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October 6, 2026

Ms. Nicole Dull
Superintendent
Conemaugh Township School District
300 West Campus Avenue
Davidsville, PA 15928

Subject: Report of Findings
Limited Initial & Post Remedial Microbial Investigation
Conemaugh Township Elementary School
1516 Tire Gill Road, Johnstown PA

Dear Ms., Dull:

In accordance with your authorization, Keystone Environmental, Health and Safety Services, Inc. (KEHS) performed a limited initial and post remedial microbial investigation within the Conemaugh Township Elementary School at beginning and at the completion of the remediation efforts in order to ensure the success of the remediation efforts prior to re-occupancy. The evaluation was limited to the observation of site conditions at the structure, as well as the collection of the appropriate environmental samples.

BACKGROUND INFORMATION

As per information provided by the client, and conditions observed during the investigation, the school experienced a period of abnormally humid and wet weather conditions prior to the discovery of visible suspect fungal growth. These conditions, in conjunction with limited mechanical dehumidification and moisture control due to a recent power failure of the existing heating, ventilation, and air-conditioning (HVAC) system in portions of the building caused by inclement weather, contributed to elevated indoor relative humidity and moisture levels creating environmental conditions conducive to fungal growth on susceptible building materials, furnishings and contents.

INITIAL OBSERVATIONS

Mr. Darin Tornatore, Senior Hygienist of KEHS conducted the initial site visit on September 19, 2026, while collecting mold air samples within various areas of the Elementary School as well as collecting surface samples from surfaces where suspect mold was observed and ceilings in order to determine if the remediation work area would include the ceilings. A synopsis of KEHS' observations includes:

- KEHS observed suspect mold on ceiling tile within Room #130 storage room and wooden book shelving within the library room #106. Suspect mold staining and debris was also observed within the Univents within rooms #124, #169, and room #130. See Photographs in **Appendix D**;

- KEHS recorded both relative humidity (RH) and grains per pound (GPP) measurements during some of the sample collection activities. Both RH and GPP datum can be utilized to determine potential moisture issues within a space. During the time of the investigation, both RH and GPP concentrations were elevated as compared to their respective standards indicating a space conducive to mold growth. See **Appendix E** for RH and GPP measurements recorded during both the initial and post remedial investigations.

Initial Bioaerosol Data

On September 19, 2026, KEHS collected forty-two (42) fungal bioaerosol (spore trap) air samples throughout the school. A sample location map is outlined within **Appendix A**. One (1) additional sample was collected on each day of sampling from the outdoors for comparison to the natural environment. Bioaerosol samples were collected utilizing Allergenco-D™ microbial spore trap cassettes. Each sample was collected using a calibrated (via a BioAire™ rotameter, which was calibrated to a primary standard) Buck BioAire™ pump over a 5-minute time period for a total sample volume of 75 liters.

The samples were submitted to U.S. Micro Solutions in Latrobe, PA for microbial analysis. U.S. Micro Solutions is a Pennsylvania and Nationally accredited laboratory. **Appendix B** provides a copy of the laboratory certificates of analysis.

Table 1
Initial Bioaerosol Analytical Data
Conemaugh Township Elementary School
September 19, 2026

Sample No.	Sample Location	Est. Total Conc. Spores/m^3	Predominant Indoor/Outdoor Mold Taxa with Allergenic and/or Mycotoxin Potential (If Present) Spores/m^3	Average Outside Comparison Samples Indoor/Outdoor Mold Taxa with Allergenic and/or Mycotoxin Potential (If Present) Spores/m^3
A-1	Room #118	1,417	Cladosporium (26)	Aspergillus/Penicillium (18) Cladosporium (800)
A-2	Room #119	1,651	Cladosporium (182)	Aspergillus/Penicillium (18) Cladosporium (800)
A-3	Room #117	728	Cladosporium (39)	Aspergillus/Penicillium (18) Cladosporium (800)
A-4	Room #120	1,677	Cladosporium (52)	Aspergillus/Penicillium (18) Cladosporium (800)

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Conemaugh Township Elementary School
September 19, 2026

Sample No.	Sample Location	Est. Total Conc. Spores/m^3	Predominant Indoor/Outdoor Mold Taxa with Allergenic and/or Mycotoxin Potential (If Present) Spores/m^3	Average Outside Comparison Samples Indoor/Outdoor Mold Taxa with Allergenic and/or Mycotoxin Potential (If Present) Spores/m^3
A-5	Room #116	494	Cladosporium (39)	Aspergillus/Penicillium (18) Cladosporium (800)
A-6	Room #121	1,963	Cladosporium (13)	Aspergillus/Penicillium (18) Cladosporium (800)
A-7	Room #127	1,677	Cladosporium (78)	Aspergillus/Penicillium (18) Cladosporium (800)
A-8	Room #122	1,287	Cladosporium (52)	Aspergillus/Penicillium (18) Cladosporium (800)
A-9	Room #126	1,651	Cladosporium (26)	Aspergillus/Penicillium (18) Cladosporium (800)
A-10	Room #123	1,456	Cladosporium (13)	Aspergillus/Penicillium (18) Cladosporium (800)
A-11	Room #125	1,144	Cladosporium (78)	Aspergillus/Penicillium (18) Cladosporium (800)
A-12	Room #124	949	Aspergillus/Penicillium (65) Cladosporium (52)	Aspergillus/Penicillium (18) Cladosporium (800)
A-13	Room #115	455	Cladosporium (39)	Aspergillus/Penicillium (18) Cladosporium (800)
A-14	Room #128	20,928	Cladosporium (728)	Aspergillus/Penicillium (18) Cladosporium (800)
A-15	Room #114	507	None Detected	Aspergillus/Penicillium (18) Cladosporium (800)
A-16	Room #130	559	Aspergillus/Penicillium (13) Cladosporium (39)	Aspergillus/Penicillium (18) Cladosporium (800)
A-17	Room #111	845	Aspergillus/Penicillium (26) Cladosporium (52)	Aspergillus/Penicillium (18) Cladosporium (800)
A-18	Room #112	403	Aspergillus/Penicillium (52) Cladosporium (65)	Aspergillus/Penicillium (18) Cladosporium (800)
A-19	Room #110	1,573	Aspergillus/Penicillium (91) Cladosporium (156)	Aspergillus/Penicillium (18) Cladosporium (800)
A-20	Room #113	520	Cladosporium (39)	Aspergillus/Penicillium (18) Cladosporium (800)
A-21	Room #108/109	208	None Detected	Aspergillus/Penicillium (18) Cladosporium (800)

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Conemaugh Township Elementary School
September 19, 2026

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A-22	Cafeteria	2,457	Cladosporium (520)	Aspergillus/Penicillium (18) Cladosporium (800)
A-23	Room #170	1,209	Aspergillus/Penicillium (104) Cladosporium (286)	Aspergillus/Penicillium (18) Cladosporium (800)
A-24	Room #106	923	Cladosporium (65)	Aspergillus/Penicillium (18) Cladosporium (800)
A-25	Room #169	1,768	Aspergillus/Penicillium (52) Cladosporium (26)	Aspergillus/Penicillium (18) Cladosporium (800)
A-26	Room #171	1,742	Cladosporium (52)	Aspergillus/Penicillium (18) Cladosporium (800)
A-27	Room #168	1,066	Cladosporium (78)	Aspergillus/Penicillium (18) Cladosporium (800)
A-28	Room #172	624	Cladosporium (221)	Aspergillus/Penicillium (18) Cladosporium (800)
A-29	Room #167	884	None Detected	Aspergillus/Penicillium (18) Cladosporium (800)
A-30	Room #173	468	Cladosporium (26)	Aspergillus/Penicillium (18) Cladosporium (800)
A-31	Room #165	1,053	Cladosporium (65)	Aspergillus/Penicillium (18) Cladosporium (800)
A-32	Room #174	364	Cladosporium (13)	Aspergillus/Penicillium (18) Cladosporium (800)
A-33	Room #163	11,034	Aspergillus/Penicillium (182) Cladosporium (442)	Aspergillus/Penicillium (18) Cladosporium (800)
A-34	Room #141	325	Aspergillus/Penicillium (39) Cladosporium (13)	Aspergillus/Penicillium (18) Cladosporium (800)
A-35	Room #164	1,495	Aspergillus/Penicillium (13) Cladosporium (91)	Aspergillus/Penicillium (18) Cladosporium (800)
A-36	Room #140	169	None Detected	Aspergillus/Penicillium (18) Cladosporium (800)
A-37	Stage	1,638	Aspergillus/Penicillium (13) Cladosporium (325)	Aspergillus/Penicillium (18) Cladosporium (800)
A-38	Room #139	1,222	Cladosporium (182)	Aspergillus/Penicillium (18) Cladosporium (800)

Table 1
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Conemaugh Township Elementary School
September 19, 2026

Sample No.	Sample Location	Est. Total Conc. Spores/m^3	Predominant Indoor/Outdoor Mold Taxa with Allergenic and/or Mycotoxin Potential (If Present) Spores/m^3	Average Outside Comparison Samples Indoor/Outdoor Mold Taxa with Allergenic and/or Mycotoxin Potential (If Present) Spores/m^3
A-39	Room #136	7,167	Cladosporium (26)	Aspergillus/Penicillium (18) Cladosporium (800)
A-40	Room #138	1,417	Cladosporium (26)	Aspergillus/Penicillium (18) Cladosporium (800)
A-41	Room #137	10,749	Aspergillus/Penicillium (52) Cladosporium (104)	Aspergillus/Penicillium (18) Cladosporium (800)
A-42	Room #135	1,131	Cladosporium (52)	Aspergillus/Penicillium (18) Cladosporium (800)
OAC-1	Outside	49,072	Aspergillus/Penicillium (65) Cladosporium (624)	Aspergillus/Penicillium (18) Cladosporium (800)
OAC-2	Outside	32,420	Cladosporium (923)	Aspergillus/Penicillium (18) Cladosporium (800)
OAC-3	Outside	36,426	Cladosporium (702)	Aspergillus/Penicillium (18) Cladosporium (800)
OAC-4	Outside	52,416	Aspergillus/Penicillium (26) Cladosporium (1,365)	Aspergillus/Penicillium (18) Cladosporium (800)
OAC-5	Outside	53,954	Cladosporium (390)	Aspergillus/Penicillium (18) Cladosporium (800)

Units are in spores per cubic meter of air (spore/m^3)

DISCUSSION

The American Conference of Governmental Industrial Hygienists (ACGIH) considers comparison of indoor/outdoor bioaerosol data a common method for evaluating indoor fungal damage or mold health related concerns. In normal indoor environments, the concentrations of fungi in the indoor air are typically equal to, or less than, the concentration outdoors and the fungal taxa detected should be similar. If indoor fungal bioaerosol concentrations are consistently greater than those outdoors, then indoor fungal reservoirs may be present. In addition, the types (i.e., taxa or groups) of fungi found inside the building should be qualitatively similar compared with the outdoor air, if the outdoor air is the only source of fungi. There are no regulatory standards or other widely accepted numerical guidelines available for interpretation of bioaerosol data. Current EPA, CDC, including ACGIH guidelines refrain from providing numerical thresholds for bioaerosols.

For this project, airborne fungal samples were collected using non-culturable spore trap methodology and analyzed by direct microscopic examination. Indoor results were evaluated relative to contemporaneous outdoor reference samples. Because no federal numerical threshold limits have been established for airborne mold spores, the results were interpreted using a weight-of-evidence approach rather than a single numerical pass/fail criterion. The evaluation considered total fungal concentrations, the indoor and outdoor fungal profiles, the concentration and relative distribution of *Aspergillus/Penicillium*, spatial patterns among indoor samples, and observed moisture or building conditions. Consistent with U.S. EPA guidance, favorable conditions are indicated when indoor fungal types and concentrations are reasonably similar to those in the local outdoor air and the data do not demonstrate an indoor amplification pattern often referred to as 'comparative ecology'.

It is important to note throughout this report if Aspergillus/Penicillium was not detected in the contemporaneous outdoor comparison sample, indoor *Aspergillus/Penicillium* detections were evaluated with increased attention to concentration, spatial distribution, moisture conditions, visual observations, remediation history, and the overall fungal profile. The non-detect outdoor result represents conditions during the sampling interval and should not be interpreted as evidence that outdoor *Aspergillus/Penicillium* is categorically absent from the local environment

INITIAL BIOAEROSOL DATA CONCLUSIONS

Based upon our review of the data, the air results indicate a comparatively similar indoor mold spore fungal ecology as compared to the outdoor comparison samples and the surface sample results revealed either no presence of mold or normal amounts of mold with the exception of room #163. Room #163 had a slightly elevated *Aspergillus/Penicillium* concentration as compared to the outside average *Aspergillus/Penicillium* mold spore concentration. *Aspergillus/Penicillium* is a common indoor/outdoor mold taxa with both allergenic and mycotoxin potential.

Fungal Surface Sampling and Analysis

On September 20, 2026, KEHS also collected thirty-four (34) surface samples from surfaces where suspect mold was observed and ceilings in order to determine if the remediation work area would include the ceilings throughout the school utilizing systematic random sample collection methodology. KEHS utilized sterile tape lifts to collect the surface samples. The samples were submitted to U.S. Micro Solutions (a Pennsylvania and Nationally accredited lab) in Latrobe, PA for microbial analysis. **Appendix B** provides a copy of the laboratory certificates of analysis.

Tables 2 presents a summary of the surface sample analytical data.

Table 2
Initial Surface Sample Analytical Data
Conemaugh Township Elementary School
September 20, 2026

Sample Number	Location	Mold Growth Rating	Top Predominant Mold Taxa with Allergenic & Mycotoxin Potential
S-1	Room #119 Ceiling Tile	Few Rare	Aspergillus/Penicillium Penicillium fruiting structures
S-2	Room #118 Ceiling Tile	NA	None Detected
S-3	Room #121 Ceiling Tile	NA	None Detected
S-4	Room #116 Ceiling Tile	NA	None Detected
S-5	Room #122 Ceiling Tile	NA	None Detected
S-6	Room #127 Ceiling Tile	NA	None Detected
S-7	Room #124 Ceiling Tile	NA	None Detected
S-8	Room #125 Ceiling Tile	NA	None Detected
S-9	Room #112 Ceiling Tile	NA	None Detected
S-10	Room #111 Ceiling Tile	NA	None Detected
S-11	Room #117 Ceiling Tile	NA	None Detected
S-12	Room #108 Ceiling Tile	NA	None Detected
S-13	Room #130 Ceiling Tile	Many Moderate	Stachybotrys conidia Stachybotrys fruiting structures
S-14	Room #115 Ceiling Tile	NA	None Detected
S-15	Room #107 Ceiling Tile	NA	None Detected
S-16	Room #106 Ceiling Tile	NA	None Detected
S-17	Room #170 Ceiling Tile	NA	None Detected
S-18	Room #169 Ceiling Tile	NA	None Detected
S-19	Room #173 Ceiling Tile	NA	None Detected
S-20	Room #167 Ceiling Tile	NA	None Detected
S-21	Room #141 Ceiling Tile	NA	None Detected
S-22	Room #136 Ceiling Tile	NA	None Detected
S-23	Room #139 Ceiling Tile	NA	None Detected
S-24	Room #139 Ceiling Tile	NA	None Detected
S-25	Room #124 Uni-Vent	Rare	Alternaria-like conidia
S-26	Room #169 Uni-Vent	Moderate Rare Rare	Cladosporium conidia Alternaria-like conidia Smuts / Myxomycetes

Table 2 Initial Surface Sample Analytical Data Conemaugh Township Elementary School September 20, 2026			
Sample Number	**Location**	**Mold Growth Rating**	**Top Predominant Mold Taxa with Allergenic & Mycotoxin Potential**
S-27	Room #136 Uni-Vent	Rare	Epicoccum conidia
S-28	Room #106 Wooden Bookshelf	Many Few	Aspergillus/Penicillium Aspergillus fruiting structures
S-29	Room #106 Wooden Bookshelf	Many Few	Aspergillus/Penicillium Aspergillus fruiting structures
S-30	Room #171 Cardboard Box	Rare	Aspergillus/Penicillium
S-31	Room #119 Black Teacher Chair	NA	None Detected
S-32	Room #126 Wooden Shelf Above Sink	NA	None Detected
S-33	Room #137 Bottom of Student Table	Many Few	Aspergillus/Penicillium Aspergillus fruiting structures
S-34	Stage – Black Nylon Cloth Instrument Case	Many Few Rare	Aspergillus/Penicillium Aspergillus fruiting structures Epicoccum conidia

Appendix B provides a copy of the laboratory certificate of analysis.

Rare – <5- indicates a minimal amount of spores (conidia) and/or other fungal structures. Most normal indoor surfaces will show no to low fungal spores and structures.

Few – 5-25% indicates low amounts of settled conidia/spores. Typically, this amount is not consistent with active fungal growth, however, it may suggest an active source nearby, or that a surface has not been cleaned appropriately.

Moderate – 25-75% indicates a moderate to heavy amount of fungal contamination (conidia/spores). Generally, this category is indicative of a surface that is or has been affected by active fungal growth. The presence of fruiting structures or hyphal fragments may support the premise that fungal growth is on-going.

Many – 75-90% indicates a moderate to heavy amount of fungal contamination (conidia/spores). Generally, this category is indicative of a surface that is or has been affected by active fungal growth. The presence of fruiting structures or hyphal fragments may support the premise that fungal growth is on-going.

Numerous - >90% indicates that the sample area was highly contaminated with fungal conidia/spores and/or hyphal fragments. Samples in this category display an unusually high number of conidia/spores or other fungal structures in each microscopic field.

INITIAL FUNGAL SURFACE SAMPLING DATA CONCLUSIONS

The surface sample results collected from ceiling tiles throughout the school did not reveal the presence of mold with any fungal particle rating (FPR) greater than 'rare' to 'few' indicating a normal amount of mold spores on the ceiling surfaces indicative of normal settling. Therefore, the ceiling tiles were not considered to be included as part of the work area. However, the stained ceiling tile located within room #130 (storage room) revealed the presence of the mold taxa *Stachybotrys*. *Stachybotrys* is a water indicating mold taxa with both allergenic and mycotoxin potential. Additionally, *Aspergillus/Penicillium* was identified on the wooden bookshelves located within the room #106 library, room #137 student table, and a cardboard box within room #171. *Aspergillus/Penicillium* is a common indoor/outdoor mold taxa with both allergenic and mycotoxin potential. Lastly, various amounts of mold taxa with allergenic potential including, *Alternaria, Cladosporium, Eppicoccum,* and *Smuts* were identified within the univents.

INITIAL RECOMMENDATIONS

Based upon our review of the above referenced analytical data, KEHS recommended the following:

- Based upon the elevated RH and GPP results, KEHS immediately recommended continued operation of the HVAC system within the cafeteria, gymnasium, and administrative offices and dehumidification of the spaces to lower the RH and GPP to reduce the likelihood of mold amplification (growth) within the defined work area.

- Isolation and deenergizing the Univents until properly remediated.

- KEHS recommended the completion of mold remediation in accordance with IICRC S520 Standards within the following rooms; room #106 (Library), room #130 (storage), room #137, room #163, and room #171 (storage). The proposed remediation included the following which were considered due to the time constraints imposed by the school's re-opening; the proper removal and disposal of some selected porous cellulose-based products such as school supplies, books, cardboard boxes, folders, stored-clothing, carpeting, etc. as necessary and all durable surfaces were to be HEPA® vacuumed

followed by manual cleaning techniques with a suitable antimicrobial agent and proper drying.

- A black nylon instrument case located within the stage area that contained mold was requested to be properly disposed of by janitorial staff

- KEHS recommended the completion of a post remedial investigation at the completion of the remediation to ensure the efficacy of the remedial activities prior to re-occupancy.

Post Remediation Bioaerosol & Surface Sample Data

As time was of the essence to meet the school's student re-opening date, KEHS completed post remedial air and surface sampling and analysis at the completion of the remedial activities on September 25, 2026. A post remedial visual inspection of the remediated surfaces and Univents was completed within all of the previously deemed affected rooms. KEHS collected a total of five (5) fungal bioaerosol (spore trap) post remedial air samples within the remediated work areas. An additional sample was collected from the outdoors for comparison to the average mold spore concentration of the natural environment at the time of the sample collection activities. Bioaerosol samples were collected utilizing Allergenco-D™ microbial spore trap cassettes. Each sample was collected using a calibrated (via a BioAire™ rotameter, which was calibrated to a primary standard) Buck BioAire™ pump over a 5-minute time period for a total sample volume of 75 liters.

KEHS also collected nine (9) post remedial surface samples from surfaces within the remediation work areas. KEHS utilized sterile tape lifts to collect the surface samples. Post remedial air and surface sample locations are outlined within **Appendix A**.

Table 3 presents a summary of the post remedial bioaerosol laboratory data and locations for the sampling events conducted on September 25, 2026: See **Appendix C** for a copy of the Laboratory Data Report.

Table 3
Post Remedial Bioaerosol Analytical Data
Conemaugh Township Elementary School
September 25, 2026

Sample No.	Sample Location	Est. Total Conc. Spores/m^3	Predominant Indoor/Outdoor Mold Taxa with Allergenic and/or Mycotoxin Potential (If Present) Spores/m^3	Average Outside Comparison Samples Indoor/Outdoor Mold Taxa with Allergenic and/or Mycotoxin Potential (If Present) Spores/m^3
FC-1	Room #106 Library	<13	None Detected	Aspergillus/Penicillium (82) Cladosporium (307)

Table 3
Post Remedial Bioaerosol Analytical Data
Conemaugh Township Elementary School
September 25, 2026

Sample No.	Sample Location	Est. Total Conc. Spores/m^3	Predominant Indoor/Outdoor Mold Taxa with Allergenic and/or Mycotoxin Potential (If Present) Spores/m^3	Average Outside Comparison Samples Indoor/Outdoor Mold Taxa with Allergenic and/or Mycotoxin Potential (If Present) Spores/m^3
FC-2	Room #130	26	None Detected	Aspergillus/Penicillium (82) Cladosporium (307)
FC-3	Room #137	26	Aspergillus/Penicillium (26)	Aspergillus/Penicillium (82) Cladosporium (307)
FC-4	Room #171	<13	None Detected	Aspergillus/Penicillium (82) Cladosporium (307)
FC-5	Room #163	<13	None Detected	Aspergillus/Penicillium (82) Cladosporium (307)
OAC-1	Outdoor Comparison	9,596	Aspergillus/Penicillium (39) Cladosporium (169)	Aspergillus/Penicillium (82) Cladosporium (307)
OAC-2	Outdoor Comparison	13,303	Aspergillus/Penicillium (104) Cladosporium (598)	Aspergillus/Penicillium (82) Cladosporium (307)
OAC-3	Outdoor Comparison	7,492	Aspergillus/Penicillium (104) Cladosporium (156)	Aspergillus/Penicillium (82) Cladosporium (307)

Tables 4 presents a summary of the post remedial surface sample analytical data.

Table 4
Post Remedial Surface Sample Analytical Data
Conemaugh Township Elementary School
September 25, 2026

Sample Number	Location	Mold Growth Rating	Top Predominant Mold Taxa with Allergenic & Mycotoxin Potential
TL-1	Room #106 – Library Wooden Bookshelf	NA	None Detected
TL-2	Room #106 – Library Wooden Bookshelf	NA	None Detected
TL-3	Room #106 – Library – Hard Back Book	NA	None Detected
TL-4	Room #106 – Library – Soft Back Book	NA	None Detected
TL-5	Room #106 – Library – Top of Student Table	NA	None Detected

Table 4 Post Remedial Surface Sample Analytical Data Conemaugh Township Elementary School September 25, 2026			
Sample Number	**Location**	**Mold Growth Rating**	**Top Predominant Mold Taxa with Allergenic & Mycotoxin Potential**
TL-6	Room #106 – Library – Green Countertop	NA	None Detected
TL-7	Room #106 – Library – Student Chair	NA	None Detected
TL-8	Room #137 – Bottom of Student Table	NA	None Detected
TL-9	Room #171 - Shelving	NA	None Detected

Appendix C provides a copy of the laboratory certificate of analysis

The post remedial air sample results indicated that the total mold spore concentrations collected from the outside comparison samples during the day of the investigation were greater than or comparatively similar to the total mold spore concentrations collected from each of the rooms. Specifically, *Aspergillus/Penicillium* mold taxa spore concentrations collected from each of the rooms during the investigation were also lower than or similar to the individual *Aspergillus/Penicillium* mold taxa spore concentrations collected from the average outside air sample mold spore concentrations indicating a normal inside fungal ecology within each of the rooms.

RECOMMENDATIONS

Based upon KEHS's visual observations, environmental measurements, remedial activities performed, and post-remediation bioaerosol analytical data, the previously affected areas demonstrated consistent with a normal indoor fungal ecology at the time of the final evaluation. Accordingly, KEHS recommends no additional fungal remediation activities within the evaluated areas at this time. Additional or follow up testing is not warranted in the area(s) previously affected or other area(s) that were deemed unaffected unless evidence of water intrusion, persistent elevated moisture conditions, condensation, visible suspect fungal growth, or other conditions warranting further investigation is identified.

REFERENCES

As necessary, the following reference materials were used to develop this report.

- American National Standards Institute (ANSI) / Institute of Inspection Cleaning and Restoration Certification (IICRC), (4th Addition) - S500-2021 "*Standard for Professional Water Damage Restoration"* - Institute of Inspection Cleaning and Restoration Certification, Vancouver WA.

- American National Standards Institute (ANSI) / Institute of Inspection Cleaning and Restoration Certification (IICRC), S520/IIRC R520-2024 "*Standard and Reference Guide for Professional Mold Remediation"* - Institute of Inspection Cleaning and Restoration Certification, Vancouver WA.
- American National Standards Institute (ANSI) / Institute of Inspection Cleaning and Restoration Certification (IICRC), R520-2015 " *Reference Guide for Professional Mold Remediation"* - Institute of Inspection Cleaning and Restoration Certification, Vancouver WA.
- American National Standards Institute (ANSI) / Institute of Inspection Cleaning and Restoration Certification (IICRC), (3rd Edition) S500 "*Standard and Reference Guide for Professional Water Damage Restoration"* - Institute of Inspection Cleaning and Restoration Certification, Vancouver WA.
- American National Standards Institute (ANSI) / Institute of Inspection Cleaning and Restoration Certification (IICRC), S520-2015 "*Standard for Professional Mold Remediation"* - Institute of Inspection Cleaning and Restoration Certification, Vancouver WA.
- Indoor Environmental Standards Organization, (2nd Edition June 2003) "*Standards of Practice for the Assessment of Indoor Environmental Quality, Volume 1: Mold Sampling; Assessment of Mold Contamination"*. Indoor Environmental Standards Organization, Rockville, MD.
- United States Department of Labor, Occupational Safety and Health Administration (Sept 2013) "*A Brief Guide to Mold in the Workplace*" (Safety and Health Bulletin).
- United States Environmental Protection Agency (Sept 2008) "*Mold Remediation in Schools and Commercial Buildings*" (EPA Publication No. 402-01-001). Washington, DC: US Environmental Protection Agency.
- New York City Department of Health (2008) "*Guidelines on Assessment and Remediation of Fungi in Indoor Environments*". New York City Department of Health.
- Macher, J. (Ed.). (1999). "*Bioaerosols: Assessment and Control"*. Cincinnati: American Conference of Governmental Industrial Hygienists.
- Dillion, H.K. Heinsohn, P.A. & Miller, J.D. (Eds.). (1996). "*Field Guide for the Determination of Biological Contaminants in Environmental Samples*" Fairfax, VA: American Industrial Hygiene Association.
- ASHRAE Standard 62, "*Ventilation for Acceptable Indoor Air Quality"*, American Society of Heating, Refrigeration and Air Conditioning Engineers, Inc., Atlanta, GA.
- *ASHRAE Standard 55, "Thermal Environmental Conditions for Human Occupancy",* American Society of Heating, Refrigeration and Air Conditioning Engineers, Inc., Atlanta, GA.
- U.S. Environmental Protection Agency (EPA). Mold Remediation in Schools and Commercial Buildings, Chapter 3 - Sampling and completion of remediation/cleanup.
- U.S. Environmental Protection Agency (EPA). Mold Testing or Sampling. EPA states that no federal limits have been established for mold or mold spores.
- American Industrial Hygiene Association (AIHA). FAQs About Spore Trap Air Sampling for Mold for Direct Microscopical Examination, Guidance Document (2025).

- ASTM International. ASTM D7391-20, Standard Test Method for Categorization and Quantification of Airborne Fungal Structures in an Inertial Impaction Sample by Optical Microscopy.

LIMITATIONS

This report has been prepared to assist the Conemaugh Township School District in evaluating potential microbial impact within the Elementary School, Johnstown PA. KEHS provided these services consistent with the level and skill ordinarily exercised by members of the profession currently practicing under similar conditions. This statement is in lieu of other statements either expressed or implied. This report is intended for the sole use of the client. The intent of the report is to aid the building owner, architect, construction manager, general contractors, and potential remediation contractors in locating fungal growth. This report is not intended to serve as a bidding document nor as a project specification document and actual site conditions and quantities should be field verified. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document, the findings, conclusions, or recommendations is at the risk of said user.

Although a reasonable attempt has been made to identify suspect fungi (mold) in the areas identified, the inspection techniques used are inherently limited in the sense that only full demolition procedures will reveal all building materials of a structure and therefore all areas of potential fungal growth. Other unidentified microbial impact may exist within walls, ceiling cavities, or other inaccessible areas. Therefore, caution should be used during any remodeling or renovation activities that expose these areas.

Additionally, the passage of time may result in a change in the environmental characteristics at this site. This report does not warrant against future operations or conditions that could affect the recommendations made. The results, findings, and recommendations expressed in this report are based only on conditions that were observed during KEHS's inspection of the site and during the dates of the investigative activities. Thank you for this opportunity to provide our services to you. If you have any questions, please call us at (814) 944-3680.

Sincerely,
KEYSTONE ENVIRONMENTAL, HEALTH AND SAFETY SERVICES, INC.

Darin S. Tornatore
Senior Hygienist

Matthew Farabaugh
Principal

APPENDIX A

LIMITED MICROBIAL INVESTIGATION SAMPLE LOCATION MAP

APPENDIX B

INITIAL BIOAEROSOL & SURFACE SAMPLE LABORATORY REPORT

U.S. MICRO SOLUTIONS INC.
AN ENVIRONMENTAL MICROBIOLOGY LAB

302 Unity Plaza * Latrobe, PA 15650
Phone: (724) 853-4047 Fax: (724) 853-4049 A2LA # 7000.01
www.usmslab.com

Customer Name:	**Keystone Environmental**	**Sample Date:**	**September 19, 2026**
Customer Address:	**1111 12th Avenue**	**Date Received:**	**September 21, 2026**
	Altoona, PA 16601	**Date of Report:**	**September 21, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014871-26

Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**A-1**				**A-2**				**A-3**			
Location:		**Room #118**				**Room #119**				**Room #117**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
						Water Indicator							
Chaetomium-like													
Stachybotrys													
						Indoor/Outdoor							
Aspergillus/Penicillium-like													
Cladosporium		2	13	**26**	2%	14	13	**182**	11%	3	13	**39**	5%
						Predominately Outdoor							
Alternaria-like													
Ascospores		2	13	**26**	2%	3	13	**39**	2%				
Basidiospores		105	13	**1,365**	96%	110	13	**1,430**	87%	52	13	**676**	93%
Bipolaris/Drechslera													
Cercospora										1	13	**13**	2%
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		109		**1,417**		127		**1,651**		56		**728**	
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				1				1			
Analyst Initials		KM				KM				KM			
Date Analyzed		09/21/26				09/21/26				09/21/26			
Exp Date of Cassette:		04/2027				04/2027				04/2027			

Entire trace analyzed. Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicllium* -like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected.

Blank Lines = None Detected AS = Analytical Sensitivity (spores/m^3)

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Technical Manager: Becky Moran

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Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014871-26

Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**A-4**				**A-5**				**A-6**			
Location:		**Room #120**				**Room #116**				**Room #121**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
					Water Indicator								
Chaetomium-like													
Stachybotrys													
					Indoor/Outdoor								
Aspergillus/Penicillium-like													
Cladosporium		4	13	**52**	3%	3	13	**39**	8%	1	13	**13**	1%
					Predominately Outdoor								
Alternaria-like													
Ascospores		4	13	**52**	3%	1	13	**13**	3%	3	13	**39**	2%
Basidiospores		120	13	**1,560**	93%	34	13	**442**	89%	147	13	**1,911**	97%
Bipolaris/Drechslera													
Cercospora													
Curvularia		1	13	**13**	1%								
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		129		**1,677**		38		**494**		151		**1,963**	
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				1				1			
Analyst Initials		KM				KM				KM			
Date Analyzed		09/21/26				09/21/26				09/21/26			
Exp Date of Cassette:		04/2027				04/2027				04/2027			

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		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014871-26

Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**A-7**				**A-8**				**A-9**			
Location:		**Room #127**				**Room #122**				**Room #126**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
Water Indicator													
Chaetomium-like													
Stachybotrys													
Indoor/Outdoor													
Aspergillus/Penicillium-like													
Cladosporium		6	13	**78**	5%	4	13	**52**	4%	2	13	**26**	2%
Predominately Outdoor													
Alternaria-like													
Ascospores		3	13	**39**	2%	1	13	**13**	1%	2	13	**26**	2%
Basidiospores		120	13	**1,560**	93%	93	13	**1,209**	94%	122	13	**1,586**	96%
Bipolaris/Drechslera													
Cercospora													
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium													
Rusts													
Smuts/ Myxomycetes						1	13	**13**	1%	1	13	**13**	1%
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		129		**1,677**		99		**1,287**		127		**1,651**	
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				1				1			
Analyst Initials		KM				KM				KM			
Date Analyzed		09/21/26				09/21/26				09/21/26			
Exp Date of Cassette:		04/2027				04/2027				04/2027			

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Project Name/Number:	**Conemaugh Township Elementary**		

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Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**A-10**				**A-11**				**A-12**			
Location:		**Room #123**				**Room #125**				**Room #124**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
						Water Indicator							
Chaetomium-like													
Stachybotrys													
						Indoor/Outdoor							
Aspergillus/Penicillium-like										5	13	**65**	7%
Cladosporium		1	13	**13**	1%	6	13	**78**	7%	4	13	**52**	5%
						Predominately Outdoor							
Alternaria-like													
Ascospores		2	13	**26**	2%	5	13	**65**	6%	2	13	**26**	3%
Basidiospores		109	13	**1,417**	97%	77	13	**1,001**	88%	62	13	**806**	85%
Bipolaris/Drechslera													
Cercospora													
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		112		**1,456**		88		**1,144**		73		**949**	
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				1				1			
Analyst Initials		KM				KM				KM			
Date Analyzed		09/21/26				09/21/26				09/21/26			
Exp Date of Cassette:		04/2027				04/2027				04/2027			

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Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**A-13**				**A-14**				**A-15**			
Location:		**Room #115**				**Room #128**				**Room #114**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
						Water Indicator							
Chaetomium-like													
Stachybotrys													
						Indoor/Outdoor							
Aspergillus/Penicillium-like													
Cladosporium		3	13	**39**	9%	56	13	**728**	3%				
						Predominately Outdoor							
Alternaria-like													
Ascospores		1	13	**13**	3%	29	13	**377**	2%	1	13	**13**	3%
Basidiospores		31	13	**403**	89%	111	178	**19,758**	94%	38	13	**494**	97%
Bipolaris/Drechslera													
Cercospora													
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces						5	13	**65**	0%				
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		35		**455**		201		**20,928**		39		**507**	
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				2				1			
Analyst Initials		KM				KM				KM			
Date Analyzed		09/21/26				09/21/26				09/21/26			
Exp Date of Cassette:		04/2027				04/2027				04/2027			

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Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**A-16**				**A-17**				**A-18**			
Location:		**Room #130**				**Room #111**				**Room #112**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
						Water Indicator							
Chaetomium-like													
Stachybotrys													
						Indoor/Outdoor							
Aspergillus/Penicillium-like		1	13	**13**	2%	2	13	**26**	3%	4	13	**52**	13%
Cladosporium		3	13	**39**	7%	4	13	**52**	6%	5	13	**65**	16%
						Predominately Outdoor							
Alternaria-like													
Ascospores		8	13	**104**	19%	8	13	**104**	12%	4	13	**52**	13%
Basidiospores		31	13	**403**	72%	51	13	**663**	78%	18	13	**234**	58%
Bipolaris/Drechslera													
Cercospora													
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		43		**559**		65		**845**		31		**403**	
Pollen													
Hyphal Fragments						1	13	**13**					
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				1				1			
Analyst Initials		BM				BM				BM			
Date Analyzed		09/21/26				09/21/26				09/21/26			
Exp Date of Cassette:		04/2027				04/2027				04/2027			

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Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**A-19**				**A-20**				**A-21**			
Location:		**Room #110**				**Room #113**				**Room #108/109**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
					Water Indicator								
Chaetomium-like													
Stachybotrys													
					Indoor/Outdoor								
Aspergillus/Penicillium-like		7	13	**91**	6%								
Cladosporium		12	13	**156**	10%	3	13	**39**	8%				
					Predominately Outdoor								
Alternaria-like													
Ascospores		25	13	**325**	21%	9	13	**117**	23%	2	13	**26**	13%
Basidiospores		77	13	**1,001**	64%	28	13	**364**	70%	14	13	**182**	88%
Bipolaris/Drechslera													
Cercospora													
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		121		**1,573**		40		**520**		16		**208**	
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				1				1			
Analyst Initials		BM				BM				BM			
Date Analyzed		09/21/26				09/21/26				09/21/26			
Exp Date of Cassette:		04/2027				04/2027				04/2027			

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Technical Manager: Becky Moran

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302 Unity Plaza * Latrobe, PA 15650
Phone: (724) 853-4047 Fax: (724) 853-4049 A2LA # 7000.01
www.usmslab.com

Customer Name:	**Keystone Environmental**	**Sample Date:**	**September 19, 2026**
Customer Address:	**1111 12th Avenue**	**Date Received:**	**September 21, 2026**
	Altoona, PA 16601	**Date of Report:**	**September 21, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014871-26

Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**A-22**				**A-23**				**A-24**			
Location:		**Cafeteria**				**Room #170**				**Room #106**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
						Water Indicator							
Chaetomium-like													
Stachybotrys													
						Indoor/Outdoor							
Aspergillus/Penicillium-like						8	13	**104**	9%				
Cladosporium		40	13	**520**	21%	22	13	**286**	24%	5	13	**65**	7%
						Predominately Outdoor							
Alternaria-like													
Ascospores		4	13	**52**	2%	5	13	**65**	5%	4	13	**52**	6%
Basidiospores		145	13	**1,885**	77%	58	13	**754**	62%	62	13	**806**	87%
Bipolaris/Drechslera													
Cercospora													
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		189		**2,457**		93		**1,209**		71		**923**	
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				1				1			
Analyst Initials		LS				LS				LS			
Date Analyzed		09/21/26				09/21/26				09/21/26			
Exp Date of Cassette:		04/2027				04/2027				04/2027			

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Project Name/Number:	**Conemaugh Township Elementary**		

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Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**A-25**				**A-26**				**A-27**			
Location:		**Room #169**				**Room #171**				**Room #168**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
					Water Indicator								
Chaetomium-like													
Stachybotrys													
					Indoor/Outdoor								
Aspergillus/Penicillium-like		4	13	**52**	3%								
Cladosporium		2	13	**26**	1%	4	13	**52**	3%	6	13	**78**	7%
					Predominately Outdoor								
Alternaria-like													
Ascospores		10	13	**130**	7%	7	13	**91**	5%	6	13	**78**	7%
Basidiospores		119	13	**1,547**	88%	123	13	**1,599**	92%	70	13	**910**	85%
Bipolaris/Drechslera													
Cercospora													
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium													
Rusts													
Smuts/ Myxomycetes		1	13	**13**	1%								
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		136		**1,768**		134		**1,742**		82		**1,066**	
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				1				1			
Analyst Initials		LS				LS				LS			
Date Analyzed		09/21/26				09/21/26				09/21/26			
Exp Date of Cassette:		04/2027				04/2027				04/2027			

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		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

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Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**A-28**				**A-29**				**A-30**			
Location:		**Room #172**				**Room #167**				**Room #173**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
					Water Indicator								
Chaetomium-like													
Stachybotrys													
					Indoor/Outdoor								
Aspergillus/Penicillium-like													
Cladosporium		17	13	**221**	35%					2	13	**26**	6%
					Predominately Outdoor								
Alternaria-like													
Ascospores		6	13	**78**	13%	4	13	**52**	6%	3	13	**39**	8%
Basidiospores		25	13	**325**	52%	64	13	**832**	94%	31	13	**403**	86%
Bipolaris/Drechslera													
Cercospora													
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		48		**624**		68		**884**		36		**468**	
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				1				1			
Analyst Initials		LS				LS				LS			
Date Analyzed		09/21/26				09/21/26				09/21/26			
Exp Date of Cassette:		04/2027				04/2027				04/2027			

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		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

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Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**A-31**				**A-32**				**A-33**			
Location:		**Room #165**				**Room #174**				**Room #163**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
					Water Indicator								
Chaetomium-like													
Stachybotrys													
					Indoor/Outdoor								
Aspergillus/Penicillium-like										14	13	**182**	2%
Cladosporium		5	13	**65**	6%	1	13	**13**	4%	34	13	**442**	4%
					Predominately Outdoor								
Alternaria-like													
Ascospores		12	13	**156**	15%	5	13	**65**	18%	34	13	**442**	4%
Basidiospores		64	13	**832**	79%	22	13	**286**	79%	112	89	**9,968**	90%
Bipolaris/Drechslera													
Cercospora													
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		81		**1,053**		28		**364**		194		**11,034**	
Pollen													
Hyphal Fragments						2	13	**26**					
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				1				1			
Analyst Initials		BM				BM				BM			
Date Analyzed		09/21/26				09/21/26				09/21/26			
Exp Date of Cassette:		04/2027				04/2027				04/2027			

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Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**A-34**				**A-35**				**A-36**			
Location:		**Room #141**				**Room #164**				**Room #140**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
						Water Indicator							
Chaetomium-like													
Stachybotrys													
						Indoor/Outdoor							
Aspergillus/Penicillium-like		3	13	**39**	12%	1	13	**13**	1%				
Cladosporium		1	13	**13**	4%	7	13	**91**	6%				
						Predominately Outdoor							
Alternaria-like													
Ascospores		7	13	**91**	28%	16	13	**208**	14%	4	13	**52**	31%
Basidiospores		14	13	**182**	56%	91	13	**1,183**	79%	9	13	**117**	69%
Bipolaris/Drechslera													
Cercospora													
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		25		**325**		115		**1,495**		13		**169**	
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				1				1			
Analyst Initials		BM				BM				BM			
Date Analyzed		09/21/26				09/21/26				09/21/26			
Exp Date of Cassette:		04/2027				04/2027				04/2027			

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Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**A-37**				**A-38**				**A-39**			
Location:		**Stage**				**Room #139**				**Room #136**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
					Water Indicator								
Chaetomium-like													
Stachybotrys													
					Indoor/Outdoor								
Aspergillus/Penicillium-like		1	13	**13**	1%								
Cladosporium		25	13	**325**	20%	14	13	**182**	15%	2	13	**26**	0%
					Predominately Outdoor								
Alternaria-like													
Ascospores		3	13	**39**	2%	4	13	**52**	4%	3	13	**39**	1%
Basidiospores		85	13	**1,105**	67%	76	13	**988**	81%	106	67	**7,102**	99%
Bipolaris/Drechslera													
Cercospora													
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia		12	13	**156**	10%								
Total Mold (Spores/m³ of air)		126		**1,638**		94		**1,222**		111		**7,167**	
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				1				1			
Analyst Initials		KM				KM				KM			
Date Analyzed		09/21/26				09/21/26				09/21/26			
Exp Date of Cassette:		04/2027				04/2027				04/2027			

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Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**A-40**				**A-41**				**A-42**			
Location:		**Room #138**				**Room #137**				**Room #135**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
						Water Indicator							
Chaetomium-like													
Stachybotrys													
						Indoor/Outdoor							
Aspergillus/Penicillium-like						4	13	**52**	0%				
Cladosporium		2	13	**26**	2%	8	13	**104**	1%	4	13	**52**	5%
						Predominately Outdoor							
Alternaria-like													
Ascospores		3	13	**39**	3%	6	13	**78**	1%	7	13	**91**	8%
Basidiospores		104	13	**1,352**	95%	118	89	**10,502**	98%	76	13	**988**	87%
Bipolaris/Drechslera													
Cercospora						1	13	**13**	0%				
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		109		**1,417**		137		**10,749**		87		**1,131**	
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				1				1			
Analyst Initials		KM				KM				KM			
Date Analyzed		09/21/26				09/21/26				09/21/26			
Exp Date of Cassette:		04/2027				04/2027				04/2027			

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	Altoona, PA 16601	**Date of Report:**	**September 21, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014871-26

Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**OAC-1**				**OAC-2**				**OAC-3**			
Location:		**Outside**				**Outside**				**Outside**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
					Water Indicator								
Chaetomium-like													
Stachybotrys													
					Indoor/Outdoor								
Aspergillus/Penicillium-like		5	13	**65**	0%								
Cladosporium		48	13	**624**	1%	71	13	**923**	3%	54	13	**702**	2%
					Predominately Outdoor								
Alternaria-like													
Ascospores		105	13	**1,365**	3%	99	13	**1,287**	4%	75	13	**975**	3%
Basidiospores		176	267	**46,992**	96%	113	267	**30,171**	93%	130	267	**34,710**	95%
Bipolaris/Drechslera													
Cercospora		1	13	**13**	0%	1	13	**13**	0%	2	13	**26**	0%
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium		1	13	**13**	0%								
Rusts													
Smuts/ Myxomycetes						2	13	**26**	0%	1	13	**13**	0%
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		336		**49,072**		286		**32,420**		262		**36,426**	
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				1				1			
Analyst Initials		LS				LS				LS			
Date Analyzed		09/21/26				09/21/26				09/21/26			
Exp Date of Cassette:		04/2027				04/2027				04/2027			

Entire trace analyzed. Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicllium* -like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected.

Blank Lines = None Detected AS = Analytical Sensitivity (spores/m^3)

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Technical Manager: Becky Moran

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Phone: (724) 853-4047 Fax: (724) 853-4049 A2LA # 7000.01
www.usmslab.com

Customer Name:	**Keystone Environmental**	**Sample Date:**	**September 19, 2026**
Customer Address:	**1111 12th Avenue**	**Date Received:**	**September 21, 2026**
	Altoona, PA 16601	**Date of Report:**	**September 21, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014871-26

Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**							
Sample Number		**OAC-4**				**OAC-5**							
Location:		**Outside**				**Outside**							
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
					Water Indicator								
Chaetomium-like													
Stachybotrys													
					Indoor/Outdoor								
Aspergillus/Penicillium-like		2	13	**26**	0%								
Cladosporium		105	13	**1,365**	3%	30	13	**390**	1%				
					Predominately Outdoor								
Alternaria-like													
Ascospores		116	89	**10,324**	20%	215	13	**2,795**	5%				
Basidiospores		152	267	**40,584**	77%	190	267	**50,730**	94%				
Bipolaris/Drechslera													
Cercospora						1	13	**13**	0%				
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora		2	13	**26**	0%								
Oidium													
Pithomyces													
Polythrincium		2	13	**26**	0%	1	13	**13**	0%				
Rusts													
Smuts/ Myxomycetes		5	13	**65**	0%	1	13	**13**	0%				
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		384		**52,416**		438		**53,954**					
Pollen		1	13	**13**									
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1							
Debris		1				1							
Analyst Initials		BM				BM							
Date Analyzed		09/21/26				09/21/26							
Exp Date of Cassette:		04/2027				04/2027							

Entire trace analyzed. Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicllium* -like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected.

Blank Lines = None Detected AS = Analytical Sensitivity (spores/m^3)

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Ascospores: Ascospore is a generic term for the sexual reproductive particles of Ascomycetes, a phylum of fungi with over 64,000 species. They are found everywhere in nature as saprophytes and plant pathogens.

Aspergillus/Penicillium – like: Aspergillus and Penicillium are fungi commonly found in soil, decaying vegetation, and foods. High spore trap air counts may be detected where water damaged materials such as drywall, wallpaper, wood, and wood products are present. This category cannot be differentiated by non-viable sampling methods.

Basidiospores: A basidiospore is a reproductive spore produced by basidiomycete fungi, a grouping that includes mushrooms, shelf fungi, rusts, and smuts. These are very common outdoor spores found in gardens and forests.

Cercospora: Cercospora species are fungi with a world-wide distribution that are parasitic on many higher plants, commonly causing leaf spots. Their spores are dispersed by wind and are common in agricultural areas.

Cladosporium: Cladosporium species are ubiquitous fungi with worldwide distribution and are the most common mold on dead organic matter and in the air. The spores are readily dispersed by wind. The highest outdoor concentrations in temperate areas occur in summer and early fall. They are common in indoor environments and can be isolated from floor, carpet, and mattress dust; HVAC insulation/filters/fans; wet building elements such as gypsum board, painted walls/wood, shower walls, and wall paper.

Curvularia: Curvularia species are fungi with a world-wide distribution, preferring tropical and subtropical climates. They are found in soil, on dead plant material, as pathogens on live plants, and indoors on cellulose substrates such as paper.

Nigrospora: Nigrospora species are fungi with a widespread distribution in decaying plant material, soil, and air.

Pithomyces: Pithomyces species are cosmopolitan fungi found in decaying wood, plant material, and soil.

Polythrincium: Polythrincium spores are commonly found outdoors on leaves.

Smuts/Myxomycetes: Smuts are typically found on cereal crops, grasses, weeds, and flowering plants. They do not typically grow indoors. Myxomycetes (slime molds) are found on decaying wood and leaves and are occasionally found indoors. They have both dry and wet spores. Smut spores are not easily distinguishable from myxomycetes.

Unidentified hyaline conidia: A light-colored or clear spore that is unable to be identified by the laboratory.

Pollen: Pollen is released into the air by plants to fertilize the structures that will become the seeds. It is mostly prevalent in the spring, indoors and outdoors, and commonly causes allergies.

Hyphal fragments: The filaments that compose the body of a fungus. Hyphal fragments usually indicate growth of fungi on building substrates.

SPORE TRAP INTERPRETATION TIPS

Contains opinions and interpretations

Currently there are no numeric standards for indoor airborne or surface microbial contamination. Suggested guidelines are constantly being reviewed and updated as more information is collected.

Some common denominators should be considered when interpreting results:

1. Comparison of indoor/outdoor concentration ratios.

2. Complaint vs. non-complaint areas or affected vs. non-affected areas.

3. Consider air exchange rates and activity levels in a building structure, weather, and season of the year.

4. Rank order assessment and concentration (e.g., spores/m^3 of air) of the fungi.

5. Predominant fungal genera: Are there water indicator microorganisms present, such as but not limited to: *Chaetomium, Stachybotrys, Trichoderma,* and *Scopulariopsis.*

6. Generally fungal counts indoors should be lower than outdoor counts and the types of fungi found indoors should be similar to outdoors.

7. There is always a potential bias from infiltration of outdoor air, poor housekeeping, excessive indoor relative humidity, or potential contamination sources (e.g. water intrusion through a basement wall) that may negatively influence post remedial verification (PRV) or clearance levels.

8. The investigator should look for various patterns among the indoor types of molds detected:

   a. Increased levels of primary (1st) colonizers in damp or moisture intrusion areas of homes or commercial buildings: ***Aspergillus/Penicillium*** or ***Cladosporium*** are usually noted.

   b. ***Chaetomium*** or ***Stachybotrys*** are tertiary (3rd) colonizers of indoor materials and are usually associated with chronic long-standing water/moisture issues in a building.

   c. The presence of **hyphal fragments** or **fruiting structures** noted on spore trap samples usually indicates amplification (growth) of fungi on building substrates.

   d. **Ascospores** and **basidiospores** noted on indoor spore trap samples most often represent the entrance of inadequately filtered outdoor air. During inclement weather, remember to note time, temperature, and season. Most indoor materials will not support the growth of these fungi.

9. When unidentified **hyaline** (clear) or **dematiaceous** (dark-pigmented) conidia are noted on a spore trap sample, it indicates that no particular fungus can be identified. These fungal conidia may represent such yeast-like fungi as *Aureobasidium, Sporidiobolus,* unidentifiable *Acremonium* species, Basidiomycetes (basidiospores), and Ascomycetes (ascospores).

10. Keep in mind when interpreting spore trap sample reports, that indoor levels may be higher than corresponding outdoor levels (winter time in the northern U.S.) with a predominance of *Aspergillus/Penicillium* or *Cladosporium* conidia with no significant amplification of any molds.

SPORE TRAP GUIDELINES

DEBRIS RATING		
DEBRIS RATING	**Debris Load** per high power field (600 X)	**SIGNIFICANCE**
0	A visible trace, including particulates and debris, is not observed.	Indicates the sample is a blank, the area is exceptionally clean, or improper sampling occurred.
1	<5%	Minimal amount of debris is observed.
2	5-25%	Low amount of debris is observed.
3	25-75%	Moderate amount of debris is observed, the accuracy of the analysis is likely affected.
4	75-90%	High amount of debris is observed, the accuracy of the analysis is likely affected.
5 See Relative Abundance chart below	>90%	Periphery of trace analyzed. Relative amounts of conidia/hyphal fragments noted.

RELATIVE ABUNDANCE of FUNGAL PARTICLES (hyphal fragments, spores)	
RATING	**Fungal Particle Load** per high power field (600 X)
Rare	<5%
Few	5-25%
Moderate	25-75%
Many	75-90%
Numerous	>90%

SKIN CELL RATING	
SKIN CELL RATING	**Skin Cell Load** per high power field (600 X)
0	No skin cells present
1	<5%
2	5-25%
3	25-75%
4	75-90%
5	>90%

End of Report

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LABORATORY TEST REQUEST – CHAIN OF CUSTODY

Customer Name: KEYSTONE ENVIRONMENTAL	Phone #: 814 944-3680	FAX #: 814 944-3688	
Address: 1111 12th AVENUE	City: ALTOONA	State: PA	Zip: 16601
Attention To: DARIN TORNATORE	E-Mail: darin.tornatore@keystoneehs.com		
Sample Obtained By: KEYS	Results: ☐ FAX ☑ E-Mail	PO#	Proposal #
Project Name/Number: Conemaugh Township Elementary			

Turn-Around-Time (Spore Trap & DME Only)*: Standard (48-72 hr) ☐ | Next Day (24 hr, M-F) ☐ | Same Day (6 hr, M-F) ☐ | 3-Hour (M-F) ☑ | Saturday ☐

Comments:

Sample #	Sample Date / Time	Sample Code	Analysis Code	Sample Location & Description	Sample Volume/Area
A-1	9/19/26	ST	SPT	Room #118	75
A-2	9/19/26	ST	SPT	Room #119	75
A-3	9/19/26	ST	SPT	Room #117	75
A-4	9/19/26	ST	SPT	Room #120	75
A-5	9/19/26	ST	SPT	Room #116	75
A-6	9/19/26	ST	SPT	Room #121	75
A-7	9/19/26	ST	SPT	Room #127	75
A-8	9/19/26	ST	SPT	Room #122	75

Relinquished By (Customer MUST sign): [signature] Date & Time: 9/20/26 10:30AM

Received By – Lab Use Only: [signature] Date & Time: 09/21/26 0800 Lab #: 09-00148711-20

Sample Code	
A	Air Plate
B	Bulk
ST	Spore Trap
S	Swab
W	Water
T	Tape
O	Other

04/2027

Analysis Code

DME	Direct Microscopic Exam	COL	Presence/absence of *E. coli*, coliforms
SPT	Spore Trap ☑ Allergenco-D ☐ AirOCell ☐ M5	HPC	Heterotrophic Plate Count
FUNG	Fungal Culture – Counts w/ Identification	MYC	Mycobacteria Culture (nontuberculous)
BACT	Bacterial Culture – Counts w/ Identification	LEG	*Legionella* Culture
BACT24	Bacterial Culture (24 hr) - Counts w/ presence/absence of gram-negatives	DUO	Duodenoscope Culture
SS24	Sewage Screen (24 hr) - Presence/absence *E. coli, coliforms, enterococci (fecal streptococci)*	HCU	Heater/Cooler Water Culture *includes nontuberculous mycobacteria and HPC*
IDS	Species Identification by MALDI-TOF	OPP	Opportunistic Pathogen Panel (or separate) PSA - *Pseudomonas aeruginosa* Culture BURK - *Burkholderia cepacia* complex Culture ACIN - *Acinetobacter* Culture
BART	Microbially Influenced Corrosion Panel *Iron-related, sulfate-reducing, slime-forming bacteria*		

*All samples received after 1:00 p.m. Monday-Friday will be considered received the NEXT business day.
Same Day and Next Day samples received on Saturday will be reported on Monday and Tuesday, respectively.

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LABORATORY TEST REQUEST – CHAIN OF CUSTODY

Customer Name: KEYSTONE ENVIRONMENTAL | Project Name/Number: Conemaugh Township Elementary

Sample #	Sample Date / Time	Sample Code	Analysis Code	Sample Location & Description	Sample Volume/Area
A-9	9/19/26	ST	SPT	Room # 126	75
A-10	9/19/26	ST	SPT	Room # 123	75
A-11	9/19/26	ST	SPT	Room # 125	75
A-12	9/19/26	ST	SPT	Room # 124	75
A-13	9/19/26	ST	SPT	Room # 115	75
A-14	9/19/26	ST	SPT	Room # 128	75
A-15	9/19/26	ST	SPT	Room # 114	75
A-16	9/19/26	ST	SPT	Room # 130	75
A-17	9/19/26	ST	SPT	Room # 111	75
A-18	9/19/26	ST	SPT	Room # 112	75
A-19	9/19/26	ST	SPT	Room # 110	75
A-20	9/19/26	ST	SPT	Room # 113	75
A-21	9/19/26	ST	SPT	Room # 108/109	75
A-22	9/19/26	ST	SPT	Cafeteria	75
A-23	9/19/26	ST	SPT	Room # 170	75
A-24	9/19/26	ST	SPT	Room # 106	75
A-25	9/19/26	ST	SPT	Room # 169	75
A-26	9/19/26	ST	SPT	Room # 171	75
A-27	9/19/26	ST	SPT	Room # 168	75
A-28	9/19/26	ST	SPT	Room # 172	75
A-29	9/19/26	ST	SPT	Room # 167	75

Received By – Lab Use Only | Date & Time: 9/20/26 10:30 | Lab #: 09-00148720

09/21/26 CPC

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LABORATORY TEST REQUEST – CHAIN OF CUSTODY

Customer Name: KEYSTONE ENVIRONMENTAL | Project Name/Number: Conemaugh Township Elementary

Sample #	Sample Date / Time	Sample Code	Analysis Code	Sample Location & Description	Sample Volume/Area
A-30	9/19/26	ST	SPT	Room #173	75
A-31	9/19/26	ST	SPT	Room # 165	75
A-32	9/19/26	ST	SPT	Room # 174	75
A-33	9/19/26	ST	SPT	Room # 163	75
A-34	9/19/26	ST	SPT	Room # 141	75
A-35	9/19/26	ST	SPT	Room # 164	75
A-36	9/19/26	ST	SPT	Room # 140	75
A-37	9/19/26	ST	SPT	STAGE	75
A-38	9/19/26	ST	SPT	Room # 139	75
A-39	9/19/26	ST	SPT	Room # 136	75
A-40	9/19/26	ST	SPT	Room # 138	75
A-41	9/19/26	ST	SPT	Room # 137	75
A-42	9/19/26	ST	SPT	Room # 135	75
OAC-1	9/19/26	ST	SPT	Outside	75
OAC-2	9/19/26	ST	SPT	Outside	75
OAC-3	9/19/26	ST	SPT	Outside	75
OAC-4	9/19/26	ST	SPT	Outside	75
OAC-5	9/19/26	ST	SPT	Outside	75

Received By – Lab Use Only | Date & Time: 9/19/26 10:30 | Lab #: 901-0014871-26

09/21/26 CRC

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Customer Name:	**Keystone Environmental**	**Sample Date:**	**September 20, 2026**
Customer Address:	**1111 12th Avenue**	**Date Received:**	**September 21, 2026**
	Altoona, PA 16601	**Date of Report:**	**September 21, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014872-26

Direct Microscopic Examination - Tape
Analytical Method: MIC 02

Customer Sample Number	S-1					S-2					S-3				
Sample Description/ Location	Rm # 119 / Ceiling Tile					Rm # 118 / Ceiling Tile					Rm # 121 / Ceiling Tile				
Particle ID	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Alternaria-like conidia															
Ascospores															
Aspergillus fruiting structures															
Aspergillus/Penicillium-like conidia		X													
Basidiospores															
Bipolaris/Drechslera conidia															
Chaetomium-like ascospores															
Cladosporium conidia															
Curvularia conidia															
Epicoccum conidia															
Hyphal Fragments	X														
Penicillium fruiting structures	X														
Pithomyces conidia															
Rusts															
Smuts/ Myxomycetes															
Stachybotrys conidia															
Stachybotrys fruiting structures															
Torula conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Pollen															
Insect fragments															
Plant Fragments															
Skin Cell Fragments	1					1					1				
Debris	1					1					1				
No fungal conidia/hyphal fragments noted						X					X				
Analyst Initials	LS					LS					LS				
Date Analyzed	09/21/26					09/21/26					09/21/26				
Expiration Date of Tape/Swab:	03/2028					03/2028					03/2028				

Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected.
Mod = Moderate; Num = Numerous

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Customer Name:	**Keystone Environmental**	**Sample Date:**	**September 20, 2026**
Customer Address:	**1111 12th Avenue**	**Date Received:**	**September 21, 2026**
	Altoona, PA 16601	**Date of Report:**	**September 21, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014872-26

Direct Microscopic Examination - Tape
Analytical Method: MIC 02

Customer Sample Number	S-4					S-5					S-6				
Sample Description/ Location	Rm # 116 / Ceiling Tile					Rm # 122 / Ceiling Tile					Rm # 127 / Ceiling Tile				
Particle ID	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Alternaria-like conidia															
Ascospores															
Aspergillus fruiting structures															
Aspergillus/Penicillium-like conidia															
Basidiospores															
Bipolaris/Drechslera conidia															
Chaetomium-like ascospores															
Cladosporium conidia															
Curvularia conidia															
Epicoccum conidia															
Hyphal Fragments															
Penicillium fruiting structures															
Pithomyces conidia															
Rusts															
Smuts/ Myxomycetes															
Stachybotrys conidia															
Stachybotrys fruiting structures															
Torula conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Pollen															
Insect fragments															
Plant Fragments															
Skin Cell Fragments	1					1					1				
Debris	1					1					1				
No fungal conidia/hyphal fragments noted	X					X					X				
Analyst Initials	LS					LS					LS				
Date Analyzed	09/21/26					09/21/26					09/21/26				
Expiration Date of Tape/Swab:	05/2028					05/2028					05/2028				

Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected.
Mod = Moderate; Num = Numerous

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Customer Name:	**Keystone Environmental**	**Sample Date:**	**September 20, 2026**
Customer Address:	**1111 12th Avenue**	**Date Received:**	**September 21, 2026**
	Altoona, PA 16601	**Date of Report:**	**September 21, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014872-26

Direct Microscopic Examination - Tape
Analytical Method: MIC 02

Customer Sample Number	S-7					S-8					S-9				
Sample Description/ Location	Rm # 124 / Ceiling Tile					Rm # 125 / Ceiling Tile					Rm # 112 / Ceiling Tile				
Particle ID	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Alternaria-like conidia															
Ascospores															
Aspergillus fruiting structures															
Aspergillus/Penicillium-like conidia															
Basidiospores															
Bipolaris/Drechslera conidia															
Chaetomium-like ascospores															
Cladosporium conidia															
Curvularia conidia															
Epicoccum conidia															
Hyphal Fragments															
Penicillium fruiting structures															
Pithomyces conidia															
Rusts															
Smuts/ Myxomycetes															
Stachybotrys conidia															
Stachybotrys fruiting structures															
Torula conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Pollen															
Insect fragments															
Plant Fragments															
Skin Cell Fragments	1					1					1				
Debris	1					1					1				
No fungal conidia/hyphal fragments noted	X					X					X				
Analyst Initials	LS					LS					LS				
Date Analyzed	09/21/26					09/21/26					09/21/26				
Expiration Date of Tape/Swab:	03/2028					12/2027					12/2027				

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Mod = Moderate; Num = Numerous

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Technical Manager: Becky Moran

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302 Unity Plaza * Latrobe, PA 15650
Phone: (724) 853-4047 Fax: (724) 853-4049 A2LA # 7000.01
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Customer Name:	**Keystone Environmental**	**Sample Date:**	**September 20, 2026**
Customer Address:	**1111 12th Avenue**	**Date Received:**	**September 21, 2026**
	Altoona, PA 16601	**Date of Report:**	**September 21, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014872-26

Direct Microscopic Examination - Tape
Analytical Method: MIC 02

Customer Sample Number	S-10					S-11					S-12				
Sample Description/ Location	Rm # 111 / Ceiling Tile					Rm # 117 / Ceiling Tile					Rm # 108 / Ceiling Tile				
Particle ID	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Alternaria-like conidia															
Ascospores															
Aspergillus fruiting structures															
Aspergillus/Penicillium-like conidia															
Basidiospores															
Bipolaris/Drechslera conidia															
Chaetomium-like ascospores															
Cladosporium conidia															
Curvularia conidia															
Epicoccum conidia															
Hyphal Fragments															
Penicillium fruiting structures															
Pithomyces conidia															
Rusts															
Smuts/ Myxomycetes															
Stachybotrys conidia															
Stachybotrys fruiting structures															
Torula conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Pollen															
Insect fragments															
Plant Fragments															
Skin Cell Fragments	1					1					1				
Debris	1					1					1				
No fungal conidia/hyphal fragments noted	X					X					X				
Analyst Initials	LS					LS					LS				
Date Analyzed	09/21/26					09/21/26					09/21/26				
Expiration Date of Tape/Swab:	12/2027					05/2028					03/2028				

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	Altoona, PA 16601	**Date of Report:**	**September 21, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014872-26

Direct Microscopic Examination - Tape
Analytical Method: MIC 02

Customer Sample Number	S-13					S-14					S-15				
Sample Description/ Location	Rm # 130 / Ceiling Tile					Rm # 115 / Ceiling Tile					Rm # 107 / Ceiling Tile				
Particle ID	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Alternaria-like conidia															
Ascospores															
Aspergillus fruiting structures															
Aspergillus/Penicillium-like conidia															
Basidiospores															
Bipolaris/Drechslera conidia															
Chaetomium-like ascospores															
Cladosporium conidia															
Curvularia conidia															
Epicoccum conidia															
Hyphal Fragments			X												
Penicillium fruiting structures															
Pithomyces conidia															
Rusts															
Smuts/ Myxomycetes															
Stachybotrys conidia				X											
Stachybotrys fruiting structures			X												
Torula conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia				X											
Pollen															
Insect fragments															
Plant Fragments															
Skin Cell Fragments	1					1					1				
Debris	1					1					1				
No fungal conidia/hyphal fragments noted						X					X				
Analyst Initials	LS					LS					LS				
Date Analyzed	09/21/26					09/21/26					09/21/26				
Expiration Date of Tape/Swab:	12/2027					05/2028					05/2028				

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Customer Name:	**Keystone Environmental**	**Sample Date:**	**September 20, 2026**
Customer Address:	**1111 12th Avenue**	**Date Received:**	**September 21, 2026**
	Altoona, PA 16601	**Date of Report:**	**September 21, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014872-26

Direct Microscopic Examination - Tape
Analytical Method: MIC 02

Customer Sample Number	S-16					S-17					S-18				
Sample Description/ Location	Rm # 106 / Ceiling Tile					Rm # 170 / Ceiling Tile					Rm # 169 / Ceiling Tile				
Particle ID	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Alternaria-like conidia															
Ascospores															
Aspergillus fruiting structures															
Aspergillus/Penicillium-like conidia															
Basidiospores															
Bipolaris/Drechslera conidia															
Chaetomium-like ascospores															
Cladosporium conidia															
Curvularia conidia															
Epicoccum conidia															
Hyphal Fragments															
Penicillium fruiting structures															
Pithomyces conidia															
Rusts															
Smuts/ Myxomycetes															
Stachybotrys conidia															
Stachybotrys fruiting structures															
Torula conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Pollen															
Insect fragments															
Plant Fragments															
Skin Cell Fragments	1					1					1				
Debris	1					1					1				
No fungal conidia/hyphal fragments noted	X					X					X				
Analyst Initials	LS					LS					LS				
Date Analyzed	09/21/26					09/21/26					09/21/26				
Expiration Date of Tape/Swab:	05/2028					03/2028					03/2028				

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Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
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Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014872-26

Direct Microscopic Examination - Tape
Analytical Method: MIC 02

Customer Sample Number	S-19					S-20					S-21				
Sample Description/ Location	Rm # 173 / Ceiling Tile					Rm # 167 / Ceiling Tile					Rm # 141 / Ceiling Tile				
Particle ID	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Alternaria-like conidia															
Ascospores															
Aspergillus fruiting structures															
Aspergillus/Penicillium-like conidia															
Basidiospores															
Bipolaris/Drechslera conidia															
Chaetomium-like ascospores															
Cladosporium conidia															
Curvularia conidia															
Epicoccum conidia															
Hyphal Fragments															
Penicillium fruiting structures															
Pithomyces conidia															
Rusts															
Smuts/ Myxomycetes															
Stachybotrys conidia															
Stachybotrys fruiting structures															
Torula conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Pollen															
Insect fragments															
Plant Fragments															
Skin Cell Fragments	1					1					1				
Debris	1					1					1				
No fungal conidia/hyphal fragments noted	X					X					X				
Analyst Initials	LS					LS					LS				
Date Analyzed	09/21/26					09/21/26					09/21/26				
Expiration Date of Tape/Swab:	05/2028					03/2028					12/2027				

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Customer Address:	**1111 12th Avenue**	**Date Received:**	**September 21, 2026**
	Altoona, PA 16601	**Date of Report:**	**September 21, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014872-26

Direct Microscopic Examination - Tape
Analytical Method: MIC 02

Customer Sample Number	S-22					S-23					S-24				
Sample Description/ Location	Rm # 136 / Ceiling Tile					Rm # 139 / Ceiling Tile					Rm # 138 / Ceiling Tile				
Particle ID	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Alternaria-like conidia															
Ascospores															
Aspergillus fruiting structures															
Aspergillus/Penicillium-like conidia															
Basidiospores															
Bipolaris/Drechslera conidia															
Chaetomium-like ascospores															
Cladosporium conidia															
Curvularia conidia															
Epicoccum conidia															
Hyphal Fragments															
Penicillium fruiting structures															
Pithomyces conidia															
Rusts															
Smuts/ Myxomycetes															
Stachybotrys conidia															
Stachybotrys fruiting structures															
Torula conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Pollen															
Insect fragments															
Plant Fragments															
Skin Cell Fragments	1					1					1				
Debris	1					1					1				
No fungal conidia/hyphal fragments noted	X					X					X				
Analyst Initials	LS					LS					LS				
Date Analyzed	09/21/26					09/21/26					09/21/26				
Expiration Date of Tape/Swab:	12/2027					12/2027					12/2027				

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Customer Name:	**Keystone Environmental**	**Sample Date:**	**September 20, 2026**
Customer Address:	**1111 12th Avenue Altoona, PA 16601**	**Date Received:**	**September 21, 2026**
		Date of Amended Report:	**October 12, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014872-26

Direct Microscopic Examination - Tape
Analytical Method: MIC 02

Customer Sample Number	S-25					S-26					S-27				
Sample Description/ Location	Rm # 124 / Uni-Vent					Rm # 169 / Uni-Vent					Rm # 136 / Uni-Vent				
Particle ID	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Alternaria-like conidia	X					X									
Ascospores											X				
Aspergillus fruiting structures															
Aspergillus/Penicillium-like conidia															
Basidiospores															
Bipolaris/Drechslera conidia											X				
Chaetomium-like ascospores															
Cladosporium conidia								X							
Curvularia conidia															
Epicoccum conidia											X				
Hyphal Fragments															
Penicillium fruiting structures															
Pithomyces conidia	X					X					X				
Rusts															
Smuts/ Myxomycetes						X									
Stachybotrys conidia															
Stachybotrys fruiting structures															
Torula conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Pollen	X										X				
Insect fragments											X				
Plant Fragments						X									
Skin Cell Fragments	1					1					1				
Debris	1					1					1				
No fungal conidia/hyphal fragments noted															
Analyst Initials	LS					LS					LS				
Date Analyzed	09/21/26					09/21/26					09/21/26				
Expiration Date of Tape/Swab:	12/2027					05/2028					12/2027				

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	Altoona, PA 16601	**Date of Report:**	**September 21, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014872-26

Direct Microscopic Examination - Tape
Analytical Method: MIC 02

Customer Sample Number	S-28					S-29					S-30				
Sample Description/ Location	Rm # 106 / Wooden Book Shelf					Rm # 106 / Wooden Book Shelf					Rm # 171 - Cardboard Box				
Particle ID	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Alternaria-like conidia															
Ascospores															
Aspergillus fruiting structures		X					X								
Aspergillus/Penicillium-like conidia				X					X		X				
Basidiospores											X				
Bipolaris/Drechslera conidia															
Chaetomium-like ascospores															
Cladosporium conidia															
Curvularia conidia															
Epicoccum conidia															
Hyphal Fragments		X					X								
Penicillium fruiting structures															
Pithomyces conidia															
Rusts															
Smuts/ Myxomycetes															
Stachybotrys conidia															
Stachybotrys fruiting structures															
Torula conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Pollen															
Insect fragments															
Plant Fragments															
Skin Cell Fragments	1					1					1				
Debris	1					1					1				
No fungal conidia/hyphal fragments noted															
Analyst Initials	LS					LS					LS				
Date Analyzed	09/21/26					09/21/26					09/21/26				
Expiration Date of Tape/Swab:	12/2027					12/2027					12/2027				

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Customer Name:	**Keystone Environmental**	**Sample Date:**	**September 20, 2026**
Customer Address:	**1111 12th Avenue**	**Date Received:**	**September 21, 2026**
	Altoona, PA 16601	**Date of Report:**	**September 21, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014872-26

Direct Microscopic Examination - Tape
Analytical Method: MIC 02

Customer Sample Number	S-31					S-32					S-33				
Sample Description/ Location	Rm # 119 - Black Teacher Chair					Rm # 126 - Wooden Shelf Above Sink					Rm # 137 - Bottom of Student Table				
Particle ID	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Alternaria-like conidia															
Ascospores	X														
Aspergillus fruiting structures												X			
Aspergillus/Penicillium-like conidia														X	
Basidiospores															
Bipolaris/Drechslera conidia															
Chaetomium-like ascospores															
Cladosporium conidia															
Curvularia conidia															
Epicoccum conidia															
Hyphal Fragments															
Penicillium fruiting structures															
Pithomyces conidia	X											X			
Rusts															
Smuts/ Myxomycetes															
Stachybotrys conidia															
Stachybotrys fruiting structures															
Torula conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Pollen															
Insect fragments															
Plant Fragments															
Skin Cell Fragments	1					1					1				
Debris	1					1					1				
No fungal conidia/hyphal fragments noted						X									
Analyst Initials	LS					LS					LS				
Date Analyzed	09/21/26					09/21/26					09/21/26				
Expiration Date of Tape/Swab:	12/2027					12/2027					12/2027				

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Customer Name:	**Keystone Environmental**	**Sample Date:**	**September 20, 2026**
Customer Address:	**1111 12th Avenue**	**Date Received:**	**September 21, 2026**
	Altoona, PA 16601	**Date of Report:**	**September 21, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Darin Tornatore**
Project Name/Number:	**Conemaugh Township Elementary**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0014872-26

Direct Microscopic Examination - Tape
Analytical Method: MIC 02

Customer Sample Number	S-34														
Sample Description/ Location	Stage - Black Nylon Cloth Instrument Case														
Particle ID	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Alternaria-like conidia															
Ascospores															
Aspergillus fruiting structures		X													
Aspergillus/Penicillium-like conidia				X											
Basidiospores															
Bipolaris/Drechslera conidia															
Chaetomium-like ascospores															
Cladosporium conidia															
Curvularia conidia															
Epicoccum conidia	X														
Hyphal Fragments		X													
Penicillium fruiting structures															
Pithomyces conidia															
Rusts															
Smuts/ Myxomycetes															
Stachybotrys conidia															
Stachybotrys fruiting structures															
Torula conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Pollen															
Insect fragments															
Plant Fragments															
Skin Cell Fragments	1														
Debris	1														
No fungal conidia/hyphal fragments noted															
Analyst Initials	LS														
Date Analyzed	09/21/26														
Expiration Date of Tape/Swab:	12/2027														

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Technical Manager: Becky Moran

Alternaria-like: Alternaria species are one of the most abundant fungi in the atmosphere, with the highest concentrations in summer and early fall in temperate zones. Their spores are dispersed by wind. They can be isolated from plants (either as pathogens or saprobes), soil, foodstuffs, and textiles. They are common in floor, carpet, and mattress dust; less frequently on damp walls, gypsum board, and wall paper.

Ascospores: Ascospore is a generic term for the sexual reproductive particles of Ascomycetes, a phylum of fungi with over 64,000 species. They are found everywhere in nature as saprophytes and plant pathogens.

Aspergillus fruiting structures – A general term for the spore-bearing structure of fungi.

Aspergillus/Penicillium – like: Aspergillus and Penicillium are fungi commonly found in soil, decaying vegetation, and foods. High spore trap air counts may be detected where water damaged materials such as drywall, wallpaper, wood, and wood products are present. This category cannot be differentiated by non-viable sampling methods.

Basidiospores: A basidiospore is a reproductive spore produced by basidiomycete fungi, a grouping that includes mushrooms, shelf fungi, rusts, and smuts. These are very common outdoor spores found in gardens and forests.

Bipolaris/Drechslera: Bipolaris/ Drechslera species are dematiaceous (dark pigmented) filamentous fungi that are widespread in nature and are most frequently associated with grasses, plant material, decaying food, and soil. Nearly all species are pathogenic to grasses, while some are common saprobes on dead plant material and in soil. Their spores are dispersed by wind. This category cannot be differentiated by non-viable sampling methods.

Cladosporium: Cladosporium species are ubiquitous fungi with worldwide distribution and are the most common mold on dead organic matter and in the air. The spores are readily dispersed by wind. The highest outdoor concentrations in temperate areas occur in summer and early fall. They are common in indoor environments and can be isolated from floor, carpet, and mattress dust; HVAC insulation/filters/fans; wet building elements such as gypsum board, painted walls/wood, shower walls, and wall paper.

Epicoccum: Epicoccum species are dematiaceous (dark pigmented) fungi with widespread distribution in air, animals, and foodstuffs. These species are common early secondary invaders of numerous plants causing leaf spots. Indoors they can be found on fabric, drywall, wood, carpet, and painted surfaces.

Hyphal fragments: The filaments that compose the body of a fungus. Hyphal fragments usually indicate growth of fungi on building substrates.

Penicillium fruiting structures – A general term for the spore-bearing structure of fungi.

Pithomyces: Pithomyces species are cosmopolitan fungi found in decaying wood, plant material, and soil.

Smuts/Myxomycetes: Smuts are typically found on cereal crops, grasses, weeds, and flowering plants. They do not typically grow indoors. Myxomycetes (slime molds) are found on decaying wood and leaves and are occasionally found indoors. They have both dry and wet spores. Smut spores are not easily distinguishable from myxomycetes.

Stachybotrys: Stachybotrys species are cosmopolitan, saprophytic fungi with worldwide distribution and can be found on paper, seed, in soil, textiles, decaying plant material, and other cellulose-rich materials. Major indoor habitats include water-damaged wallpapers and jute carpet backing, carpet glues, ceiling tile, water-soaked wood, wall paneling, gypsum board, moist debris in ducts, and damp paper and books. Stachybotrys species will not grow on vinyl, plastic, concrete, or ceramic tiles. They may be readily found in most buildings that have experienced chronic water problems that are left unattended. The spores of Stachybotrys are not readily airborne, therefore, bulk or swab sampling can be important for detecting the fungus indoors.

Stachybotrys fruiting structures – A general term for the spore-bearing structure of fungi.

Unidentified hyaline conidia: A light-colored or clear spore that is unable to be identified by the laboratory.

Pollen: Pollen is released into the air by plants to fertilize the structures that will become the seeds. It is mostly prevalent in the spring, indoors and outdoors, and commonly causes allergies.

Insect fragments: Insect fragments are commonly present in low concentrations outdoors and indoors. They may occur at higher concentrations indoors in damp areas.

Plant fragments: Plant fragments are parts of live or decaying plants commonly found in outdoor air and indoors where houseplants are present.

GUIDELINES FOR DIRECT MICROSCOPIC EXAMINATION (DME) OF BULK, SWAB, AND TAPE SAMPLES

These guidelines are not intended for determination of health significance nor are they necessarily representative of unacceptable indoor environments.

Molds require a food source, moisture, and spore production to proliferate, removing any one of these factors can control fungal growth. However, because of their ubiquitous nature, spores can never be completely eliminated from an area.

FUNGAL PARTICLES
(hyphal fragments, spores, fruiting bodies)

RATING[1]	Fungal Particle Load per high power field (600X)	SIGNIFICANCE
Rare	<5%	Indicates a minimal amount of conidia (spores) and/or other fungal structures. Most normal indoor surfaces will show no to low fungal conidia/hyphal fragments. Generally, water indicator molds such as ***Stachybotrys*** or ***Chaetomium*** should be further investigated.
Few	5-25%	Indicates low amounts of settled conidia (spores). Typically, this amount is not consistent with active fungal growth, however, it may suggest an active source nearby, or that a surface has not been cleaned appropriately. The presence of hyphal fragments or fruiting structures may indicate a nearby source of contamination. Generally, the presence of moisture indicator molds (e.g., ***Stachybotrys*** or ***Chaetomium***) may suggest a chronic or acute water condition from sources such as roofs, plumbing leaks, increased humidity, etc.
Moderate	25-75%	Indicates a moderate to heavy amount of fungal contamination (conidia/spores). Generally, this category is indicative of a surface that is, or has been affected, by active fungal growth. The presence of fruiting structures or hyphal fragments may support the premise that fungal growth is on-going. However, the presence of moderate to numerous conidia/spores alone does not necessarily indicate the viability of the spores. Further investigation of the affected areas may be warranted.
Many	75-90%	
Numerous	>90%	Indicates that the sample area was highly contaminated with fungal conidia/spores and/or hyphal fragments. Samples in this category display an unusually high number of conidia/spores or other fungal structures in each microscopic field.

[1]This scale of relative abundance is affected by the size of the sampled area. If very large areas are sampled with a swab for example, this may cause the results to be skewed into a lower or higher category. These results correspond roughly to a sample area measuring one square inch.

SKIN CELL RATING

SKIN CELL RATING	Skin Cell Load per high power field (600 X)
0	No skin cells present
1	<5%
2	5-25%
3	25-75%
4	75-90%
5	>90%

DEBRIS RATING

DEBRIS RATING	Debris Load per high power field (600 X)	SIGNIFICANCE
0	No debris present	Sample may be a blank sample or from a very clean or remediated area.
1	<5%	Minimal amount of debris is observed.
2	5-25%	Low amount of debris is observed.
3	25-75%	Moderate amount of debris is observed, accuracy of the analysis is likely affected.
4	75-90%	High amount of debris is observed, accuracy of the analysis is likely affected.
5	>90%	Field of view is mostly obscured. Recollect sample.

End of Report

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302 Unity Plaza
Latrobe, PA 15650
P: 724.853.4047
F: 724.853.4049
labcom@usmslab.com

LABORATORY TEST REQUEST – CHAIN OF CUSTODY

Customer Name: Keystone Environmental Health & Safety Services, Inc	Phone #: (814)944-3680	FAX #: (814)944-3682	
Address: 1111 12th Avenue	City: Altoona	State: PA	Zip: 16601
Attention To: Darin Tornatore	E-Mail: matt.farabaugh@keystoneehs.com		
Sample Obtained By: Darin Tornatore / Matt Farabaugh	Results: ☐ FAX ☒ E-Mail	PO#	Proposal #
Project Name/Number: Conemaugh Township Elementary			

Turn-Around-Time (Spore Trap & DME Only)*: Standard (48-72 hr) ☐ | Next Day (24 hr, M-F) ☐ | Same Day (6 hr, M-F) ☐ | 3-Hour (M-F) ☒ | Saturday ☐

Comments:

Sample #	Sample Date	Sample Time	Sample Code	Analysis Code	Sample Location & Description	Sample Volume/Area
S-1	9/20/26	0800	T	DME	Rm # 119 / ceiling tile	
S-2	↓	0801	↓	↓	Rm # 118 / ceiling tile	
S-3		0803			Rm # 121 / ceiling tile	
S-4		0810			Rm # 116 / ceiling tile	
S-5		0815			Rm # 122 / ceiling tile	
S-6		0820			Rm # 127 / ceiling tile	
S-7		0830			Rm # 124 / ceiling tile	
S-8	↓	0835	↓	↓	Rm # 125 / ceiling tile	

Relinquished By (Customer MUST sign): Matthew J Z — Date & Time: 9/20/26 13:00

Received By – Lab Use Only — Date & Time: 09/21/26 0800 — Lab #: 09-0014872-26

 SAM 02.01 Form 3 v8 DCR 23-328 Effective 12-15-23

@SS 09/21/26

Sample Code	
A	Air Plate
B	Bulk
ST	Spore Trap
S	Swab
W	Water
T	Tape
O	Other

• 05/20/27/08 **Analysis Code** 12/2027 – 03/2028

DME	Direct Microscopic Exam	COL	Presence/absence of *E. coli*, coliforms
SPT	Spore Trap ☐ Allergenco-D ☐ AirOCell ☐ M5	HPC	Heterotrophic Plate Count
FUNG	Fungal Culture – Counts w/ Identification	MYC	Mycobacteria Culture (nontuberculous)
BACT	Bacterial Culture – Counts w/ Identification	LEG	*Legionella* Culture
BACT24	Bacterial Culture (24 hr) - Counts w/ presence/absence of gram-negatives	DUO	Duodenoscope Culture
SS24	Sewage Screen (24 hr) - Presence/absence *E. coli, coliforms, enterococci (fecal streptococci)*	HCU	Heater/Cooler Water Culture *includes nontuberculous mycobacteria and HPC*
IDS	Species Identification by MALDI-TOF	OPP	Opportunistic Pathogen Panel (or separate) PSA - *Pseudomonas aeruginosa* Culture BURK - *Burkholderia cepacia* complex Culture ACIN - *Acinetobacter* Culture
BART	Microbially Influenced Corrosion Panel *Iron-related, sulfate-reducing, slime-forming bacteria*		

*All samples received after 1:00 p.m. Monday-Friday will be considered received the NEXT business day.
Same Day and Next Day samples received on Saturday will be reported on Monday and Tuesday, respectively.

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labcom@usmslab.com

LABORATORY TEST REQUEST – CHAIN OF CUSTODY

Customer Name: Keystone Environmental | Project Name/Number: Conemaugh Township Elementary

Sample #	Sample Date / Time	Sample Code	Analysis Code	Sample Location & Description	Sample Volume/Area
S-9	9/20/24 0837	T	DME	Rm # 112 / Ceiling Tile	
S-10	0840			Rm # 111 / Ceiling Tile	
S-11	0842			Rm # 117 / ceiling Tile	
S-12	0844			Rm # 108 / Ceiling Tile	
S-13	0847			Rm # 130 / ceiling Tile	
S-14	0849			Rm # 115 / ceiling Tile	
S-15	0852			Rm # 107 / ceiling Tile	
S-16	0854			Rm # 106 / ceiling Tile	
S-17	0855			Rm # 170 / ceiling Tile	
S-18	0857			Rm # 169 / ceiling Tile	
S-19	0900			Rm # 173 / ceiling tile	
S-20	0904			Rm # 167 / ceiling tile	
S-21	0906			Rm # 141 / ceiling tile	
S-22	0915			Rm # 136 / ceiling tile	
S-23	0920			Rm # 139 / Ceiling tile	
S-24	0928			Rm # 138 / ceiling tile	
S-25	0929			Rm # 124 / Uni-Vent	
S-26	09:30			Rm # 169 / Uni-Vent	
S-27	0938			Rm # 130 / uni-vent	
S-28	0945			Rm # 106 / wooden Book Shelf	
S-29	1000			Rm # 106 / wooden Book Shelf	

Received By – Lab Use Only	Date & Time	Lab #
[signature]	09121126 0800	09-0014872-26

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LABORATORY TEST REQUEST – CHAIN OF CUSTODY

Customer Name: Keystone Environmental | Project Name/Number: Conemaugh Township Elementary

Sample #	Sample Date	Sample Time	Sample Code	Analysis Code	Sample Location & Description	Sample Volume/Area
S-30	9/20/24	1001	T	DME	Room # ~~100~~ 171 - Cardboard Box	
S-31		1002			Room # 119 - Black Teacher Chair	
S-32		1025			Room # 126 - Wooden Shelf Above Sink	
S-33		1040			Room # 137 - Bottom of Student Table	
S-34		1100			Stage - Black Nylon Cloth Instrument Case	

Received By – Lab Use Only

Date & Time: 09121126 0800

Lab #: 24-0014872-26

APPENDIX C

POST REMEDIAL BIOAEROSOL & SURFACE SAMPLE LABORATORY REPORT

U.S. MICRO SOLUTIONS INC.
AN ENVIRONMENTAL MICROBIOLOGY LAB

302 Unity Plaza * Latrobe, PA 15650
Phone: (724) 853-4047 Fax: (724) 853-4049 A2LA # 7000.01
www.usmslab.com

Customer Name:	**Keystone Environmental Health and Safety**	**Sample Date:**	**September 25, 2026**
Customer Address:	**1111 12th Avenue Altoona, PA 16601**	**Date Received:**	**September 25, 2026**
		Date of Report:	**September 25, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Matt Farabaugh**
Project Name/Number:	**Conemaugh Township Elementary - Final Clearance**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0015281-26

Airborne Spore Trap Analysis
Analytical Method: MIC 01

		FC-1				FC-2				FC-3			
Total Volume (L)		75				75				75			
Sample Number		FC-1				FC-2				FC-3			
Location:		Room #106 (Library)				Room #130				Room #137			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
						Water Indicator							
Chaetomium-like													
Stachybotrys													
						Indoor/Outdoor							
Aspergillus/Penicillium-like										2	13	**26**	100%
Cladosporium													
						Predominately Outdoor							
Alternaria-like						1	13	**13**	50%				
Ascospores													
Basidiospores													
Bipolaris/Drechslera													
Cercospora													
Curvularia													
Epicoccum						1	13	**13**	50%				
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		0	13	< **13**		2		**26**		2		**26**	
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				1			
Debris		1				1				1			
Analyst Initials		AB				AB				AB			
Date Analyzed		09/25/26				09/25/26				09/25/26			
Exp Date of Cassette:		09/2027				09/2027				09/2027			

Entire trace analyzed. Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicllium* -like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected.

Blank Lines = None Detected AS = Analytical Sensitivity (spores/m^3)

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Technical Manager: Becky Moran

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Phone: (724) 853-4047 Fax: (724) 853-4049 A2LA # 7000.01
www.usmslab.com

Customer Name:	**Keystone Environmental Health and Safety**	**Sample Date:**	**September 25, 2026**
Customer Address:	**1111 12th Avenue Altoona, PA 16601**	**Date Received:**	**September 25, 2026**
		Date of Report:	**September 25, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Matt Farabaugh**
Project Name/Number:	**Conemaugh Township Elementary - Final Clearance**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0015281-26

Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**				**75**			
Sample Number		**FC-4**				**FC-5**				**OAC-1**			
Location:		**Room #171**				**Room #163**				**Outdoor Comparison**			
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
						Water Indicator							
Chaetomium-like													
Stachybotrys													
						Indoor/Outdoor							
Aspergillus/Penicillium-like										3	13	**39**	0%
Cladosporium										13	13	**169**	2%
						Predominately Outdoor							
Alternaria-like													
Ascospores										10	13	**130**	1%
Basidiospores										103	89	**9,167**	96%
Bipolaris/Drechslera													
Cercospora													
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium										2	13	**26**	0%
Rusts													
Smuts/ Myxomycetes													
Torula										5	13	**65**	1%
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		0	13	< **13**		0	13	< **13**		136		**9,596**	
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		1				1				0			
Debris		1				1				1			
Analyst Initials		AB				AB				AB			
Date Analyzed		09/25/26				09/25/26				09/25/26			
Exp Date of Cassette:		09/2027				09/2027				09/2027			

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Customer Name:	**Keystone Environmental Health and Safety**	**Sample Date:**	**September 25, 2026**
Customer Address:	**1111 12th Avenue Altoona, PA 16601**	**Date Received:**	**September 25, 2026**
		Date of Report:	**September 25, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Matt Farabaugh**
Project Name/Number:	**Conemaugh Township Elementary - Final Clearance**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0015281-26

Airborne Spore Trap Analysis
Analytical Method: MIC 01

Total Volume (L)		**75**				**75**							
Sample Number		**OAC-2**				**OAC-3**							
Location:		**Outdoor Comparison**				**Outdoor Comparison**							
Particle ID		**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**	**Raw ct.**	**AS**	**Spores/m³**	**%**
					Water Indicator								
Chaetomium-like													
Stachybotrys													
					Indoor/Outdoor								
Aspergillus/Penicillium-like		8	13	**104**	1%	8	13	**104**	1%				
Cladosporium		46	13	**598**	4%	12	13	**156**	2%				
					Predominately Outdoor								
Alternaria-like													
Ascospores		9	13	**117**	1%	9	13	**117**	2%				
Basidiospores		114	107	**12,198**	92%	106	67	**7,102**	95%				
Bipolaris/Drechslera													
Cercospora													
Curvularia													
Epicoccum		1	13	**13**	0%								
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium		10	13	**130**	1%	1	13	**13**	0%				
Rusts		9	13	**117**	1%								
Smuts/ Myxomycetes		2	13	**26**	0%								
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		199		**13,303**		136		**7,492**					
Pollen													
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments		0				1							
Debris		1				1							
Analyst Initials		AB				AB							
Date Analyzed		09/25/26				09/25/26							
Exp Date of Cassette:		09/2027				09/2027							

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Ascospores: Ascospore is a generic term for the sexual reproductive particles of Ascomycetes, a phylum of fungi with over 64,000 species. They are found everywhere in nature as saprophytes and plant pathogens.

Aspergillus/Penicillium – like: Aspergillus and Penicillium are fungi commonly found in soil, decaying vegetation, and foods. High spore trap air counts may be detected where water damaged materials such as drywall, wallpaper, wood, and wood products are present. This category cannot be differentiated by non-viable sampling methods.

Basidiospores: A basidiospore is a reproductive spore produced by basidiomycete fungi, a grouping that includes mushrooms, shelf fungi, rusts, and smuts. These are very common outdoor spores found in gardens and forests.

Cladosporium: Cladosporium species are ubiquitous fungi with worldwide distribution and are the most common mold on dead organic matter and in the air. The spores are readily dispersed by wind. The highest outdoor concentrations in temperate areas occur in summer and early fall. They are common in indoor environments and can be isolated from floor, carpet, and mattress dust; HVAC insulation/filters/fans; wet building elements such as gypsum board, painted walls/wood, shower walls, and wall paper.

Epicoccum: Epicoccum species are dematiaceous (dark pigmented) fungi with widespread distribution in air, animals, and foodstuffs. These species are common early secondary invaders of numerous plants causing leaf spots. Indoors they can be found on fabric, drywall, wood, carpet, and painted surfaces.

Polythrincium: Polythrincium spores are commonly found outdoors on leaves.

Rusts: Rusts are found on grasses, flowers, trees, and other plant materials. They do not grow indoors unless a plant host is present. They are obligate parasites of flowering plants.

Smuts/Myxomycetes: Smuts are typically found on cereal crops, grasses, weeds, and flowering plants. They do not typically grow indoors. Myxomycetes (slime molds) are found on decaying wood and leaves and are occasionally found indoors. They have both dry and wet spores. Smut spores are not easily distinguishable from myxomycetes.

Torula: Torula species are cosmopolitan fungi found in temperate regions on soil, wood, grasses, groundnuts and oats. They may be found indoors on cellulose containing materials such as jute, wicker, straw baskets, wood, and paper.

SPORE TRAP INTERPRETATION TIPS

Contains opinions and interpretations

Currently there are no numeric standards for indoor airborne or surface microbial contamination. Suggested guidelines are constantly being reviewed and updated as more information is collected.

Some common denominators should be considered when interpreting results:

1. Comparison of indoor/outdoor concentration ratios.

2. Complaint vs. non-complaint areas or affected vs. non-affected areas.

3. Consider air exchange rates and activity levels in a building structure, weather, and season of the year.

4. Rank order assessment and concentration (e.g., spores/m^3 of air) of the fungi.

5. Predominant fungal genera: Are there water indicator microorganisms present, such as but not limited to: *Chaetomium, Stachybotrys, Trichoderma,* and *Scopulariopsis.*

6. Generally fungal counts indoors should be lower than outdoor counts and the types of fungi found indoors should be similar to outdoors.

7. There is always a potential bias from infiltration of outdoor air, poor housekeeping, excessive indoor relative humidity, or potential contamination sources (e.g. water intrusion through a basement wall) that may negatively influence post remedial verification (PRV) or clearance levels.

8. The investigator should look for various patterns among the indoor types of molds detected:

   a. Increased levels of primary (1st) colonizers in damp or moisture intrusion areas of homes or commercial buildings: ***Aspergillus/Penicillium*** or ***Cladosporium*** are usually noted.

   b. ***Chaetomium*** or ***Stachybotrys*** are tertiary (3rd) colonizers of indoor materials and are usually associated with chronic long-standing water/moisture issues in a building.

   c. The presence of **hyphal fragments** or **fruiting structures** noted on spore trap samples usually indicates amplification (growth) of fungi on building substrates.

   d. **Ascospores** and **basidiospores** noted on indoor spore trap samples most often represent the entrance of inadequately filtered outdoor air. During inclement weather, remember to note time, temperature, and season. Most indoor materials will not support the growth of these fungi.

9. When unidentified **hyaline** (clear) or **dematiaceous** (dark-pigmented) conidia are noted on a spore trap sample, it indicates that no particular fungus can be identified. These fungal conidia may represent such yeast-like fungi as *Aureobasidium, Sporidiobolus,* unidentifiable *Acremonium* species, Basidiomycetes (basidiospores), and Ascomycetes (ascospores).

10. Keep in mind when interpreting spore trap sample reports, that indoor levels may be higher than corresponding outdoor levels (winter time in the northern U.S.) with a predominance of *Aspergillus/Penicillium* or *Cladosporium* conidia with no significant amplification of any molds.

SPORE TRAP GUIDELINES

DEBRIS RATING		
DEBRIS RATING	**Debris Load** per high power field (600 X)	**SIGNIFICANCE**
0	A visible trace, including particulates and debris, is not observed.	Indicates the sample is a blank, the area is exceptionally clean, or improper sampling occurred.
1	<5%	Minimal amount of debris is observed.
2	5-25%	Low amount of debris is observed.
3	25-75%	Moderate amount of debris is observed, the accuracy of the analysis is likely affected.
4	75-90%	High amount of debris is observed, the accuracy of the analysis is likely affected.
5 See Relative Abundance chart below	>90%	Periphery of trace analyzed. Relative amounts of conidia/hyphal fragments noted.

RELATIVE ABUNDANCE of FUNGAL PARTICLES (hyphal fragments, spores)	
RATING	**Fungal Particle Load** per high power field (600 X)
Rare	<5%
Few	5-25%
Moderate	25-75%
Many	75-90%
Numerous	>90%

SKIN CELL RATING	
SKIN CELL RATING	**Skin Cell Load** per high power field (600 X)
0	No skin cells present
1	<5%
2	5-25%
3	25-75%
4	75-90%
5	>90%

End of Report

U.S. MICRO SOLUTIONS INC.
AN ENVIRONMENTAL MICROBIOLOGY LAB

302 Unity Plaza
Latrobe, PA 15650
P: 724.853.4047
F: 724.853.4049
labcom@usmslab.com

LABORATORY TEST REQUEST – CHAIN OF CUSTODY

Customer Name: Keystone Environmental Health and Safety Services, Inc.	Phone #: (814)944-3680	FAX #:	
Address: 144 12th Ave	City: Altoona	State: PA	Zip: 16601
Attention To: Matt Farabaugh	E-Mail: matt.farabaugh@keystonehs.com		
Sample Obtained By: Matt Farabaugh	Results: ☐ FAX ☒ E-Mail	PO#	Proposal #
Project Name/Number: Conemaugh Township Elementary – Final Clearance			

Turn-Around-Time: (Spore Trap & DME Only)*
Standard (48-72 hr) ☐ Next Day (24 hr, M-F) ☐ Same Day (6 hr, M-F) ☐ 3-Hour (M-F) ☒ Saturday ☐

Comments:

Media Manufacturer: Lot #: Expiration:

Sample #	Sample Date	Sample Time	Sample Code	Analysis Code	Sample Location & Description	Sample Volume/Area
FC-1	9/25/26	0939	ST	SPT	Room # 106 (Library)	75 Liters
FC-2		10:15			Room # 130	
FC-3		10:34			Room # 137	
FC-4		10:45			Room # 171	
FC-5		10:56			Room # 163	
[redacted]		11:10			Outdoor Comparison	
OAC-2		11:15			Outdoor Comparison	
OAC-3		11:25			Outdoor Comparison	

Relinquished By (Customer MUST sign): Matt F. Date & Time: 9/25/26 11:36

Received By – Lab Use Only: Alessia M. Date & Time: 09/25/26 1245 Lab #: 09-00015281-200

Sample Code	
A	Air Plate
B	Bulk
ST	Spore Trap
S	Swab
W	Water
T	Tape
P	Paddle
O	Other

0912027

Analysis Code

DME	Direct Microscopic Exam	HPC-R	Heterotrophic Plate Count – Instrument/Reagent Water
SPT	Spore Trap ☐ Allergenco-D ☒ AirOCell ☐ M5	HPC-E	Heterotrophic Plate Count – Environmental Water
COL	Presence/absence of *E. coli*, coliforms	HPC-D	Heterotrophic Plate Count – Dental Water
FUNG	Fungal Culture – Counts w/ Identification	MYC	Mycobacteria Culture (nontuberculous)
BACT	Bacterial Culture – Counts w/ Identification	DUO	Duodenoscope Culture
BACT24	Bacterial Culture (24 hr) - Counts w/ presence/absence of gram-negative bacteria	HCU	Heater/Cooler Water Culture *includes nontuberculous mycobacteria and HPC*
SS24	Sewage Screen (24 hr)- Presence/absence *E. coli, coliforms, enterococci (fecal streptococci)*	OPP	Opportunistic Pathogen Panel (or separate) PSA - *Pseudomonas aeruginosa* Culture BURK - *Burkholderia cepacia* complex Culture ACIN - *Acinetobacter* Culture
BART	Microbially Influenced Corrosion Panel *Iron-related, sulfate-reducing, slime-forming bacteria*		

*All samples received after 1:00 p.m. Monday-Friday will be considered received the NEXT business day. Same Day and Next Day samples received on Saturday will be reported on Monday and Tuesday, respectively.

U.S. MICRO SOLUTIONS INC.
AN ENVIRONMENTAL MICROBIOLOGY LAB

302 Unity Plaza * Latrobe, PA 15650
Phone: (724) 853-4047 Fax: (724) 853-4049 A2LA # 7000.01
www.usmslab.com

Customer Name:	**Keystone Environmental Health and Safety**	**Sample Date:**	**September 25, 2026**
Customer Address:	**1111 12th Avenue Altoona, PA 16601**	**Date Received:**	**September 25, 2026**
		Date of Report:	**September 25, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Matt Farabaugh**
Project Name/Number:	**Conemaugh Township Elementary - Final Clearance**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0015282-26

Direct Microscopic Examination - Tape
Analytical Method: MIC 02

Customer Sample Number	TL-1					TL-2					TL-3				
Sample Description/ Location	Rm #106 - Library Wooden Book Shelf					Rm #106 - Library Wooden Book Shelf					Rm #106 - Library - Hard Back Book				
Particle ID	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Alternaria-like conidia															
Ascospores															
Aspergillus fruiting structures															
Aspergillus/Penicillium-like conidia															
Basidiospores															
Bipolaris/Drechslera conidia															
Chaetomium-like ascospores															
Cladosporium conidia															
Curvularia conidia															
Epicoccum conidia															
Hyphal Fragments															
Penicillium fruiting structures															
Pithomyces conidia															
Rusts															
Smuts/ Myxomycetes															
Stachybotrys conidia															
Stachybotrys fruiting structures															
Torula conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Pollen															
Insect fragments															
Plant Fragments															
Skin Cell Fragments	1					1					1				
Debris	1					1					1				
No fungal conidia/hyphal fragments noted	X					X					X				
Analyst Initials	BM					BM					BM				
Date Analyzed	09/25/26					09/25/26					09/25/26				
Expiration Date of Tape/Swab:	09/2028					09/2028					09/2028				

Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected.
Mod = Moderate; Num = Numerous

When providing duplicates of this report, the document should be provided in total and not in section. Any unauthorized or improper disclosure, copying, distribution, use, or falsification of these results is prohibited. USMS shall have no liability to the Customer or the Customer's customer for opinions stated, recommendations made, actions taken, or conduct implemented based on the test results reported.

Technical Manager: Becky Moran

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302 Unity Plaza * Latrobe, PA 15650
Phone: (724) 853-4047 Fax: (724) 853-4049 A2LA # 7000.01
www.usmslab.com

Customer Name:	**Keystone Environmental Health and Safety**	**Sample Date:**	**September 25, 2026**
Customer Address:	**1111 12th Avenue Altoona, PA 16601**	**Date Received:**	**September 25, 2026**
		Date of Report:	**September 25, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Matt Farabaugh**
Project Name/Number:	**Conemaugh Township Elementary - Final Clearance**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0015282-26

Direct Microscopic Examination - Tape
Analytical Method: MIC 02

Customer Sample Number	TL-4					TL-5					TL-6				
Sample Description/ Location	Rm #106 - Library - Soft Back Book					Rm #106 - Library - Top of Student Table					Rm #106 - Library - Green Counter Top				
Particle ID	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Alternaria-like conidia															
Ascospores															
Aspergillus fruiting structures															
Aspergillus/Penicillium-like conidia															
Basidiospores															
Bipolaris/Drechslera conidia															
Chaetomium-like ascospores															
Cladosporium conidia															
Curvularia conidia															
Epicoccum conidia															
Hyphal Fragments															
Penicillium fruiting structures															
Pithomyces conidia															
Rusts															
Smuts/ Myxomycetes															
Stachybotrys conidia															
Stachybotrys fruiting structures															
Torula conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Pollen															
Insect fragments															
Plant Fragments															
Skin Cell Fragments	1					1					1				
Debris	1					1					1				
No fungal conidia/hyphal fragments noted	X					X					X				
Analyst Initials	BM					BM					BM				
Date Analyzed	09/25/26					09/25/26					09/25/26				
Expiration Date of Tape/Swab:	09/2028					09/2028					09/2028				

Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected.
Mod = Moderate; Num = Numerous

When providing duplicates of this report, the document should be provided in total and not in section. Any unauthorized or improper disclosure, copying, distribution, use, or falsification of these results is prohibited. USMS shall have no liability to the Customer or the Customer's customer for opinions stated, recommendations made, actions taken, or conduct implemented based on the test results reported.

Technical Manager: Becky Moran

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Phone: (724) 853-4047 Fax: (724) 853-4049 A2LA # 7000.01
www.usmslab.com

Customer Name:	**Keystone Environmental Health and Safety**	**Sample Date:**	**September 25, 2026**
Customer Address:	**1111 12th Avenue Altoona, PA 16601**	**Date Received:**	**September 25, 2026**
		Date of Report:	**September 25, 2026**
Customer Phone:	**(814) 944-3680**		
		Attention:	**Matt Farabaugh**
Project Name/Number:	**Conemaugh Township Elementary - Final Clearance**		

Customer sample numbers below are uniquely identified by prefixing Laboratory # 09-0015282-26

Direct Microscopic Examination - Tape
Analytical Method: MIC 02

Customer Sample Number	TL-7					TL-8					TL-9				
Sample Description/ Location	Rm #106 - Library - Student Chair					Rm #137 - Bottom of Student Table					Room #171 - Shelving				
Particle ID	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Alternaria-like conidia															
Ascospores															
Aspergillus fruiting structures															
Aspergillus/Penicillium-like conidia															
Basidiospores															
Bipolaris/Drechslera conidia															
Chaetomium-like ascospores															
Cladosporium conidia															
Curvularia conidia															
Epicoccum conidia															
Hyphal Fragments															
Penicillium fruiting structures															
Pithomyces conidia															
Rusts															
Smuts/ Myxomycetes															
Stachybotrys conidia															
Stachybotrys fruiting structures															
Torula conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Pollen															
Insect fragments															
Plant Fragments															
Skin Cell Fragments	1					1					1				
Debris	1					1					1				
No fungal conidia/hyphal fragments noted	X					X					X				
Analyst Initials	BM					BM					BM				
Date Analyzed	09/25/26					09/25/26					09/25/26				
Expiration Date of Tape/Swab:	09/2028					09/2028					09/2028				

Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected.
Mod = Moderate; Num = Numerous

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Technical Manager: Becky Moran

GUIDELINES FOR DIRECT MICROSCOPIC EXAMINATION (DME) OF BULK, SWAB, AND TAPE SAMPLES

These guidelines are not intended for determination of health significance nor are they necessarily representative of unacceptable indoor environments.

Molds require a food source, moisture, and spore production to proliferate, removing any one of these factors can control fungal growth. However, because of their ubiquitous nature, spores can never be completely eliminated from an area.

FUNGAL PARTICLES
(hyphal fragments, spores, fruiting bodies)

RATING[1]	Fungal Particle Load per high power field (600X)	SIGNIFICANCE
Rare	<5%	Indicates a minimal amount of conidia (spores) and/or other fungal structures. Most normal indoor surfaces will show no to low fungal conidia/hyphal fragments. Generally, water indicator molds such as ***Stachybotrys*** or ***Chaetomium*** should be further investigated.
Few	5-25%	Indicates low amounts of settled conidia (spores). Typically, this amount is not consistent with active fungal growth, however, it may suggest an active source nearby, or that a surface has not been cleaned appropriately. The presence of hyphal fragments or fruiting structures may indicate a nearby source of contamination. Generally, the presence of moisture indicator molds (e.g., ***Stachybotrys*** or ***Chaetomium***) may suggest a chronic or acute water condition from sources such as roofs, plumbing leaks, increased humidity, etc.
Moderate	25-75%	Indicates a moderate to heavy amount of fungal contamination (conidia/spores). Generally, this category is indicative of a surface that is, or has been affected, by active fungal growth. The presence of fruiting structures or hyphal fragments may support the premise that fungal growth is on-going. However, the presence of moderate to numerous conidia/spores alone does not necessarily indicate the viability of the spores. Further investigation of the affected areas may be warranted.
Many	75-90%	
Numerous	>90%	Indicates that the sample area was highly contaminated with fungal conidia/spores and/or hyphal fragments. Samples in this category display an unusually high number of conidia/spores or other fungal structures in each microscopic field.

[1] This scale of relative abundance is affected by the size of the sampled area. If very large areas are sampled with a swab for example, this may cause the results to be skewed into a lower or higher category. These results correspond roughly to a sample area measuring one square inch.

SKIN CELL RATING

SKIN CELL RATING	Skin Cell Load per high power field (600 X)
0	No skin cells present
1	<5%
2	5-25%
3	25-75%
4	75-90%
5	>90%

DEBRIS RATING

DEBRIS RATING	Debris Load per high power field (600 X)	SIGNIFICANCE
0	No debris present	Sample may be a blank sample or from a very clean or remediated area.
1	<5%	Minimal amount of debris is observed.
2	5-25%	Low amount of debris is observed.
3	25-75%	Moderate amount of debris is observed, accuracy of the analysis is likely affected.
4	75-90%	High amount of debris is observed, accuracy of the analysis is likely affected.
5	>90%	Field of view is mostly obscured. Recollect sample.

End of Report

U.S. MICRO SOLUTIONS INC.
AN ENVIRONMENTAL MICROBIOLOGY LAB

302 Unity Plaza
Latrobe, PA 15650
P: 724.853.4047
F: 724.853.4049
labcom@usmslab.com

LABORATORY TEST REQUEST – CHAIN OF CUSTODY

Customer Name: Keystone Environmental Health and Safety Services	Phone #: (814) 934-3680	FAX #:	
Address: 111 12th Avenue	City: Altoona	State: PA	Zip: 16601
Attention To: Matt Farabaugh	E-Mail: matt.farabaugh@keystoneehs.com		
Sample Obtained By: Matt Farabaugh	Results: ☐ FAX ☑ E-Mail	PO#	Proposal #
Project Name/Number: Conemaugh Township Elementary - Final Clearance			

Turn-Around-Time: (Spore Trap & DME Only)*

Standard (48-72 hr)	Next Day (24 hr, M-F)	Same Day (6 hr, M-F)	3-Hour (M-F)	Saturday
☐	☐	☐	☒	☐

Comments:

Media Manufacturer: Lot #: Expiration:

Sample #	Sample Date / Time	Sample Code	Analysis Code	Sample Location & Description	Sample Volume/Area
TC-1	9/25/26 09:39	T	DME	Rm # 106 - Library - wooden Book Shelf	
TC-2	09:40	T	DME	Rm # 106 - Library - Wooden Book shelf	
TC-3	0942	T	DME	Rm # 106 - Library - Hard Back Book	
TC-4	0943	T	DME	Rm # 106 - Library - Soft Back Book	
TC-5	0944	T	DME	Rm # 106 - Library - Top of Student Table	
TC-6	0945	T	DME	Rm # 106 - library - Green Counter Top	
TC-7	0948	T	DME	Rm # 106 - Library - Student Chair	
TC-8	10:34	T	DME	Rm # 137 - Bottom of Student Table	

Relinquished By (Customer MUST sign): Matt F2 — Date & Time: 9/25/26 11:55

Received By – Lab Use Only: Jessica — Date & Time: 09/25/26 1245 — Lab #: 09-00152826

Sample Code	
A	Air Plate
B	Bulk
ST	Spore Trap
S	Swab
W	Water
T	Tape
P	Paddle
O	Other

09/2028

Analysis Code

DME	Direct Microscopic Exam	HPC-R	Heterotrophic Plate Count – Instrument/Reagent Water
SPT	Spore Trap ☐ Allergenco-D ☐ AirOCell ☐ M5	HPC-E	Heterotrophic Plate Count – Environmental Water
COL	Presence/absence of *E. coli*, coliforms	HPC-D	Heterotrophic Plate Count – Dental Water
FUNG	Fungal Culture – Counts w/ Identification	MYC	Mycobacteria Culture (nontuberculous)
BACT	Bacterial Culture – Counts w/ Identification	DUO	Duodenoscope Culture
BACT24	Bacterial Culture (24 hr) - Counts w/ presence/absence of gram-negative bacteria	HCU	Heater/Cooler Water Culture *includes nontuberculous mycobacteria and HPC*
SS24	Sewage Screen (24 hr)- Presence/absence *E. coli, coliforms, enterococci (fecal streptococci)*	OPP	Opportunistic Pathogen Panel (or separate) PSA - *Pseudomonas aeruginosa* Culture BURK - *Burkholderia cepacia* complex Culture ACIN - *Acinetobacter* Culture
BART	Microbially Influenced Corrosion Panel *Iron-related, sulfate-reducing, slime-forming bacteria*		

*All samples received after 1:00 p.m. Monday-Friday will be considered received the NEXT business day. Same Day and Next Day samples received on Saturday will be reported on Monday and Tuesday, respectively.

U.S. MICRO SOLUTIONS INC.
AN ENVIRONMENTAL MICROBIOLOGY LAB

302 Unity Plaza
Latrobe, PA 15650
P: 724.853.4047
F: 724.853.4049
labcom@usmslab.com

LABORATORY TEST REQUEST – CHAIN OF CUSTODY

Customer Name: Keystone Environmental | Project Name/Number: Conemaugh Township Elementary Final Clearance

Sample #	Sample Date / Time		Sample Code	Analysis Code	Sample Location & Description	Sample Volume/Area
TC-9	9/25/26	10:45	T	PME	Room # 171 - Shelving	

Received By – Lab Use Only	Date & Time	Lab #
Jessica	09/25/26 12:45	09-00115282-2ce

APPENDIX D

PHOTOGRAPHS

Photograph 1—View of Conemaugh Township Elementary School located at 1516 Tire Hill Road, Johnstown PA.

Photograph 2—View of sample location S-25 (Uni-Vent) located in room #124.

SOURCE:

Limited Microbial Investigation

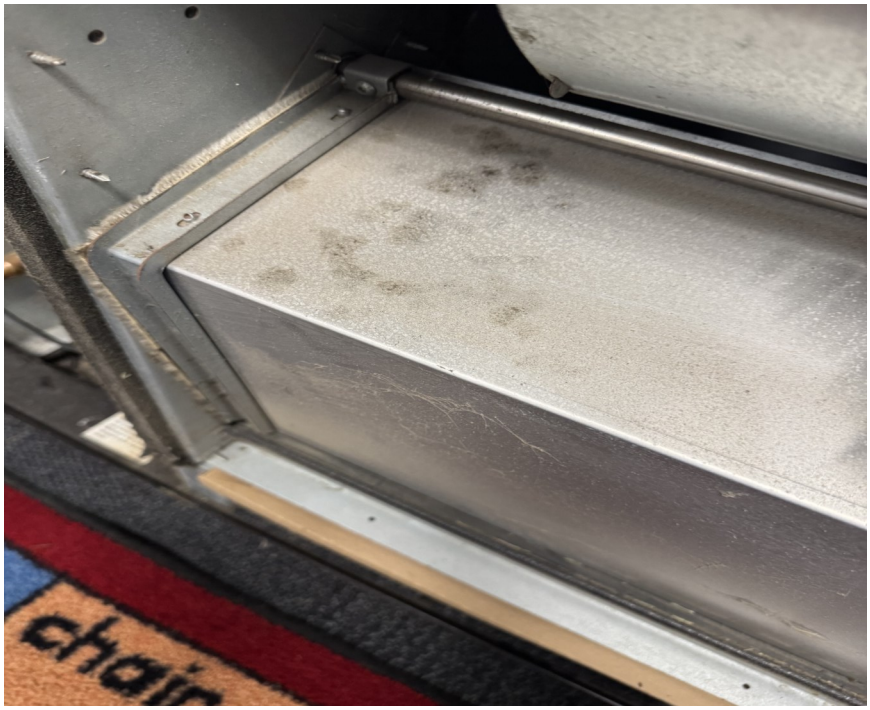
Photographs taken by: Darin Tornatore

Date: September 20, 2026

KEYSTONE
ENVIRONMENTAL HEALTH AND SAFETY SERVICES INC.

Conemaugh Township Elementary School
1516 Tire Hill Road
Johnstown, PA 15905

Photograph 3—View of sample location S-26 (Uni-Vent) located in room #169.



Photograph 4—View of sample location S-27 (Uni-Vent) located in room #136.

SOURCE:

Limited Microbial Investigation

Photographs taken by: Darin Tornatore

Date: September 20, 2026

KEYSTONE ENVIRONMENTAL HEALTH AND SAFETY SERVICES INC.

Conemaugh Township Elementary School
1516 Tire Hill Road
Johnstown, PA 15905

Photograph 5—View of sample location S-28 (wooden book shelf) located in room #106 (library).

Photograph 6—View of sample location S-29 (wooden book shelf) located in room #106 (library).

SOURCE:

Limited Microbial Investigation

Photographs taken by: Darin Tornatore

Date: September 20, 2026

KEYSTONE
ENVIRONMENTAL HEALTH AND SAFETY SERVICES INC.

Conemaugh Township Elementary School
1516 Tire Hill Road
Johnstown, PA 15905

APPENDIX E

INITIAL & POST REMEDIAL INVESTIGATIONS - RELATIVE HUMIDITY AND GRAINS PER POUND FIELD DATA

CONEMAUGH TOWNSHIP SCHOOL DISTRICT

CONEMAUGH TOWNSHIP ELEMENTARY SCHOOL

INITIAL AIR QUALITY DATA

FLIR MR176 Measurements Date 9/19/26		
LOCATION	**RELATIVE HUMIDITY %RH**	**MIX GPP**
Room #118	62	84
Room #119	58	79
Room #117	62	85
Room #120	61	83
Room #116	63	87
Room #121	62	83
Room #127	63	89
Room #122	62	87
Room #126	63	90
Room #123	63	89
Room #125	63	90
Room #124	64	90
Room #115	60	87
Room #128	57	82
Room #114	61	87
Room #130	65	85
Room #111	61	87
Room #112	59	85
Room #110	59	84
Room #113	58	84
Room #108 / #109	60	85
Cafeteria	60	84
Room #106	62	85
Room #170	62	85
Room #169	63	87
Room #171	61	83
Room #168	61	85
Room #172	61	85
Room #167	61	83
Room #173	62	84
Room #165	63	85
Room #174	62	83

Room #163	62	83
Room #141	61	82
Room #164	63	83
Room #140	62	82
Stage	63	83
Room #139	63	85
Room #136	64	85
Room #138	63	84
Room #137	63	84
Room #135	63	84
Room #142	63	84
Gymnasium	61	80
Outdoor Average	70.8	73.2

CONEMAUGH TOWNSHIP SCHOOL DISTRICT

CONEMAUGH TOWNSHIP ELEMENTARY SCHOOL

POST REMEDIAL AIR QUALITY DATA

FLIR MR176 Measurements Date 9/25/26					
TIME	**LOCATION**	**TEMP °F**	**RELATIVE HUMIDITY %RH**	**DEW POINT °F**	**MIX GPP**
9:39	Room #106 - Library	65.0	49.7	46.2	46.2
10:15	Room #130	67.4	51.8	48.5	50.0
10:34	Room #137	74.6	44.8	51.8	56.7
10:45	Room #171	77.4	41.3	51.5	56.0
10:56	Room #163	74.4	44.3	51.4	56.4
11:10	Outdoor Comparison	64.0	49.0	49.0	52.0