdalelab@emsl.com


| | |
|---|---|
| **EMSL Order:** | 562404006 |
| **Customer ID:** | EPIC62 |
| **Customer PO:** | 24-2177 |
| **Project ID:** | |

**Attention:** James Eberts
Epic Environmental Services, LLC
80 Fork Bridge Road
Pittsgrove, NJ 08318

**Phone:** (856) 205-1077
**Fax:** (856) 205-0413
**Collected Date:** 08/22/2024
**Received Date:** 08/22/2024
**Analyzed Date:** 08/29/2024

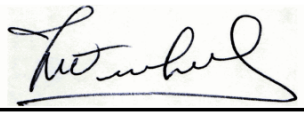
**Project:** Triton HS IAQ - Routine

**Test Report: Micro-5(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)**

| Lab Sample Number: | 562404006-0004 | | | 562404006-0005 | | | 562404006-0006 | | |
|---|---|---|---|---|---|---|---|---|---|
| Client Sample ID: | T-04 | | | T-05 | | | T-06 | | |
| Volume (L): | 25 | | | 25 | | | 25 | | |
| Sample Location: | RM B-32 | | | RM C-30 | | | RM C-13 | | |
| **Spore Types** | **Raw Count†** | **Count/m³** | **% of Total** | **Raw Count†** | **Count/m³** | **% of Total** | **Raw Count†** | **Count/m³** | **% of Total** |
| Alternaria (Ulocladium) | 1 | 80 | 2.6 | - | - | - | - | - | - |
| Ascospores | 14 | 1100 | 35.9 | 3 | 200 | 11.1 | 7 | 600 | 23.3 |
| Aspergillus/Penicillium++ | 5 | 400 | 13.1 | 9 | 700 | 38.9 | 4 | 300 | 11.6 |
| Basidiospores | 15 | 1200 | 39.2 | 8 | 600 | 33.3 | 18 | 1400 | 54.3 |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - |
| Cladosporium | 3 | 200 | 6.5 | 4 | 300 | 16.7 | 2 | 200 | 7.8 |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | 1 | 80 | 2.6 | - | - | - | 1 | 80 | 3.1 |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| **Total Fungi** | **39** | **3060** | **100** | **24** | **1800** | **100** | **32** | **2580** | **100** |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - |
| Insect Fragment | 1 | 80 | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 80 | - | - | 80 | - | - | 80 | - |
| Analyt. Sensitivity 300x | - | 40* | - | - | 40* | - | - | 40* | - |
| Skin Fragments (1-4) | - | 2 | - | - | 2 | - | - | 2 | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Background (1-5) | - | 2 | - | - | 3 | - | - | 2 | - |

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.
† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

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



Yessica Martinez Seeman, Florida Microbiology Regional Manager



Initial report from: 08/29/2024 12:36 PM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com

**EMSL Analytical, Inc.**
2700 W. Cypress Creek Rd. Ste. C108 Fort Lauderdale, FL 33309
Tel/Fax: (954) 786-9331 / (954) 941-4145
http://www.EMSL.com / ftlauderdalelab@emsl.com

**EMSL Order:** 562404006
**Customer ID:** EPIC62
**Customer PO:** 24-2177
**Project ID:**

**Attention:** James Eberts
Epic Environmental Services, LLC
80 Fork Bridge Road
Pittsgrove, NJ 08318

**Phone:** (856) 205-1077
**Fax:** (856) 205-0413
**Collected Date:** 08/22/2024
**Received Date:** 08/22/2024
**Analyzed Date:** 08/29/2024

**Project:** Triton HS IAQ - Routine

**Test Report: Micro-5(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)**

| | | | |
|---|---|---|---|
| **Lab Sample Number:** | **562404006-0007** | | |
| **Client Sample ID:** | **T-07** | | |
| **Volume (L):** | **25** | | |
| **Sample Location:** | **RM C-4** | | |
| **Spore Types** | **Raw Count†** | **Count/m³** | **% of Total** |
| Alternaria (Ulocladium) | - | - | - |
| Ascospores | 5 | 400 | 11.8 |
| Aspergillus/Penicillium++ | 21 | 1700 | 50.3 |
| Basidiospores | 11 | 880 | 26 |
| Bipolaris++ | - | - | - |
| Chaetomium++ | - | - | - |
| Cladosporium | 5 | 400 | 11.8 |
| Curvularia | - | - | - |
| Epicoccum | - | - | - |
| Fusarium++ | - | - | - |
| Ganoderma | - | - | - |
| Myxomycetes++ | - | - | - |
| Pithomyces++ | - | - | - |
| Rust | - | - | - |
| Scopulariopsis/Microascus | - | - | - |
| Stachybotrys/Memnoniella | - | - | - |
| Unidentifiable Spores | - | - | - |
| Zygomycetes | - | - | - |
| **Total Fungi** | **42** | **3380** | **100** |
| Hyphal Fragment | - | - | - |
| Insect Fragment | - | - | - |
| Pollen | - | - | - |
| Analyt. Sensitivity 600x | - | 80 | - |
| Analyt. Sensitivity 300x | - | 40* | - |
| Skin Fragments (1-4) | - | 2 | - |
| Fibrous Particulate (1-4) | - | 1 | - |
| Background (1-5) | - | 3 | - |

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.
† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

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

Yessica Martinez Seeman, Florida Microbiology Regional Manager



Initial report from: 08/29/2024 12:36 PM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com

OrderID: 562404006

RECEIVED
EMSL
CINNAMINSON, NJ
24 AUG 22

Due 8/29

# Environmental Microbiology Chain of Custody

EMSL Order Number *(Lab Use Only)*: 562404006

EMSL Analytical, Inc.
Westmon
Westmon
PHONE:
FAX: (856) 858-4960

| | |
|---|---|
| **Company:** Epic Environmental Services, LLC | **EMSL-Bill to:** ☑ Same ☐ Different<br>If Bill to is Different note instructions in Comments**<br>*Third Party Billing requires written authorization from third party* |
| **Street:** 1930 Brown Road | |
| **City/State/Zip:** Newfield, NJ 08344 | |
| **Report To (Name):** James Eberts | **Fax:** 856-205-0413 |
| **Telephone:** 856-205-1077 | **Email Address:** jeberts@epicenviro.com |
| **Project Name/Number:** Triton HS IAQ - Routine | |
| **Please Provide Results:** Email | **Purchase Order:** 24-2177 **State Samples Taken:** NJ |

**Turnaround Time (TAT) Options* - Please Check**

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☒ 1 Week ☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements

**Non Culturable Air Samples (Spore Traps)**

| | | | | |
|---|---|---|---|---|
| • M001 Air-O-Cell | • M173 Allegro M2 | • M004 Allergenco | • M032 Allergenco-D | • M172 Versa Trap |
| • M049 BioSIS | • M003 Burkard | • M043 Cyclex | • M002 Cyclex-d | |
| • M030 Micro 5 | • M174 MoldSnap | • M176 Refle Smart | • M130 Via-Cell | |

**Other Microbiology Test Codes**

| | | |
|---|---|---|
| • M041 Fungal Direct Examination | • M014 Endotoxin Analysis | • M029 *Enterococci* |
| • M005 Viable Fungi ID and Count | • M015 Heterotrophic Plate Count | • M019 Fecal Coliform |
| • M006 Viable Fungi ID and Count (Speciation) | • M100 Real Time Q-PCR-ERMI 36 Panel | • M133 MRSA Analysis |
| • M007 Culturable Fungi | • M018 Total Coliform (Membrane Filtration) | • M020 *Cryptococcus neoformans* Detection |
| • M008 Culturable Fungi (Speciation) | • M020 Fecal *Streptococcus* (Membrane Filtration) | • M120 *Histoplasma capsulatum* Detection |
| • M009 Gram Stain Culturable Bacteria | • M210-215 Legionella Detection | • M033-39 Allergen Testing |
| • M010 Bacterial Count and ID – 3 Most Prominent | • M026 Recreational Water Screen | • M044 Group Allergen (Cat, Dog, Cockroach, Dustmites) |
| • M011 Bacterial Count and ID – 5 Most Prominent | • M027 Mycotoxin Analysis | • Other See Analytical Price Guide |
| • M013 Sewage Contamination in Buildings | | |

**Preservation Method (Water):**

**Name of Sampler:** Timothy Eberts **Signature of Sampler:**

| Sample # | Sample Location | Sample Type | Test Code | Volume/Area | Date/Time Collected |
|---|---|---|---|---|---|
| T-01 | Outside | AIR | M030 | 25L | 8/22/24 1121 |
| T-02 | Rm E-27 | | | | 1129 |
| T-03 | Rm H-7 | | | | 1135 |
| T-04 | Rm B-32 | | | | 1142 |
| T-05 | Rm C-30 | | | | 1149 |
| T-06 | Rm C-13 | | | | 1155 |
| T-07 | Rm C-4 | | | | 1201 |
| | | | | | |
| | | | | | |
| | | | | | |

**Client Sample # (s):** T-01 - T-07 **Total # of Samples:** 7

**Relinquished (Client):** **Date:** 8/22/24 **Time:** 1255

**Received (Client):** **Date:** 8/22/24 **Time:** 1255 P

**Comments/Special Instructions:**

# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-0262
http://www.EMSL.com / cinnmicrolab@emsl.com


**EMSL Order:** 372417156
**Customer ID:** EPIC62
**Customer PO:** 24-2177
**Project ID:**

**Attention:** James Eberts
Epic Environmental Services, LLC
80 Fork Bridge Road
Pittsgrove, NJ 08318

**Phone:** (856) 205-1077
**Fax:** (856) 205-0413
**Collected Date:** 10/04/2024
**Received Date:** 10/04/2024
**Analyzed Date:** 10/11/2024

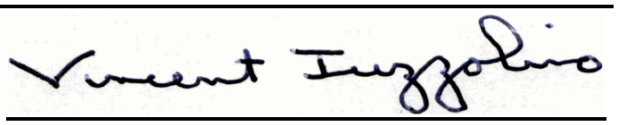
**Project:** Triton HS IAQ Re-Test

**Test Report: Micro-5(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)**

| Lab Sample Number: | 372417156-0001 | | | 372417156-0002 | | | 372417156-0003 | | |
|---|---|---|---|---|---|---|---|---|---|
| Client Sample ID: | T-01 | | | T-02 | | | T-03 | | |
| Volume (L): | 25 | | | 25 | | | 25 | | |
| Sample Location: | Outside | | | Rm - H-7 | | | Rm - C-4 | | |
| **Spore Types** | **Raw Count†** | **Count/m³** | **% of Total** | **Raw Count†** | **Count/m³** | **% of Total** | **Raw Count†** | **Count/m³** | **% of Total** |
| Alternaria (Ulocladium) | - | - | - | 1 | 40* | 0.6 | - | - | - |
| Ascospores | - | - | - | 2 | 200 | 3.1 | - | - | - |
| Aspergillus/Penicillium++ | 10 | 800 | 18.7 | 17 | 1400 | 21.4 | 7 | 600 | 49.2 |
| Basidiospores | 27 | 2200 | 51.4 | 14 | 1100 | 16.8 | 4 | 300 | 24.6 |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - |
| Cladosporium | 11 | 880 | 20.6 | 48 | 3800 | 58.1 | 3 | 200 | 16.4 |
| Curvularia | - | - | - | - | - | - | 1 | 40* | 3.3 |
| Epicoccum | 2 | 80* | 1.9 | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - |
| Ganoderma | 6 | 200* | 4.7 | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | 1 | 80 | 6.6 |
| Rust | 1 | 40* | 0.9 | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Nigrospora | 2 | 80* | 1.9 | - | - | - | - | - | - |
| **Total Fungi** | **59** | **4280** | **100** | **82** | **6540** | **100** | **16** | **1220** | **100** |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 80 | - | - | 80 | - | - | 80 | - |
| Analyt. Sensitivity 300x | - | 40* | - | - | 40* | - | - | 40* | - |
| Skin Fragments (1-4) | - | 1 | - | - | 2 | - | - | 2 | - |
| 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.
† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

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



Vincent Iuzzolino, M.S., Laboratory Director
or other Approved Signatory



Samples analyzed by LA Testing Huntington Beach, CA AIHA LAP, LLC-EMLAP Accredited #101650

Initial report from: 10/11/2024 01:23 PM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com

OrderID: 372417156

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

# Microbiology Chain of Custody Form

EMSL Order Number / Lab Use Only

372417156

RECEIVED EMSL CINNAMINSON, NJ 2024 OCT -4 A 10:42

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX:
c@emsl.com

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

| Customer Information | | Billing Information | |
|---|---|---|---|
| Customer ID: | | Billing ID: | |
| Company Name: | Epic Environmental Services, LLC | Company Name: | Epic Environmental Services, LLC |
| Contact Name: | James Eberts | Billing Contact: | James Eberts |
| Street Address: | 80 Fork Bridge Road | Street Address: | 80 Fork Bridge Road |
| City, State, Zip: | Pittsgrove NJ 08318 | City, State, Zip: | Pittsgrove NJ 08318 |
| Country: | US | Country: | US |
| Phone: | 856-205-1077 | Phone: | 856-205-1077 |
| Email(s) for Report: | jeberts@epicenviro.com | Email(s) for Invoice: | |

**Project Information**

Project Name/No: Triton HS IAQ Re-Test

Purchase Order: 24-2177

EMSL LIMS Project ID: (If applicable, EMSL will provide)

State Samples Collected: NJ

Zip Code Samples Collected::

State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-taxable)

Sampled By Name: Timothy Eberts

Sampled By Signature:

No. of Samples in Shipment: 3

Sterile, Sodium Thiosulfate Preserved Bottle Used: ☐ Biocide Used in Source (specify)

Public Water Supply Samples: ☐ **Note: All results may automatically be reported to DOH if required by State.**

**Turn-Around-Time (TAT)** Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32* Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☒ 1 Week ☐ 2 Week

**MICROBIOLOGY TEST CODES**

| | | | |
|---|---|---|---|
| **M001** Air-O-Cell | **M174** MoldSnap | **M012** *Pseudomonas aeruginosa* (P/A***) | **M115** Sewage Screen - Water (P/A***) |
| **M030** Micro 5 | **M032** Allergenco-D | **M024** *Pseudomonas aeruginosa* (MFT*) | **M116** Sewage Screen - Water (MPN**) |
| **M041** Fungal Direct Examination | | **M015** Heterotrophic Plate Count | **M117** Sewage Screen - Swab (P/A***) |
| **M169** Pollen ID & Enumeration | | **M017** Total Coliform & *E. Coli* (Colilert P/A***) | **M013** Sewage Screen - Swab (MFT*) |
| **M280** Dust Characterization Level-1 | | **M018** Total Coliform & *E. Coli* (MFT*) | **M730** *Methicillin-resistant Staph, aureus* (MRSA) |
| **M281** Dust Characterization Level-2 | | **M114** Total Coliform & *E. Coli Enumeration (Colilert MPN***)* | **M031** Rapid-growing non-TB *Mycobacteria* Detection & Enumeration |
| **M005** Viable Fungi-Air Samples (Genus ID & Count) | | **M019** Fecal Coliform (MFT*) | |
| **M006** Viable Fungi-Air Samples (Includes *Penicillum, Aspergillus, Cladosporium, Stachybotrys* Species ID & Count) | | **M020** Fecal *Streptococcus* (MFT*) | **M014** Endotoxin Analysis |
| | | **M029** *Enterococci* (MFT*) | **M044** Group Allergen (Cat, Dog, Cockroach, Dust Mite) |
| **M007** Culturable Fungi-Surface Samples (Genus ID & Count) | | **M129** *Enterococci* (Enterolert P/A***) | **M095** Bacteroides |
| **M008** Culturable Fungi-Surface Samples (Includes *Penicillum, Aspergillus, Cladosporium, Stachybotrys* Species ID & Count) | | **M180** Real Time qPCR-ERMI 36 Panel | **Other** - See Analytical Price Guide for Test Code |
| | | **M025** Sewage Screen - Water (MFT*) | ***Legionella Analysis*** Please use EMSL *Legionella* COC |
| **M009** Bacteria Culture Gram Stain & Count | | *MFT= Membrane Filtration Technique | |
| **M010** Bacteria Count & ID - 3 Most Prominent | | **MPN = Most Probable Number | |
| **M011** Bacteria Count & ID - 5 Most Prominent | | ***P/A = Presence/Absence | |

| Sample # | Sample Location/Description | Sample Type (Matrix) | Potable / Non-Potable (Only for Water) | Test Code | Volume/Area | Date / Time Collected | Temperature (Lab Use Only) |
|---|---|---|---|---|---|---|---|
| **Example:** Sample 1 | Kitchen | Water | Potable | M017 | 1,000 ml | 1/1/2021 3:30pm | |
| T-01 | Outside | Air | / | M030 | 25L | 10/4/24 0805 | |
| T-02 | RM H-7 | ↓ | | ↓ | ↓ | ↓ 0840 | |
| T-03 | RM C-4 | ↓ | | ↓ | ↓ | ↓ 0951 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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

3cy

Method of Shipment:

Sample Condition Upon Receipt:

| | | | |
|---|---|---|---|
| Relinquished by: | Date/Time: 10/4/24 1000 | Received by: Chalen WI | Date/Time 10/4/24 1040 |
| Relinquished by: | Date/Time: | Received by: | Date/Time |

Controlled Document - COC-34 Micro R13 03/02/2021

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

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

# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-0262
http://www.EMSL.com / cinnmicrolab@emsl.com


**EMSL Order:** 372418757
**Customer ID:** EPIC62
**Customer PO:** 24-2177
**Project ID:**

**Attention:** James Eberts
Epic Environmental Services, LLC
80 Fork Bridge Road
Pittsgrove, NJ 08318

**Phone:** (856) 205-1077
**Fax:** (856) 205-0413
**Collected Date:** 10/29/2024
**Received Date:** 10/29/2024
**Analyzed Date:** 10/31/2024

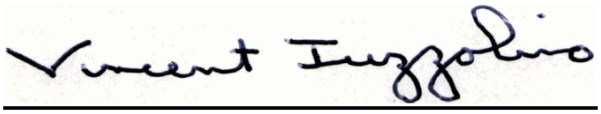
**Project:** Triton Room H-7 Re-Test

**Test Report: Micro-5(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)**

| Lab Sample Number: | 372418757-0001 | | | 372418757-0002 | | |
|---|---|---|---|---|---|---|
| Client Sample ID: | THS-OUT | | | THS-H7 | | |
| Volume (L): | 25 | | | 25 | | |
| Sample Location: | Outside | | | Room H7 | | |
| **Spore Types** | **Raw Count†** | **Count/m³** | **% of Total** | **Raw Count†** | **Count/m³** | **% of Total** |
| Alternaria (Ulocladium) | 3 | 200 | 3.3 | - | - | - |
| Ascospores | 2 | 200 | 3.3 | 1 | 80 | 2.5 |
| Aspergillus/Penicillium++ | 2 | 200 | 3.3 | 2 | 200 | 6.2 |
| Basidiospores | 12 | 960 | 15.7 | 10 | 800 | 24.7 |
| Bipolaris++ | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - |
| Cladosporium | 44 | 3500 | 57.4 | 25 | 2000 | 61.7 |
| Curvularia | 1 | 80 | 1.3 | 1 | 80 | 2.5 |
| Epicoccum | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - |
| Myxomycetes++ | 2 | 200 | 3.3 | 1 | 80 | 2.5 |
| Pithomyces++ | 1 | 80 | 1.3 | - | - | - |
| Rust | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - |
| Unidentifiable Spores | 1 | 80 | 1.3 | - | - | - |
| Zygomycetes | - | - | - | - | - | - |
| Paecilomyces++ | 7 | 600 | 9.8 | - | - | - |
| **Total Fungi** | **75** | **6100** | **100** | **40** | **3240** | **100** |
| Hyphal Fragment | 5 | 400 | - | 3 | 200 | - |
| Insect Fragment | - | - | - | - | - | - |
| Pollen | 1 | 80 | - | - | - | - |
| Analyt. Sensitivity 600x | - | 80 | - | - | 80 | - |
| Analyt. Sensitivity 300x | - | 40* | - | - | 40* | - |
| Skin Fragments (1-4) | - | 1 | - | - | 2 | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - |
| Background (1-5) | - | 3 | - | - | 3 | - |

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.
† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

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



Vincent Iuzzolino, M.S., Laboratory Director
or other Approved Signatory



Initial report from: 11/01/2024 01:00 PM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com

OrderID: 372418757

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

# Microbiology Chain of Custody Form

EMSL Order Number / Lab Use Only

372418757

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

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

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

**Customer Information**

Customer ID: ~~Casey Lyons~~ Epic Environmental
Company Name:
Contact Name:
Street Address:
City, State, Zip: Country:
Phone:
Email(s) for Report: Mailing list

**Billing Information**

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

**Project Information**

Project Name/No: Triton Room H-7 Re-Test
Purchase Order: 24-2177
EMSL LIMS Project ID: (If applicable, EMSL will provide)
State Samples Collected:
Zip Code Samples Collected::
State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-taxable)
Sampled By Name: Casey Lyons
Sampled By Signature: Casey Lyons
No. of Samples in Shipment: 2

☐ Sterile, Sodium Thiosulfate Preserved Bottle Used: ☐ Biocide Used in Source (specify)
☐ Public Water Supply Samples: Note: All results may automatically be reported to DOH if required by State.

**Turn-Around-Time (TAT)** Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32* Hour ☐ 48 Hour ☑ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**MICROBIOLOGY TEST CODES**

M001 Air-O-Cell
M174 MoldSnap
M030 MICRO 5
M032 Allergenco-D
M041 Fungal Direct Examination
M169 Pollen ID & Enumeration
M280 Dust Characterization Level-1
M281 Dust Characterization Level-2
M005 Viable Fungi-Air Samples (Genus ID & Count)
M006 Viable Fungi-Air Samples (Includes *Penicillum, Aspergillus, Cladosporium, Stachybotrys* Species ID & Count)
M007 Culturable Fungi-Surface Samples (Genus ID & Count)
M008 Culturable Fungi-Surface Samples (Includes *Penicillum, Aspergillus, Cladosporium, Stachybotrys* Species ID & Count)
M009 Bacteria Culture Gram Stain & Count
M010 Bacteria Count & ID - 3 Most Prominent
M011 Bacteria Count & ID - 5 Most Prominent

M012 *Pseudomonas aeruginosa* (P/A***)
M024 *Pseudomonas aeruginosa* (MFT*)
M015 Heterotrophic Plate Count
M017 Total Coliform & *E. Coli* (Colilert P/A***)
M018 Total Coliform & *E. Coli* (MFT*)
M114 Total Coliform & *E. Coli Enumeration (Colilert MPN**)*
M019 Fecal Coliform (MFT*)
M029 *Enterococci* (MFT*)
M129 *Enterococci* (Enterolert P/A***)
M180 Real Time qPCR-ERMI 36 Panel
M025 Sewage Screen - Water (MFT*)

M115 Sewage Screen - Water (P/A***)
M116 Sewage Screen - Water (MPN**)
M117 Sewage Screen - Swab (P/A***)
M013 Sewage Screen - Swab (MFT*)
M730 *Methicillin-resistant Staph, aureus* (MRSA)
M031 Rapid-growing non-TB *Mycobacteria* Detection & Enumeration
M014 Endotoxin Analysis
M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite)
M095 Bacteroides
Other - See Analytical Price Guide for Test Code
***Legionella Analysis*** Please use EMSL *Legionella* COC

*MFT= Membrane Filtration Technique
**MPN = Most Probable Number
***P/A = Presence/Absence

RECEIVED EMSL CINNAMINSON, NJ 2024 OCT 29 PM 4:10

| Sample # | Sample Location/Description | Sample Type (Matrix) | Potable / Non-Potable (Only for Water) | Test Code | Volume/Area | Date / Time Collected | Temperature (Lab Use Only) |
|---|---|---|---|---|---|---|---|
| Example: Sample 1 | Kitchen | Water | Potable | M017 | 1,000 ml | 1/1/2021 3:30pm | |
| THS-OUT | Outside | Air | N/A | M030 | 5L/min 25L | 10/29/24 1400 | |
| THS-H7 | Room H7 | ↓ | ↓ | ↓ | | ↓ 1407 | |
| — | — | — | — | — | — | — | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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

Method of Shipment: Hand Delivery
Relinquished by: Casey Lyons
Date/Time: 10/29/24 1615
Relinquished by:
Date/Time:
Sample Condition Upon Receipt:
Received by: WI
Date/Time 10/29/24 1700
Received by:
Date/Time
Received on Ice? Check if Yes: ☐

Controlled Document - COC-34 Micro R15 08/19/2024

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

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



## AIHA Laboratory Accreditation Programs, LLC

*acknowledges that*

**EMSL Analytical, Inc.**

**200 Route 130 North Cinnaminson, NJ 08077**

**Laboratory ID: LAP-100194**

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

### LABORATORY ACCREDITATION PROGRAMS

| | | |
|---|---|---|
| ☑ | INDUSTRIAL HYGIENE | Accreditation Expires: January 01, 2025 |
| ☑ | ENVIRONMENTAL LEAD | Accreditation Expires: January 01, 2025 |
| ☑ | ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: January 01, 2025 |
| ☐ | FOOD | Accreditation Expires: |
| ☐ | UNIQUE SCOPES | Accreditation Expires: |

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

Cheryl O. Morton

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

Revision20: 06/07/2022

Date Issued: 01/01/2023