

## **ENVIRONMENTAL ASSESSMENT REPORT**



## OKEMOS PUBLIC MONTERSSORI AT CENTRAL 4406 OKEMOS ROAD OKEMOS, MICHIGAN 48864

PREPARED FOR:

OKEMOS PUBLIC SCHOOLS

4406 OKEMOS ROAD

OKEMOS, MICHIGAN 48864

ATTENTION: MR. JOHN HOOD

PREPARED BY:

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**ERG PROJECT NO.: 230029** 

PROJECT DATES: JANUARY 2-5, 29 AND 31, 2024

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## **EXECUTIVE SUMMARY** 1.0

ERG was retained by Okemos Public Schools to conduct an Environmental Assessment at the Okemos Public Montessori at Central, Okemos, Michigan. The assessment was conducted from January 2-5, and on January 29, and January 31, 2024. The assessment was performed by Kristin Peterson and Kailey Wahrer. Samples were collected for the following: Airborne (asbestos) fibers, dustborne (asbestos) fibers, lead in air, lead in dust, mold in air and mold in dust. Additionally, swab samples were collected for bacterial analysis in one room.

Mold in air samples collected throughout the building and were evaluated against a set of criteria known as the Baxter Criteria and were reflective of clean conditions, except for a sample collected in the hallway outside the Staff Work Room. Other parameters were also evaluated (pollen, other particulate) and were within established limits and are discussed in detail later in the report.

Mold in dust samples were evaluated on two criteria, mold being present in a concentration of approximately 1% or less and the absence of highly allergenic spores. Eleven areas were identified that did not meet one or both of those criteria. Corrective actions have been recommended and many have already been undertaken.

Airborne (Asbestos) Fibers - The sample analysis indicated that the airborne fiber concentrations within the building were below 0.005 fibers per cubic centimeter of air of air (f/cc). This fiber concentration is below the EPA AHERA requirement of 0.01 f/cc following the removal of friable ACM.

Dustborne (Asbestos) Fibers - No asbestos was found in the collected dust samples.

Lead in Air - No lead was found in the collected air samples.

Lead in Dust - Lead was found in two of the collected dust samples. Specifically, the sample taken in the Staff Lounge, where lead levels were present at 6.3 micrograms of lead per square foot of surface area (ug/ft<sup>2</sup>) and from the sample taken in the Childcare Room (Room 135), lead levels were present at 11 ug/ft<sup>2</sup>. No lead was detected in the dust in any of the other sample locations.

Bacteria Swabs - No bacteria were found in the collected swab samples in Room 106.

## 2.0 INTRODUCTION AND BACKGROUND

## 2.1 INTRODUCTION

Environmental Resources Group, LLC (ERG) was retained by the Okemos Public Schools to conduct an Environmental Assessment within Okemos Public Montessori at Central, 4406 Okemos Road, Okemos, Michigan. The specific tasks of the evaluation were as follows:

- Conduct visual and olfactory observations in all rooms in the building.
- Conduct bioaerosol (air) sampling for mold, pollen and other particulate using Zefon Air-O-Cell cassettes in all rooms in the building and out-of-doors (where conditions permit).
- Conduct dust sampling for mold, pollen, and other particulates using Zefon Air-O-Cell cassette or IMS Tape Lift Samplers in each room in the building.
- Conduct air sampling for airborne (asbestos) fibers in all rooms of the building.
- Conduct asbestos dust sampling in all rooms of the building.
- Conduct lead in air sampling in all rooms of the building.
- Conduct lead wipe sampling in all rooms of the building,
- Conduct bacteria swab sampling in one location in the building.
- Collect digital photographs of current conditions and of sampling locations for lead wipe sampling and indoor conditions.

Kristin Peterson and Kailey Wahrer conducted the evaluation from January 2 through January 5, 2024. Additional evaluation and sampling were conducted on January 29 and 31, 2024. The evaluation was conducted to determine indoor air quality in the building following staff concerns of mold, asbestos, lead and bacteria. Although the goal was to evaluate all rooms, some rooms were not evaluated due to locked doors (the boiler room), inaccessibility due to stored materials (bathroom and shower room in the old nurse's office), due to small rooms being within other rooms, or the small, isolated nature of the space (single free-standing bathrooms).

## 2.2 BACKGROUND INFORMATION

The school part of the building is a single-story building of steel and masonry construction with a flat, membrane roof. The Administration Building (which houses the daycare in Room 135, cafeteria, and cafeteria service line) is a 2-story building. The school building was built in 1948 with additions in 1963 and 1988. The school building occupies approximately 68,000 square feet. The Administration Building was

built in approximately 1923 and occupies approximately 105,000 square feet. The school has an unused perimeter service tunnel with abandoned steam and condensate pipes.

The school building is heated by unit ventilators and some rooms are cooled by ceiling mounted air conditioning units. The Gym is served by a pair of ventilation systems. The Administration Building is served by a heating, ventilating, and air conditioning (HVAC) system with ducted supply and return air.

The building has had a history of roof and other leaks (unit ventilators, toilet overflow). The building recently underwent renovation of three bathrooms (Summer 2023), other miscellaneous improvements and the addition of a new Main Office Area and secure entry (that construction was very near completion at the time of this evaluation).

Staff have expressed concerns about asbestos and lead in the air and dust due to recent construction within the building. Additional concerns were expressed for mold in air and dust given the history of roof and other leaks. A report of a toilet overflow led ERG to test for bacteria at that location.

## 2.3 EVALUATION EQUIPMENT AND METHODS

Kristin Peterson, a trained investigator with over 25 years of environmental experience, made visual and olfactory observations and collected the mold in air and dust samples and assisted with other sampling. Kailey Wahrer, a trained investigator with one year of experience, collected asbestos in air, asbestos in dust, and lead in air and lead dust samples. Ms. Wahrer was assisted, as needed, by Ms. Peterson.

Bioaerosol (mold in air) and microvacuum (mold in settled dust) samples were collected using Air-O-Cell cassettes, tubing, and a high-volume vacuum pump. The vacuum pump was calibrated prior to air sample collection. All bioaerosol samples were collected and analyzed in the ERG Indoor Air Quality Laboratory pursuant to the requirements of modified ASTM International Standard D7391.

Some mold in dust samples were collected using IMS Tape Lift Samplers. The samples were analyzed in the ERG Indoor Air Quality Laboratory pursuant to the requirements of modified ASTM International Standard D7391.

The asbestos (airborne fibers) air samples were collected and analyzed pursuant to the requirements of the modified National Institute for Occupational Safety and Health (NIOSH) 7400 Method, Issue #3. The sample analysis was performed in the ERG Phase Contrast Microscopy (PCM) laboratory by a NIOSH 582 or equivalently trained ERG microscopist. The ERG PCM laboratory is a proficient participant in the American Industrial Hygiene Association (AIHA) Proficiency Analytical Testing (PAT) Program (Lab Code 101009). A copy of the proficiency test summary appears in Appendix A.

Asbestos in dust samples were collected using 25 millimeter diameter mixed cellulose ester filters in a carbon impregnated cassette using the microvacuum sampling technique described by Millete and Hayes in Settled Asbestos in Dust Sampling and Analysis. Samples were collected using a 4" square cardstock template on dusty surfaces. Each dusty surface was vacuumed within the surface area of the template for 2 minutes. All asbestos dust samples were submitted to ERG for asbestos analysis by Polarized Light Microscopy (PLM) with dispersion staining. The dust samples were analyzed using EPA Method 600/R-93/116. The ERG PLM Laboratory maintains current National Voluntary Laboratory Accreditation Program (NVLAP) accreditation (Lab Code 101510-0). A copy of the ERG NVLAP Scope and Certificate of accreditation can be found in Appendix B.

The lead in air sampling was conducted using 37-millimeter diameter mixed cellulose ester filters with cellulose backup pads within a plastic cassette, consistent with the requirements of the NIOSH 7303 method. During sampling the flow rate was increased from that described in the method to allow the laboratory to achieve a lower reporting limit. The samples were submitted to Metiri Group in Holt, Michigan for analysis. The samples were analyzed for lead using the modified NIOSH Method 7303.

Lead in dust samples were collected using ghost wipes (commercially available, premoisten wipe pads) and 1 square foot cardstock templates. These samples were collected pursuant to the requirements of the US Department of Housing and Urban Development (HUD) protocol and were analyzed using the modified NIOSH Method 7303. These samples were also submitted to Metiri Group. Metiri Group maintains National Environmental Laboratory Accreditation Conference program (NELAC) accreditation. Their accreditation number is T104704247-23-17.

Bacteria samples were collected using sterile swab samples. The samples were collected and submitted to EMSL, Cinnaminson, New Jersey, for analysis using Methods SM9222B, 9222D, and 9230C and ESML Method M013. These methods identify four bacteria commonly found in feces. ESML maintains AIHA, Environmental Microbiology Lab Accreditation program accreditation (Lab Code 100194.)

Digital photographs were collected using a digital camera.

## 3.0 VISUAL AND OLFACTORY OBSERVATIONS

During the ERG evaluation, visual and olfactory observations were made by the inspector(s). A complete list of observations made throughout the building appears in Appendix C. A summary of observations in select areas of the building follows:

## **Observations**

- Deodorizers or air freshener-like odors were observed in Rooms 110, 111, 118, 122, and 125. A chemical and urine odor was observed in the Gym and the upper-level Childcare.
- Carpets were observed to be stained in most of the carpeted rooms.
- Water-stained ceiling tiles were observed in most of the rooms.
- Visible mold was found in Rooms 124B and the Room behind Room 124B (124E) and 135.
- The unit ventilator grilles and/or interior of unit ventilator cabinets were visibly dusty in Rooms 103, 112, 120, 124B, 127, and 131.
- The unit ventilators were obstructed in the Room behind Room 124B (Room 124E), Room 129, and Room 131.
- The paint was observed to be peeling in Rooms 105, 106, 107, 108, 109, 111, 115, 116, 119, 121, Room behind Room 124B (124E), 124D, 124C, 129, Gym, 130, Cafeteria, and 135.
- Dirty supply and return air grilles were observed in Rooms 107, 112, 124D, 127, 129, Cafeteria, and 135.
- Mouse droppings were observed above the drop ceiling tile in the Room Behind 124B (124E).
- Bubbling paint was observed on the back wall near the windows in the Cafeteria.

## RESULTS OF TESTING 4.0

All samples were collected by Kristin Peterson and/or Kailey Wahrer. During sampling, the building was occupied by a small number of school staff, a small number of tradespeople and the investigators. No students were observed in the building.

A log with sample description information and the results of bioaerosol (air), micro vacuum (settled dust), tape, and other sample data appear in Appendix D and are summarized below.

Mold in Air - The results of indoor bioaerosol (air) sample analysis indicated total airborne spore concentrations between 0 and 320 structures per cubic meter of air (s/m<sup>3</sup>). Pollen was detected indoors between 0 and 60 and other particulate was recorded between 100 and 5,860 s/m³. The single out-ofdoors sample collected on the only day temperatures were above freezing had a spore concentration of 60 s/m<sup>3</sup>, pollen was not detected, and other particulate was recorded at 2,400 s/m<sup>3</sup>.

Mold in dust-The sample results ranged from no detected mold to 5% mold in the settled dust samples.

Tape samples were collected on areas of visible mold in select rooms. These were Room 124B, Room behind 124B (124E) and Room 135.

Select digital photographs from the mold testing appear in Appendix E. Appendix F has been reserved.

Airborne (Asbestos) Fibers - The sample analysis indicated that the airborne fiber concentrations within the building were below 0.005 fibers per cubic centimeter of air (f/cc). This fiber concentration is below the Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA) requirement of 0.01 f/cc following the removal of friable ACM.

Dustborne (Asbestos) Fibers - No asbestos was found in the collected dust samples.

Lead in Air - No lead was found in the collected air samples.

Lead in Dust - Lead was found in two of the collected dust samples. Specifically, from the sample collected in the Staff Lounge, near the entry door on the tile floor where lead was detected at 6.3 ug/ft<sup>2</sup> and from the sample collected in the Childcare Room (Room 135), on the tile floor near the refrigerator where lead was detected at 11 ug/ft<sup>2</sup>. No lead was detected in the dust in any of the other sample locations.

Bacteria Swabs - No bacteria were found in the collected swab samples in Room 106.

## **CONCLUSIONS** 5.0

Based upon reports by others, the visual and olfactory observations made by the investigator and the results of sample analysis, the following conclusions were drawn:

Test results were indicative of conditions at the time of the investigation and may not represent conditions at other times.

## 5.1 **BIOAEROSOL SAMPLE RESULTS**

Airborne mold concentrations in "clean" commercial buildings generally total 2,650 s/m<sup>3</sup> or less with spores of the genera Aspergillus and/or Penicillium making up not more than 750 s/m<sup>3</sup> and spores of the groups Ascospores and Basidiospores together making up not more than 900 s/m<sup>3</sup>. The total of all other spores should not exceed 1,000 s/m3 (Baxter, Journal of Occupational Environmental Hygiene, January 2005). Those limits are called the Baxter Criteria. Additionally, highly allergenic spores (i.e. - Pithomyces, Stemphyllium, Stachybotrys) should not be present in a statistically significant number (i.e. – a raw count of 10 or more spores). Airborne mold concentrations in the building at the times and locations of sampling were within the limits established as the Baxter Criteria and are indicative of "clean" conditions, except for the hallway outside Room 112 (Staff Work Room) which had a statistically reliable number of highly allergenic spores present. Additionally, indoor spore counts were more than 10 times lower than those out-ofdoors.

Indoor airborne pollen concentrations in "clean" air-conditioned buildings are generally below 30 s/m³. Individuals with pollen allergy may exhibit symptoms when pollen concentrations exceed approximately 50 s/m³, especially when grass or highly allergenic ragweed pollen are present. Pollen was detected in one of the collected indoor air samples at 60 s/m<sup>3</sup> (in Room 124B) but no highly allergic pollen (grass) was detected in the collected samples and ERG believes the amount of pollen detected is not significant.

Organic fibers such as cellulose (paper fibers) may be present in "clean" buildings in the range of 0 to 10,000 s/m<sup>3</sup>. These fibers are not known to cause illness or allergy at these levels, but might suggest inadequate housekeeping or poor ventilation, among other things. Cellulose concentrations were within the normal range (0 to 10,000 s/m<sup>3</sup>) in the collected air samples.

Inorganic fibers such as mineral wool or fiberglass (fibrous glass) may create dermal irritation when present in concentrations exceeding 1,000 s/m<sup>3</sup>. Fibrous glass was not detected in the collected air samples.

Synthetic fibers include polyester and Dacron and do not generally exceed 1,000 s/m<sup>3</sup>. The presence of elevated synthetic fiber concentrations suggests degrading synthetic fiber surfaces (clothing, carpet, upholstered furniture) and/or the need for improved housekeeping. Synthetic fibers were detected in some of the air samples collected in the building but were below the desired 1,000 s/m<sup>3</sup> threshold.

Mineral fibers, such as gypsum, generally do not exceed 1,000 s/m<sup>3</sup> and may be indicative of uncontrolled renovation or demolition. Mineral fibers were not detected in the collected air samples.

Opaque particles, including soot, fly ash, binders, copy toner, etc., generally do not exceed 5,000 s/m<sup>3</sup>. When indoor concentrations exceed 10,000 s/m<sup>3</sup>, attempts to identify the source of the particles and reduce their number should be made. The opaque particle concentrations did not exceed the 5,000 s/m<sup>3</sup> threshold in any collected air sample.

Insect fragments, including antennae, legs, wings, etc., should not be observed in "clean" indoor environments. Detectable quantities of insect fragments, including excrement, may cause allergic reactions in sensitive individuals and suggests the existence of current or past infestation or poor housekeeping. Insect fragments were not detected in the collected samples.

This analytical technique cannot differentiate spores of the genera Aspergillus/Penicillium, among others, due to their similar morphology. Additionally, some mold, pollen, yeast, bacteria, arthropods, and other airborne constituents may be present, but are not identifiable by this technique.

Mold was found in a concentration exceeding 1% in the settled dust samples collected from Rooms 103, 104, 106, 107, 116, 124B, 125, 130, and 131. Additionally, although mold was present in a concentration at or below 1%, highly allergenic spores were detected in the dust in Rooms 102, 105, 112, 115, 116, Library, and Main Office.

Visible mold was observed and was tested using tape lift samples from Rooms 124B, the Room behind 124B (124E) and in 135.

Elevated spores concentrations were found in the dust in the unit ventilators in Rooms 106 and 107.

Water-stained building materials were found in the inspected areas.

Stained carpet was found in various rooms. Water-stained ceiling tiles were found in several rooms including the Hallways.

Deodorizers or deodorizer-like odors were observed in the following Rooms 103, 110, 111, 118, 122, and 125. If air freshener odors were observed, air fresheners were presumed to be present. These devices liberate Volatile Organic Compounds (VOC's) into the air and can create respiratory distress and eye irritation for room occupants.

A hydrogen sulfide odor was observed in Room 109. This is like due to a dry floor drain or other trap.

Allergenic or highly allergenic spore concentrations were detected in the air sample collected in the hallway near Room 112, the Staff Work Room.

Dirty unit ventilator grilles were observed in Rooms 103, 112, 120, 124B, 127, and 131. The unit ventilators were obstructed in Rooms 124B, 127, and 129. Obstructing the air flow in the rooms does not allow the unit ventilator to work properly to provide air to room occupants.

Dirty supply air diffusers, return, and exhaust grilles were observed in Rooms 107, 112, 116, 127, 129, Upper-Level Childcare, Gym Office, and 135.

Bubbling paint was observed in the Cafeteria wall near the windows. The source of the bubbling paint was not determined during the evaluation.

Peeling paint was found in several of the inspected Rooms. Some of the paint chips were observed on the floor in Room 124C. Peeling paint should be stabilized.

The doorframe in Room 127 was unfinished.

## **5.2 ASBESTOS IN AIR RESULTS**

Airborne fiber concentrations throughout the Okemos Public Montessori were below 0.005 f/cc. A copy of the air sample data sheet and laboratory data appear in Appendix G.

## 5.3 ASBESTOS IN DUST RESULTS

No asbestos was detected in the collected dust samples. A copy of the dust collection sample data sheet and laboratory data appear in Appendix H.

## 5.4 LEAD IN AIR RESULTS

No lead was detected in the collected air samples. A copy of the sample data sheet and laboratory data appear in Appendix I.

## 5.5 LEAD IN DUST RESULTS

Lead was collected in two of the lead dust samples. One of those was collected in the Staff Lounge. The other was collected in Room 135. Lead was found above the limit of the 10 ug/ft<sup>2</sup> in Room 135. and below that limit in the Staff Lounge. The wipe sample data sheet and laboratory data appear in Appendix J.

## 5.6 BACTERIA SAMPLE RESULTS

No bacteria were found in the collected swab samples. A copy of the swab sample data sheet and the laboratory data appear in Appendix K.

Lastly, a floor plan sketch of the various sample locations (sampling as of 1/5/24) appears in Appendix M.

The above conclusions are based on the inspection results, observations made at the time of the inspection and information provided by others. Should new or revised information become available, ERG reserves the right to revise the report, modify or change the above conclusions and subsequent recommendations.

## 6.0 RECOMMENDATIONS

Based on the observations made by the investigators, the findings of this evaluation and the conclusions above, the following recommendations are offered:

- 1. Using the New York City Guidelines on Assessment and Remediation of Fungi in Indoor Environments, medium isolated areas, a copy of which appears in Appendix L, conduct the following in Room 124B and the Room behind 124B (124E):
  - a. Remove and dispose of the water-stained ceiling tile. Replace them with new tile.
  - b. Retain a mold remediation professional to clean and disinfect the moldy spots on the tectum roof deck with an EPA registered cleaning/disinfecting agent. Allow for the areas to dry. Apply a long-acting EPA registered biocidal paint. Allow the paint to dry.
  - c. Allow ERG to conduct a visual inspection. If no black staining remains, conduct mold in air clearance sampling.

In Room 135 conduct the following:

- a. Remove the new cove molding on the exterior wall and discard.
- b. Clean and disinfect the visibly moldy wall with an EPA registered cleaning/disinfecting agent with special attention to the mold behind the cove molding. Allow the area to dry. Apply an EPA registered long-acting biocidal paint and allow it to dry.
- c. Following the cleaning process, retain ERG staff to conduct a visual inspection of the cleaned wall surface.
- d. If the visual inspection finds no visible mold on the drywall, conduct mold in air clearance sampling.
- 2. In the hallway area across from the Work Room (Room 112) near the Bathroom, HEPA vacuum the carpet. Install a negative air machine to filter particulate from the air. Retest following cleaning and air filtration.
- 3. In the Staff Lounge and Room 135 where lead was found on the floor conduct the following:
  - a. Install barriers at the doors to the hallways. Install a negative air machine in each of the areas.
  - b. Clean the floor tile in Room 135 and the Staff Lounge using Interim Controls and lead trained professionals. HEPA vacuum the carpet in both rooms.
  - c. Conduct a lead-based paint inspection and risk assessment in Room 135 and the Staff Lounge following the use of Interim Controls to remove lead dust.
- 4. Clean and disinfect the carpets where mold was present above 1%, including in Rooms 103, 104, 106, 107, 116, 125, 130, and 131 with an EPA registered cleaning/sanitizing agent. Install fans to allow the carpet to be dried within 24 hours.
- 5. Because of elevated spore concentrations in the settled dust in the unit ventilator cabinets, clean by HEPA vacuuming and wet wiping the unit ventilator cabinet interiors in Rooms 106 and 107. Ensure that any dust generated by cleaning is contained or captured by a HEPA vacuum.
- 6. Due to the presence of dirt, clean the unit ventilators in Rooms 124B, 127, 120, 131, and 103.

- 7. Remove the materials in front of and on the unit ventilators in Rooms 124B, 127, and 129 to allow them to function properly.
- 8. Clean and disinfect the dirty supply air diffusers, return air or exhaust grilles in Rooms 116, 127, 129, 112, Upper-Level Childcare, 107, Gym Office, and 135.
- 9. Due to the presence of allergenic or highly allergenic spores, clean carpets and floor surfaces by HEPA vacuuming. Clean non-porous horizontal surfaces by wet wiping. Allow ERG to retest to determine that allergenic or highly allergenic spores have been removed.
- 10. Stabilize the peeling paint in Rooms 116, 119, 124B, 124D, 124C, 121, 120, Gym, 130, Library, 115, 105, 107, 105, 108, 109, and 135. HEPA vacuum the paint chips on the floor in Room 124C.
- 11. Remove and dispose of the water-stained and soot-stained drop ceiling tile throughout the building. Replace removed tile with new tile.
- 12. HEPA vacuum the mouse droppings above the ceiling tile in the room behind Room 124B (Room 124E). Consider contracting an exterminator to remove droppings and to install traps to remove the mice (if present).
- 13. Remove the deodorizers and deodorizers presumed to be present from the following Rooms 103, 110, 111, 116, 118, 122, and 125.
- 14. In Room 109 pour water down the dry trap in the bathroom and periodically inspect/ add water for odor control.
- 15. Conduct further investigation to determine the source of the bubbling paint on the wall near the windows in the Cafeteria.
- 16. Conduct further investigation to determine the source and the amount of mold in the exterior wall in Room 135.
- 17. Finish the door frame in Room 127.

This evaluation was conducted consistent with sound investigative principles and current industry standards. Information in this report was provided by other than ERG. The accuracy or correctness of that information was not confirmed or verified by ERG. For additional information, please review the attached data or call ERG.



## Kristin Peterson Senior Industrial Hygienist

Kailey Walun

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# APPENDIX A ERG PAT Program Lab Proficiency Report



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Report Issue Date: 11/15/2023

IHPAT Round 235
Proficiency Testing Performance for Participant ID: PAT-101009
ERG-Lansing
3125 Sovereign Drive, Suite B
Lansing, MI 48911

This report contains your organization's IHPAT Proficiency Analytical Testing results for IHPAT Round 235. It is the participant's responsibility to thoroughly review the information in this final report and to immediately contact the AIHA Proficiency Analytical Testing Programs, in writing, if any errors are found.

## **IHPAT Results**

The final report is comprised of two sections relating to IHPAT Round 235. The first section contains your organization's results listed per analyte, per sample. The second section contains your current performance and performance from the two previous rounds, respectively (where applicable). Summary results for all participants for IHPAT Round 235 are located in a separate report.

## Testing Results for IHPAT Round 235

This part of the report contains your organization's results listed per analyte, per sample.

Contaminant	Unit	#	Result	Ref. Value	Lower Limit	Upper Limit	z-Score	Rating
	f/mm²	1	389	319	170	516	1.2	A
. 1 (4.07)	f/mm²	2	573	378	214	588	3.1	A
Asbestos (ASB)	f/mm²	3	297	202	99	342	2.4	A
	f/mm²	4	101	88	52	133	0.9	A

## Statistical Analysis Interpretation Note:

Reference value is the mean of the reference group.

Lower limit = reference value - 3 standard deviations; Upper limit = reference value + 3 standard deviations

z-Score = (reported result - reference value)/standard deviation. Note: z-Scores indicate how far a particular score is away from the mean.A - Acceptable\*
Analysis; U - Unacceptable Analysis; E - Excused Absence

Fiber data are positively skewed therefore transformations are used to obtain approximately normal distributions. Both the assigned values and acceptance limits are based on consensus of the reference group.

\*The acceptability of reported results is based on upper and lower acceptance limits. A reported result may appear acceptable/unacceptable according to z-Score, but be identified as an outlier based upon the acceptance limits. Any non-participation or non-reporting of PAT data will result in unacceptable results (see PAT Programs Participation Policies, Section 2.1.6.2.).

Measurement uncertainty of any assigned value is also available on the respective certificate of analysis for the round.

Technical Comment: None

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## Overall Performance Summary Concluding with IHPAT Round 235

The following table contains your organization's current and two previous test rounds performance respectively (where applicable). For more information in

regard to the determination of proficiency, please visit: www.aihapat.org.

Analyte Class	Round	Round Score	Round Performance	Proficiency Status - Three Round Score	
	233	4/4	PASS		
Asbestos	234	4/4	PASS		
	235	4/4	PASS	PROFICIENT	

## **Interpretation Notes:**

The denominators represent the total number of samples analyzed. The numerators represent the number of acceptable results.

Pass: Round Score greater than or equal to 75%

Fail: Round Score less than 75%

P - Proficient; NP - Non-proficient; I - Indeterminate (not enough rounds to determine proficiency)

A participant is rated proficient for the applicable IHPAT analyte group if the participant has a passing score for the applicable IHPAT analyte group in two (2) of the last three (3) consecutive PT rounds. A participant is rated non-proficient for the applicable PT analyte group if the participant has failing scores for the associated PT analyte group in two (2) of the last three (3) consecutive PT rounds.

Additional information on the following items are available in the IHPAT Scheme Plan:

Procedures used to statistically analyze the data, establish the assigned value and standard deviation for proficiency assessment, or other criteria for evaluation; details of the metrological traceability and measurement uncertainty of the assigned value; information about design and implementation of PT scheme. The Industrial Hygiene Scheme Plan is available in the PAT Portal. Measurement uncertainty of any assigned value is also available on the respective certificate of analysis for the round.

Participants shall not describe their proficiency status in a manner that implies accreditation, certification or variations thereof. PAT results pertain only to the participant organization at the location listed on this results report. AIHA PAT Programs makes every effort to ensure that individual participant results are kept confidential and are not made public. Round results are only released to the participant and those entities requiring this information for accreditation, regulatory and contract purposes. New participants are made aware of the arrangement in advance of participation and consent is sought prior to the release of records for participants. PAT reports may not be reproduced or distributed unless copied in its entirety.

IHPAT samples are generated, verified, packaged, and shipped by RTI International under contract with AIHA Proficiency Analytical Testing Programs. Unless otherwise noted, sample homogeneity and stability criteria were satisfied for all samples.

Authorized by: David Clawson Senior Manager, Technical and Quality **AIHA PAT Programs** dclawson@aiha.org

# APPENDIX B ERG PLM Lab NVLAP Scope and Certification of Accreditation



# United States Department of Commerce National Institute of Standards and Technology



# Certificate of Accreditation to ISO/IEC 17025:2017

**NVLAP LAB CODE: 101510-0** 

**Environmental Resources Group (ERG)** 

Lansing, MI

is accredited by the National Voluntary Laboratory Accreditation Program for specific services. listed on the Scope of Accreditation, for:

# **Asbestos Fiber Analysis**

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2024-01-01 through 2024-12-31

Effective Dates



For the National Voluntary Laboratory Accreditation Program





## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

## **Environmental Resources Group (ERG)**

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## **ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 101510-0** 

## **Bulk Asbestos Analysis**

<u>Code</u>	Description

18/A01 EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of

Asbestos in Bulk Insulation Samples

18/A03 EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

# APPENDIX C Summary of Observations





## The Okemos Public Montessori at Central Summary of Building Conditions January 2-5, 2024

## Staff Room 123

- No unusual odors were observed upon entry.
- The carpet was stained. No odors were observed in the carpet.
- The roof decking above the drop ceiling tile was water stained and no mold was observed.
- Water-stained ceiling tiles were observed. No mold growth was observed.
- Water stains were observed on the window frame. No mold was observed.
- The unit ventilator was clean and unobstructed.
- The overall level of dust was low.

## Room 116-Ms. Jennifer

- No unusual odors were observed upon entry.
- The carpet was stained. No odors were observed in the carpet.
- Water stains were observed on 3 of the 4 supply air diffusers in the room. Water-stained drop ceiling tiles were observed. No mold growth was observed.
- Paint was observed to be peeling on the door frame to the door to the library.
- The unit ventilator was clean and unobstructed.
- A 12" x 12" spline ceiling tile was observed above the ceiling tile.
- The overall level of dust was low.

## Room 117-Ms. Rachelle's

- No unusual odors were observed.
- The carpet was stained near the entry and the cabinet. No odors were observed in the carpet.
- No water-stained ceiling tiles were observed.
- The unit ventilator was clean and unobstructed.
- The overall level of dust was low.

## Room 118 Ms. Erin

- A deodorizer odor was observed upon entry.
- The carpet was stained. No odors were observed in the carpet.
- Water-stained ceiling tiles were observed. No mold growth was observed.
- Water stains were observed on the 12" x 12" ceiling tile above the drop ceiling tile. No mold growth was observed.
- The unit ventilator was clean and unobstructed.
- The overall level of dust was low.



## Room 119 Ms. Holly

- No unusual odors were observed upon entry. No odors were observed in the metal cabinet.
- The carpet was stained. No odors were observed in the carpet. The color of the carpet was faded at the unit ventilator.
- The air grille in the cabinet was observed to be sealed with white duct tape.
- The paint was observed to be peeling on the closet door.
- The unit ventilator was clean and unobstructed.
- The overall level of dust was low.

## Women's Bathroom near 119

- No unusual odors were observed upon entry.
- No water staining or mold growth were observed.
- The overall level of dust was low.

## Men's Bathroom near 119

- No unusual odors were observed upon entry.
- No water staining or mold growth were observed.
- The overall level of dust was low.

## Room 124B Ms. Rebecca

- No unusual odors were observed upon entry.
- Water-stained ceiling tiles were observed (3 tile). The gridwork and vents were observed to be rusted.
- The tectum roof deck above the drop ceiling tile was water stained. Black staining (assumed to be mold) was observed in several locations (totaling less than 4 s.f.).
- The unit ventilator grilles were slightly dirty but were unobstructed.
- The overall level of dust was low.

## **Room Behind Room 124B**

- No unusual odors were observed upon entry.
- Water-stained ceiling tiles were observed mostly at the exterior wall. Black stains (assumed to be mold) were observed on the tectum roof deck above the drop tile ceiling (approx. 3 s.f. of mold was observed).
- Mouse droppings were observed above the ceiling tile near the exterior wall.
- The unit ventilator was clean, but slightly obstructed by materials on it.
- Paint was observed to be peeling on the door.
- The overall level of dust was low.



## Room 124D

- No unusual odors were observed upon entry.
- No odors were observed in the bathroom.
- Water-stained ceiling tiles (6 ct.) were observed. No mold growth or musty odors were observed. The roof decking was water stained; no mold growth was observed.
- Water marks were observed on the vinyl flooring at the cabinet near the bathroom.
- Paint was observed to be peeling on the wall and door frames.
- The exhaust grille was rusted.
- The unit ventilator was clean and unobstructed.
- The overall level of dust was low.

## Room 124C

- No unusual odors were observed upon entry.
- Water-stained ceiling tiles were observed. The roof deck was water stained. No mold growth was observed.
- The paint was observed to be peeling on the door. Paint debris was observed on the floor.
- The radiant heater was clean.
- The overall level of dust was low.

## Hallway off 124

- No unusual odors were observed.
- Water-stained ceiling tile was observed at the pressure-relief grille. The roof decking was stained. No mold growth was observed.
- The overall level of dust was low.

## **Room 125**

- An odor of glue was observed upon entry. A plug-in air freshener was observed.
- The carpet was stained. No odors were observed in the carpet.
- Damaged ceiling plaster was observed.
- The radiant heater was observed.
- The overall level of dust was low.

## Room 126 Peace Room

- No odors were observed upon entry.
- The carpet had been removed and R-dex had been applied to the floor, sealing the floor and pipe openings, and providing a smooth surface for future flooring.
- A drain was observed in the floor, but it had been covered by R-dex.
- Water-stained spline ceiling tile was observed. No mold growth was observed.



• The overall level of dust was low.

## Room 127 Ms. Erin

- No odors were observed upon entry.
- The ceiling tile was observed to be water stained. No mold growth was observed.
- The unit ventilator was clean but slightly obstructed.
- The return air grille in the ceiling was slightly dirty.
- The frame of the door leading out of doors had not been finished/trimmed.
- The overall level of dust was low.

## Room 129 Ms. Christine

- No unusual odors were observed.
- The new carpet had a stain. No odors were observed on the carpet.
- The return air grille was slightly dirty.
- A few water-stained ceiling tiles were observed. No mold growth was observed.
- The unit ventilator was clean. A sheet was observed to be hanging from the ceiling almost to the floor in front of the unit ventilator.
- The overall level of dust was low.

## **Room 128**

- No unusual odors were observed upon entry.
- The carpet was not stained.
- Water-stained drop ceiling tiles were observed. No mold growth was observed.
- The diffusers were observed to be clean.
- The overall level of dust was low.

## Room 122 SSA

- A floral odor (deodorizer) was observed.
- Two water-stained ceiling tiles were observed. No mold growth was observed.
- A hole was observed in the decking above the drop ceiling tile and plaster ceiling.
- The overall level of dust was low.

## Room 121 Ms. Kelly

- No unusual odors were observed upon entry.
- The carpet was stained. No odors were observed in the carpet.
- A few water-stained ceiling tiles were observed. No mold growth was observed.
- The paint was cracking on the bulletin board. Paint was peeling on the door to the metal cabinet.



- The unit ventilator was clean and unobstructed.
- The overall level of dust was low.

## Room 120 Ms. Mary

- No unusual odors were observed upon entry.
- The carpet squares were stained. No odors were observed in the carpet.
- A few water-stained ceiling tiles were observed. No mold growth was observed.
- The unit ventilator was slightly dirty and was unobstructed.
- Paint was observed on the wall cabinet and on the metal door to the closet.
- The overall level of dust was low.

## Hallway

- No unusual odors were observed.
- The carpet was stained. No odors were observed in the carpet.
- Water-stained ceiling tiles were observed. Water stains were observed in the light near the Peace Room. No mold growth was observed.

## **Room 112 Work Room and Bathroom**

- No unusual odors were observed.
- The carpet was stained. No odors were observed in the carpet.
- The grilles in the ceiling were dirty.
- Damaged plaster ceiling was observed in the area.
- Stored material was observed in some of the area.
- The exhaust grilles in the bathroom were dirty.

## <u>Gym</u>

- An odor of chemical and urine were observed upon entry.
- No water staining or mold was observed.
- The paint was observed to be peeling on the doors.
- The overall level of dust was low.
- During the 1/29/24 site visit, the chemical and urine odor was not observed.

## **Upper Level Childcare**

- An odor of chemical and urine was observed upon entry.
- The carpet was stained. No odors were observed in the carpet.
- The exhaust vent grilles were observed to be dirty.
- The overall level of dust was low.



## Room 131 Art Room

- No unusual odors were observed upon entry.
- The roof decking above the drop ceiling tile was stained. No mold growth was observed.
- Water marks were observed on the exterior wall near the unit ventilator. No mold growth was observed.
- The unit ventilator was slightly dirty but was not obstructed.
- The overall level of dust was low.

## Room 130 Music

- No unusual odors were observed. No odors were observed above the drop ceiling tile.
- No water staining or mold growth were observed.
- Peeling paint was observed near the door.
- The unit ventilator was clean and unobstructed.
- The carpet was stained. No odors were observed in the carpet.
- The overall level of dust was low.

## **Library**

- No unusual odors were observed.
- The carpet was stained, no odors were observed in the carpet.
- The paint was observed to be peeling on the door.
- The unit ventilator was clean and unobstructed.
- A few water-stained ceiling tiles were observed. No mold growth was observed.
- The overall level of dust was low.

## **Room 115**

- An odor of cleaning products was observed.
- The paint was observed to be peeling on the floor.
- Stored chemicals were observed in the room.
- No ventilation was observed in the room.
- The overall level of dust was low.

- An air freshener odor was observed in the room.
- The carpet was stained. No odors were observed in the carpet.
- No water stained or moldy building materials were observed.
- The paint was peeling on a small area of the wall.
- The overall level of dust was low.



## **Main Office**

- No unusual odors were observed.
- No water staining or mold growth were observed.
- The carpet was new, and no stains or odors were observed.
- The area was being renovated at the time of the inspection.
- The overall level of dust was low but was high in the hall immediately outside the office (construction was nearing completion).

## **Room 102**

- No unusual odors were observed.
- The carpet was stained. No odors were observed in the carpet.
- No water staining or mold growth were observed.
- The unit ventilator was clean and unobstructed.
- The overall level of dust was low.

## **Room 103**

- No unusual odors were observed.
- ERG was onsite on 1/31/24 and noticed a plug-in air freshener near the door.
- The carpet was stained. No odors were observed in the carpet.
- No water staining or mold growth was observed.
- The unit ventilator was slightly dirty inside the cabinet but unobstructed.
- The overall level of dust was low.

## **Room 104**

- No unusual odors were observed.
- The carpet was stained. No odors were observed in the carpet.
- A few water-stained ceiling tiles were observed. No mold growth was observed. The roof deck was water stained. No mold growth was observed.
- The unit ventilator was clean and unobstructed.
- The overall level of dust was low.

- No unusual odors were observed.
- The carpet was stained. No odors were observed in the carpet.
- Water-stained ceiling tiles were observed. No mold growth was observed.
- Water stains were observed down the wall at the windows. Water stains were observed on the wood. No visible mold or musty odors were observed.
- Paint was observed to be peeling on the window.



- The unit ventilator appeared clean and was unobstructed.
- The overall level of dust was low.

## **Room 107**

- No unusual odors were observed.
- The carpet was stained. No odors were observed in the carpet.
- Water-stained ceiling tile was observed. No mold growth was observed.
- The pressure relief grille was dirty.
- The paint was observed to be peeling near the ceiling, at the back wall.
- The unit ventilator was clean and unobstructed.
- The overall level of dust was low.

## **Room 106**

- No unusual odors were observed.
- The carpet was stained. No odors were observed in the carpet.
- Water-stained ceiling tiles were observed. No mold growth nor musty odors were observed.
- Paint was observed to be peeling around the window and above the ceiling tile. Peeling paint was observed on the metal cabinet.
- The unit ventilator was clean and unobstructed on the exterior. Some dust was observed near the filters inside the unit.
- The overall level of dust was low.

## **Room 108**

- No unusual odors were observed.
- The carpet was stained. No odors were observed in the carpet.
- The paint was peeling on the ceiling at the window.
- A radiant heater was observed in the room.
- The overall level of dust was low.

## Men's Bathroom near Room 108

- No unusual odors were observed.
- No water staining or mold growth was observed.

## Women's Bathroom near Room 108

- No unusual odors were observed.
- No water staining or mold growth was observed.



- An odor of hydrogen sulfide was observed upon entry.
- The carpet and floor tile were stained. No odors were observed in the carpet.
- Paint was observed to be peeling on the bathroom ceiling. The hydrogen sulfide odor was observed in the bathroom.
- A radiant heater was observed.
- No access was provided to the shower room because of materials that were in front of the door.
- The overall level of dust was low.

## **Room 110**

- A deodorizer odor was observed. A deodorizer was observed in the room.
- The carpet was stained. No odors were observed in the carpet.
- White spots (water stains) were observed on the cove molding.
- A radiant heater was observed in the room.
- The overall level of dust was low.

## Cafeteria

- No unusual odors were observed.
- The ceiling tiles were dirty. The ceiling tiles were observed to be slightly bowed. No access was provided to the area above the ceiling tile due to the height of the ceiling.
- The diffusers were slightly dirty.
- Bubbling paint was observed on the exterior wall and near the wall near the entry to the room.
- The overall level of dust was low.

## **Gym Office**

- No unusual odors were observed.
- The carpet was stained. No odors were observed in the carpet.
- The exhaust grille was dirty.
- The overall level of dust was low.

- No unusual odors were observed.
- The carpet was being replaced at the time of the investigation.
- The supply air grilles were dirty.
- Approximately 3 s.f. of visible mold was observed on the outside wall, Okemos Road side (west wall, with windows).
- Water-stained ceiling tile were observed near the sink. No mold growth was observed. Dirt was also observed on the ceiling tile near the diffusers.
- Peeling paint was observed above the ceiling tile.



• The overall level of dust was moderate.

## Hallway off Room 135

- No unusual odors were observed.
- The carpet was stained. No odors were observed in the carpet.
- No water-stained ceiling tiles were observed.
- The overall level of dust was low.

## **APPENDIX D**

# Air Sample Data Sheet and Laboratory Data-IAQ and Chain of Custody's



ERG

PROJECT NUMBER	230029	DATE 1/2-1/5, 2024

PROJECT Okemos Public Montessori at Central

SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools

ANALYZED BY \_\_\_\_\_ERG

## AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	Results
SAMPLE #	TYPE		TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	
1	FB	Field Blank						See attached data sheets
			10:48		15.8			
2	BA	Near back wall of Staff Room	10:53	5	15.8	15.8	79	See attached data sheets
			10:56		15.8			
3	BA	Room 116 near center of room	11:01	5	15.8	15.8	79	See attached data sheets
			11:05		15.8			
4	BA	Room 117 near center	11:10	5	15.8	15.8	79	See attached data sheets
			11:11		15.8			
5	MV	On carpet under sink cabinet Room 116						See attached data sheets
			11:14		15.8			
6	BA	Room 118, 10' from east wall	11:19	5	15.8	15.8	79	See attached data sheets
			11:21		15.8			
7	BA	Room 119 near center of room	11:26	5	15.8	15.8	79	See attached data sheets
			11:27		15.8			
8	MV	On carpet Room 119 under unit ventilator						See attached data sheets
			11:31		15.8			
9	BA	Women's Restroom near center, west wing	11:36	5	15.8	15.8	79	See attached data sheets
		]	11:41	_	15.8			
10	BA	Near center of Men's Restroom, west side	11:46	5	15.8	15.8	79	See attached data sheets

## SAMPLE TYPES:

FB - FIELD BLANK

B - BULK

MV - MICROVACUUM

V - VARIOUS

BA-BIOAEROSOL

ERG

PROJECT NUMBER 230029 DATE 1/2-1/	5, 2024
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PROJECT Okemos Public Montessori at Central

SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools

ANALYZED BY ERG

## **AIR SAMPLE DATA SHEET**

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	Results
SAMPLE #	TYPE		TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	
			11:48	, ,	15.8		- /	
11	ВА	Room 124B near center	11:53	5	15.8	15.8	79	See attached data sheets
			11:54		15.8			
12	BA	Room behind 124B and C , 10' from door	11:59	5	15.8	15.8	79	See attached data sheets
			12:01		15.8			
13	BA	20' from entry to Room 124D	12:06	5	15.8	15.8	79	See attached data sheets
			12:08		15.8			
14	BA	10' from entry to Room 124C	12:13	5	15.8	15.8	79	See attached data sheets
			13:52		15.8			
15	BA	Room 125, 10' from entry to the Room	13:57	5	15.8	15.8	79	See attached data sheets
		Black material above ceiling on tectum	14:00		15.8			
16	Tape	decking Room 124B						See attached data sheets
		Black material above ceiling on tectum	14:12		15.8			
17	Tape	decking Room behind 124B						See attached data sheets
			14:31		15.8			
18	BA	Peace Room 10' from entry to room	14:36	5	15.8	15.8	79	See attached data sheets
			14:41		15.8			
19	BA	Room 127 near center	14:46	5	15.8	15.8	79	See attached data sheets
			14:52		15.8			
20	BA	Room 129 near center	14:57	5	15.8	15.8	79	See attached data sheets

SAMPLE TYPES:

FB - FIELD BLANK

B - BULK

MV - MICROVACUUM

V - VARIOUS

BA-BIOAEROSOL

ERG

PROJECT NUMBER 230029	DATE 1/2-1/5, 2024
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PROJECT Okemos Public Montessori at Central

CLIENT Okemos Public Schools ANALYZED BY ERG

## AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	Results
SAMPLE #	TYPE		TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	
			14:58		15.8			
21	BA	Room 120 near center	15:03	5	15.8	15.8	79	See attached data sheets
			15:11		15.8			
22	BA	Room 121, 15' from entry into the room	15:16	5	15.8	15.8	79	See attached data sheets
			15:18		15.8	]		
23	BA	Room 123 SSA near center	15:23	5	15.8	15.8	79	See attached data sheets
			15:30		15.8			
24	MV	On carpet under radiant heater Room 129						See attached data sheets
			15:40		15.8	]		
25	BA	20' from door Room 128	15:45	5	15.8	15.8	79	See attached data sheets
			15:48		15.8	1		
26	BA	Out of doors outside door 16	15:53	5	15.8	15.8	79	See attached data sheets
			7:39		15.8			
27	MV	Room 120 on carpet at unit ventilator						See attached data sheets
			7:47		15.8			
28	BA	Room 112 on carpeted area near table	7:52	5	15.8	15.8	79	See attached data sheets
			7:57		15.8			
29	BA	Library 20' from entry into the room	8:02	5	15.8	15.8	79	See attached data sheets
			8:06	·	15.8			
30	BA	Near center of Gym floor	8:11	5	15.8	15.8	79	See attached data sheets

## SAMPLE TYPES:

FB - FIELD BLANK

SAMPLED BY Kristin Peterson

B - BULK

MV - MICROVACUUM

V - VARIOUS

**BA-BIOAEROSOL** 

ERG

PROJECT NUMBER	230029	DATE	1/2-1/	5, 2024	1
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PROJECT Okemos Public Montessori at Central

SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools

ANALYZED BY \_\_\_\_ ERG

#### AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	Results
SAMPLE #	TYPE		TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	
			10:45		15.8			
31	Tape	On mold on exterior wall of Room 135						See attached data sheets
			9:39		15.8			
32	BA	Room 131, 25' from entry into room	9:44	5	15.8	15.8	79	See attached data sheets
			9:46		15.8			
33	BA	Center of Room 130	9:51	5	15.8	15.8	79	See attached data sheets
		Stained carpet in hallway outside of	9:53		15.8			
34	MV	Room 130						See attached data sheets
			9:58		15.8			
35	BA	2nd level Room 132 near tables	10:03	5	15.8	15.8	79	See attached data sheets
			10:10		15.8			
36	Tape	Supply air grille Bathroom of Room 112	10:15	5	15.8	15.8	79	See attached data sheets
			12:53		15.8			
37	BA	Room 115 at Janitor's sink	12:58		15.8	15.8	79	See attached data sheets
		Near center of large office in new office	13:04		15.8			
38	BA	area	13:09	5	15.8	15.8	79	See attached data sheets
			13:11		15.8			
39	BA	Reception area at desk	13:16	5	15.8	15.8	79	See attached data sheets
			13:19	_	15.8			
40	BA	Near center of Room 102	13:24	5	15.8	15.8	79	See attached data sheets

#### SAMPLE TYPES:

FB - FIELD BLANK

B - BULK

MV - MICROVACUUM

V - VARIOUS

ERG

PROJECT NUMBER	230029	DATE 1/2-	·1/5, 202

PROJECT Okemos Public Montessori at Central

SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools

ANALYZED BY ERG

#### **AIR SAMPLE DATA SHEET**

r		1				1		
				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	Results
SAMPLE #	TYPE		TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	
			13:30		15.8			
41	BA	Room 103, 6' from south wall	13:35	5	15.8	15.8	79	See attached data sheets
			13:38		15.8			
42	BA	Room 104 near unit ventilator	13:43	5	15.8	15.8	79	See attached data sheets
			13:46		15.8	<u>.</u>		
43	BA	Room 105 near center	13:51	5	15.8	15.8	79	See attached data sheets
			13:55		15.8			
44	BA	Room 106 10' from the unit ventilator	14:00	5	15.8	15.8	79	See attached data sheets
			14:10		15.8			
45	BA	Room 107, 5' from unit ventilator	14:15	5	15.8	15.8	79	See attached data sheets
			14:17		15.8			
46	BA	Room 108 near center	14:22	5	15.8	15.8	79	See attached data sheets
			14:24		15.8	]		
47	BA	Men's Restroom east wing	14:29	5	15.8	15.8	79	See attached data sheets
			14:32		15.8			
48	BA	Women's Restroom south wing	14:37	5	15.8	15.8	79	See attached data sheets
			15:09		15.8			
49	BA	Room 109 near Bathroom	15:14	5	15.8	15.8	79	See attached data sheets
			15:17		15.8			
50	BA	Room 110 at radiant heater	15:22	5	15.8	15.8	79	See attached data sheets

#### SAMPLE TYPES:

FB - FIELD BLANK

B - BULK

MV - MICROVACUUM

V - VARIOUS



PROJECT NUMBER 230029 DATE 1/2-1/5, 202	24
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PROJECT Okemos Public Montessori at Central

SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools

ANALYZED BY \_\_\_\_\_ ERG

#### **AIR SAMPLE DATA SHEET**

<u>-</u>			SAMPLE	FLOW ON			
	DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	Results
TYPE		TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	
		15:24		15.8			
BA	Room 111 near center	15:29	5	15.8	15.8	79	See attached data sheets
	Small Office near Library by Tim's Office	15:31		15.8			
BA	near desk	15:36	5	15.8	15.8	79	See attached data sheets
		15:41		15.8			
BA	Out-of-door outside door 12	15:46	5	15.8	15.8	79	See attached data sheets
FB	Field Blank						See attached data sheets
BA	Hallway near door to tunnel of SW wing	8:09	5	15.8	15.8	79	See attached data sheets
ED.	Field Blank						See attached data sheets
ГВ	FIEIU BIATIK	0.14		1 . 0			See attached data sheets
ВΛ	Hallway CE wing near door to tunnel		_		15 0	70	See attached data sheets
DA	Hallway SE Willig Hear door to turiller		5		15.6	79	See attached data sheets
ВΛ	Hallway noar Poom 112		_		15 0	70	See attached data sheets
DΑ	Hallway Heal ROOH 112		,		13.0	79	See attached data sheets
MV	On carpet at unit ventilator Room 102	0.43		13.0			See attached data sheets
	,	9:30		15.8			
MV	Room 105 on carpet at unit ventilator						See attached data sheets
	BA BA FB BA FB BA MV	BA Room 111 near center Small Office near Library by Tim's Office BA Out-of-door outside door 12  FB Field Blank  BA Hallway near door to tunnel of SW wing  FB Field Blank  BA Hallway SE wing near door to tunnel  BA Hallway near Room 112  MV On carpet at unit ventilator Room 102	TYPE         TIME OFF           BA         Room 111 near center         15:24           BA         Small Office near Library by Tim's Office near desk         15:31           BA         near desk         15:36           BA         15:41         15:46           FB         Field Blank         8:04           BA         Hallway near door to tunnel of SW wing         8:09           FB         Field Blank         8:14           BA         Hallway SE wing near door to tunnel         8:19           BA         Hallway near Room 112         8:34           MV         On carpet at unit ventilator Room 102         9:30	TYPE         TIME ON TIME (MIN)           TYPE         TIME OFF (MIN)           BA         Room 111 near center         15:24           BA         Small Office near Library by Tim's Office near desk         15:31           BA         near desk         15:36         5           BA         Out-of-door outside door 12         15:46         5           FB         Field Blank         8:04         8           BA         Hallway near door to tunnel of SW wing         8:09         5           FB         Field Blank         8:14         8           BA         Hallway SE wing near door to tunnel         8:19         5           BA         Hallway near Room 112         8:34         5           MV         On carpet at unit ventilator Room 102         9:30	TYPE         DESCRIPTION         TIME ON TIME OFF (MIN)         FLOW OFF (L/MIN)           BA         Room 111 near center         15:24         15:8           BA         Small Office near Library by Tim's Office near Library hy Tim's Office near Library	TYPE         DESCRIPTION         TIME ON TIME OFF (MIN)         FLOW OFF (L/MIN)         AVERAGE FLOW OFF (L/MIN)         AVERAGE FLOW OFF (L/MIN)         AVERAGE FLOW OFF (L/MIN)         AVERAGE FLOW OFF (MIN)         AVERAGE FLOW OFF (L/MIN)         AVERAGE FLOW OFF (L/MIN)         AVERAGE FLOW OFF (L/MIN)         AVERAGE FLOW OFF (MIN)         AVERAG	DESCRIPTION

SAMPLE TYPES:

FB - FIELD BLANK

B - BULK

MV - MICROVACUUM

V - VARIOUS

ERG

PROJECT NUMBER	230029	DATE 1/2-1/5, 20:
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PROJECT Okemos Public Montessori at Central

SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools

ANALYZED BY \_\_\_\_\_ ERG

#### **AIR SAMPLE DATA SHEET**

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	Results
SAMPLE #	TYPE		TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	
			9:35		15.8			
61	MV	Room 106 on carpet at unit ventilator		5	15.8	15.8	79	See attached data sheets
			13:55		15.8			
62	BA	Cafeteria near center	14:00	5	15.8	15.8	79	See attached data sheets
			14:02		15.8			
63	BA	Cafeteria at server area	14:07	5	15.8	15.8	79	See attached data sheets
			14:11		15.8			
64	FB	Hallway off Room 135	14:16	5	15.8	15.8	79	See attached data sheets
		White material on cove molding in Room	16:20		15.8			
65	Tape	110						See attached data sheets
			8:31		15.8			
66	BA	Gym Office near center	8:36	5	15.8	15.8	79	See attached data sheets
			8:44		15.8			
67	BA	At edge of carpet in Room 135	8:49	5	15.8	15.8	79	See attached data sheets
68	FB	Field Blank			_			See attached data sheets
			10:38	_	15.8			
69	BA	Center of Room 124A	10:43	5	15.8	15.8	79	See attached data sheets
70	MV	Doom 106 near filter in unit ventilator	10:45 10:50	5	15.8 15.8	15.0	79	Coo attached data shoots
70	IVIV	Room 106 near filter in unit ventilator	10.50	5	13.0	15.8	79	See attached data sheets

#### SAMPLE TYPES:

FB - FIELD BLANK

B - BULK

MV - MICROVACUUM

V - VARIOUS



	PROJECT NUMBER	230029	DATE 1/2-1/5, 2024
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PROJECT Okemos Public Montessori at Central SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools ANALYZED BY ERG

#### **AIR SAMPLE DATA SHEET**

_								
				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	Results
SAMPLE #	TYPE		TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	
			10:55		15.8			
71	MV	Room 107 in unit ventilator under filter						See attached data sheets
			11:02		15.8			
72	MV	Room 105 inside unit ventilator						See attached data sheets
				ł		1		
						1		
				ł		1		

SAMPLE TYPES:

FB - FIELD BLANK

B - BULK

MV - MICROVACUUM

V - VARIOUS

ERG

	PROJECT NUMBER	230029	DATE	1/29/2024
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PROJECT Okemos Public Montessori at Central

SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools

ANALYZED BY ERG

#### AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	Results
SAMPLE#	TYPE	DESCRIPTION	TIME OFF	(MIN)		FLOW		Results
SAIVIPLE #	TTPE			(IVIIIV)	(L/MIN)	FLOW	(LITERS)	
		Cafeteria on metal bookcase near exterior	15:52		15.8			
73	MV	door						See attached data sheets
			15:54		15.8			
74	MV	Hallway off Room 135 5' from elevator						See attached data sheets
		Room 131 on window ledge near unit	15:57		15.8			
75	MV	ventilator						See attached data sheets
			16:00		15.8			
76	MV	Room 130 at sink cabinet on carpet						See attached data sheets
			16:02		15.8			
77	MV	Gym on smartboard metal holder				1		See attached data sheets
			16:04		15.8			
78	MV	Gym office under couch on carpet						See attached data sheets
			16:06		15.8			
79	MV	Childcare upper Gym on carpet near desk						See attached data sheets
		Main Office Principles office on top of	16:10		15.8			
80	MV	refrigerator				1		See attached data sheets
			16:12		15.8			
81	MV	Main Officer on desk of reception				1		See attached data sheets
			16:14		15.8			
82	MV	Room 111 on shelf near door						See attached data sheets

#### SAMPLE TYPES:

FB - FIELD BLANK

B - BULK

MV - MICROVACUUM

V - VARIOUS

E	RG

PROJECT NUMBER	230029	DATE	1/29/24

PROJECT Okemos Public Montesorri at Central SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools ANALYZED BY ERG

#### **AIR SAMPLE DATA SHEET**

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	Results
SAMPLE#	TYPE		TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	
		On carpet at enrey to Office next to Tim's	16:17		15.8			
83	MV	Office						See attached data sheets
			16:19		15.8			
84	MV	In metal cabinet on shelf Room 104						See attached data sheets
			16:23		15.8			
85	MV	Room 108 on window ledge						See attached data sheets
		Men's Restroom near Room 108 on	16:25		15.8	1		
86	MV	window ledge						See attached data sheets
		Women's Restroom near Room 108 on	16:27		15.8			
87	MV	window ledge						See attached data sheets
			16:31		15.8			
88	MV	On carpet near lamp Room 109						See attached data sheets
			16:33		15.8			
89	MV	Room 112 on table near corner						See attached data sheets
			16:35		15.8			
90	MV	Room 115 on top of cabinet near divider						See attached data sheets
		Staff Room on carpet under spare clothes	16:37		15.8			
91	MV	closet						See attached data sheets
			16:39		15.8			
92	MV	Room 124D on top of cabinet near window						See attached data sheets

SAMPLE TYPES:

FB - FIELD BLANK

B - BULK

MV - MICROVACUUM

V - VARIOUS

ERG

PROJECT NOTIFIER 230029 DATE 1/23/202	PROJECT NUMBER	230029	DATE	1/29/2024
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PROJECT Okemos Public Montessori at Central

SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools

ANALYZED BY \_\_\_\_\_ ERG

#### AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	Results
SAMPLE #	TYPE		TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	
			16:39		15.8			
93	MV	Room 124C on floor behind chair						See attached data sheets
			16:42		15.8			
94	MV	On tile floor at entrance Room 124A						See attached data sheets
0.5		Daniel 11C au annual ann ach in a	16:44		15.8			Constant and data about
95	MV	Room 116 on computer cabinet	10.10		45.0			See attached data sheets
96	MV	On carpet stain near door Room 117	16:46		15.8			See attached data sheets
30	1010	Men's Restroom on radiant heater near	16:48		15.8			See attached data sheets
97	MV	Room 117	10.40		13.0	1		See attached data sheets
		Women's Restroom on towel dispenser	16:51		15.8			
98	MV	near Room 117						See attached data sheets
			16:53		15.8			
99	MV	Room 118 under unit ventilator on carpet						See attached data sheets
			16:56		15.8			
100	MV	Room 125 under desk on carpet						See attached data sheets
			16:58		15.8			
101	MV	Peace Room on floor at interior wall						See attached data sheets
100			17:00		15.8			6
102	MV	Room 130 on back wall window ledge						See attached data sheets

#### SAMPLE TYPES:

FB - FIELD BLANK

B - BULK

MV - MICROVACUUM

V - VARIOUS

ERG

	PROJECT NUMBER	230029	DATE 1/29-31, 2024
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PROJECT Okemos Public Montessori at Central SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools ANALYZED BY ERG

#### AIR SAMPLE DATA SHEET

			SAMPLE	FLOW ON			
	DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	Results
TYPE		TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	
		17:05		15.8			
MV	Room 127 near bookcase on carpet						See attached data sheets
MV	Room 121 on shelf near entry	17:07		15.8	-		See attached data sheets
	,	17:09		15.8			
MV	On carpet near unit ventilator Room 123						See attached data sheets
	On carpet near bookcase near door of	17:!2		15.8			
MV	Library						See attached data sheets
MV	Room 128 on carnet near door to entry	7:37		15.8	-		See attached data sheets
IVIV	Room 120 on earpet near door to entry	7:45		15.8			See attached data sheets
MV	Room 103 on carpet near sink cabinet	7.13		13.0			See attached data sheets
	•				-		
	MV MV MV MV	MV Room 127 near bookcase on carpet  MV Room 121 on shelf near entry  MV On carpet near unit ventilator Room 123  On carpet near bookcase near door of  MV Library  MV Room 128 on carpet near door to entry	TYPE  TIME OFF  17:05  MV  Room 127 near bookcase on carpet  17:07  MV  Room 121 on shelf near entry  17:09  MV  On carpet near unit ventilator Room 123  On carpet near bookcase near door of Library  T:37  MV  Room 128 on carpet near door to entry  7:45	TYPE         TIME OFF         (MIN)           MV         Room 127 near bookcase on carpet         17:05           MV         Room 121 on shelf near entry         17:07           MV         On carpet near unit ventilator Room 123         00           MV         Con carpet near bookcase near door of Library         17:12           MV         Room 128 on carpet near door to entry         7:37           MV         Room 128 on carpet near door to entry         7:45	TYPE         TIME OFF         (MIN)         (L/MIN)           MV         Room 127 near bookcase on carpet         17:05         15.8           MV         Room 127 near bookcase on carpet         17:07         15.8           MV         Room 121 on shelf near entry         17:09         15.8           MV         On carpet near unit ventilator Room 123         00         15.8           MV         Library         17:12         15.8           MV         Library         7:37         15.8           MV         Room 128 on carpet near door to entry         7:45         15.8	TYPE         TIME OFF         (MIN)         (L/MIN)         FLOW           MV         Room 127 near bookcase on carpet         17:05         15.8         ————————————————————————————————————	TYPE         TIME OFF         (MIN)         (L/MIN)         FLOW         (LITERS)           MV         Room 127 near bookcase on carpet         17:05         15.8         15.8           MV         Room 121 on shelf near entry         17:07         15.8         15.8           MV         On carpet near unit ventilator Room 123         00         15.8         15.8           MV         Library         7:37         15.8         15.8           MV         Room 128 on carpet near door to entry         7:45         15.8

#### SAMPLE TYPES:

FB - FIELD BLANK

B - BULK

MV - MICROVACUUM

V - VARIOUS



Client Name: Project Name:				Okemos Public Schools  Okemos Public Montessori at Central						
Proje	ct Name:		0	kemos Pu	blic Monte	essori at Co	entral			
Da	ate of Sample				_		Report Date:			
	Date of Submittal: 1/2/2				_			Kaila S		
	Date	of Analysis:	1/2/	2024	-	Minimum R	eporting Limit:	60	s/m³	
Sample #	-1				-2			-3		
•				No De		# D	D			
Sample Location	structures/	Field Blank	% trace	structures/	ck Wall of Staff Room  8 trace		Room 116 Near Ce		enter % trace	
Spores	sample	s/m³	scanned	sample	s/m³	scanned	structures/ sample	s/m³	scanned	
Alternaria	ND			ND			ND			
Ascospore	ND			ND			5	60	20.3%	
Aspergillus/Penicillium	ND			ND			ND		20.070	
Basidiospore	ND			ND			ND		+	
Botrytis	ND			ND			ND			
Chaetomium	ND			ND			ND		+	
Cladosporium	ND			ND			ND			
Curvularia	ND			ND			ND		+	
Drechslera/Bipolaris	ND			ND			ND		+	
Epicoccum	ND			ND			ND		+	
Erysiphae/Oidium	ND			ND			ND		+	
Fusarium	ND			ND			ND		+	
Hyphal Fragments	ND			ND			ND		+	
Nigrospora	ND			ND			ND		+	
Periconia/Myxomycete/Smut	ND			ND			ND		+	
Ulocladium/Pithomyces	ND			ND			ND		+	
Rhizopus	ND			ND			ND		+	
Stachybotrys	ND			ND			ND		+	
Stemphyllium	ND			ND			ND		+	
Torula	ND			ND			ND		+	
Miscellaneous/Unidentified Spores	ND			ND			ND		-	
Total	ND			ND			5	60	+	
Total	ND			ND			Ü	- 00	1	
<u>Pollen</u>			_							
Grass	ND			ND			ND			
Tree	ND			ND			ND			
Other/Unknown Pollen	ND			ND			ND			
Total	ND			ND		]	ND		J	
Other Particulate										
Cellulose Fibers	ND			15	200	20.3%	30	400	20.3%	
Fibrous Glass	ND			ND	200	20.070	ND		20.070	
Synthetic Fibers	ND			15	200	20.3%	15	200	20.3%	
Mineral Fibers	ND			ND	200	20.070	ND	200	20.070	
Opaque Particles	10	100	20.3%	192	2400	20.3%	266	3400	20.3%	
Insect Fragments	ND	100	20.070	ND	2-100	20.070	ND	0-700	20.070	
Total	10	100		222	2800		311	4000	<del>                                     </del>	
*Debris rating		1	1		1	1	1		1	
Ŭ						4			4	
Notes	:									



Clie Proje		Okemos Public Schools Okemos Public Montessori at Central								
•	-									
Da	ate of Sample			2024	_ _		Report Date:		/2024	
		f Submittal:		2024			Analyst:	Kaila S	Schwanitz	
	Date	of Analysis:	1/2/	2024		Minimum R	Reporting Limit: 6		0 s/m³	
Sample #		-4			-6			-7		
Sample Location	Room 117 Near C		enter	Room 118	3 10 feet from	East wall	Room '	119 Near Ce	enter	
•	structures/		% trace	structures/		% trace	structures/		% trace	
<u>Spores</u>	sample	s/m³	scanned	sample	s/m³	scanned	sample	s/m³	scanned	
Alternaria	ND			ND			ND			
Ascospore	ND			ND			ND			
Aspergillus/Penicillium	ND			ND			ND			
Basidiospore	ND			ND			ND			
Botrytis	ND			ND			ND			
Chaetomium	ND			ND			ND			
Cladosporium	ND			ND			ND			
Curvularia	ND			ND			ND			
Drechslera/Bipolaris	ND			ND			ND			
Epicoccum .	ND			ND			ND			
Erysiphae/Oidium	ND			ND			ND			
Fusarium	ND			ND			ND			
Hyphal Fragments	ND			ND			ND		†	
Nigrospora	ND			ND			ND		+	
Periconia/Myxomycete/Smut	ND			ND			ND			
Ulocladium/Pithomyces	ND			ND			ND			
Rhizopus	ND			ND			ND			
Stachybotrys	ND			ND			ND		+	
Stemphyllium	ND			ND			ND			
Torula	ND			ND			ND			
Miscellaneous/Unidentified Spores	ND			ND ND			ND			
Total	ND			ND			ND		+	
	ND			ND		<b>.</b>	ND		J	
<u>Pollen</u>	ND I			ND I		ı	ND		Т	
Grass	ND			ND			ND			
Tree	ND ND			ND ND			ND			
Other/Unknown Pollen Total	ND			ND ND		1	ND ND		+	
Total	ND			ND			ND		J	
Other Particulate							<del> </del>		_	
Cellulose Fibers	34	400	20.3%	5	60	20.3%	10	100	20.3%	
Fibrous Glass	ND			ND			ND			
Synthetic Fibers	34	400	20.3%	34	400	20.3%	10	100	20.3%	
Mineral Fibers	ND			ND			ND			
Opaque Particles	246	3100	20.3%	89	1100	20.3%	54	680	20.3%	
Insect Fragments	ND			ND			ND			
Total	314	3900		128	1560		74	880		
*Debris rating		1		1			1		]	
Notes										
Notes										
		All sampl	es prepared	and analyzed	per the mo	dified ASTM	D7391-09.			



CII	ient Name:			C	Okemos I	Public Scho	ools		
Pro	ject Name:		С	kemos Pul					
	_								
	Date of Sample			2024			Report Date:		2024
		f Submittal:		2024			Analyst:		chwanitz
	Date	of Analysis:	1/2/	2024		Minimum R	eporting Limit:	60	s/m³
Sample #		-9							
Sample Location	Women's R	estroom wes	t side center	ide center					
<u>Spores</u>	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned
Alternaria	ND			· ·	0/111		'	0/111	
Ascospore	ND								
Aspergillus/Penicillium	ND								
Basidiospore	ND								
	ND					+			
Botrytis	ND					+			
Chaetomium	-					+			
Cladosporium Curvularia	ND ND								
	ND					+			
Drechslera/Bipolaris	ND								
Epicoccum Erysiphae/Oidium	ND					+			
• •	ND					+			
Fusarium Hyphal Fragments	ND					+			
••	ND					+			
Nigrospora Periconia/Myxomycete/Smut	-								
	ND								
Ulocladium/Pithomyces	ND								
Rhizopus	ND								
Stachybotrys	ND								
Stemphyllium	ND								
Torula	ND ND								
Miscellaneous/Unidentified Spores <b>Total</b>	ND								
Total	ND		J			J			J
<u>Pollen</u>						_			
Grass	ND								
Tree	ND								
Other/Unknown Pollen	ND								
Total	ND		J						]
Other Particulate									
Cellulose Fibers	10	100	20.3%						
Fibrous Glass	ND		Ì						
Synthetic Fibers	25	300	20.3%						
Mineral Fibers	ND		Ì						
Opaque Particles	158	2000	20.3%						
Insect Fragments	ND								
Total	193	2400							
*Debris rating	1			•		1	·		1



	nt Name:			Okemos Public Schools Okemos Public Montessori at Central						
Proje	ct Name:			Okem	os Public	Montesso	ri at Centrai			
Da	ate of Sample	Collection:	1/2/	2024			Report Date:	1/5/	/2024	
		f Submittal:		2024			Analyst:		Schwanitz	
		of Analysis:		2024		Minimum R	eporting Limit:		s/m³	
		o. 7a.y o.o.	.,,,,				William Reporting Limit.			
Sample #	-10				-11			-14		
Sample Location	Near center	Near center of Men's Bathroom west Near ce		enter of Roor	n 124 B	10 feet from	entry into Ro	oom 124 C		
•	structures/		% trace	structures/		% trace	structures/		% trace	
<u>Spores</u>	sample	s/m³	scanned	sample	s/m³	scanned	sample	s/m³	scanned	
Alternaria	ND			ND			ND			
Ascospore	5	60	20.3%	ND			ND			
Aspergillus/Penicillium	ND			ND			ND			
Basidiospore	ND			ND			ND			
Botrytis	ND			ND			ND			
Chaetomium	ND			ND			ND			
Cladosporium	ND			ND			ND			
Curvularia	ND			ND			ND			
Drechslera/Bipolaris	ND			ND			ND			
Epicoccum	ND			ND			ND			
Erysiphae/Oidium	ND			ND			ND			
Fusarium	ND			ND			ND			
Hyphal Fragments	ND			ND			ND			
Nigrospora	ND			ND			ND			
Periconia/Myxomycete/Smut	ND			ND			ND			
Ulocladium/Pithomyces	ND			ND			ND			
Rhizopus	ND			ND			ND			
Stachybotrys	ND			ND			ND			
Stemphyllium	ND			ND			ND			
Torula	ND			ND			ND		1	
Miscellaneous/Unidentified Spores	ND			ND			ND		1	
Total	5	60		ND			ND		1	
			•						-	
<u>Pollen</u>										
Grass	ND			ND			ND			
Tree	ND			ND			ND			
Other/Unknown Pollen	ND			5	60	20.3%	ND		]	
Total	ND			5	60		ND			
Other Particulate										
Cellulose Fibers	20	300	20.3%	5	60	20.3%	5	60	20.3%	
Fibrous Glass	ND			ND			ND			
Synthetic Fibers	20	300	20.3%	5	60	20.3%	20	300	20.3%	
Mineral Fibers	ND			ND			ND			
Opaque Particles	103	1300	20.3%	54	680	20.3%	64	810	20.3%	
Insect Fragments	ND			ND			ND			
Total	143	1900		64	800		89	1170		
*Debris rating	1			1		_	1		_	
	-									
Notes	:									



	ent Name: ect Name:			Okemos Public Schools Okemos Public Montessori at Central							
- -	ate of Sample	Collection	1/2/	2024			Poport Data:	1/5	/2024		
D			1/3/2								
							_		Schwanitz		
	Date	of Analysis:	1/3/2	2024	•	Minimum R	eporting Limit:	60	s/m³		
Sample #		-15			-18			-19			
Sample Location	Room 125, 1	10 feet from e	ntry into room	Peace Room, 10 feet from entry into room			Room	Room 127 near center			
•	structures/		% trace	structures/		% trace	structures/		% trace		
<u>Spores</u>	sample	s/m³	scanned	sample	s/m³	scanned	sample	s/m³	scanned		
Alternaria	ND			ND			ND				
Ascospore	ND			ND			ND				
Aspergillus/Penicillium	ND			ND			ND				
Basidiospore	ND			ND			ND				
Botrytis	ND			ND			ND				
Chaetomium	ND			ND			ND				
Cladosporium	ND			ND			ND				
Curvularia	ND			ND			ND				
Drechslera/Bipolaris	ND			ND			ND				
Epicoccum	ND			ND			ND				
Erysiphae/Oidium	ND			ND			ND				
Fusarium	ND			ND			ND				
Hyphal Fragments	ND			ND			ND				
Nigrospora	ND			ND			ND				
Periconia/Myxomycete/Smut	ND			ND			ND				
Ulocladium/Pithomyces	ND			ND			ND				
Rhizopus	ND			ND			ND				
Stachybotrys	ND			ND			ND				
Stemphyllium	ND			ND			ND				
Torula	ND			ND			ND				
Miscellaneous/Unidentified Spores	ND			ND			ND				
Total	ND			ND			ND				
			•			<u>-</u>			=		
Pollen											
Grass	ND			ND			ND				
Tree	ND			ND			ND				
Other/Unknown Pollen	ND			ND			ND		_		
Total	ND			ND			ND		J		
Other Particulate											
Cellulose Fibers	15	200	20.3%	34	400	20.3%	10	100	20.3%		
Fibrous Glass	ND			ND			ND				
Synthetic Fibers	5	60	20.3%	5	60	20.3%	10	100	20.3%		
Mineral Fibers	ND			ND			ND				
Opaque Particles	74	940	20.3%	177	2200	20.3%	108	1400	20.3%		
Insect Fragments	ND	0.0	20.070	ND		20.070	ND		20.070		
Total	94	1200		216	2660		128	1600	<u> </u>		
*Debris rating		1		,		1	1		1		
-							-		#		
Notes	s:										
	1										

# ERG

## IAQ Bioaerosol Analytical Report ERG Project Number: 230029

D	ate of Sample			2024			Report Date:		/2024
		Submittal:		2024			Analyst:		chwanitz
	Date of	of Analysis:	1/3/	2024		Minimum R	eporting Limit: _	60	s/m³
Sample #		-20			-21			-22	
Sample Location	Roor	n 129 near c	enter	Room	120 center o	f room	Room 121, 15	feet from en	try into room
<u>Spores</u>	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned
Alternaria	ND			ND			ND		
Ascospore	ND			ND			ND		
Aspergillus/Penicillium	ND			ND			ND		
Basidiospore	ND			ND			ND		
Botrytis	ND			ND			ND		
Chaetomium	ND			ND			ND		
Cladosporium	ND			ND			ND		†
Curvularia	ND			ND			ND		
Drechslera/Bipolaris	ND			ND			ND		
Epicoccum	ND			ND			ND		+
Erysiphae/Oidium	ND			ND			ND		+
Fusarium	ND			ND			ND		+
Hyphal Fragments	ND			ND			ND		+
Nigrospora	ND			ND			ND		+
Periconia/Myxomycete/Smut	ND			ND			ND		+
Ulocladium/Pithomyces	ND			ND			ND		+
Rhizopus	ND			ND			ND		+
Stachybotrys	ND			ND			ND		+
Stemphyllium	ND			ND			ND		+
Torula	ND			ND			ND		+
Miscellaneous/Unidentified Spores	ND			ND			ND		+
Total	ND			ND			ND		
<u>Pollen</u>									
Grass	ND			ND			ND		
Tree	ND			ND			ND		<del>                                     </del>
Other/Unknown Pollen	ND			ND			ND		+
Total	ND			ND			ND		
						•			•
Other Particulate	45	200	20.20/	10	100	20.20/	10	100	20.007
Cellulose Fibers	15 ND	200	20.3%	10	100	20.3%	10	100	20.3%
Fibrous Glass	ND 40	400	00.00/	ND	000	00.007	ND -	00	00.007
Synthetic Fibers	10	100	20.3%	15	200	20.3%	5	60	20.3%
Mineral Fibers	ND	4400	00.007	ND 400	4700	00.007	ND	1100	00.001
Opaque Particles	84 ND	1100	20.3%	138	1700	20.3%	89 ND	1100	20.3%
Insect Fragments	ND 100	1400		ND 163	2022		ND 104	1000	1
Total	109	1400		163	2000	4	104	1260	4
*Debris rating	1			1		J	1		J
Note	s:						1		



\*Debris rating

Total

**Opaque Particles** 

Insect Fragments

## **IAQ Bioaerosol Analytical Report** ERG Project Number: 230029

Clie	nt Name:		Okemos Public Schools								
Proje	ct Name:			Okemo	s Public	Montesso	ri at Central				
Da	ate of Sample			2024			Report Date:		/2024		
		f Submittal:		2024			Analyst:		Schwanitz		
	Date	of Analysis:	1/3/	2024		Minimum R	eporting Limit: _	60	s/m³		
Sample #		-23			-25			-26			
Sample Location	Room	122 SSA nea	ar center	20 feet f	rom door, Ro	oom 128	Out of doors outside		ide door 16		
Sparas	structures/ sample	s/m³	% trace scanned	structures/	- / 3	% trace scanned	structures/	- / 3	% trace scanned		
<u>Spores</u>		3/111	Scarineu	sample	s/m³	Scarineu	sample	s/m³	Scarified		
Alternaria	ND			ND -			ND -				
Ascospore	ND			5	60	20.3%	5	60	20.3%		
Aspergillus/Penicillium	ND			ND			ND				
Basidiospore	ND			ND			ND				
Botrytis	ND			ND			ND				
Chaetomium	ND			ND			ND				
Cladosporium	ND			ND			ND				
Curvularia	ND			ND			ND				
Drechslera/Bipolaris	ND			ND			ND				
Epicoccum	ND			ND			ND				
Erysiphae/Oidium	ND			ND			ND				
Fusarium	ND			ND			ND				
Hyphal Fragments	ND			ND			ND		1		
Nigrospora	ND			ND			ND		1		
Periconia/Myxomycete/Smut	ND			ND			ND		+		
Ulocladium/Pithomyces	ND			ND			ND		1		
Rhizopus	ND			ND			ND		+		
Stachybotrys	ND			ND			ND				
Stemphyllium	ND			ND			ND		+		
Torula	ND			ND			ND		+		
Miscellaneous/Unidentified Spores	ND			ND			ND ND		+		
Total	ND			5	60		5	60			
			_						4		
<u>Pollen</u>											
Grass	ND			ND			ND				
Tree	ND			ND			ND				
Other/Unknown Pollen	ND			ND			ND				
Total	ND			ND			ND				
Other Perticulate											
Other Particulate	ND T		Ī	1 4E	200	20.20/	I 40 I	100	20.20/		
Cellulose Fibers	ND			15	200	20.3%	10	100	20.3%		
Fibrous Glass	ND		00.557	ND			ND		<del> </del>		
Synthetic Fibers	5	60	20.3%	ND			ND		1		
Mineral Fibers	ND			ND		1	ND		1		

158

ND

173

30

ND

35

400

460

20.3%

2000

2200

20.3%

182

ND

192

2300

2400

20.3%



Clier	nt Name:			Okemos Public Schools Okemos Public Montessori at Central					
Proje	ct Name:			Okemos	Public M	lontessori	at Central		
Da	ate of Sample						Report Date:		/2024
			1/3/2				Analyst:	Kaila S	chwanitz
	Date	of Analysis:	1/4/2	2024		Minimum R	eporting Limit: _	60	s/m³
Sample #		-28			-29			-30	
Sample Location		m 112, near			y, 25 feet fron			enter of gym	
Spores	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned
Alternaria	ND			ND	-,		ND		
Ascospore	ND			ND			ND		1
Aspergillus/Penicillium	ND			ND			ND		1
Basidiospore	ND			ND			ND		1
Botrytis	ND			ND			ND		1
Chaetomium	ND			ND			ND		
Cladosporium	ND			5	60	20.3%	ND		
Curvularia	ND			ND	00	20.376	ND ND		
Drechslera/Bipolaris	ND			ND			ND ND		
Epicoccum	ND			ND			ND ND		
Erysiphae/Oidium	ND			ND			ND ND		
• •	ND			ND			ND ND		
Fusarium	ND			ND			ND ND		+
Hyphal Fragments	ND ND						ND ND		+
Nigrospora Periconia/Myxomycete/Smut	ND ND			ND			ND ND		
	ND ND			ND			ND ND		
Ulocladium/Pithomyces	-			ND					
Rhizopus	ND			ND			ND		
Stachybotrys	ND			ND			ND		
Stemphyllium	ND			ND			ND		
Torula	ND			ND			ND ND		-
Miscellaneous/Unidentified Spores <b>Total</b>	ND ND			ND 5	60				
Total	ND			5	60	]	ND		J
<u>Pollen</u>									
Grass	ND			ND			ND		
Tree	ND			ND			ND		
Other/Unknown Pollen	ND			ND			ND		
Total	ND			ND			ND		
Other Posticulate									
Other Particulate	00 1	000	00.00/	_	00	00.00/	00	200	00.007
Cellulose Fibers	20	300	20.3%	5	60	20.3%	20	300	20.3%
Fibrous Glass	ND			ND			ND -		
Synthetic Fibers	30	400	20.3%	10	100	20.3%	5	60	20.3%
Mineral Fibers	ND			ND			ND		
Opaque Particles	153	1900	20.3%	99 ND	1300	20.3%	94	1200	20.3%
Insect Fragments	ND 202	0000		ND	4.400		ND	4500	
Total	203	2600		114	1460	4	119	1560	-
*Debris rating	<u> </u>	1		1	l	j l	1		J
Notes	:								



	Diect Name: Okemos Public Schools Okemos Public Montessori at Central											
	oto of Comple	Callagtion	1/2/	2024			Papart Data:	1/0	/2024			
Ь	ate of Sample	f Submittal:		2024 2024			Report Date:		chwanitz			
						Minimum D	Analyst:					
	Date	of Analysis:	1/4/	2024		Wilnimum K	eporting Limit:	- 60	s/m³			
Sample #		-32			-33			-35				
Sample Location	Room 1	31, 25 feet fr	om entry	Cer	nter of room 1	130	2nd level	room 132 nea	ar tables			
	structures/	4 0	% trace	structures/		% trace	structures/		% trace			
<u>Spores</u>	sample	s/m³	scanned	sample	s/m³	scanned	sample	s/m³	scanned			
Alternaria	ND			ND			ND					
Ascospore	ND			ND			ND					
Aspergillus/Penicillium	ND			ND			ND					
Basidiospore	ND			ND			ND					
Botrytis	ND			ND			ND					
Chaetomium	ND			ND			ND					
Cladosporium	5	60	20.3%	ND			ND					
Curvularia	ND			ND			ND					
Drechslera/Bipolaris	ND			ND			ND					
Epicoccum	ND			ND			ND					
Erysiphae/Oidium	ND			ND			ND					
Fusarium	ND			ND			ND					
Hyphal Fragments	ND			ND			ND					
Nigrospora	ND			ND			ND					
Periconia/Myxomycete/Smut	ND			ND			ND					
Ulocladium/Pithomyces	ND			ND			ND					
Rhizopus	ND			ND			ND					
Stachybotrys	ND			ND			ND		1			
Stemphyllium	ND			ND			ND		1			
Torula	ND			ND			ND		1			
Miscellaneous/Unidentified Spores	ND			5	60	20.3%	ND					
Total	5	60		5	60		ND		1			
			•						•			
<u>Pollen</u>				T .		•		1	_			
Grass	ND			ND			ND					
Tree	ND			ND			ND					
Other/Unknown Pollen	ND			ND			ND					
Total	ND			ND			ND		]			
Other Particulate												
Cellulose Fibers	30	400	20.3%	20	300	20.3%	25	300	20.3%			
Fibrous Glass	ND	400	20.570	ND	300	20.570	ND	300	20.570			
Synthetic Fibers	ND			15	200	20.3%	20	300	20.3%			
	ND			ND	200	20.370	ND	300	20.376			
Mineral Fibers Opaque Particles	123	1600	20.3%	143	1800	20.3%	192	2400	20.3%			
Insect Fragments	ND	1600	20.3%	ND	1000	20.3%	ND	2400	20.3%			
Total	153	2000		178	2300		237	3000	+			
*Debris rating		2000	1	170		1	237		4			
Double family		'	J	'		J	'		J			
Notes	ş.											
Notes	<u>~</u>											
	I			I			I					



	Client Name:         Okemos Public Schools           oject Name:         Okemos Public Montessori at Central										
Da	ate of Sample	Collection:	1/3/	2024			Report Date:	1/8/	2024		
			1/3/				Analyst:		chwanitz		
			1/4/			Minimum R	eporting Limit:		s/m³		
		,									
Sample #		-13			-12			-37			
Sample Location	20 feet fro	om entry to ro	oom 124 D	Room behin	d 124 B, 10 fe	eet from door	Room 1	15 at janitor's	s sink		
0	structures/	0/203	% trace	structures/		% trace	structures/		% trace		
<u>Spores</u>	sample	s/m³	scanned	sample	s/m³	scanned	sample	s/m³	scanned		
Alternaria .	ND			ND			ND				
Ascospore	ND			ND			ND				
Aspergillus/Penicillium	ND			ND			ND				
Basidiospore	ND			ND			ND				
Botrytis	ND			ND			ND				
Chaetomium	ND			ND			ND				
Cladosporium	ND			ND			ND				
Curvularia	ND			ND			ND				
Drechslera/Bipolaris	ND			ND			ND				
Epicoccum	ND			ND			ND				
Erysiphae/Oidium	ND			ND			ND				
Fusarium	ND			ND			ND				
Hyphal Fragments	ND			ND			ND				
Nigrospora	ND			ND			ND				
Periconia/Myxomycete/Smut	ND			ND			ND				
Ulocladium/Pithomyces	ND			ND			ND				
Rhizopus	ND			ND			ND				
Stachybotrys	ND			ND			ND				
Stemphyllium	ND			ND			ND				
Torula	ND			ND			ND				
Miscellaneous/Unidentified Spores	ND			ND			ND				
Total	ND		j	ND			ND		J		
Pollen											
Grass	ND			ND			ND				
Tree	ND			ND			ND				
Other/Unknown Pollen	ND			ND			ND				
Total	ND			ND			ND				
						-			•		
Other Particulate											
Cellulose Fibers	5	60	20.3%	10	100	20.3%	20	300	20.3%		
Fibrous Glass	ND			ND			ND				
Synthetic Fibers	5	60	20.3%	5	60	20.3%	15	200	20.3%		
Mineral Fibers	ND			ND			ND				
Opaque Particles	123	1600	20.3%	34	400	20.3%	172	2200	20.3%		
Insect Fragments	ND			ND			ND				
Total	133	1720		49	560		207	2700			
*Debris rating		1		1			1				
			_			_			_		
Notes	::										
				[							



Clie Proje	Okemos Public Schools Okemos Public Montessori at Central									
·	-	0-11	4/0/					4/0	/0004	
Da	ate of Sample			2024			Report Date:		2024	
		f Submittal:		2024			Analyst:		la Schwanitz	
	Date	of Analysis:	1/4/2	2024		Minimum R	eporting Limit:	60	s/m³	
Sample #		-38			-39			-40		
Sample Location	Near center	of large office area	e, new office	Rece	eption area at	desk	Near co	enter of room	102	
Sparas	structures/ sample	s/m³	% trace scanned	structures/	- / 3	% trace scanned	structures/	- / 2	% trace	
<u>Spores</u>		3/111	Scarineu	sample	s/m³	Scarified	sample	s/m³	scanned	
Alternaria	ND			ND			ND			
Ascospore	ND			ND			ND			
Aspergillus/Penicillium	ND			ND			ND			
Basidiospore	ND			ND			ND			
Botrytis	ND			ND			ND			
Chaetomium	ND			ND			ND			
Cladosporium	ND			ND			ND			
Curvularia	ND			ND			ND			
Drechslera/Bipolaris	ND			ND			ND			
Epicoccum	ND			ND			ND			
Erysiphae/Oidium	ND			ND			ND			
Fusarium	ND			ND			ND			
Hyphal Fragments	ND			ND			ND			
Nigrospora	ND			ND			ND			
Periconia/Myxomycete/Smut	ND			ND			ND			
Ulocladium/Pithomyces	ND			ND			ND			
Rhizopus	ND			ND			ND			
Stachybotrys	ND			ND			ND			
Stemphyllium	ND			ND			ND			
Torula	ND			ND			ND			
Miscellaneous/Unidentified Spores	5	60	20.3%	ND			ND			
Total	5	60		ND			ND			
						• '			•	
<u>Pollen</u>	ND			ND			ND		Ī	
Grass	ND			ND			ND			
Tree	ND ND			ND ND			ND ND			
Other/Unknown Pollen Total	ND			ND ND			ND			
Total	ND			ND		<u>.</u>	ND		J	
Other Particulate						_				
Cellulose Fibers	20	300	20.3%	15	200	20.3%	ND			
Fibrous Glass	ND			ND			ND			
Synthetic Fibers	30	400	20.3%	5	60	20.3%	5	60	20.3%	
Mineral Fibers	ND			ND			ND			
Opaque Particles	217	2700	20.3%	89	1100	20.3%	158	2000	20.3%	
Insect Fragments	ND			ND			ND			
Total	267	3400		109	1360		163	2060		
*Debris rating		2		1			1		]	
Notes	::									
	<u> </u>	All sample	es prepared	and analyzed	d per the mo	dified ASTM	D7391-09.			



Clie		Okemos Public Schools Okemos Public Montessori at Central							
FIOJE	ct Name:			OKemos	S F UDIIC IV	ioniesson	at Central		
Da	ate of Sample	e Collection:	1/3/	2024	_		Report Date:	1/8	/2024
	Date of	of Submittal:	1/3/	2024	_		Analyst:	Kaila S	Schwanitz
	Date	of Analysis:	1/4/	2024	_	Minimum R	eporting Limit:	60	s/m³
	_						_		
Sample #		-41			-42			-43	
Sample Location	Room 10	3, 6 feet from	south wall	Room	n 104, near un	it vent	Room	105, near ce	enter
Spores	structures/ sample	s/m³	% trace scanned	structures/ sample	0/1003	% trace scanned	structures/ sample	0/203	% trace scanned
<u>Spores</u>	<u> </u>	3/111	Scarificu		s/m³	Scarified		s/m³	Scarifica
Alternaria	ND			ND			ND		
Ascospore	ND			ND			ND		
Aspergillus/Penicillium	ND			ND			ND		
Basidiospore	ND			ND			ND		
Botrytis	ND			ND			ND		
Chaetomium	ND			ND			ND		
Cladosporium	ND			ND			ND		
Curvularia	ND			ND			ND		
Drechslera/Bipolaris	ND			ND			ND		
Epicoccum	ND			ND			ND		
Erysiphae/Oidium	ND			ND			ND		
Fusarium	ND			ND			ND		
Hyphal Fragments	ND			ND			ND		
Nigrospora	ND			ND			ND		
Periconia/Myxomycete/Smut	ND			ND			ND		
Ulocladium/Pithomyces	ND			ND			ND		
Rhizopus	ND			ND			ND		
Stachybotrys	ND			ND			ND		
Stemphyllium	ND			ND			ND		
Torula	ND			ND			ND		
Miscellaneous/Unidentified Spores	ND			ND			ND		
Total	ND			ND			ND		
									_
Pollen				1		1			
Grass	ND			ND			ND		
Tree	ND			ND			ND		
Other/Unknown Pollen	ND			ND			ND		
Total	ND			ND		]	ND		
Other Particulate									
Cellulose Fibers	20	300	20.3%	10	100	20.3%	15	200	20.3%
Fibrous Glass	ND			ND			ND		
Synthetic Fibers	5	60	20.3%	5	60	20.3%	10	100	20.3%
Mineral Fibers	ND			ND			ND		
Opaque Particles	79	1000	20.3%	202	2600	20.3%	30	400	20.3%
Insect Fragments	ND			ND			ND		
Total	104	1360		217	2760		55	700	
*Debris rating		1			1	]	1		]
N1_1_									
Notes									



Cliei Proje		Okemos Public Schools Okemos Public Montessori at Central							
1 10,00	ot Hame.			OKCITIO	ST GOILG IV	10111033011	at Ochtrai		
Da	te of Sample	Collection:	1/3/	2024			Report Date:	1/8/	/2024
	Date o	of Submittal:	1/3/	2024			Analyst:	Kaila S	chwanitz
	Date	of Analysis:	1/4/	2024	•	Minimum R	eporting Limit:	60	s/m³
Commis #									
Sample #		-44			-45			-46	
Sample Location		6, 10 feet fror	m unit vent	Room 10	7, 5 feet from		Room	108 near ce	nter
Spores	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned
		5,	000111100		3/111	coamica	·	3/111-	00000
Alternaria	ND			ND			ND		-
Ascospore	ND			ND			ND		+
Aspergillus/Penicillium	ND			ND			ND		+
Basidiospore	ND			ND			ND		-
Botrytis	ND			ND			ND		-
Chaetomium	ND			ND			ND		-
Cladosporium	ND			ND			ND		
Curvularia	ND			ND			ND		
Drechslera/Bipolaris	ND			ND			ND		
Epicoccum	ND			ND			ND		
Erysiphae/Oidium	ND			ND			ND		
Fusarium	ND			ND			ND		
Hyphal Fragments	ND			ND			ND		
Nigrospora	ND			ND			ND		
Periconia/Myxomycete/Smut	ND			ND			ND		
Ulocladium/Pithomyces	ND			ND			ND		-
Rhizopus	ND			ND			ND		-
Stachybotrys	ND			ND			ND		
Stemphyllium	ND			ND			ND		+
Torula	ND ND			ND			ND ND		
Miscellaneous/Unidentified Spores <b>Total</b>	ND			ND ND			ND ND		<del> </del>
Total	ND		1	ND		<b>J</b>	ND		J
<u>Pollen</u>									
Grass	ND			ND			ND		
Tree	ND			ND			ND		
Other/Unknown Pollen	ND			ND			ND		
Total	ND			ND			ND		Ĵ
Other Particulate									
Cellulose Fibers	10	100	20.3%	20	300	20.3%	30	400	20.3%
Fibrous Glass	ND	100	20.070	ND	000	20.070	ND	100	20.070
Synthetic Fibers	5	60	20.3%	20	300	20.3%	15	200	20.3%
Mineral Fibers	ND	- 00	20.070	ND	000	20.070	ND	200	20.070
Opaque Particles	148	1900	20.3%	320	4100	20.3%	163	2100	20.3%
Insect Fragments	ND	1000	20.070	ND	7100	20.070	ND		20.070
Total	163	2060		360	4700		208	2700	†
*Debris rating		1				1	1		1
<u> </u>						<b>4</b> !			4
Notes									



Clie	Client Name: Okemos Public Schools									
Proje	ect Name:			Okemos	Public M	ontessori	at Central			
[	Date of Sample	Collection:	1/3/	2024			Report Date:	1/8/	2024	
		f Submittal:		2024			Analyst:		Kaila Schwanitz	
		of Analysis:		2024		Minimum R	eporting Limit:		s/m³	
							_			
Sample #		-47			-48			-49		
Sample Location	Men's	restroom eas	st wing	Women's res	stroom, 10 fee	et from entry		09, near bath		
<u>Spores</u>	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned	
Alternaria	ND			ND			ND			
Ascospore	5	60	20.3%	ND			10	100	20.3%	
Aspergillus/Penicillium	ND			ND			ND			
Basidiospore	ND			ND			ND			
Botrytis	ND			ND			ND			
Chaetomium	ND			ND			ND			
Cladosporium	ND			ND			ND			
Curvularia	ND			ND			ND			
Drechslera/Bipolaris	ND			ND			ND			
Epicoccum	ND			ND			ND			
Erysiphae/Oidium	ND			ND			ND			
Fusarium	ND			ND			ND			
Hyphal Fragments	ND			ND			ND			
Nigrospora	ND			ND			ND			
Periconia/Myxomycete/Smut	ND			ND			ND			
Ulocladium/Pithomyces	ND			ND			ND			
Rhizopus	ND			ND			ND			
Stachybotrys	ND			ND			ND			
Stemphyllium	ND			ND			ND			
Torula	ND			ND			ND			
Miscellaneous/Unidentified Spores	5	60	20.3%	ND			ND			
Total	10	120		ND			10	100		
Pollen										
Grass	ND			ND			ND			
Tree	ND			ND			ND			
Other/Unknown Pollen	ND			ND			ND			
Total	ND			ND			ND			
			-			_			_	
Other Particulate									1	
Cellulose Fibers	5	60	20.3%	10	100	20.3%	34	400	20.3%	
Fibrous Glass	ND			ND			ND			
Synthetic Fibers	10	100	20.3%	15	200	20.3%	15	200	20.3%	
Mineral Fibers	ND	4.400	00.557	ND	4.4	00.557	ND	4.455	00.00	
Opaque Particles	113	1400	20.3%	113	1400	20.3%	113	1400	20.3%	
Insect Fragments	ND	4500		ND 400	4700		ND 400	0000		
Total	128	1560		138	1700	4	162	2000	-	
*Debris rating	1			1		]	1		J	
Note	es:									



Clie	Client Name: Okemos Public Schools										
Proje	ct Name:	Ame: Okemos Public Montessori at Central									
Di	ate of Sample	Collection:	1/3/	2024			Report Date:	1/8	/2024		
			1/3/					Kaila S			
			1/5/			Minimum R	eporting Limit:		s/m³		
		,					· <u>-</u>				
Sample #		-50			-51		-52				
Sample Location	Room	110 at radian	t heater	Roor	n 111, near c	enter	Small office	near library,	near Tim's		
<u>Spores</u>	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned		
·		5/111	ocariiloa	·	5/111*	Coarmoa	·	5/1115	Coamiloa		
Alternaria	ND			ND			ND ND				
Ascospore	ND			ND			ND				
Aspergillus/Penicillium	ND			ND			ND				
Basidiospore	ND			ND			ND				
Botrytis	ND			ND			ND				
Chaetomium	ND			ND -			ND				
Cladosporium	ND			5	60	20.3%	ND				
Curvularia	ND			ND			ND				
Drechslera/Bipolaris	ND			ND			ND				
Epicoccum	ND			ND			ND				
Erysiphae/Oidium	ND			ND			ND				
Fusarium	ND			ND			ND				
Hyphal Fragments	ND			5	60	20.3%	ND				
Nigrospora	ND			ND			ND				
Periconia/Myxomycete/Smut	ND			ND			ND				
Ulocladium/Pithomyces	ND			ND			ND				
Rhizopus	ND			ND			ND				
Stachybotrys	ND			ND			ND				
Stemphyllium	ND			ND			ND				
Torula	ND			ND			ND				
Miscellaneous/Unidentified Spores	ND			ND			ND				
Total	ND			10	120		ND		_		
Pollen						1					
Grass	ND			ND			ND				
Tree	ND			ND			ND				
Other/Unknown Pollen	ND			ND			ND				
Total	ND			ND		_	ND				
Other Particulate						1					
Cellulose Fibers	15	200	20.3%	49	620	20.3%	34	400	20.3%		
Fibrous Glass	ND			ND			ND				
Synthetic Fibers	25	300	20.3%	74	940	20.3%	15	200	20.3%		
Mineral Fibers	ND			ND			ND				
Opaque Particles	94	1200	20.3%	340	4300	20.3%	133	1700	20.3%		
Insect Fragments	ND			ND			ND				
Total	134	1700	Į	463	5860	4	182	2300	4		
*Debris rating		1	J	2	2	]	1		J		
Notes	s:			I							
110100				ĺ							



Total

\*Debris rating

## IAQ Bioaerosol Analytical Report ERG Project Number: 230029

Date of Sample Collection:	Clie	Client Name: Okemos Public Schools									
Date of Submittal:   1/3/2024   Minimum Reporting Limit:   Gol s.m²	Proje	ct Name:									
Date of Submittal:   1/3/2024   Minimum Reporting Limit:   Gol s/m²			<u> </u>					_			
Date of Analysis: 1/5/2024   Minimum Reporting Limit: 60 s/m³	D					•		_			
Sample #   -53						•		· -			
Sample Location		Date	of Analysis:	1/5/	2024		Minimum R	eporting Limit: _	60	s/m³	
Structures/ sample   S/m³   % trace sample   S/m³	Sample #		-53			54					
Sample   S/m³   scanned   sample   samp	Sample Location	Out	of doors, do	or 12		Field Blank					
Alternaria         ND         ND           Ascospore         ND         ND           Asporgillus/Penicillium         ND         ND           Basidiospore         ND         ND           ND         ND         ND           Chaetornium         ND         ND           ND         ND         ND           Cladosporium         5         60         20.3%         ND           Curvularia         ND         ND         ND           Curvularia         ND         ND         ND           Procedislera/Bipolaris         ND         ND         ND           Epicoccum         ND         ND         ND           ND         ND         ND         ND           Picoscum         ND         ND         ND           Picosium         ND         ND         ND           ND         ND         ND         ND           Hyphal Fragments         ND         ND         ND           ND         ND         ND         ND           Periconia/Myxomycete/Smut         ND         ND         ND           ND         ND         ND         ND           Stem	Spores		s/m³			s/m³			s/m³		
Aspergillus/Penicillium	· <u> </u>	ND			ND		1				
Aspergillus/Penicillium											
Basidiospore	•										
Botrytis		-									
ND		<b></b>									
S   60   20.3%   ND	-	-									
Curvularia         ND         ND         ND           Drechslera/Bipolaris         ND         ND         ND           Epicoccum         ND         ND         ND           Epicoccum         ND         ND         ND           Fusarium         ND         ND         ND           Hyphal Fragments         ND         ND         ND           Ngrospora         ND         ND         ND           Periconia/Myxomycete/Smut         ND         ND         ND           Ulocladium/Pithomyces         ND         ND         ND           Rhizopus         ND         ND         ND           Stachybotrys         ND         ND         ND           Stemphyllium         ND         ND         ND           Total         ND         ND         ND           Miscellaneous/Unidentified Spores         ND         ND         ND           Total         ND         ND         ND         ND           Pollen           Grass         ND         ND         ND         ND           Total         ND         ND         ND         ND           Other/Unknown Pollen         ND		-	60	20.3%							
Drechslera/Bipolaris	•										
Pictorial											
Erysiphae/Oidium         ND         ND         ND           Fusarium         ND         ND         ND           Hyphal Fragments         ND         ND         ND           Nigrospora         ND         ND         ND           Periconia/Myxomycete/Smut         ND         ND         ND           Ulocladium/Pithomyces         ND         ND         ND           Rhizopus         ND         ND         ND           Stachybotrys         ND         ND         ND           Stemphyllium         ND         ND         ND           Torula         ND         ND         ND           Miscellaneous/Unidentified Spores         ND         ND         ND           Total         5         60         ND         ND           Pollen           Grass         ND         ND         ND           Tree         ND         ND         ND           Other/Unknown Pollen         ND         ND         ND           Total         ND         ND         ND           Other Particulate         S         60         20.3%         5         20.3%           Cellulose Fibers <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
Fusarium	•	-									
Hyphal Fragments	• •										
Nigrospora         ND         ND         ND           Periconia/ Myxomycete/Smut         ND         ND         ND           Ulocladium/Pithomyces         ND         ND         ND           Rhizopus         ND         ND         ND           Stachybotrys         ND         ND         ND           Stemphyllium         ND         ND         ND           Torula         ND         ND         ND           Miscellaneous/Unidentified Spores         ND         ND         ND           Total         5         60         ND         ND           Pollen           Grass         ND         ND         ND           Tree         ND         ND         ND           Other/Unknown Pollen         ND         ND         ND           Total         ND         ND         ND           Other Particulate         Cellulose Fibers         5         60         20.3%         5         20.3%         Image: Cellulose Fibers           Fibrous Glass         ND         ND         ND         ND         Image: Cellulose Fibers         5         60         20.3%         ND         ND           Mineral Fibers<		-					1				
Periconia/Myxomycete/Smut											
ND	• ,										
ND		-									
Stachybotrys         ND											
Stemphyllium		-									
Torula         ND         ND         ND           Miscellaneous/Unidentified Spores         ND         ND         ND           Total         5         60         ND         ND           Pollen           Grass         ND         ND         ND           Tree         ND         ND         ND           Other/Unknown Pollen         ND         ND         ND           Total         ND         ND         ND           Other Particulate         Sellulose Fibers         5         60         20.3%         5         20.3%           Fibrous Glass         ND         ND         ND         ND         ND           Synthetic Fibers         5         60         20.3%         ND         ND         ND           Mineral Fibers         ND         ND         ND         ND         ND         ND           Opaque Particles         74         940         20.3%         44         20.3%         ND							1				
Miscellaneous/Unidentified Spores         ND         ND         ND           Total         ND         ND         ND           Pollen           Grass         ND         ND         ND           Tree         ND         ND         ND           Other/Unknown Pollen         ND         ND         ND           Total         ND         ND         ND           Other Particulate           Cellulose Fibers         5         60         20.3%         5         20.3%         Image: Color of the policy of the											
Total							1				
ND	Total		60								
ND				4			4			4	
Tree         ND         ND         ND           Other/Unknown Pollen         ND         ND         ND           Total         ND         ND         ND              Other Particulate           Cellulose Fibers         5         60         20.3%         5         20.3%           Fibrous Glass         ND         ND         ND         ND           Synthetic Fibers         5         60         20.3%         ND         ND           Mineral Fibers         ND         ND         ND         ND           Opaque Particles         74         940         20.3%         44         20.3%	<u>Pollen</u>			•			1			T	
Other/Unknown Pollen         ND         ND         ND           Total         ND         ND         ND           Other Particulate           Cellulose Fibers         5         60         20.3%         5         20.3%           Fibrous Glass         ND         ND         ND         ND           Synthetic Fibers         5         60         20.3%         ND         ND           Mineral Fibers         ND         ND         ND         ND           Opaque Particles         74         940         20.3%         44         20.3%	Grass	ND			ND						
Other Particulate         ND         ND         ND           Cellulose Fibers         5         60         20.3%         5         20.3%         5           Fibrous Glass         ND         ND         ND         ND         ND           Synthetic Fibers         5         60         20.3%         ND         ND         ND           Mineral Fibers         ND         ND         ND         ND         ND         ND           Opaque Particles         74         940         20.3%         44         20.3%         ND         ND											
Other Particulate           Cellulose Fibers         5         60         20.3%         5         20.3%         9           Fibrous Glass         ND         ND         ND         ND           Synthetic Fibers         5         60         20.3%         ND         ND           Mineral Fibers         ND         ND         ND         ND           Opaque Particles         74         940         20.3%         44         20.3%         1											
Cellulose Fibers         5         60         20.3%         5         20.3%         1           Fibrous Glass         ND         ND         ND         ND         ND           Synthetic Fibers         5         60         20.3%         ND         ND         ND           Mineral Fibers         ND         ND         ND         ND         ND           Opaque Particles         74         940         20.3%         44         20.3%         V	Total	ND		J	ND		J				
Cellulose Fibers         5         60         20.3%         5         20.3%         1           Fibrous Glass         ND         ND         ND         ND         ND           Synthetic Fibers         5         60         20.3%         ND         ND         ND           Mineral Fibers         ND         ND         ND         ND         ND           Opaque Particles         74         940         20.3%         44         20.3%         ND	Other Particulate										
Fibrous Glass         ND         ND         ND           Synthetic Fibers         5         60         20.3%         ND           Mineral Fibers         ND         ND         ND           Opaque Particles         74         940         20.3%         44         20.3%	Cellulose Fibers	5	60	20.3%	5		20.3%				
Synthetic Fibers         5         60         20.3%         ND         ND           Mineral Fibers         ND         ND         ND         ND           Opaque Particles         74         940         20.3%         44         20.3%	Fibrous Glass	ND			ND						
Mineral Fibers         ND         ND         ND           Opaque Particles         74         940         20.3%         44         20.3%	Synthetic Fibers	-	60	20.3%							
Opaque Particles         74         940         20.3%         44         20.3%	Mineral Fibers										
	Opaque Particles		940	20.3%			20.3%				
	Insect Fragments										

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1060

49



	nt Name: ect Name:			Okemos Public Schools Okemos Public Montessori at Central						
i ioje	ct Haine.			OKEIIIOS	or ablic iv	10111633011	at Central			
Da	ate of Sample	Collection:	1/4/2	2024			Report Date:	1/10	)/2024	
	Date o	of Submittal:	1/5/2	2024			Analyst:	Kaila S	Schwanitz	
	Date	of Analysis:	1/8/2	2024		Minimum R	eporting Limit:	60	s/m³	
Sample #		-55			-56			-57		
	Hallway nea	r door to tunn	el southwest							
Sample Location		wing	•		Field Blank		Hallway Southe	∍ast, near de		
Spores	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned	
Alternaria	ND			ND	0/111		ND	0/111		
Ascospore	ND			ND			ND		-	
Aspergillus/Penicillium	ND			ND			25	300	20.3%	
Basidiospore	ND			ND			ND	300	20.576	
Botrytis	ND			ND			ND		-	
Chaetomium	ND			ND			ND		-	
	ND ND			ND			ND ND			
Cladosporium Curvularia	ND			ND			ND		4	
	ND ND			ND ND			ND ND			
Drechslera/Bipolaris	ND			ND			ND ND		4	
Epicoccum Erysiphae/Oidium	ND			ND			ND ND		4	
• •	ND ND			ND ND			ND ND			
Fusarium									-	
Hyphal Fragments	ND			ND			ND		-	
Nigrospora	ND ND			ND			ND ND		-	
Periconia/Myxomycete/Smut				ND						
Ulocladium/Pithomyces	ND			ND			ND		-	
Rhizopus	ND			ND			ND			
Stachybotrys	ND			ND			ND			
Stemphyllium	ND			ND			ND		4	
Torula	ND ND			ND ND			ND ND		-	
Miscellaneous/Unidentified Spores <b>Total</b>	ND			ND			25	200	+	
Total	ND			ND		J	25	300	J	
Pollen										
Grass	ND			ND			ND			
Tree	ND			ND			ND			
Other/Unknown Pollen	ND			ND			ND			
Total	ND			ND			ND			
Other Deutie Jete										
Other Particulate Cellulose Fibers	25	300	20.3%	ND		1	10	100	20.3%	
Fibrous Glass	ND	300	20.370	ND			ND	100	20.376	
Synthetic Fibers	20	300	20.3%	5	60	20.3%	ND ND			
Mineral Fibers	ND	300	20.3%		60	20.3%			+	
		1100	20.20/	ND 30	400	20.20/	ND 50	750	20.3%	
Opaque Particles Insect Fragments	89 ND	1100	20.3%	30 ND	400	20.3%	59 ND	750	20.3%	
Total	134	1700		35	460		69	850	+	
*Debris rating		1700		1		1	1	550	1	
· ·						4			4	
Notes	5:									
	1									



	ent Name: ect Name:					ublic Scho Iontessori			
-	ote of Comple	Collection	1/4/	2024			Papart Data:	1/10	)/2024
Ь	ate of Sample	of Submittal:		2024			Report Date:		schwanitz
				2024		Minimum D	Analyst:		
	Date	of Analysis:	1/8/	2024		Wilhimum K	eporting Limit:	- 60	s/m³
Sample #		-58			-62			-63	
Sample Location	Hally	way near Roo	m 112	Ca	afé near cent	er	Café, s	sever line near	entry
	structures/	, ,	% trace	structures/		% trace	structures/		% trace
<u>Spores</u>	sample	s/m³	scanned	sample	s/m³	scanned	sample	s/m³	scanned
Alternaria	ND			ND			ND		
Ascospore	5	60	20.3%	ND			ND		
Aspergillus/Penicillium	ND			ND			ND		
Basidiospore	ND			ND			ND		
Botrytis	ND			ND			ND		
Chaetomium	ND			ND			ND		
Cladosporium	ND			ND			ND		
Curvularia	ND			ND			ND		
Drechslera/Bipolaris	ND			ND			ND		
Epicoccum	ND			ND			ND		
Erysiphae/Oidium	ND			ND			ND		
Fusarium	ND			ND			ND		
Hyphal Fragments	10	100	20.3%	ND			ND		
Nigrospora	5	60	20.3%	ND			ND		
Periconia/Myxomycete/Smut	ND			ND			ND		
Ulocladium/Pithomyces	ND			ND			ND		
Rhizopus	ND			ND			ND		
Stachybotrys	10	100	20.3%	ND			ND		
Stemphyllium	ND			ND			ND		
Torula	ND			ND			ND		1
Miscellaneous/Unidentified Spores	ND			ND			ND		1
Total	30	320		ND			ND		
			<u>-</u>			<u>-</u>			=
Pollen			_	1					_
Grass	ND			ND			ND		
Tree	ND			ND			ND		
Other/Unknown Pollen	ND			ND			ND		
Total	ND			ND			ND		J
Other Particulate									
Cellulose Fibers	15	200	20.3%	15	200	20.3%	15	200	20.3%
Fibrous Glass	ND	200	20.070	ND	200	20.070	ND	200	20.070
Synthetic Fibers	74	940	20.3%	5	60	20.3%	ND		+
Mineral Fibers	ND	U-TU	20.070	ND ND	- 00	20.070	ND		<del>                                     </del>
Opaque Particles	232	2900	20.3%	118	1500	20.3%	69	870	20.3%
Insect Fragments	ND	2300	20.3/0	ND	1300	20.3/0	ND	070	20.370
Total	321	4040		138	1760		84	1070	
*Debris rating		1	1	100		1	1		1
							<u>'</u>		1
Notes	s:								
,,,,,,									



\*Debris rating

## **IAQ Bioaerosol Analytical Report** ERG Project Number: 230029

Clie	nt Name:			0	kemos F	Public Scho	ools		
	Project Name:				Okemos Public Montessori at Central				
				OROTHOO	1 abile i	vioritoocori	at Contrai		
Di	ate of Sample	Collection	1/4/	2024			Report Date:	1/10	/2024
		f Submittal:		2024			Analyst:		chwanitz
		of Analysis:		2024		Minimum R	eporting Limit:		s/m³
	Date	or rulalyolo.	1707	2024		Will lill I Gill I V	coporting Emilic _	- 00	5/111
Sample #		-64							
Sample Location		Hallway off 1:							
<u>Spores</u>	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned
Alternaria	ND								
Ascospore	ND								
Aspergillus/Penicillium	15	200	20.3%						
Basidiospore	ND								
Botrytis	ND								
Chaetomium	ND								
Cladosporium	ND								
Curvularia	ND								
Drechslera/Bipolaris	ND								
Epicoccum	ND								
Erysiphae/Oidium	ND								
Fusarium	ND								
Hyphal Fragments	5	60	20.3%						
Nigrospora	ND								
Periconia/Myxomycete/Smut	ND								
Ulocladium/Pithomyces	ND								
Rhizopus	ND								
Stachybotrys	ND								
Stemphyllium	ND								
Torula	ND								
Miscellaneous/Unidentified Spores	ND								
Total	20	260							
Pallan									
<u>Pollen</u>	ND I		1	T		1	<del>                                     </del>		1
Grass	ND					+			
Tree Other/Unknown Pollen	ND ND					-			
Total	ND								4
Total	ND		J			_			1
Other Particulate									
Cellulose Fibers	30	400	20.3%						
Fibrous Glass	ND								
Synthetic Fibers	5	60	20.3%						
Mineral Fibers	ND								
Opaque Particles	167	2100	20.3%						
Insect Fragments	ND								
Total	202	2560							



	ent Name: ect Name:					ublic Scho Iontessori			
	ate of Sample	Callagtion	1/5/	2024			Report Date:	1/0	/2024
D.		f Submittal:		2024			Analyst:		Schwanitz
		of Analysis:		2024		Minimum D	eporting Limit:		s/m³
	Date	OI Allalysis.	1/3/	2024		WIIIIIIIII K	eporting Limit.	- 60	5/1119
Sample #		-66			-67			-68	
Sample Location	Gym	office near o	center	At edge	of carpet, ro	om 135		Field Blank	
•	structures/	- 1 2	% trace	structures/		% trace	structures/		% trace
<u>Spores</u>	sample	s/m³	scanned	sample	s/m³	scanned	sample	s/m³	scanned
Alternaria	ND			ND			ND		
Ascospore	ND			ND			ND	<u> </u>	_
Aspergillus/Penicillium	ND			ND			ND	<u> </u>	_
Basidiospore	ND			ND			ND		
Botrytis	ND			ND			ND		
Chaetomium	ND			ND			ND		
Cladosporium	5	60	20.3%	ND			ND		
Curvularia	ND			ND			ND		
Drechslera/Bipolaris	ND			ND			ND		
Epicoccum	ND			ND			ND		
Erysiphae/Oidium	ND			ND			ND		
Fusarium	ND			ND			ND		
Hyphal Fragments	ND			ND			ND		
Nigrospora	ND			ND			ND		
Periconia/Myxomycete/Smut	ND			ND			ND		
Ulocladium/Pithomyces	ND			ND			ND		
Rhizopus	ND			ND			ND		
Stachybotrys	ND			ND			ND		
Stemphyllium	ND			ND			ND		
Torula	ND			ND			ND		
Miscellaneous/Unidentified Spores	ND			ND			ND		
Total	5	60		ND			ND		
			_			-			_
Pollen			1			1			1
Grass	ND			ND			ND	<u> </u>	_
Tree	ND			ND			ND	<del></del>	_
Other/Unknown Pollen	ND			ND			ND		4
Total	ND			ND			ND		J
Other Particulate									
Cellulose Fibers	25	300	20.3%	10	100	20.3%	5	60	20.3%
Fibrous Glass	ND		20.070	ND		20.070	ND		20.070
Synthetic Fibers	10	100	20.3%	5	60	20.3%	ND		
Mineral Fibers	ND	100	20.070	ND		20.070	ND		1
Opaque Particles	143	1800	20.3%	94	1200	20.3%	15	200	20.3%
Insect Fragments	ND	1000	20.070	ND	1200	20.070	ND		20.070
Total	178	2200		109	1360		20	260	†
*Debris rating		1	1	1		1	1		1
Ç	-					<b>a</b> 1			4
Notes	3:								



Clie	nt Name:			Okemos Public Schools Okemos Public Montessori at Central					
Proje	ct Name:			Okemos Public Montesson at Central					
Da	ate of Sample				ī		Report Date:		
		of Submittal:			i		Analyst:		chwanitz
	Date	of Analysis:	1/5/:	2024		Minimum R	eporting Limit: _	60 s	s/m³
Sample #		-69							
	Cor	nter of room 12	24. A						
Sample Location		iter or room 12							
Spores	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned	structures/ sample	s/m³	% trace scanned
Alternaria	ND				3/111		,	3/111	
Ascospore	ND								
Aspergillus/Penicillium	ND								
Basidiospore	ND								
Botrytis	ND								
Chaetomium	ND								
Cladosporium	ND								
Curvularia	ND								
Drechslera/Bipolaris	ND								
Epicoccum	ND								
Erysiphae/Oidium	ND								
Fusarium	ND								
Hyphal Fragments	ND								
Nigrospora	ND								
Periconia/Myxomycete/Smut	ND								
Ulocladium/Pithomyces	ND								
Rhizopus	ND								
Stachybotrys	ND								
Stemphyllium	ND								
Torula	ND								
Miscellaneous/Unidentified Spores	ND								
Total	ND								
						4			ı
<u>Pollen</u>									
Grass	ND								
Tree	ND								
Other/Unknown Pollen	ND								
Total	ND								
						_			ł
Other Particulate									
Cellulose Fibers	ND								
Fibrous Glass	ND								
Synthetic Fibers	10	100	20.3%						
Mineral Fibers	ND								
Opaque Particles	34	400	20.3%						
Insect Fragments	ND								
Total	44	500							
*Debris rating		1							1
			· '						·
Notes	:								



## IAQ Surface Sample Analytical Results ERG Project Number: 230029

Client Name:			Okemos Public Schools				
Project Name: Okemos Public Montessori at Central							
Date of Sample Colle	ction:	1/2/2024	Report Date:	1/4/2024			
Date of Subr	mittal:	1/2/2024	Analyst:	Kaila Schwanitz	_		
Date of Ana	alysis:	1/2/2024					

Sample #	-5	-8	
Sample Type	Microvacuum	Microvacuum	
Sample Location	Room 116, under sink	Room 119, at unit vent	
Spores, Pollen, and Other			
Particulate (In decreasing	Non Fibrous Matter	Non Fibrous Matter	
order of abundance)	Aspergillus/Penicillium	Synthetic Fibers	
	Opaque Particles	Cellulose Fibers	
	Synthetic Fibers	Opaque Particles	
	Cellulose Fibers	Pollen	
		Cladosporium	
		Ascospore	
		Alternaria	
		Periconia/Myxomycete/Smut	
		Hyphal Fragments	
Notes:	This sample contains	This sample contains approximately	
NOTES.	approximately 3% spores.	1% spores and related structures.	

 $Surface \ samples \ were \ analyzed \ pursuant \ to \ the \ requirements \ of \ the \ ASTM \ International \ Standard \ D-7391.$ 



## IAQ Surface Sample Analytical Results ERG Project Number: 230029

Client Name:	Okemos Public Schools
Proiect Name:	Okemos Public Montessori at Central

 Date of Sample Collection:
 1/2/2024
 Report Date:

 Date of Submittal:
 1/3/2024
 Analyst:

 Date of Analysis:
 1/3/2024

Sample TypeTape LiftTape LiftMicrovacuumSample LocationRoom 124 B, black materialRoom behind 124 B, blackRoom 129, under radiaSpores, Pollen, and Other Particulate (In decreasing)Cellulose FibersNon Fibrous MatterNon Fibrous Matter	Sample #	-16	-17	-24
Room 124 B, black material   Room behind 124 B, black   Room 129, under radia   Rooms political professing order of abundance   Cellulose Fibers   Non Fibrous Matter   Copaque Particles   Cellulose Fibers   Cellulose Fibers   Synthetic Fibers   Synthetic Fibers   Synthetic Fibers   Cellulose Fibers   Synthetic Fibers   Cellulose Fib	Sample Type			
Ascospore  Cellulose Fibers Non Fibrous Matter Opaque Particles Ascospore  Cellulose Fibers Non Fibrous Matter Opaque Particles Cellulose Fibers Synthetic Fibers  Non Fibrous Matter Opaque Particles Cellulose Fibers Synthetic Fibers  Non Fibrous Matter Opaque Particles Cellulose Fibers Synthetic Fibers  Non Fibrous Matter Opaque Particles Cellulose Fibers Synthetic Fibers		Room 124 B, black material		Room 129, under radiant
Cellulose Fibers Non Fibrous Matter Opaque Particles Ascospore  Cellulose Fibers Non Fibrous Matter Stachybotrys Opaque Particles Cellulose Fibers Synthetic Fibers Synthetic Fibers Cellulose Fibers Synthetic Fibers	Spores, Pollen, and Other			
Non Fibrous Matter Opaque Particles Opaque Particles Ascospore Opaque Particles Cellulose Fibers Synthetic Fibers Opaque Particles Cellulose Fibers Synthetic Fibers	Particulate (In decreasing	Cellulose Fibers	Non Fibrous Matter	Non Fibrous Matter
Ascospore  Cellulose Fibers Synthetic Fibers  Synthetic Fibers	order of abundance)	Non Fibrous Matter	Stachybotrys	Opaque Particles
Synthetic Fibers		Opaque Particles	Opaque Particles	Cellulose Fibers
		Ascospore	Cellulose Fibers	Synthetic Fibers
lotes:  This sample contains <1% spores.  This sample contains 3% spores.			Synthetic Fibers	
lotes:  This sample contains <1% spores.  This sample contains 3% spores.				
lotes:  This sample contains <1% spores. This sample contains 3% spores.				
lotes:  This sample contains <1% spores.  This sample contains 3% spores.				
lotes:  This sample contains <1% spores. This sample contains 3% spores.				
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lotes:  This sample contains <1% spores.  This sample contains 3% spores.				
lotes:  This sample contains <1% spores.  This sample contains 3% spores.				
lotes:  This sample contains <1% spores.  This sample contains 3% spores.				
lotes:  This sample contains <1% spores.  This sample contains 3% spores.				
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lotes:  This sample contains <1% spores.  This sample contains 3% spores.				
lotes: This sample contains <1% spores. This sample contains 3% spores.				
NOTES: This sample contains <1% spores. This sample contains 3% spores.	Matas	This cample contains 410/ on area	This cample contains 20/ angres	
	NOTES:	This sample contains <1% spores.	This sample contains 3% spores.	

 $Surface \ samples \ were \ analyzed \ pursuant \ to \ the \ requirements \ of \ the \ ASTM \ International \ Standard \ D-7391.$ 

1/5/2024

Kaila Schwanitz



## IAQ Surface Sample Analytical Results ERG Project Number: 230029

Client Name:	Okemos Public Schools						
Project Name:	Okemos Public Montessori at Central						
Date of Sample Collection:	1/3/2024	Report Date:	1/8/2024				
Date of Submittal:	1/3/2024	Analyst:	Kaila Schwanitz				
Date of Analysis:	1/5/2024	_					

Sample #	-27	-31	-34
Sample Type	Microvacuum	Tape Lift	Microvacuum
Sample Location	Room 120 on carpet at unit	Room 135, on mold near	Outside of room 130, stained
Spores, Pollen, and Other			
Particulate (In decreasing	Non Fibrous Matter	Stachybotrys	Non Fibrous Matter
order of abundance)	Opaque Particles	Non Fibrous Matter	Synthetic Fibers
-	Synthetic Fibers	Synthetic Fibers	Cellulose Fibers
	Cellulose Fibers	Hyphal Fragments	Ascospore
		Cellulose Fibers	Periconia/Myxomycete/Smut
		Opaque Particles	
		Aspergillus/Penicillium	
		Ascospore	
Notes:		This sample contains approximately	This sample contains <1% spores.
140100.		10% spores and related structures.	,

Surface samples were analyzed pursuant to the requirements of the ASTM International Standard D-7391.





Notes:

ERG Project Number: 230029

	et Name:et Name:	Okemos Public Schools Okemos Public Montessori at Central					
i rojec	name.	Okemos i ubile iviontesson	at German				
Da	te of Sample Collection: 1/3/	2024	Report Date: 1/8/2024				
		2024	Analyst: Kaila Schwanitz				
	Date of Analysis: 1/5/	2024					
ample #	-36 Table 1 111						
ample Type	Tape Lift						
ample Location	Supply air grill, room 112						
pores, Pollen, and Other	Non Fibrous Matter						
articulate (In decreasing	Synthetic Fibers						
rder of abundance)	Ascospore						
	Opaque Particles						
	Opaque Faiticles						

Surface samples were analyzed pursuant to the requirements of the ASTM International Standard D-7391.

This sample contains <1% spores.



# IAQ Surface Sample Analytical Results

**ERG Project Number:** 230029 Okemos |

Client Name:	Okemos Public Schools						
Project Name:	Okemos Public	c Montessori at Central					
Date of Sample Collection:	1/4/2024	Report Date:	1/8/2024				
Date of Submittal:	1/5/2024	Analyst:	Kaila Schwanitz				
Date of Analysis:	1/8/2024	_					

Sample #	-59	-60	-61	
Sample Type	Microvacuum	Microvacuum	Microvacuum	
Sample Location	Room 102, on carpet near	Room 105 on carpet at unit	Room 106 at unit vent carpet	
Spores, Pollen, and Other	·	·	·	
Particulate (In decreasing	Non Fibrous Matter	Non Fibrous Matter	Non Fibrous Matter	
order of abundance)	Synthetic Fibers	Stachybotrys	Aspergillus/Penicillium	
ŕ	Opaque Particles	Opaque Particles	Cladosporium	
	Cellulose Fibers	Cellulose Fibers	Opaque Particles	
	Hyphal Fragments	Cladosporium	Cellulose Fibers	
	Pithomyces	Ascospore	Periconia/Myxomycete/Smut	
	Cladosporium	Pollen	Pithomyces	
	Ascospore	Miscellaneous/Unidentified Spores	Hyphal Fragments	
	Pollen			
	Periconia/Myxomycete/Smut			
	Nigrospora			
Notes:	This sample contains approximately 1% spores and	This sample contains <1% spores.	This sample containsapproximately 4% spores.	
	related structures.			

Surface samples were analyzed pursuant to the requirements of the ASTM International Standard D-7391.



Client Name: Okemos Public Schools



ERG Project Number: 230029

Project Name: Okemos Public Montessori at Central				
			_	
Da		2024	Report Date:	1/10/2024
		2024	Analyst:	Kaila Schwanitz
	Date of Analysis: 1/8/	2024		
[O ]	0.5			
Sample #	-65		<b></b>	
Sample Type	Tape Lift		<b></b>	
Sample Location	Room 110, white material			
Spores, Pollen, and Other				
Particulate (In decreasing	Non Fibrous Matter			
order of abundance)	Synthetic Fibers			
	Opaque Particles			
	Alternaria			
	Cladosporium			
Notes:	This sample contains <1% spores.			

Surface samples were analyzed pursuant to the requirements of the ASTM International Standard D-7391.



1/8/2024

Date of Analysis:

Client Name:	nt Name: Okemos Public Schools			
Project Name:	Okemos Public Montessori at Central			
Date of Sample Collection:	1/5/2024	Report Date:	1/10/2024	
Date of Submittal:	1/5/2024	Analyst:	Kaila Schwanitz	

Sample #	-70	-71	-72
Sample Type	Tape Lift	Tape Lift	Tape Lift
Sample Location	Room 106 near filter at unit	Room 107 near unit vent	Room 105 unit vent
Spores, Pollen, and Other			
Particulate (In decreasing	Non Fibrous Matter	Non Fibrous Matter	Non Fibrous Matter
order of abundance)	Opaque Particles	Synthetic Fibers	Synthetic Fibers
	 Cladosporium	Cladosporium	Opaque Particles
	Cellulose Fibers	Opaque Particles	Cellulose Fibers
	Ascospore	Ascospore	Ascospore
	Synthetic Fibers	Cellulose Fibers	Hyphal Fragments
	Periconia/Myxomycete/Smut	Hyphal Fragments	Cladosporium
	Hyphal Fragments	Pollen	Periconia/Myxomycete/Smut
	Nigrospora		Pollen
	Pollen		i olion
	1 Glicii		
Notes:	This sample contains	The sample contains approximately	This sample contains <1% spores.
	approximately 4% spores and related structures.	2% spores and related structures.	
	rolatoa otraotaroa.		



Client Name: Okemos Public Schools				
Project Name:	Okemos Public Montessori at Central			
Date of Sample Collection:	1/29/2024	Report Date:	1/30/2024	
Date of Submittal:	1/30/2024	Analyst:	Kaila Schwanitz	
Date of Analysis:	1/30/2024	_		

Sample #	73	74	75
Sample Type	Microvacuum	Microvacuum	Microvacuum
Sample Location	Cafeteria	Hallway off 135	Room 131, Window Ledge
Spores, Pollen, and Other		-	
Particulate (In decreasing	Non Fibrous Matter	Non Fibrous Matter	Non Fibrous Matter
order of abundance)	Synthetic Fibers	Synthetic Fibers	Synthetic Fibers
,	Opaque Particles	Opaque Particles	Cellulose Fibers
	Cellulose Fibers	Cellulose Fibers	Opaque Particles
	Pollen		Ascospore
			Miscellaneous/Unidentified Spores Pollen Stemphyllium Nigrospora Cladosporium Hyphal Fragments
Natar			This comple contains approximate
Notes:			This sample contains approximatel 2% spores and related structures.



Client Name:	Okemos Public Schools
Project Name:	Okemos Public Montessori at Central

 Date of Sample Collection:
 1/29/2024

 Date of Submittal:
 1/30/2024

 Date of Analysis:
 1/30/2024

Report Date: 1/30/2024
Analyst: Kaila Schwanitz

Sample #	76	77	78
Sample Type	Microvacuum	Microvacuum	Microvacuum
Sample Location	Room 130, at sink	Gym, smartboard stand	Gym Office
Spores, Pollen, and Other		-	-
Particulate (In decreasing	Non Fibrous Matter	Synthetic Fibers	Non Fibrous Matter
order of abundance)	Synthetic Fibers	Non Fibrous Matter	Synthetic Fibers
,	Opaque Particles	Opaque Particles	Cellulose Fibers
	Cellulose Fibers	Cellulose Fibers	Opaque Particles
	Ascospore	Ascospore	Ascospore
	Cladosporium	Nigrospora	Aspergillus/Penicillium
	Pollen	Periconia/Myxomycete/Smut	Pollen
	Miscellaneous/Unidentified Spores		
	Hyphal Fragments		
	Periconia/Myxomycete/Smut		
	Nigrospora		
	Pithomyces		
	·		
Notes:	This sample contains approximately 4% spores and	This sample contains <1% spores.	This sample contains <1% spores.
	related structures.		



Client Name: _	Name: Okemos Public Schools				
Project Name: _	oject Name: Okemos Public Montessori at Central				
_					
Date of Sample	Sample Collection: 1/29/2024 Report Date: 1/30/2024				
Date of	Submittal:	1/30/2024	Analyst:	Kaila Schwanitz	
Date o	of Analysis:	1/30/2024	_		

Sample #	79	80	81
Sample Type	Microvacuum	Microvacuum	Microvacuum
Sample Location	Childcare, upper Gym	Main Office	Main Office, desk
Spores, Pollen, and Other			
Particulate (In decreasing	Non Fibrous Matter	Non Fibrous Matter	Non Fibrous Matter
order of abundance)	Synthetic Fibers	Synthetic Fibers	Synthetic Fibers
,	Opaque Particles	Cellulose Fibers	Opaque Particles
	Cellulose Fibers	Opaque Particles	Cellulose Fibers
	Ascospore	Ascospore	Ascospore
	Pollen	Aspergillus/Penicillium	Hyphal Fragments
	Miscellaneous/Unidentified Spores	Hyphal Fragments	Cladosporium
	Periconia/Myxomycete/Smut	Miscellaneous/Unidentified Spores	Alternaria
		Cladosporium	Periconia/Myxomycete/Smut Pithomyces
Notes:	This sample contains <1% spores.	This sample contains <1% spores and related structures.	This sample contains approximatel 1% spores and related structures.



Client Name: Okemos Public Schools					
Project Name:	roject Name: Okemos Public Montessori at Central				
Date of Sample Collection:	1/29/2024	Report Date:	1/30/2024		
Date of Submittal:	1/30/2024	Analyst:	Kaila Schwanitz		
Date of Analysis:	1/30/2024	- -			

Sample #	82	83	84
Sample Type	Microvacuum	Microvacuum	Microvacuum
Sample Location	Room 111, shelf	Office next to Tim's	Room 104, cabinet
Spores, Pollen, and Other	•		
Particulate (In decreasing	Synthetic Fibers	Non Fibrous Matter	Non Fibrous Matter
order of abundance)	Non Fibrous Matter	Synthetic Fibers	Synthetic Fibers
order of abundance)	Non Fibrous Matter Opaque Particles Cellulose Fibers	Synthetic Fibers Opaque Particles Ascospore	Synthetic Fibers Opaque Particles Cellulose Fibers Ascospore Aspergillus/Penicillium Hyphal Fragments Pollen Cladosporium
Notes		This comple contains <10/ cn ===	This comple contains approximately
Notes:		This sample contains <1% spores.	This sample contains approximately 2% spores and related structures.



Client Name: Okemos Public Schools				
Project Name: Okemos Public Montessori at Central				
Date of Sample Collection:	1/29/2024	Report Date:	1/30/2024	
Date of Submittal:	1/30/2024	Analyst:	Kaila Schwanitz	
Date of Analysis:	1/30/2024			

Sample #	85	86	87
Sample Type	Microvacuum	Microvacuum	Microvacuum
Sample Location	Room 108, window ledge	Men's Bathroom, near 108	Women's Bathroom, near 108
Spores, Pollen, and Other			
Particulate (In decreasing	Non Fibrous Matter	Non Fibrous Matter	Non Fibrous Matter
order of abundance)	Synthetic Fibers	Synthetic Fibers	Synthetic Fibers
•	Opaque Particles	Cellulose Fibers	Cellulose Fibers
	Cellulose Fibers	Opaque Particles	Opaque Particles
	Periconia/Myxomycete/Smut		Ascospore
			Cladosporium
			Periconia/Myxomycete/Smut
			Pollen
			Miscellaneous/Unidentified Spores
			Hyphal Fragments
Notes:	This sample contains <1% spores.		This sample contains <1% spores a
			related structures.



Client Name:	Okemos Public Schools
Project Name:	Okemos Public Montessori at Central
•	

Date of Sample Collection: 1/29/2024

Date of Submittal: 1/30/2024

Date of Analysis: 1/30/2024

Report Date: 1/30/2024

Analyst: Kaila Schwanitz

Sample #	88	89	90
Sample Type	Microvacuum	Microvacuum	Microvacuum
Sample Location	Room 107, near lamp	Room 112, table	Room 115, top of cabinet
Spores, Pollen, and Other	,	,	, ,
Particulate (In decreasing	Non Fibrous Matter	Non Fibrous Matter	Non Fibrous Matter
order of abundance)	Synthetic Fibers	Synthetic Fibers	Synthetic Fibers
,	Opaque Particles	Opaque Particles	Opaque Particles
	Cellulose Fibers	Cellulose Fibers	Ascospore
	Ascospore	Cladosporium	Stachybotrys
	Periconia/Myxomycete/Smut	Periconia/Myxomycete/Smut	Pollen
	Pollen	Nigrospora	Periconia/Myxomycete/Smut
	Nigrospora	Pollen	Pithomyces
	• ,	Chaetomium	·
Notes:	This sample contains <1% spores.	This sample contains <1% spores.	This sample contains approximately
NOLES.	The sample contains 170 spores.	The sample contains \$170 spores.	1% spores.
			·



Client Name:	C	kemos Public Schools	
Project Name:	Okem	os Public Montessori at Central	
Date of Sample Collection:	1/29/2024	Report Date: _	1/30/2024
Date of Submittal:	1/30/2024	Analyst:	Kaila Schwanitz
Date of Analysis:	1/30/2024	_	

Sample #	91	92	93
Sample Type	Microvacuum	Microvacuum	Microvacuum
Sample Location	Staff Room, under closet	Room 124D, top of cabinet	Room 124C, behind chair
Spores, Pollen, and Other			
Particulate (In decreasing	Synthetic Fibers	Non Fibrous Matter	Non Fibrous Matter
order of abundance)	Cellulose Fibers	Synthetic Fibers	Synthetic Fibers
,	Non Fibrous Matter	Opaque Particles	Cellulose Fibers
	Opaque Particles	Cellulose Fibers	Ascospore
			Cladosporium
Notes:			This sample contains <1% spores.



Client Name:	Okemos	s Public Schools	
Project Name:	Okemos Public Montessori at Central		
Date of Sample Collection:	1/29/2024	Report Date:	1/30/2024
Date of Submittal:	1/30/2024	Analyst:	Kaila Schwanitz
Date of Analysis:	1/30/2024	, <u> </u>	

Sample #	94	
Sample Type	Microvacuum	
Sample Location	124A Entrance	
Spores, Pollen, and Other		
Particulate (In decreasing	Non Fibrous Matter	
order of abundance)	Synthetic Fibers	
· ·	Opaque Particles	
	Cellulose Fibers	
Notes:		



Client Name:	Okemo	os Public School	
Project Name:	e: Okemos Public Montessori at Central		
Date of Sample Collection	n: 1/29/2024	Report Date:	1/30/2024
Date of Submittal	I: 1/30/2024	Analyst:	Phillip A. Peterson
Date of Analysis	1/30/2024	_	

Sample #	95	96	97
Sample Type	Microvacuum	Microvacuum	Microvacuum
Sample Location	Room 116, on computer	Room 117, near door	Men's RR, near 117
Spores, Pollen, and Other			
Particulate (In decreasing	Non Fibrous Matter	Non Fibrous Matter	Synthetic Fibers
order of abundance)	Synthetic Fibers	Synthetic Fibers	Non Fibrous Matter
•	Cellulose Fibers	Opaque Particles	Cellulose Fibers
	Opaque Particles	Cladosporium	Opaque Particles
	Pithomyces	Ascospore	Aspergillus/Penicillium
	Alternaria	Pollen	
	Ascospore	Aspergillus/Penicillium	
	Epicoccum		
Notes:	This sample contains <1% spores.	This sample contains <1% spores.	This sample contains <1% spores



Client Name:	Okemos Public School	
Project Name:	Okemos Public Montessori at Central	

Date of Sample Collection: 1/29/2024

Date of Submittal: 1/30/2024

Date of Analysis: 1/30/2024

Report Date: 1/30/2024
Analyst: Phillip A. Peterson

Sample #	98	99	100
Sample Type	Microvacuum	Microvacuum	Microvacuum
Sample Location	Women's RR, near 117	Room 118, under vent	Room 125, under desk
Spores, Pollen, and Other			
Particulate (In decreasing	Non Fibrous Matter	Non Fibrous Matter	Non Fibrous Matter
order of abundance)	Synthetic Fibers	Synthetic Fibers	Synthetic Fibers
,	Cellulose Fibers	Opaque Particles	Cellulose Fibers
	Opaque Particles	Aspergillus/Penicillium	Fibrous Glass
	Aspergillus/Penicillium	Ascospore	Opaque Particles
	Cladosporium	Cladosporium	Aspergillus/Penicillium
	,	Basidiospore	. Epicoccum
		·	, Basidiospore
			Insect Fragments
			g
Notes:	This sample contains <1% spores.	This sample contains <1% spores.	This sample contains approximate
			4% spores.



Client Name:	Okemos Public School			
Project Name:	Okemos Public Montessori at Central			
Date of Sample Collection:	1/29/2024	Report Date: _	1/30/2024	
Date of Submittal:	1/30/2024	Analyst:	Phillip A. Peterson	
Date of Analysis:	1/30/2024			

Sample #	101	102	103
Sample Type	Microvacuum	Microvacuum	Microvacuum
Sample Location	Peace Room	Room 129, back wall ledge	Room 127, near bookcase
Spores, Pollen, and Other			
Particulate (In decreasing	Non Fibrous Matter	Synthetic Fibers	Non Fibrous Matter
order of abundance)	Synthetic Fibers	Non Fibrous Matter	Synthetic Fibers
,	Cellulose Fibers	Basidiospore	Cellulose Fibers
	Opaque Particles	Insect Fragments	Opaque Particles
	Pollen		
Notes:		This sample contains <1% spores.	
		·	



Client Name:			Okemos Public School	
Project Name:		Okemo	s Public Montessori at Central	
Date of Sample	Collection:	1/29/2024	Report Date:	1/30/2024
Date o	f Submittal:	1/30/2024	Analyst:	Phillip A. Peterson
Date	of Analysis:	1/30/2024	- -	

Sample #	104	105	106
Sample Type	Microvacuum	Microvacuum	Microvacuum
Sample Location	Room 121, shelf	Room 123, near vent	Library door
Spores, Pollen, and Other			
Particulate (In decreasing	Synthetic Fibers	Synthetic Fibers	Non Fibrous Matter
order of abundance)	Cellulose Fibers	Cellulose Fibers	Synthetic Fibers
,	Hair	Non Fibrous Matter	Cellulose Fibers
	Non Fibrous Matter	Opaque Particles	Opaque Particles
	Opaque Particles		Periconia/Myxomycete/Smut
	Epicoccum		Basidiospore
			Cladosporium
			Pithomyces
			Pollen
			Insect Fragments
Notes:	This sample contains <1% spores.		This sample contains <1% spores.



Client Name:	Okemo	s Public Schools	
Project Name:	Okemos Public Mo	ontessori at Central	
Date of Sample Collection:	1/31/2024	Report Date: _	1/31/2024
Date of Submittal:	1/31/2024	Analyst:	Phillip A. Peterson
Date of Analysis:	1/31/2024	_	

Sample #	107	108	
Sample Type	Microvacuum	Microvacuum	
Sample Location	Room 128, carpet	Room 103, carpet near sink	
Spores, Pollen, and Other	, <u>'</u>	, ,	
Particulate (In decreasing	Synthetic Fibers	Non Fibrous Matter	
order of abundance)	Non Fibrous Matter	Synthetic Fibers	
	Opaque Particles	Opaque Particles	
	Cellulose Fibers	Aspergillus/Penicillium	
		Fibrous Glass	
Notes:		This sample contains approximately	
		5% spores.	



Client Name: OKomos Pubic Schools							PARA	METE	RS			Matrix Code
Contact Person: K. Pela-SC1												s Soil Gw Ground Water
Project Name/ Number: 336029	CODE		П									A Air SW Surface Water
Project Location: Public Montesorri at Contral	R FOR										빌	O Oil W Wastewater
Email Distribution List:	(SEE RIGHT CORNER FOR	NERS									HOLD SAMPLE	B Bulks X Other: Specify
Phone No.:	SEE RIC	OF CONTAINERS	প্ৰ								=	^
Purchase Order No.:	MATRIX (	5	TAG			1						A
Date Time Sample # Client Sample Descriptor	M.A.	0 #	1-4									Remarks:
1/2/24 -01 Field Blank	A	i	X									0 (
-03 New water water room	A	1	X									79 L-8- 15.8 @ SAIN
-03 Boom 110 Dear anter	A	l	X									79 L BA 15
- 04 Roun 117 Weer early	A	1	×									79 L - BA
-05 on carpet under sinklib cabinet room 110	A	l	X									MV
	A	j	X									79L-BA
-07 Room 19 Near anter	A	١	X									79 L - BA
-08 encapet at unit went	A	i	X									MV
-09 words comiliant	A	1	X									79L-BA
3												
Comments:									÷	in accept	able (	condition
Gampled/Relinquished By:	Date	/ Time	24 (	2	11: 2	7.2	Rece	ived E	y:	ille G	1	X
Just I Por Plulls a fellinquished By:  Plulls a fellinguished By:  Plulls a fellinguished By:	Date	/ Time					_	ived E		Ty of	4-6	12
Klulfsti Jel			24	12	:01							<b>_</b>
Relinquished By:	Date	/ Time					Rece	ived B	y Lab	oratory:	1	la hertanta
<u>Turnaround Time</u> ALL RESULTS WILL BE SENT BY THE I	ND OF T	HE BUSI	NESS D	AY					$\neg$		-44	LAB USE ONLY
Same day 2 bus. days	-	3	bus. do	ıys			_4 bus	. days		ERG pro	ect n	umber: 230029 /0006
5-7 bus. days (standard) Other (specify time/date requirement):					_					Tempero (if applic		pon receipt at Lab
	Pleas	e see	bac	k fo	r terr	ms a	nd c	onc	litio	าร		

PAGE 201 25 1.05 6

Environmental Resources Group

	PARAMETERS	RS	Matrix Code
1		s soil	GW Ground Water
Contact Person: 14, V.C. HANSON	-:-	A A	SW Surface Water
			W Wastewater
Dessen @ Central			,
		B Bulks	A Other specify
CHI CO		ног	
S S S S S S S S S S S S S S S S S S S			2
rder No.:	25 40 	Synday	,
Sample # Client Sample Descriptor	+	77	76/
A STATE OF THE STATE OF MEST A	× -		2
Near GALT OF	×	BA	1
PEL THING 124 124	>	84	796
A Giran	< >	22	1
	4		1
A MBY 3/01 LAND ANTON JONE (1882)		131	
A 101 28 101 A		PA PA	BA - 79.C
Carling Carling		1 S	100°
Stel Rom 124 B	X	14	0
17 Black mark it. Obeck or: A	X -		774
DONCE BOLL	×	18A-7	747
(A) HO (A)		₩8	BA-796
A KEMISH NECT CONTY A	Samples rec	Samples received in acceptable condition	
Comments:	0.000		
Inde/ Tme		Bring O PA	
Sampled/Relinquished By:	18:00	Up li KN	
Date/		Ву	
Guly C. L. D	01/03/24 06:44	B. J. Landonie	1111
Relinquished By:	Date/ Time Received	Received by Laboratory.	he delinely
Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY	HE BUSINESS DAY		LAB USE ONLT
some day 2 bus. day 2 bus. days	3 bus. days 4 bus. days		ERG project number: $.230029/0006$
Other (specify lime/date requirement):		Temperature upon receipt at Lab	celpt at Lab
(2-7 DO): 0.07 (3) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4			
Please	Please see back for terms and conditions	ditions	5
			e.

PAGES of \$3 2052

Environmental Resources Group

Client Name:	905			PARAMETERS		Matrix Code	
Contact Person:	K. R. HUSO					S Soil	GW Ground Water
Project Name/ Number: 3300 30	oer: 230030f	K CODE				A Air	SW Surface Water
Project Location:	antai	EK FO			APLE	<u></u>	W Wastewater
Email Distribution List:		иЕВ2			OFD SAN	B Bulks	X Other: Specify
Phone No.:			E		Н		ď
Purchase Order No.:			)\\ <u>7</u>				2
Date Time	Sample # Client Sample Descriptor	-	2			Remarks:	
V2/24	20 - Room 124 weer lenter	- t	×			791- BA	
_	21 Rum 120 anter of room	1 4	×			791-BA	
	23 Rec 121, 12, Gon entry	1	×			791-BA	, and the second
	23 Roum 123 55/7 Neer	١	×			79L-BA	
	100000	- +	×			NV	
	so, them da		*		X	796- BA	
7	10 out-of days outside	<i>-</i>	>				
	-		<b>(</b>				
Comments:			S	Samples received in acceptable condition	in acceptable o	condilion	
Sampled/Relinquished By:	d By:	Date/Time	08:91 0 h	Received By:			
Relinduished By:		Date/ Time	)	Received By:			,
Relinquished By:		Date/ Time		Received By Laboratory:	oratory:	Man San S	Lehruth
	<u>Turnaround Time</u> ALL RESULTS WILL BE SENT BY THE END	OF THE BUSINESS DAY	IESS DAY			TAB USE O	NIL S
Same day	1 bus. day 2 bus. days	34	3 bus, days	4 bus. days	ERG project number.	лтрег	
5-7 bus. days (standard)	standard) Other (specify time/date requirement):				Temperature u (if applicable)	Temperature upon receipt at Lab (if applicable):	
	Id.	ease see	Please see back for terms and	nd conditions	SI		



Client Name: Alkonos Public Schools		PARAMETERS	Matrix Code	-
m: K PckrSon			s Soil	GW Ground Water
umber: JACOD C			AAir	SW Surface Water
Leson, at olamos			<u>⊙</u> ⊙	W Wastewater
Email Distribution List:	S		SA Bulks	X Other: Specify
IGHTC			ногр	
Phone No.:	атис Д f		1	
				ر
# Client Sample Descriptor	+		Remarks:	
13/24 27 Recorded on the All	X			
11 way # 85-	×		BA-796	15.8 @ MILO
A Mary as board as	Х 1		BA-791	
New Carles of Car	. ×		BA-796	
On mold beer cove melding	7		7006	
Room (31) 25, Ro	×		BA- 79L	
23 CROTE OF ROOM 120	× ×		162-AB	
Stained Corpet in	( >		N/	
) ( s	× ×		3A-79C	
4 200 then that the Court	×		13 A - 79.C	
		Samples received in acceptable condition	table condition	
uished By:	1/3/24-@10:33	Received By: R. L.		
Refinquished By:	/ Iime	Received By:		
Relinquished By: Date/ Time	/ Iime	Received By Laboratory:	Mayburtel	Math
Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY	HE BUSINESS DAY		LAB USE	ONLY
Same day 2 bus. days	3 bus. days	4 bus. days ERG pri	ERG project number: $23002$	230029/0006
		Tempe (if appl	Temperature upon receipt at Lab (if applicable):	
Pla	ase see back for terms and conditions	nd conditions		



Hart Name O'N DO School S			PARAMETERS		Matrix Code		
元 女子38					s Soil	Gw Ground Water	
umber:	CODE				A Air	SW Surface Water	
roject Location: Public Mintesson, at anyal	R FOR			3147	i <u>ö</u>		
mail Distribution List:				VAS Q1	B Bulks	X Other: Specify	
No vo	NIVINE	<del></del>		IOH			
on Judan No		A]				ر	
Sample # Client Sample [		_			Remarks:		
-	1 *	×			13A - 79L		
36 supply are sail	A	×			Tape		
Read 115	)   	<b>×</b>			BA-796		
Supplied to State of the second	- 4	×			BA-796		
Recephen	4	×			RA-796		
NEON GAR OFREMIOS	-	X			BA-791		
Rom 100,	-	×			BA-796		
TICH JOSA ( HO) CHO CLI	4	×			BA-796		
J 185 281	-	×			BA-79L		
	-	×			BA-791		
			Samples received in acceptable condition	in acceptable	condition		11.00m, m
			и	7			
ampled/Relinquished By:	Date/ Time	0	Received]By:	J.			
elfnqUkfned By:	Date/ Time		Received By:				
elinquished By:	Date/ Time		Received By Laboratory:	ooratory:	neulus.	Helanth	İ
<u>Iumaround Time</u> ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY	D OF THE BU	SINESS DAY			LAB USE	USE ONLY	
		3 bus. days	4 bus. days	ERG project number:	umber:		
X5-7 bus. days (standard) Other (specify time/date requirement):				Temperature (if applicable	Temperature upon receipt at Lab (if applicable):		
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100/36 2/1/10 3 00 0/10		1	PARAMETERS		Matrix Code	
100011 40500				S Soil	Gw Ground Water	
umber:	S FOR CODE				SW Surface Water W Wastewater	
imail Distribution List:				OID 24W	X Other: Specify	
hone No.:	ONTAIN	10		)H		
e Order No.:		QI.	******	Remarks:	)	
Action 1075 Strain Control Con	-	×		- BA-	796	П
- 41 Row 186	\ \ \	<b>×</b>		-		$\neg$
7 Mens or	- d	×				$\neg$
MOM	4	×				$\neg$
ROON 10	- -	×				$\neg$
Som 110 at gadient	- 4	×				Т
Koun Koum	- 4	×				$\neg$
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3-400	ر لا	×		<del>-</del> >		Т
	41	7		8 C		T
1	•		Samples received	Samples received in acceptable condition		
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(M. Children By:	⊒,⊑		Received By:	2		
kelinquished By:	Date/ Time		Received By Laboratory:	oratory:	In Solvette	$\prod$
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5-7 bus. days (standard) Other (specify time/date requirement):				Temperature upon receipt at Lab (if applicable):	at Lab	
	lease se	e back for term	Please see back for terms and conditions	SL		



	_					_						
Client Name: Okanes Public Schools				ж.,			P.	ARAME	TERS			Matrix Code
Contact Person: IL, Peter Son						T						S Soil GW Ground Water
Project Name/ Number: 230079	CODE											A Air SW Surface Water
Project Location: Public monterssori ot antral	FORG							1	1		ä	O Oil W Wastewater
Email Distribution List:	(SEE RIGHT CORNER FOR CODE)										HOLD SAMPLE	B Bulks X Other: Specify
	GHTC	INERS	d								OLD	
Phone No.:	(SEE RI	# OF CONTAINERS	TAR								Ť	<b>&amp;</b> 0
Purchase Order No.:	MATRIX	)FCC	静					1				K L
Date Time Sample # Client Sample Descriptor		#	-			_	_	_	$\perp$		+	Remarks:
14/23 Swwing	A	1	×			_	_	_	_		_	BA-79L - 15.80 ISL
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A.	1	X			_	_	_	_			OL
57 Hallway SE Hall way Necr	A.	1	X									BA-79L
1.70	A	-1	メ									BA-79L
2d ou carbet near ant next	A	1	X									MV
59 on carpet wearant vent	A	1	X									MV
61 Room 100 at unit verticipat	A	1	X									MU
-62 case near center	A	1	×									BA-75L
-63 cate sever line weer	A	1	X									BA-75L
-64 Hallway OFF 135	A	(	Х			$\perp$					$\perp$	BA-754
Comments:							San	ples re	ceive	d in accep	table	condition
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Mu Belinquished By:	V5	/au	t_(c	٤ رو	3:1	5_	D.	ceived				
pelliquistred by:	Dale	ime					Ke	ceived	ı by:			
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Turnaround Time ALL RESULTS WILL BE SENT BY THE END	OF TH	IE BUSI	NESS D	AY						,		LAB USE ONLY
	_	3	bus, do	ays		_	4 k	ous. day	ys	ERG pro	ject n	umber:
5-7 bus. days (standard) Other (specify time/date requirement):					_					Temper (if appli		ipon receipt at Lab :
Ple	ease	see	bac	k fo	or te	rms	and	con	ditio	ns		

No sample collected out of doors temp was 290



		_											
Client Name: Olemos	Public Schools	1			ă.			PARA	METE	RS			Matrix Code
Contact Person:	Peterson												S Soil GW Ground Water
Project Name/ Number: 23003	99	CODE											A Air SW Surface Water
Project Location: Public of	Montesomiat antral	F F										끪	O Oil W Wastewater
Email Distribution List:		MATRIX (SEE RIGHT CORNER FOR CODE)	OF CONTAINERS									HOLD SAMPLE	B Bulks X Other: Specify
Phone No.:		(SEE RI	INTAI	4								ĭ	$\Omega$
Purchase Order No.:		IZ EX	FCC	140									
Date Time Sample #	Client Sample Descriptor		#	7	_	_							Remarks:
1/4/23 65 W	nife material on cove	A	-(	X									Tape
					$\perp$			Ш					
					$\perp$			Ш					
													-1 p
					$\top$								
Comments:						•	s	ample	es rec	eivec	in accep	otable	condition
Sampled/Relinquished By:		Date	Time		C		,	Rece	ived B	y:			
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Turnar	round Time ALL RESULTS WILL BE SENT BY THE END	OF TI	E BUSIN	IESS DA	Υ								LAB USE ONLY
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					_		_														
Client Nar	me: C	Kemo	s Public	Schools				12			PARA	METERS	5			Matrix Code					
Contact P	erson:	K	. Peterson	9												S Soil GW Ground Water					
Project No	me/ Numb	73	00 89		CODE								1			A Air SW Surface Water					
Project Lo	cation: C	Keno	s Pubic Mi	onh ssori at	FORG										삘	O Oil W Wastewater					
Project Location: Okenos Pubic Munh sscrigt Email Distribution List:  Cantral				(SEE RIGHT CORNER FOR CODE)	ERS							×		HOLD SAMPLE	B Bulks X Other: Specify						
Phone No.:					SEE RIG	OF CONTAINERS	4								오	E .					
Purchase (	Order No.:				MATRIX	50	178									N C					
Date	Time	Sample #		ole Descriptor		0 #	1-1		$\perp$				$\perp$			Remarks:					
1/5/24	i	66	Gym office	wear Exper som	A	1	X			$\perp$						BA- 79L - 15.8 Qt 15 min					
		47	at edge of c	wrper kour	A	1	X									BA-79L					
		60	Field Blo	ink	A	l	X									0 4					
		69	center of roo	mlayA	A	\	х									BA-79L					
															S						
																16 3 Sans					
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Comments	:									S	ample	s receiv	ed in	acceptal	ole co	ondition ***.					
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Relinquished By:						Time						ved By	Labor	poratory: Beach Asharts							
		Ţ	urnaround Time ALL RESUL	TS WILL BE SENT BY THE END	OF TH	E BUSIN	NESS DA	ΑY						LAB USE ONLY							
Same day 1 bus. day 2 bus. days						31	ous. da	us. days4 b					E	ERG project number:							
5-7 bus. days (standard) Other (specify time/date requirement):															Temperature upon receipt at Lab (if applicable):						
			see	bac	k for	term	ns ar	nd co	ondit	ions	ns										



Client Name: OKLMOS Public Schools							PAR	AMET	ERS				Matrix Code			
Contact Person: K. Peterson  Project Name/ Number: 230029 montesson;  Project Location: OkenOs Public School Contact  Email Distribution List:  Phone No.:  Purchase Order No.:	MATRIX (SEE RIGHT CORNER FOR CODE)	OF CONTAINERS	TAG									HOLD SAMP	S Soil  A Air  O Oil  B Bulks  Gw Ground Water  Wastewater  X Other: Specify  Remarks:			
Date Time Sample # 3 Client Sample Descriptor  1/5/24 70 65 Room 100 Near following	A	#=					-									
1/s/24 70 65 Room lot near filter of Room 107, when first wate	A	1	X										tape tape			
72 1 Room 105 unito ent	A	1	X										tape			
												1				
					_	_	1					1				
					-	-	$\vdash$		_	_	-	+				
							Sample	201.10	alvac	Up acc	entable		ondition .			
Comments:							Jumpie	23 166	E		epidol		,			
Sampled/Relinquished By:	Date/	Time					Rece	ived E	зу:							
Sampled/Relinquished By:  Relinquished By:	Date/	S/S	44				Rece	lved E	By:							
	D-1-1	Time					Pogg	lund 0	lv l al	oraton						
Relinquished By:	Date/ Time							iveu t	y Lui	oorator	To	a	ale Saturity			
Turnaround Time ALL RESULTS WILL BE SENT BY THE ENG		OF THE BUSINESS DAY									LAB USE ONLY					
Same day1 bus. day2 bus. days		3 1	ous. do	ays	,		_ 4 bus.	days		ERG project number:						
5-7 bus, days (standard) Other (specify time/date requirement):										Temperature upon receipt at Lab (if applicable):						
Ple	ease	see	bac	k fo	or terr	ns a	nd c	onc	litio	ns						



			_										1				
Client Name: Okemos Public Schools								PARA	METER.	S				Malrix Code			
Project Location: OKemos Public Montessoni Email Distribution List: at antal, Olamos	SEE RICHT CORNER FOR CODE	ERS										D SAMPLE	S Soil A Air O Oil B Bulks		sw	Ground Water  Surface Water  Wastewater  Other: Specify	
Phone No.:	EE RIGH	OF CONTAINERS	1			.						HOLD					
Purchase Order No.:		Õ	AA			:											
Date   Time   Sample #   Client Sample Descriptor	MATRIX	40	H										Remarks:				
130/24 73 73 Catebria on topot metal bookcase Near ext. door 74-02 Hallway off 135, 5 from	A	1	X										MV				
1 74-02 Hallway Off 135, 5 hom	A	1	X										)				
75 -03 Boom 131 on window ledge	A	1	· X														
76 - 04 Room 130 our sink cabinet	A	1	X														
77 -05 Gym on metal smart board	A	1	X		1												
76 - The lour office what couch	A	L	X		1												
79 -07 Child care upper sym on	A		×														
20 - 60 Main office (principle office)  81 - 64 Room III on shalf wear	A	1	K		1					L							
El -04 on disk pear entry to	A	1	X	_	-	_	_	$\perp$									
	A	1	X										<u> </u>				
Comments:							Sam	ples re	ecelve	ed In	acceptat	Je co	ndition				
ampled/Relinquished By:	Date/	Time	12	46	7	150	Re	ceive	d By:								
elinquished By:	Date/		15				elvec	ву:									
elinquished By:	Date/	Time					Red	elvec	By Lo	aboralory: Hend							
· <u>Turnaround Time</u> ALL RESULTS WILL BE SENT BY THE END	OF THE	BUSINE	SS DA	Y						LAB USE ONLY							
Same day1 bus. day2 bus. days	3 bus. days							ıs. day	/s	ERG project number: 238029 / 0006							
5-7 bus. days (standard) Other (specify time/date requirement);										Temperature upon receipt at Lab (If applicable):							
· Ple	ease	see b	ack	for	terr	ms c	and	con	ditio	ns							



OKEMOS Public Schools PARAMETERS Matrix Code Client Name: K. Peterson GW Ground Water Contact Person: S |Soil (SEE RIGHT CORNER FOR CODE) Project Name/ Number: 230029 A Air SW Surface Water Project Location: OPM OOil HOLD SAMPLE W Wastewater Email Distribution List: B Bulks X Other: Specify # OF CONTAINERS Phone No.: Purchase Order No.: Client Sample Descriptor Remarks: Date Sample # on carpet at entry on IN mital cabinet or shift A 83 MI Room 108 on window 6 ( Staff room on carpet under Room 1240 on the of ai cabind near window Comments: Samples received in acceptable condition Sampled/Relinquished By: Date/Time Received By: Received By: Relinquished By: Received By Laboratory: Relinquished By: Date/Time LAB USE ONLY · Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY ERG project number: 230029/8006 Same day \_\_\_ I bus. day \_ 2 bus. days \_\_\_ 3 bus. days \_\_\_ 4 bus. days Temperature upon receipt at Lab Other (specify time/date requirement): \_\_\_ \_5-7 bus. days (standard) (if applicable):

Please see back for terms and conditions

School	3125 Sovereign Drive • Suite B • Lansing, MI 48911 Phone: 517-999-6020 • Fax 248-924-3108	Environmental Resources Group	

Contact Person: Client Name: Email Distribution Ust: Project Location: Project Name/ Number: 130/24 Purchase Order No.: Phone No.: Relinquished By: Relinquished By: Comments: Sampled/Relinquished By: Date Same day \_5-7 bus. days (standard) 95 Time 38 5 99 01 100 oldemos 1 1000 of of The state of 25 k. Sample # 230029 \_\_ 1 bus. day Peterson Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY On corpet DO THE FLOOP OF CUTANCE Room 118 sunder unit vent Room 124c on Floor bening react room Room 125 whole dish on STALON Row III on computer Roum on le ろつい しいなかん Other (specify time/date requirement): 20 Client Sample Descriptor Stan Poen III ochools on towel dupen Hear mall Look on hour 2 bus. days Troop inter Please see back for terms and conditions V30/24
Date/ Time P Date/ Time MATRIX (SEE RIGHT CORNER FOR CODE) Date/ Time P > # OF CONTAINERS 3 bus. days X X DAT 0 7:58 \_ 4 bus. days Samples received in acceptable condition PARAMETERS Received By: Received By: Received By Laboratory: ERG project number: 230029/0006 Temperature upon receipt at Lab (It applicable): HOLD SAMPLE B Bulks O > Oi ≥i Remarks: Matrix Code GW Ground Water w wastewater SW Surface Water Other: Specify



Okemos Public Schools PARAMETERS Matrix Code Client Name: GW Ground Water 12. Peterson S Soil Contact Person: MATRIX ISEE RIGHT CORNER FOR CODE Project Name/ Number: 230029 A Air SW Surface Water OOil HOLD SAMPLE W Wastewater Project Location: 08m X Other: Specify B Bulks Email Distribution List: # OF CONTAINERS Phone No.: Purchase Order No.: Remarks: Date Time Sample # Client Sample Descriptor ROOM 127 NOOF BOOK Case 103 MU on carpet Room 121 on ship new 164 OU Carbet of pook care 165 101. Samples received in acceptable condition Comments: Received By: Date/ Time Sampled/Relinquished By: Date/ Time Received By: Relinquished By: Received By Laboratory: Date/Time Relinquished By: · Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY ERG project number: 230029 /0006 4 bus, days \_ 3 bus. days Same day \_ 1 bus. day 2 bus. days Temperature upon receipt at Lab Other (specify time/date requirement): \_ \_\_5-7 bus. days (standard) (If applicable): Please see back for terms and conditions



Client No	me: 6	6 mos	Public Schools								PARA	METE	RS			Mairix Code				
Project No Project Lo Email Distr	Person:  ame/ Numb  callon:  d k  libullon List:	K. P.	e terson	SEE RIGHT CORNER FOR CODE)	OF CONTAINERS										HOLD SAMPLE	S Soil  A Air  O Oil  B Bulks  GW  Ground Water  SW Surface Water  Wastewater  X Other: Specify				
Phone No				— ×	NO N	Q		-	:											
Purchase Date		Sample #	Client Sample Descriptor	MATRIX	# OF	TAG										Remarks:				
1/31/24		107	Room 128 on carpet	A	1	X										MU				
7.		108	Room 128 on carpet	A	l	X							1			MU				
								1												
								_												
								-				_								
Comments:														acceptat						
	By:			Date/1	Time \/a 4	ne 124 C 8:24					ceive	d By:	1	40		Rt (fold)				
delinquished By:					lime					Red	celved	d By L	abor	atory:						
													LAR HEE CAHA							
Same day 1 bus. day 2 bus. days									_ 4 b	us. day	ys	ERG project number. 230027								
5-7 bus. days (standard) Other (specify time/date requirement):														Temperature upon receipt at Lab (if applicable):						
:			P	lease s	see b	pack	for	terr	ms c	and	con	ditio	ons							

# Appendix E Digital Photograph Log-IAQ



Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



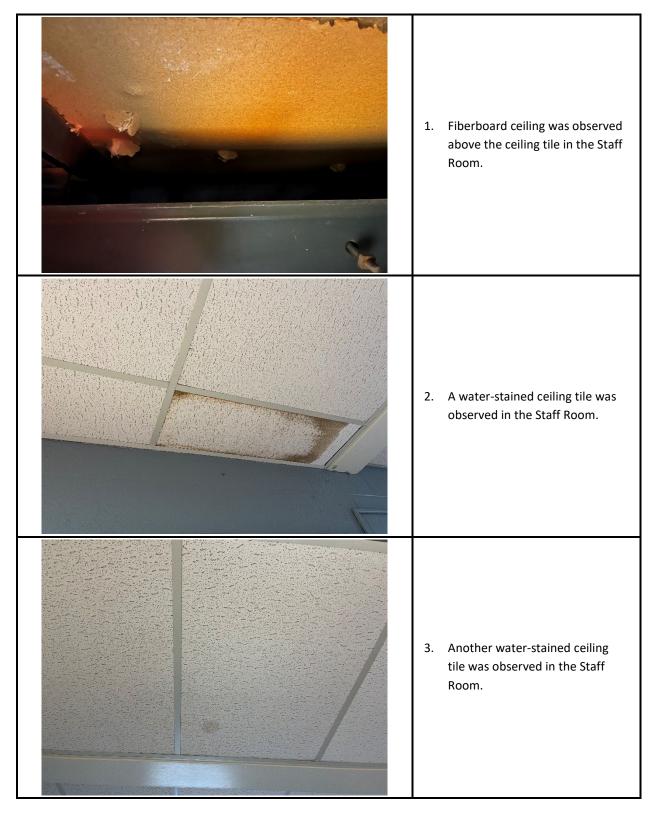


Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos

ERG Project #: 230029





4. Stained carpet was observed in Room 116.



5. Water stains and paint was observed to be peeling on the supply air diffuser in Room 116.



6. Paint was observed to be peeling on the door frame in Room 116.

Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



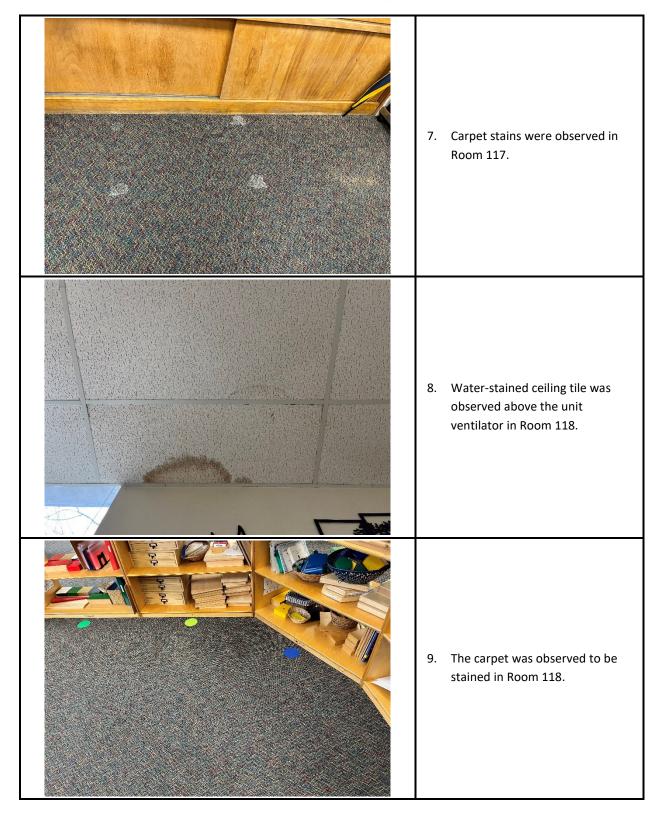


Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



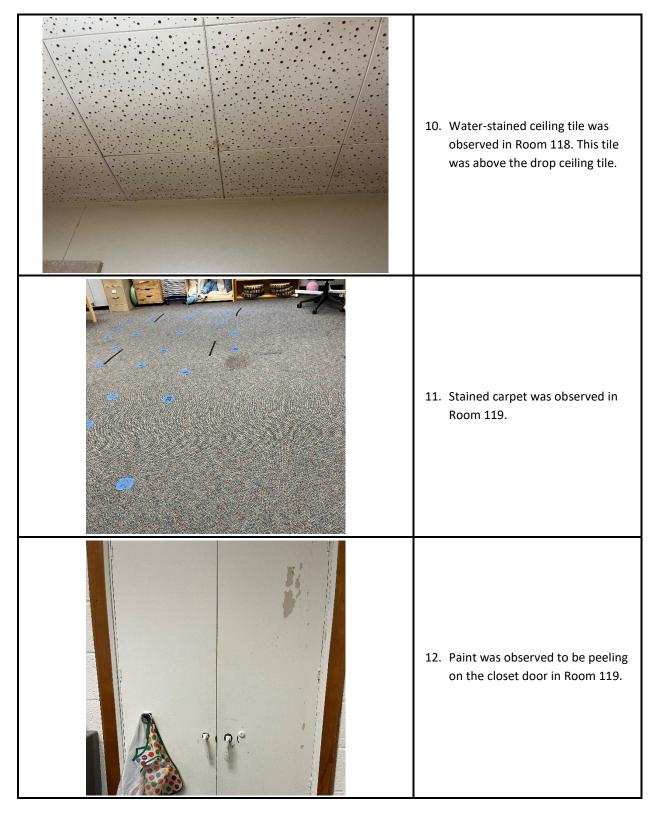


Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



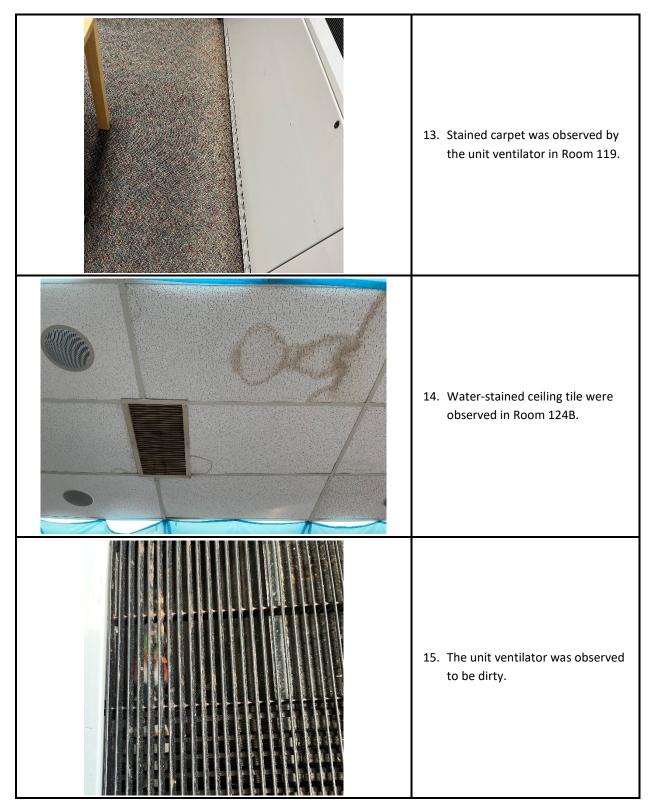


Photo taken by: ERG

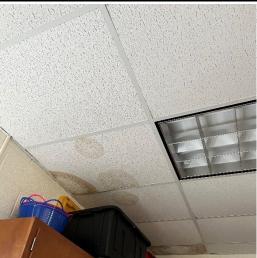
Site: Okemos Public Montessori at Central, Okemos

ERG Project #: 230029

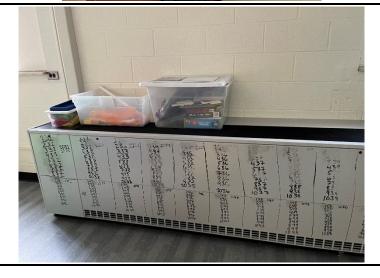




16. Mold was observed on the tectum decking in Room 124B.



17. Water-stained ceiling tile were observed in the Room behind Room 124B.



18. The unit ventilator was slightly obstructed by materials.

Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos

ERG Project #: 230029





 The paint was peeling on the door in room behind Room 124B.



20. Mold was observed on the tectum decking above the drop ceiling tile in room behind 124B (124E).



21. Mouse droppings were observed above the drop ceiling tile in the Room behind Room 124B.

Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos

ERG Project #: 230029





22. The paint was observed to be peeling on the door in Room 124D.



23. Water-stained ceiling tile were observed in Room 124D.



24. Paint was observed to be peeling on the door in Room 124C.

Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



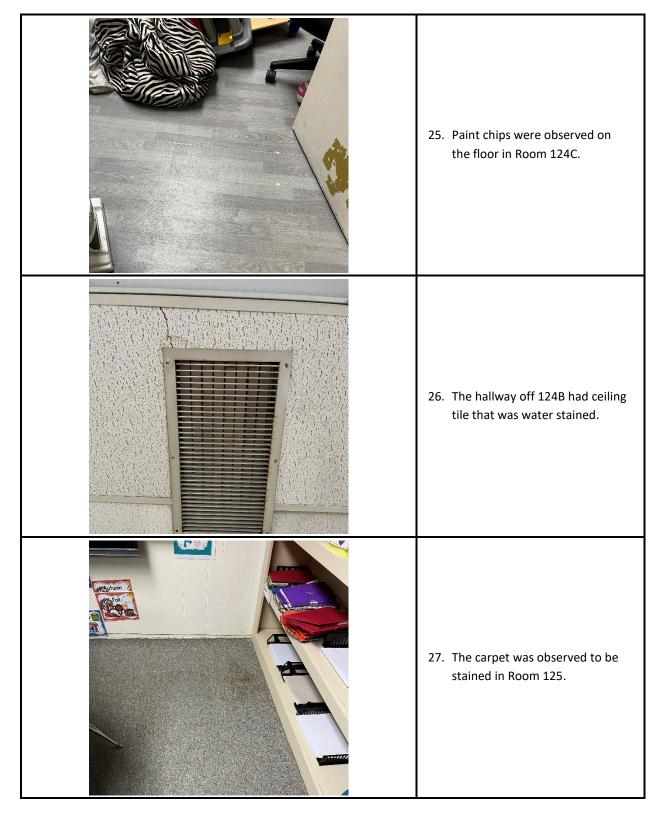


Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos

ERG Project #: 230029





28. Room 125 had a damaged plaster ceiling.



29. Water-stained ceiling tile was observed in Room 125.



30. A capped drain was observed in the Peace Room 126. These openings were covered by a floor leveling compound installed as part of flooring replacement.

Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos

ERG Project #: 230029





31. Stained carpet was observed in Room 129.



32. Room 127 had water-stained ceiling tile.



33. The unit ventilator was slightly obstructed in Room 127.

Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



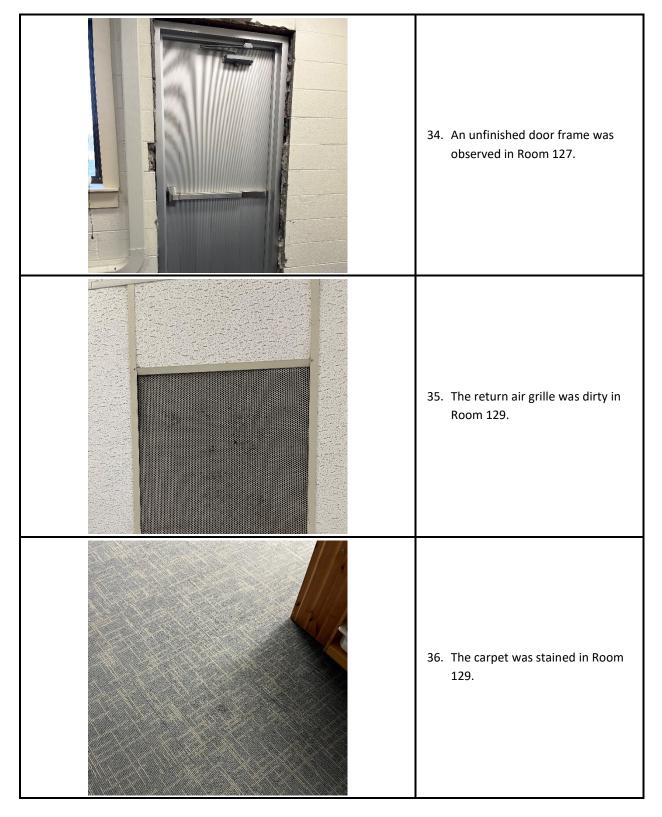


Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



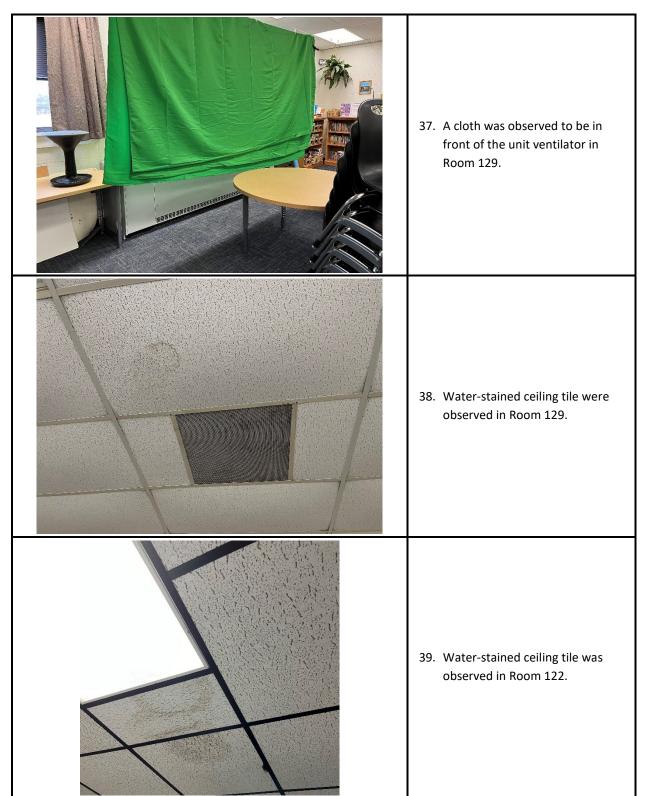


Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



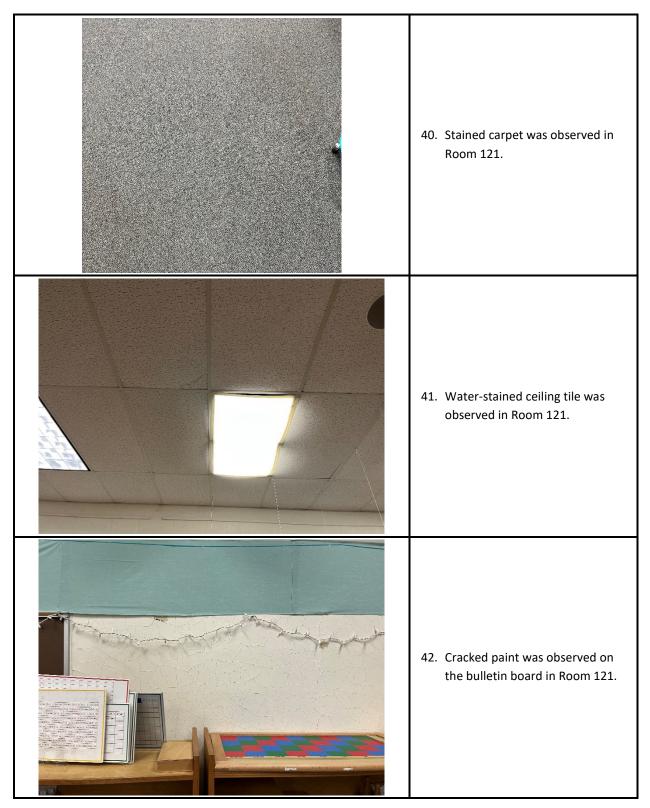


Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



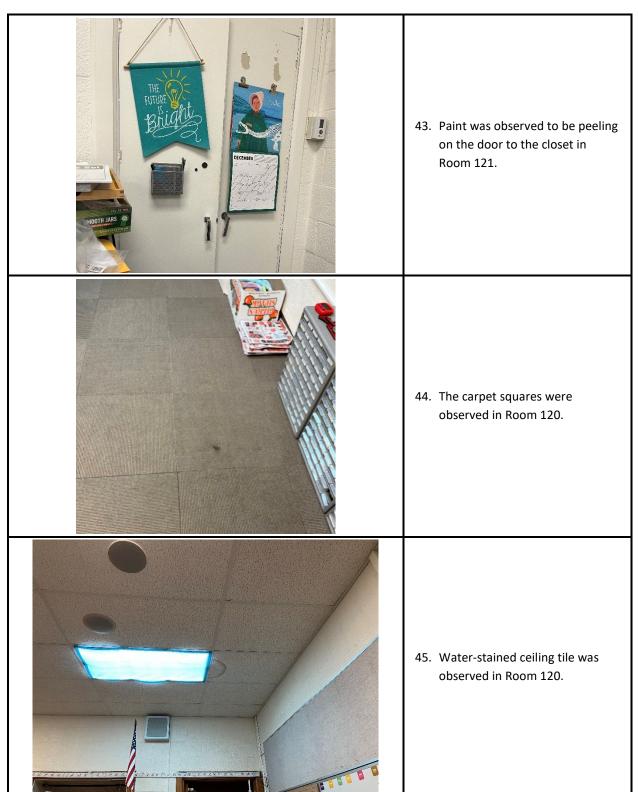


Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



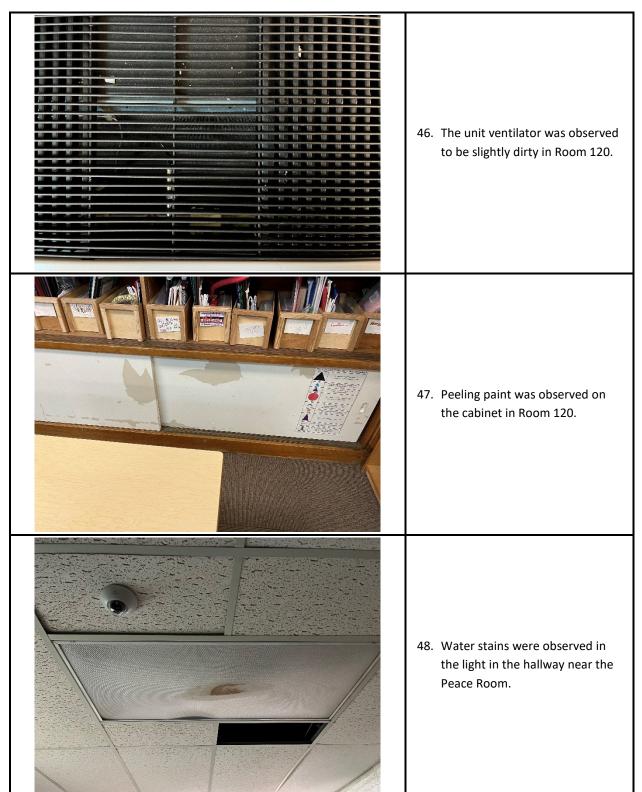


Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



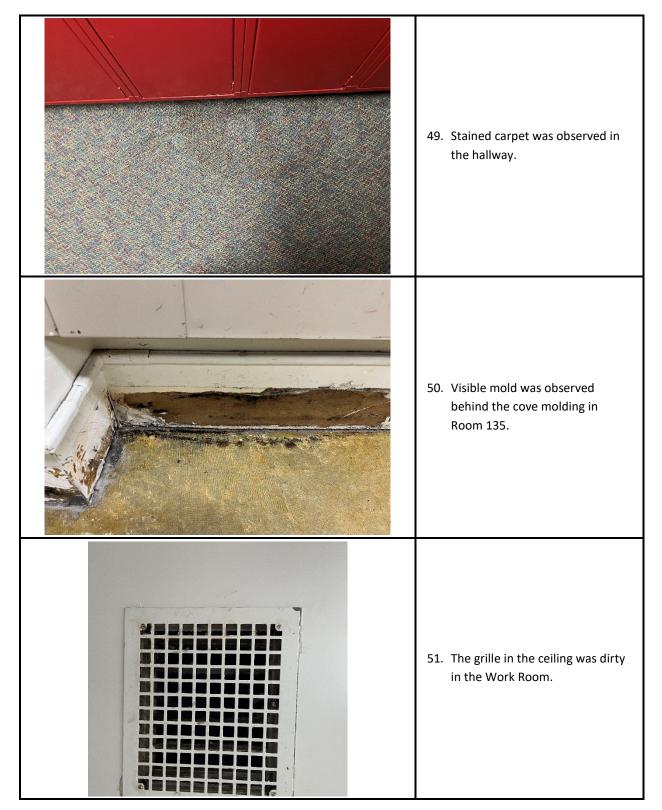


Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



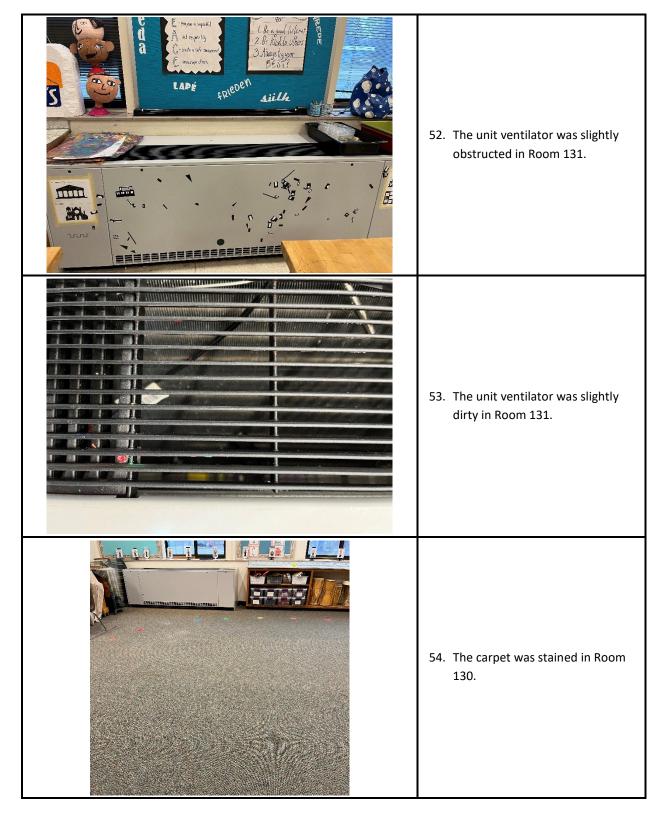
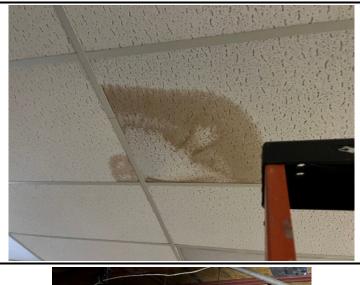


Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos

ERG Project #: 230029





55. Water-stained ceiling tile was observed in Room 130.



56. Area above the ceiling tile in Room 130.



57. Water-stained ceiling tile was observed in the Library.

Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



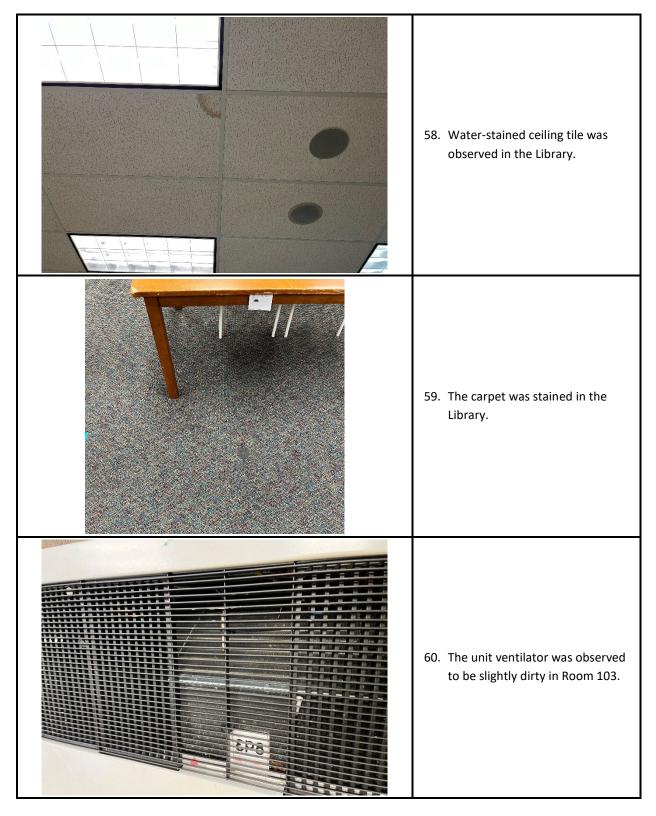


Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos

ERG Project #: 230029





61. Water-stained ceiling tile was observed in Room 104.



62. The paint was observed to be peeling at the window in Room 105.



63. Room 105 water stains were observed on the wall.

Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



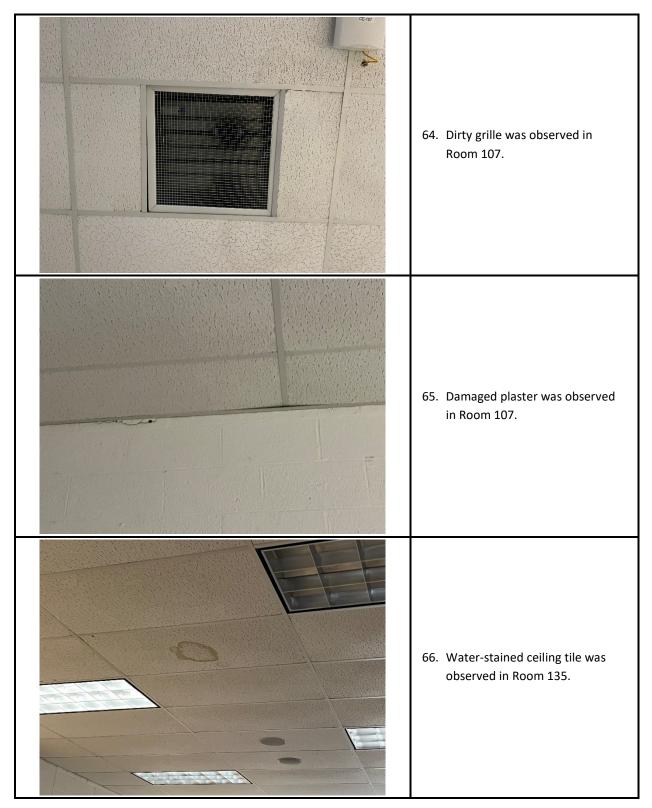


Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos

ERG Project #: 230029





67. Water-stained ceiling was observed above the ceiling in Room 106



68. Peeling paint was observed on the ceiling in Room 108.



69. The paint was observed to be peeling at the ceiling in Room 109.

Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



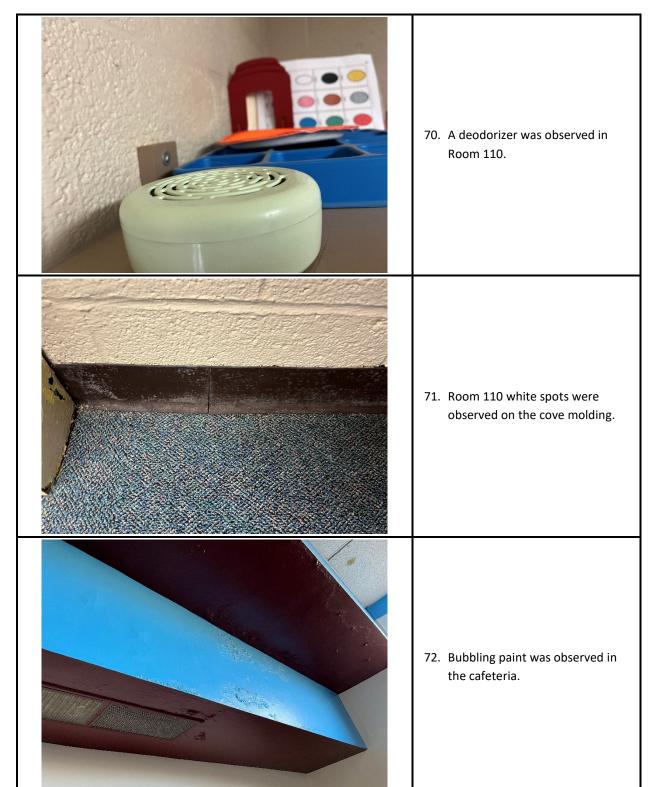


Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos



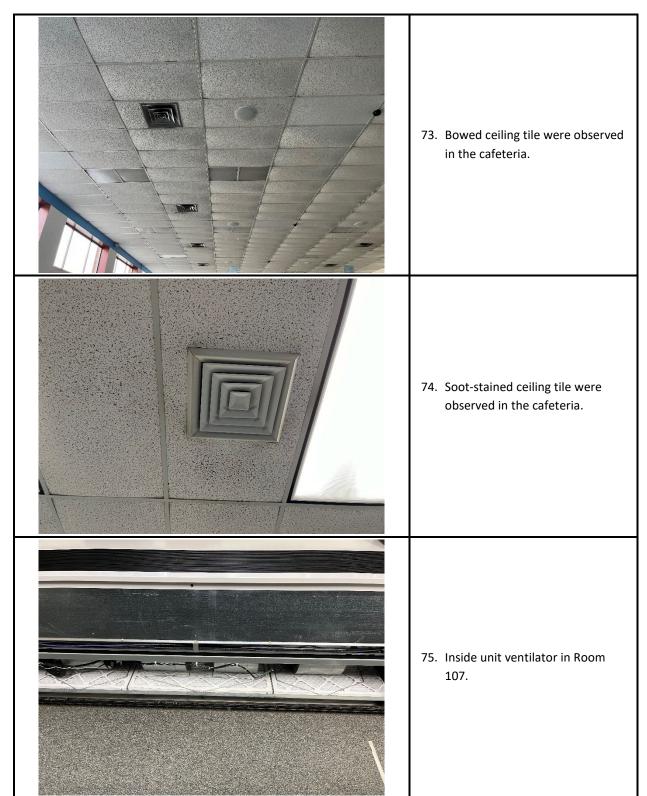


Photo taken by: ERG

Site: Okemos Public Montessori at Central, Okemos

ERG Project #: 230029





76. Room 107 inside the unit ventilator.



77. Merv filters were observed in the unit ventilators.



78. Inside unit ventilator in Room 107.

# Appendix F Reserved



# Appendix G Asbestos in Air Sample Data Sheets





PROJECT NUMBER 230029 DATE 1/2/2024 DATE COLLECTED: 1/2/2024

PROJECT Okemos Public Montessori at Central SAMPLED BY KMW

#### **AIR SAMPLE DATA SHEET**

CLIENT

Okemos Public Montessori at Central

				SAMPLE	FLOW ON						
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME				CONC.
SAMPLE #	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	FIBERS	FIELD	F/MM <sup>2</sup>	FIBERS/CC
			11:35		14.6						
1	Area	Room 102 - Ms. Susan	13:20	105	14.6	14.6	1536	2.5	100	7	<0.005
			11:45	ļ	12.5	]					
2	Area	Room 103 - Mrs. Adrianne	13:21	96	12.5	12.5	1200.0	2	100	7	<0.005
			11:55		12.9						
3	Area	Room 104 - Mrs. Kara	13:29	94	12.9	12.9	1213.0	3.5	100	7	<0.005
			12:00		13.8						
4	Area	Room 105 - Mrs. Theresa	13:27	87	13.8	13.8	1201	2.5	100	7	<0.005
			12:15	ļ	14.6	1					
5	Area	Room 106 - Ms. Lorie	13:38	83	14.6	14.6	1214	1	100	7	<0.005
			13:36	ļ	13.8						
6	Area	Room 107 - Beth	15:03	87	13.8	13.8	1201	4	100	7	<0.005
			13:45		13.4	1					
7	Area	Room 108 - Psych	15:15	90	13.4	13.4	1206	5	100	7	<0.005
			13:55	ļ	14.6						
8	Area	Room 109 - Social Worker, Chelsea	15:18	83	14.6	14.6	1201	6	100	8	<0.005
			14:00	Į	14.6	]					
9	Area	Room 110 - Speech	15:23	83	14.6	14.6	1201	6.5	100	8	<0.005
				Į		]					

**QUALITY CONTROL DATA** 

SAMPLE **FIBERS FIELDS** FIBERS/ MM<sup>2</sup> TYPE **DESCRIPTION OF SAMPLE** COUNTED COUNTED FΒ Field Blank 1 0 100 0 FΒ Field Blank 2 0 100 0 QC Sample #5 1.5 100 7

AF - AGGRESSIVE FINAL CLEARANCE

AM - AREA MONITORING, DURING REMOVAL

BL - BASELINE

SAMPLE TYPES:

ANALYZED BY

HE - HEPA EXHAUST, DURING REMOVAL

CR - CLEAN ROOM, DURING REMOVAL

EL - EXCURSION LIMIT

IE - INSIDE ENCLOSURE, DURING REMOVAL

RE - REPRESENTATIVE EXPOSURE

P - PERIMETER

PA - POST ABATEMENT AREA SAMPLE

PF - PASSIVE FINAL CLEARANCE

\* - SAMPLE OCCLUDED

# - SAMPLE DAMAGED

AB - ANALYTICAL BLANK

QC - QUALITY CONTROL SAMPLE

DC - DUPLICATE SAMPLE

FB - FIELD BLANK

Mailey Walun

SIGNATURE



PROJECT NUMBER 230029 DATE 1/3/2024 DATE COLLECTED: 1/3/2024 SAMPLED BY KMW Okemos Public Montessori at Central PROJECT

#### **AIR SAMPLE DATA SHEET**

Okemos Public Montessori at Central

CLIENT

				SAMPLE	FLOW ON						
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME				CONC.
SAMPLE #	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	FIBERS	FIELD	F/MM <sup>2</sup>	FIBERS/CC
			7:15		15.5						
1	Area	Room 117 - Mrs. Rachel	8:45	90	15.5	15.5	1395	2.5	100	7	<0.005
			7:18	ļ	15.5						
2	Area	Room 116 - Mrs. Jennifer	8:46	88	15.5	15.5	1364.0	1	100	7	<0.005
			10:00	ļ	14.6						
3	Area	Room 111 - Conference Room	11:23	83	14.6	14.6	1214.0	3.5	100	7	<0.005
			10:05		14.6						
4	Area	New General Office - Main Room	11:28	83	14.6	14.6	1214	1	100	7	<0.005
			10:10	ļ	14.6						
5	Area	New General Office - Side Room by Hallway	11:33	83	14.6	14.6	1214	2	100	7	<0.005
			10:35	ļ	13.8						
6	Area	Room 118 - Erin	12:05	90	13.8	13.8	1242	0.5	100	7	<0.005
			10:40		13.4						
7	Area	Room 119 - Holly	12:10	90	13.4	13.4	1206	1	100	7	<0.005
			10:46	ļ	14.6						
8	Area	Room 120 - Molly	12:10	84	14.6	14.6	1229	1.5	100	7	<0.005
			10:50	ļ	14.6	j					
9	Area	Room 121 - Kelly	12:15	85	14.6	14.6	1244	1	100	7	<0.005
			10:25		15.5						
10	Area	Room 124 D - Jamie	11:45	80	15.5	15.5	1240	0.5	100	7	< 0.005

**QUALITY CONTROL DATA** 

SAMPLE **FIBERS FIELDS** FIBERS/ MM<sup>2</sup> TYPE **DESCRIPTION OF SAMPLE** COUNTED COUNTED FΒ Field Blank 1 0 100 0 FB Field Blank 2 0 0 100 QC 7 Sample #3 3 100

AF - AGGRESSIVE FINAL CLEARANCE

AM - AREA MONITORING, DURING REMOVAL

BL - BASELINE

SAMPLE TYPES:

ANALYZED BY

HE - HEPA EXHAUST, DURING REMOVAL

CR - CLEAN ROOM, DURING REMOVAL

EL - EXCURSION LIMIT

IE - INSIDE ENCLOSURE, DURING REMOVAL

RE - REPRESENTATIVE EXPOSURE

P - PERIMETER

PA - POST ABATEMENT AREA SAMPLE

PF - PASSIVE FINAL CLEARANCE

\* - SAMPLE OCCLUDED

# - SAMPLE DAMAGED

AB - ANALYTICAL BLANK

QC - QUALITY CONTROL SAMPLE

DC - DUPLICATE SAMPLE

FB - FIELD BLANK

Kailey Walun ANALYST:



PROJECT NUMBER 230029 DATE 1/4/2024 DATE COLLECTED: 1/4/2024

PROJECT Okemos Public Montessori at Central SAMPLED BY KMW

SAMPLE TYPES:

ANALYZED BY

AIR SAMPLE DATA SHEET

Okemos Public Montessori at Central

CLIENT

		DESCRIPTION	TIME ON	SAMPLE TIME	FLOW ON FLOW OFF	AVERAGE	VOLUME				CONC.
SAMPLE #	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	FIBERS	FIELD	F/MM <sup>2</sup>	FIBERS/CC
			7:31	u	15.5						
1	Area	Girls Bathroom Between Room 109 & 109	10:00	149	15.5	15.5	2310	4.5	100	7	<0.005
			7:34	i	15.5						
2	Area	Men's Bathroom Between Room 108 & 109	10:05	151	15.5	15.5	2341.0	1.5	100	7	<0.005
			7:39	i	15.5						
3	Area	Room 112 - Work Room	10:07	148	15.5	15.5	2294.0	1.5	100	7	<0.005
			7:43		15.5						
4	Area	Room 130 - Music Room	10:08	145	15.5	15.5	2248	0.5	100	7	<0.005
			7:47	ı	15.5						
5	Area	Room 124 B - Mrs. Abby	10:13	146	15.5	15.5	2263	1.5	100	7	<0.005
6	Area	Behind Room 124 B	7:51 10:14	143	14.5 14.5	14.5	2074	1	100	7	<0.005
			8:17		15.5						
7	Area	Room 131 - Art Room	10:09	112	15.5	15.5	1736	3	100	7	<0.005
			8:23		13.0						
8	Area	Room 121 - Library	10:11	108	13.0	13.0	1404	2	100	7	<0.005
			10:59	_	15.5						_
9	Area	Room 127 - Erin L.	12:27	88	15.5	15.5	1364	1	100	7	<0.005
			11:04		15.5						
10	Area	Room 128 - Learning Center	12:55	111	15.5	15.5	1721	1.5	100	7	< 0.005

QUALITY CONTROL DATA

SAMPLE **FIBERS FIELDS** FIBERS/ MM<sup>2</sup> TYPE **DESCRIPTION OF SAMPLE** COUNTED COUNTED FΒ Field Blank 1 0 100 0 FΒ Field Blank 2 0 100 0 QC Sample #9 100 7 1

PA - POST ABATEMENT AREA SAMPLE PF - PASSIVE FINAL CLEARANCE

RE - REPRESENTATIVE EXPOSURE

AF - AGGRESSIVE FINAL CLEARANCE
AM - AREA MONITORING, DURING REMOVAL

HE - HEPA EXHAUST, DURING REMOVAL CR - CLEAN ROOM, DURING REMOVAL

IE - INSIDE ENCLOSURE, DURING REMOVAL

BL - BASELINE

P - PERIMETER

EL - EXCURSION LIMIT

\* - SAMPLE OCCLUDED

# - SAMPLE DAMAGED
AB - ANALYTICAL BLANK

QC - QUALITY CONTROL SAMPLE

DC - DUPLICATE SAMPLE FB - FIELD BLANK

ANALYST: SIGNA

SIGNATURE

Kailey Walun



PROJECT NUMBER	230029	DATE	1/4/2024	DATE COLLECTED:	1/4/2024		
PROJECT	Okemos Pu	blic Montessori	at Central	SAMPLED BY		KMW	
-							

#### AIR SAMPLE DATA SHEET

Okemos Public Montessori at Central

CLIENT

				SAMPLE	FLOW ON						
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME				CONC.
SAMPLE #	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	FIBERS	FIELD	F/MM <sup>2</sup>	FIBERS/CC
			11:17		15.5						
11	Area	Room 129 - Christine	12:59	102	15.5	15.5	1581	1.5	100	7	<0.005
			11:19		15.5	1					
12	Area	Room 122 - Jeff	12:57	98	15.5	15.5	1519.0	1.5	100	7	<0.005
			11:39		15.5						
13	Area	Men's Bathroom Across from Room 117	13:43	124	15.5	15.5	1922.0	3.5	100	7	<0.005
			11:45		15.5						
14	Area	Women's Bathroom Across from Room 118	13:46	121	15.5	15.5	1876	2.5	100	7	<0.005
45			14:30	440	15.5	45.5	1000		400	_	2 225
15	Area	Room 126 - Peace Room	16:28	118	15.5	15.5	1829	4	100	7	<0.005
				ļ							
				ļ							
				ļ		4					

**QUALITY CONTROL DATA** 

SAMPLE **FIELDS FIBERS** FIBERS/ MM<sup>2</sup> TYPE DESCRIPTION OF SAMPLE COUNTED COUNTED FΒ Field Blank 1 0 100 0 FΒ Field Blank 2 0 100 0 QC Sample #12 100 7 1

AF - AGGRESSIVE FINAL CLEARANCE

AM - AREA MONITORING, DURING REMOVAL

BL - BASELINE

SAMPLE TYPES:

ANALYZED BY

HE - HEPA EXHAUST, DURING REMOVAL

CR - CLEAN ROOM, DURING REMOVAL

EL - EXCURSION LIMIT

IE - INSIDE ENCLOSURE, DURING REMOVAL

RE - REPRESENTATIVE EXPOSURE

P - PERIMETER

PA - POST ABATEMENT AREA SAMPLE

PF - PASSIVE FINAL CLEARANCE

\* - SAMPLE OCCLUDED

# - SAMPLE DAMAGED

AB - ANALYTICAL BLANK

QC - QUALITY CONTROL SAMPLE

DC - DUPLICATE SAMPLE

FB - FIELD BLANK

ANALYST: Kailey Walun

SIGNATURE



PROJECT NUMBER 230029 DATE 1/5/2024 DATE COLLECTED: 1/5/2024

PROJECT Okemos Public Montessori at Central SAMPLED BY KMW

AIR SAMPLE DATA SHEET

Okemos Public Montessori at Central

CLIENT

			AIN SAIVIT LI	DATA SHEET							
				SAMPLE	FLOW ON						
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME				CONC.
SAMPLE #	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	FIBERS	FIELD	F/MM <sup>2</sup>	FIBERS/CC
			7:44		14.0						
1	Area	Staff Room	9:43	119	14.0	14.0	1666	1.5	100	7	<0.005
			7:47		15.8						
2	Area	Room 125	9:45	118	15.8	15.8	1864.0	5	100	7	<0.005
			7:54		15.5						
3	Area	Gym Lower	9:47	113	15.5	15.5	1752.0	2	100	7	<0.005
			7:58		15.5						
4	Area	Gym Upper Childcare	9:50	112	15.5	15.5	1736	3.5	100	7	<0.005
			9:41		15.5						
5	Area	Room 124 A	11:33	112	15.5	15.5	1736	1.5	100	7	<0.005
			10:33		15.5						
6	Area	Room 135	12:05	92	15.5	15.5	1426	2	100	7	<0.005
			10:58	ļ	15.5	<u> </u>					
7	Area	Cafeteria	13:04	126	15.5	15.5	1953	3	100	7	<0.005
			10:59	ļ	15.5	]					
8	Area	Food Services	13:05	126	15.5	15.5	1963	3	100	7	<0.005
			11:00		15.5	1					
9	Area	Hallway Near Restroom off 135	13:00	120	15.5	15.5	1860	5	100	7	<0.005
			13:10		15.5	1					
10	Area	Entryway Near Door 8	15:52	162	15.5	15.5	2511	3.5	100	7	<0.005

**QUALITY CONTROL DATA** 

SAMPLE **FIBERS FIELDS** FIBERS/ MM<sup>2</sup> TYPE **DESCRIPTION OF SAMPLE** COUNTED COUNTED FΒ Field Blank 1 0 100 0 FΒ Field Blank 2 0 100 0 QC Sample #10 4 100 7

AF - AGGRESSIVE FINAL CLEARANCE

AM - AREA MONITORING, DURING REMOVAL

BL - BASELINE

SAMPLE TYPES:

ANALYZED BY

HE - HEPA EXHAUST, DURING REMOVAL

CR - CLEAN ROOM, DURING REMOVAL

EL - EXCURSION LIMIT

IE - INSIDE ENCLOSURE, DURING REMOVAL

RE - REPRESENTATIVE EXPOSURE

P - PERIMETER

PA - POST ABATEMENT AREA SAMPLE

PF - PASSIVE FINAL CLEARANCE

\* - SAMPLE OCCLUDED

# - SAMPLE DAMAGED

AB - ANALYTICAL BLANK

QC - QUALITY CONTROL SAMPLE

DC - DUPLICATE SAMPLE

FB - FIELD BLANK

ANALYST: Kailey Walnur

SIGNATURE

# Appendix H Asbestos in Dust Data Sheets and Analytical Data and Chain of Custody Forms



ERG

PROJECT NUMBER 230029	DATE 1/3/2024
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PROJECT Okemos Public Montessori at Central SAMPLED BY Kailey Wahrer

CLIENT Okemos Public Schools ANALYZED BY ERG

#### AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	AREA	ASBESTOS DETECTED
SAMPLE#	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(CM2)	Y/N
1	D	Room 116 on top of computer storage	16:30 16:32	2	2.0 2.0	2.0	100	N
2	D	Room 117 top of gray filling cabinet by desk	16:34 16:36	2	2.0 2.0	2.0	100	N
3	D	Room 118 top of wooden shelf SW corner	16:40 16:42	2	2.0 2.0	2.0	100	N
4	D	Room 119 south side of unit ventilator	16:45 16:47	2	2.0	2.0	100	N
5	D	Room 120 on top of computer storage	16:47 16:49	2	2.0	2.0	100	N
6	D	Room 121 in front of unit ventilator	16:51 16:52	2	2.0	2.0	100	N
7	D	Room 124B on wooden shelf west side	16:57 16:59	2	2.0 2.0	2.0	100	N

SAMPLE TYPES: D - DUST ASBESTOS



#### **BULK SAMPLE ANALYTICAL REPORT**

Project # 230029

## NVLAP Accreditation #101510-0

Client Name:		Okemos Public Schools						
Project Name:								
Summary: 7 Collected Bulk Samples, 7 Sample Layers Analyzed.								
Date Sampled:	1/3/2024	Client P.O. #:	N/A					
Date Submitted:	1/9/2024	C.O.C. #:	N/A					
Date Analyzed:	1/10/2024	Report Date:	1/11/2024					

ERG Sample No.	Client I.D.	Description / Location	Asbestos Type	Non-Asbestos Containing Portion	Analyst
1	1	Gray fibrous material, Room 116- Mrs. Jennifer. (Homogeneous)	NAD	Cellulose fibers 50% Synthetic fibers 40% Non-fibrous material 10%	KS
2	2	Gray fibrous material, Room 117- Mrs. Rachel. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 40% Non-fibrous material 20%	KS
3	3	Gray fibrous material, Room 118- Mrs. Erin. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 50% Non-fibrous material 10%	KS
4	4	Gray fibrous material, Room 119- Mrs. Holly. (Homogeneous)	NAD	Cellulose fibers 30% Synthetic fibers 30% Non-fibrous material 40%	KS
5	5	Gray fibrous material, Room 120- Mrs. Mary. (Homogeneous)	NAD	Cellulose fibers 55% Synthetic fibers 40% Non-fibrous material 5%	KS
6	6	Gray fibrous and granular material, Room 121- Mrs. Kelly. (Homogeneous)	NAD	Cellulose fibers 25% Synthetic fibers 50% Non-fibrous material 25%	KS
7	7	Gray fibrous material, Room 124 D-Mrs. Jamie. (Homogeneous)	NAD	Cellulose fibers 50% Synthetic fibers 40% Non-fibrous material 10%	KS



#### **Comments**

Bulk samples were analyzed using the USEPA Test Method EPA/600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials and EPA-40 CFR Appendix E to Subpart 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples. The constituent percent reported represents an estimate of the area percent of the component. The test report relates only to items tested. This report is not intended to be used as a product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of the laboratory. Individual sample layers are homogeneous, unless otherwise noted.

If no asbestos was detected in a sample the acronym NAD (no asbestos detected) will appear in the Asbestos Type column of the report.

Fine fibers like those in floor tile may not be discernible by this method.

Factors related to measurement uncertainty have been identified and are available up request.

Test items were received in acceptable condition unless otherwise noted. Revision 5.0 dated 08/27/19.

Approved Signatory:	Kenta Schniety	
Date:	1/11/2024	

Environmental Resources Group

ERG

PROJECT NUMBER 230	029 DATI	E 1/4/2024
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PROJECT Okemos Public Montessori at Central

SAMPLED BY Kailey Wahrer

CLIENT Okemos public Schools ANALYZED BY ERG

#### AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	AREA	ASBESTOS DETECTED
SAMPLE#	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(CM2)	Y/N
			14:11		2.0			
1	D	Room 111 Conference Room at door	14:13	2	2.0	2.0	100	N
2	D	Doom 110, near groud tunnel george	14:18 14:20	2	2.0	2.0	100	N
	Ь	Room 110, near crawl tunnel access	14:25		2.0	2.0	100	IN
3	D	Room 109, under unit ventilator	14:27	2	2.0	2.0	100	N
			14:31		2.0			
4	D	Girl's bathroom window ledge near Room 108	14:33	2	2.0	2.0	100	N
5	D	Boy's bathroom window ledge near Room 108	14:52 14:54	2	2.0	2.0	100	N
6	D	Room 108, on window ledge	15:59 16:01	2	2.0 2.0	2.0	100	N
		rtoem 100, en winden 10age	15:54		2.0	2.0	100	.,
7	D	Room 107, at entry to bathroom	15:56	2	2.0	2.0	100	N
8	D	Room 106 under metal cabinet	15:47 15:49	2	2.0	2.0	100	N
		. tes	15:42		2.0		.30	.,
9	D	Room 105, under unit ventilator	15:44	2	2.0	2.0	100	N
	_		15:37		2.0		_	
10	D	Room 104 SW corner on window sill	15:39	2	22.0	2.0	100	N

SAMPLE TYPES: D - DUST ASBESTOS

ERG

PROJECT NUMBER 230029 DATE 1/4/2024

PROJECT Okemos Public Montessori at Central

SAMPLED BY Kailey Wahrer

CLIENT Okemos Public Schools

ANALYZED BY \_\_\_\_\_ ERG

#### AIR SAMPLE DATA SHEET

AIX SAMPLE DATA SHEET								
				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	AREA	ASBESTOS DETECTED
SAMPLE#	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(CM2)	Y/N
			15:32		2.0			
11	D	Room 103 SW corner on carpet	15:34	2	2.0	2.0	100	N
4.0		5 400 004	15:07		2.0		400	
12	D	Room 102 SW corner on carpet	15:09	2	2.0	2.0	100	N
13	D	General Office-Main Room window sill	15:02 15:04	2	2.0	2.0	100	N
14	D	General Office-Side Room on Microwave	14:59 15:01	2	2.0 2.0	2.0	100	N
17		Certeral Office-olde Nooth off Wilcrowave	14:10		2.0	2.0	100	14
15	D	Room 130 center on floor	14:10	2	2.0	2.0	100	N
16	D	Room 131 on sink	16:15 16:17	2	2.0 2.0	2.0	100	N
17	D	Library on smartboard	16:20 16:22	2	2.0	2.0	100	N
18	D	Room 112 on radiant heater at entry	14:06 14:08	2	2.0	2.0	100	N
							_	

SAMPLE TYPES: D - DUST ASBESTOS



#### **BULK SAMPLE ANALYTICAL REPORT**

Project # 230029

## NVLAP Accreditation #101510-0

Client Name:		Okemos Public Schools		
Project Name:		Okemos Public Montessori at Central		
Summary:		18 Collected Bulk Samples, 18 Sample Layers Analyzed.		
Date Sampled:	1/4/2024	Client P.O. #:	N/A	
Date Submitted:	1/10/2024	C.O.C. #:	N/A	
Date Analyzed:	1/11/2024	Report Date:	1/11/2024	

ERG Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos Containing Portion	Analyst
1	1	Cream fibrous material, Room 111- Conference room. (Homogeneous)	NAD	Cellulose fibers 50% Synthetic fibers 30% Non-fibrous material 20%	KS
2	2	Gray fibrous material, Room 110- Speech. (Homogeneous)	NAD	Cellulose fibers 30% Synthetic fibers 30% Non-fibrous material 40%	KS
3	3	Gray fibrous material, Room 109- Social Worker. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 50% Non-fibrous material 10%	KS
4	4	Gray fibrous material, Between Room 108 & 109- Girl's Bathroom. (Homogeneous)	NAD	Cellulose fibers 50% Synthetic fibers 30% Non-fibrous material 20%	KS
5	5	Gray fibrous material, Between Room 108 & 109- Boy's Bathroom. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 50% Non-fibrous material 10%	KS
6	6	Gray fibrous material, Room 108- Psych. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 50% Non-fibrous material 10%	KS
7	7	White fibrous and granular material, Room 107- Beth. (Homogeneous)	NAD	Cellulose fibers 30% Synthetic fibers 30% Non-fibrous material 40%	KS

#### **BULK SAMPLE ANALYTICAL REPORT**

ERG

# Project # 230029

#### NVLAP Accreditation #101510-0

	Okemos Public Schools					
	Okemos Public Montessori at Central					
	18 Collected Bulk Samples, 18 Sample Layers Analyzed.					
1/4/2024	_ Client P.O. #:	N/A				
1/10/2024	C.O.C. #:	N/A				
1/11/2024	Report Date:	1/11/2024				
	1/4/2024 1/10/2024	Okemos Public Montessori at Central 18 Collected Bulk Samples, 18 Sample Layers Analy.  1/4/2024 Client P.O. #: 1/10/2024 C.O.C. #:				

ERG Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
8	8	Gray fibrous material, Room 106- Lori. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 40% Non-fibrous material 20%	KS
9	9	Gray fibrous material, Room 105. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 50% Non-fibrous material 10%	KS
10	10	Gray fibrous material, Room 104- Kara. (Homogeneous)	NAD	Cellulose fibers 30% Synthetic fibers 50% Non-fibrous material 20%	KS
11	11	Gray fibrous material, Room 103- Adrianne. (Homogeneous)	NAD	Cellulose fibers 50% Synthetic fibers 40% Non-fibrous material 10%	KS
12	12	Gray fibrous material, Room 102- Susie. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 30% Non-fibrous material 30%	KS
13	13	Gray fibrous material, General Office- Main Room. (Homogeneous)	NAD	Cellulose fibers 50% Synthetic fibers 40% Non-fibrous material 10%	KS
14	14	Gray fibrous material, General Office- Side Room. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 30% Non-fibrous material 30%	KS



Client Name:		Okemos Public Schools		
Project Name:		Okemos Public Montessori at Central		
Summary:		18 Collected Bulk Samples, 18 Sample Layers Analyzed.		
Date Sampled:	1/4/2024	Client P.O. #:	N/A	
Date Submitted:	1/10/2024	C.O.C. #:	N/A	
Date Analyzed:	1/11/2024	Report Date:	1/11/2024	

ERG Sample No.	Client I.D.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
15	15	Gray fibrous material, Room 130- Music Room. (Homogeneous)	NAD	Cellulose fibers 50% Synthetic fibers 40% Non-fibrous material 10%	KS
16	16	Gray fibrous material, Room 131- Art Room. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 40% Non-fibrous material 20%	KS
17	17	Gray fibrous material, Room 121- Library. (Homogeneous)	NAD	Cellulose fibers 55% Synthetic fibers 40% Non-fibrous material 5%	KS
18	18	Gray fibrous material, Room 112- Work Room. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 40% Non-fibrous material 20%	KS



#### **Comments**

Bulk samples were analyzed using the USEPA Test Method EPA/600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials and EPA-40 CFR Appendix E to Subpart 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples. The constituent percent reported represents an estimate of the area percent of the component. The test report relates only to items tested. This report is not intended to be used as a product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of the laboratory. Individual sample layers are homogeneous, unless otherwise noted.

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Fine fibers like those in floor tile may not be discernible by this method.

Factors related to measurement uncertainty have been identified and are available up request.

Test items were received in acceptable condition unless otherwise noted. Revision 5.0 dated 08/27/19.

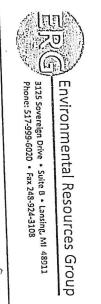
Approved Signatory:	Heater Schri	redy
Date:	1/11/2024	

Environmental Resources Group

13125 Sovereign Drive • Suite B • Lansing, MI 48911

Phone: 517-999-6020 • Fax 248-924-3108

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ERG

PROJECT NUMBER 230029 DATE	1/5/2024
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PROJECT Okemos Public Montessori at Central

SAMPLED BY Kailey Wahrer

CLIENT Okemos Public Schools ANALYZED BY ERG

#### AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	AREA	ASBESTOS DETECTED
SAMPLE#	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(CM2)	Y/N
			12:10		2.0			
1	D	Room 122 behind door	12:12	2	2.0	2.0	100	N
2	D	Room 129 SW corner on shelf	13:02 13:04	2	2.0	2.0	100	N
3	D	Room 128 SW corner on wooden shelf	13:08 13:10	2	2.0	2.0	100	N
4	D	Room 127 below smartboard	13:12 13:14	2	2.0	2.0	100	N
5	D	Room 126 NW corner	13:17 13:19	2	2.0	2.0	100	N
6	D	Room 125 SW corner	13:23 13:25	2	2.0	2.0	100	N
7	D	Girls bathroom near 118, top shelf window	13:28 13:30	2	2.0	2.0	100	N
8	D	Boys bathroom near 117 entry door	13:58 14:00	2	2.0	2.0	100	N
9	D	Room 124D at entry	14:02 14:04	2	2.0 2.0	2.0	100	N
			14:19		2.0		. 30	.,
10	D	Staff Lounge NE on unit vent	14:21	2	2.0	2.0	100	N

SAMPLE TYPES: D - DUST ASBESTOS

ERG

PROJECT Okemos Public Montessori at Central

SAMPLED BY Kailey Wahrer

CLIENT Okemos Public Schools

ANALYZED BY ERG

#### AIR SAMPLE DATA SHEET

			AIN OAM	_				
				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	AREA	ASBESTOS DETECTED
SAMPLE#	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(CM2)	Y/N
			14:31		2.0			
11	D	Gym lower SW corner	14:33	2	2.0	2.0	100	N
			14:55		2.0			
12	D	Gym upper SW corner	14:57	2	2.0	2.0	100	N
13	D	Childcare 135 SW window sill	14:36 14:38	2	2.0	2.0	100	N
10	Б	Official 100 OVV Willdow 3iii	14:42		2.0	2.0	100	IV
14	D	Cafeteria South wood table	14:44	2	2.0	2.0	100	N
			14:47		2.0			
15	D	Food Service S wood table	14:49	2	2.0	2.0	100	N
16	D	Room 124B east shelf	14:07 14:09	2	2.0	2.0	100	N
17	D	Room behind 124B SE floor	14:13 14:15	2	2.0 2.0	2.0	100	N
	_			_				

SAMPLE TYPES: D - DUST ASBESTOS



Client Name:		Okemos Public Schools		
Project Name:		Okemos Public Montessori at Central		
Summary:		17 Collected Bulk Samples, 17 Sample Layers Analyzed.		
Date Sampled:	1/5/2024	Client P.O. #:	N/A	
Date Submitted:	1/10/2024	C.O.C. #:	N/A	
Date Analyzed:	1/10/2024	Report Date:	1/11/2024	

ERG Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos Containing Portion	Analyst
1	1	White fibrous material, Room 122. (Homogeneous)	NAD	Cellulose fibers 50% Synthetic fibers 30% Non-fibrous material 20%	KS
2	2	Gray fibrous material, Room 129- Christine. (Homogeneous)	NAD	Cellulose fibers 35% Synthetic fibers 60% Non-fibrous material 5%	KS
3	3	Gray fibrous material, Room 128- Learning Center. (Homogeneous)	NAD	Cellulose fibers 45% Synthetic fibers 50% Non-fibrous material 5%	KS
4	4	Gray fibrous material, Room 127- Erin L. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 30% Non-fibrous material 30%	KS
5	5	Gray fibrous material, Room 126- Peace Room. (Homogeneous)	NAD	Cellulose fibers 50% Synthetic fibers 40% Non-fibrous material 10%	KS
6	6	Green fibrous and granular material, Room 125. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 30% Non-fibrous material 30%	KS
7	7	Gray fibrous material, Room 118- Girl's Bathroom. (Homogeneous)	NAD	Cellulose fibers 50% Synthetic fibers 30% Non-fibrous material 20%	KS



Client Name:		Okemos Public Schools	
Project Name:		Okemos Public Montessori at Central	
Summary:		17 Collected Bulk Samples, 17 Sample Layers Analys	zed.
_			
Date Sampled:	1/5/2024	Client P.O. #:	N/A
Date Submitted:	1/10/2024	C.O.C. #:	N/A
Date Analyzed:	1/10/2024	Report Date:	1/11/2024

ERG Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
8	8	Gray fibrous material, Room 117-Boy's Bathroom. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 50% Non-fibrous material 10%	KS
9	9	Gray fibrous material, Room 124 A. (Homogeneous)	NAD	Cellulose fibers 30% Synthetic fibers 30% Non-fibrous material 40%	KS
10	10	Gray fibrous material, Staff Lounge. (Homogeneous)	NAD	Cellulose fibers 30% Synthetic fibers 40% Non-fibrous material 30%	KS
11	11	Gray fibrous material, Gym Lower. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 40% Non-fibrous material 20%	KS
12	12	Gray fibrous material, Gym Upper. (Homogeneous)	NAD	Cellulose fibers 25% Synthetic fibers 70% Non-fibrous material 5%	KS
13	13	Gray fibrous material, Child Care. (Homogeneous)	NAD	Cellulose fibers 50% Synthetic fibers 45% Non-fibrous material 5%	KS
14	14	Gray fibrous material, Cafeteria. (Homogeneous)	NAD	Cellulose fibers 10% Synthetic fibers 20% Non-fibrous material 70%	KS



Client Name:		Okemos Public Schools						
Project Name:		Okemos Public Montessori at Central						
Summary:		17 Collected Bulk Samples, 17 Sample Layers Analyzed.						
Date Sampled:	1/5/2024	Client P.O. #:	N/A					
Date Submitted:	1/10/2024	C.O.C. #:	N/A					
Date Analyzed:	1/10/2024	Report Date:	1/11/2024					

ERG Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
15	15	Gray fibrous material, Food Sevice. (Homogeneous)	NAD	Cellulose fibers 40% Synthetic fibers 50% Non-fibrous material 10%	KS
16	16	Gray fibrous material, Room 124 B. (Homogeneous)	NAD	Cellulose fibers 10% Synthetic fibers 60% Non-fibrous material 30%	KS
17	17	Gray granular and fibrous material, Behind Room 124 B. (Homogeneous)	NAD	Cellulose fibers 30% Synthetic fibers 10% Non-fibrous material 60%	KS



#### **Comments**

Bulk samples were analyzed using the USEPA Test Method EPA/600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials and EPA-40 CFR Appendix E to Subpart 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples. The constituent percent reported represents an estimate of the area percent of the component. The test report relates only to items tested. This report is not intended to be used as a product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of the laboratory. Individual sample layers are homogeneous, unless otherwise noted.

If no asbestos was detected in a sample the acronym NAD (no asbestos detected) will appear in the Asbestos Type column of the report.

Fine fibers like those in floor tile may not be discernible by this method.

Factors related to measurement uncertainty have been identified and are available up request.

Test items were received in acceptable condition unless otherwise noted. Revision 5.0 dated 08/27/19.

Approved Signatory:	Heater Schri	redy
Date:	1/11/2024	

Environmental Resources Group

3125 Sovereign Drive • Suite B • Lansing, MI 48911
Phone: 517-999-6020 • Fax 248-924-3108

PANNETESS  WITH PRECISION  PANNETESS  INTERPRETATION  PANNETESS  PANNETESS  PANNETESS  PANNETESS  PANNETESS  PANNETESS  PANNETESS	LAB USE ONLY  ERG project number:  Temperature upon receipt at Lab  [If applicable]:	4 bus, days ERG F	a bus, days4 bus, days4	Same day 1 bus. day 1 bus. day 2 bus. days 3 bus. days 3 bus. days 1 bus. day 1 bus. days 3 bus. days
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Environmental Resources Group

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PARAMETERS Matrix Code	-			Phil peterson
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# Appendix I Lead in Air sample Data Sheets and Analytical Data and Chain of Custody Forms



ERG

PROJECT NUMBER	230029	DATE	1/2/2024
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PROJECT Okemos Public Montessori at Central

SAMPLED BY ERG

CLIENT Okemos Public Schools

ANALYZED BY Fibertec/Metiri Group Company

#### AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	RESULTS
SAMPLE#	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	ug/m³
			14:25		12.9			
1	AM	Room 102-Ms Susan	15:25	60	12.9	12.9	774	ND
2	АМ	Room 103-Ms Adrianne	14:28 15:28	60	12.9 12.9	12.9	774	ND
3	АМ	Room 104-Ms Kara	14:30 15:30	60	12.9 12.9	12.9	774	ND
4	AM	Room 105-Ms Theresa	14:33 15:33	60	12.9 12.9	12.9	774	ND
5	AM	Room 106-Ms. Lorie	15:35 16:35	60	12.9 12.9	12.9	774	ND
6	AM	Room 107-Ms.Beth	15:15 16:15	60	12.9 12.9	12.9	774	ND
7	AM	Room 108-Psych	15:18 16:18	60	12.9 12.9	12.9	774	ND
8	AM	Room 109 Social Ms. Chelsea	15:20 16:20	60	12.9 12.9	12.9	774	ND
9	AM	Room 110 Speech	15:24 16:24	60	12.9 12.9	12.9	774	ND

ND - NOT DETECTED AT OR ABOVE THE LABORATORY REPORTING LIMIT

QUALITY CONTROL DATA

SAMPLE TYPES:

AM - AREA MONITORING

SAMPLE

TYPE	DESCRIPTION OF SAMPLE	RESULTS ug
FB	Field Blank	ND
FB	Field Blank	ND

ERG

PROJECT NUMBER	230029	DATE	1/2/2024
----------------	--------	------	----------

PROJECT Okemos Public Montessori at Central

SAMPLED BY ERG

CLIENT Okemos Public Schools

ANALYZED BY Fibertec/Metiri Group Company

#### AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	RESULTS
SAMPLE#	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	ug/m³
			14:25		12.9			
1	AM	Room 102-Ms Susan	15:25	60	12.9	12.9	774	ND
2	АМ	Room 103-Ms Adrianne	14:28 15:28	60	12.9 12.9	12.9	774	ND
3	АМ	Room 104-Ms Kara	14:30 15:30	60	12.9 12.9	12.9	774	ND
4	AM	Room 105-Ms Theresa	14:33 15:33	60	12.9 12.9	12.9	774	ND
5	AM	Room 106-Ms. Lorie	15:35 16:35	60	12.9 12.9	12.9	774	ND
6	AM	Room 107-Ms.Beth	15:15 16:15	60	12.9 12.9	12.9	774	ND
7	AM	Room 108-Psych	15:18 16:18	60	12.9 12.9	12.9	774	ND
8	AM	Room 109 Social Ms. Chelsea	15:20 16:20	60	12.9 12.9	12.9	774	ND
9	AM	Room 110 Speech	15:24 16:24	60	12.9 12.9	12.9	774	ND

ND - NOT DETECTED AT OR ABOVE THE LABORATORY REPORTING LIMIT

QUALITY CONTROL DATA

SAMPLE TYPES:

AM - AREA MONITORING

SAMPLE

TYPE	DESCRIPTION OF SAMPLE	RESULTS ug
FB	Field Blank	ND
FB	Field Blank	ND



A METIRI GROUP COMPANY

Tuesday, January 9, 2024

Fibertec Project Number: A19103

Project Identification: Okemos Public Montessori at Central (230029) /230029

Submittal Date: 01/03/2024

Mr. Phillip Peterson
Environmental Resources Group-Lansing
3125 Sovereign Dr. Suite B
Lansing, MI 48910

Dear Mr. Peterson,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

By Sue Ricketts at 3:31 PM, Jan 09, 2024

For Heather L. Smith Director of Laboratory Operations

**Enclosures** 



Order: A19103 Date: 01/09/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 102-Ms. Susan Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 1 Collect Date: 01/02/24 Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19103-001 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: 102-Ms. Susan

					Prepa	ration	Analysis			
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.	
‡ 1.Lead	U	µg/m3	0.25	10	01/09/24	PT24A09C	01/09/24	T424A09C	JJS	



Order: A19103 Date: 01/09/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 103-Mrs. Adrianne Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 2 Collect Date: 01/02/24

Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19103-002 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: 103-Mrs. Adrianne

					Prepa	ration	Analysis				
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init			
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09C	01/09/24	T424A09C JJS	3		



Order: A19103 Date: 01/09/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 104-Mrs. Kara Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 3 Collect Date: 01/02/24 Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19103-003 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: 104-Mrs. Kara

					Prepa	ration	Analysis			
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.	
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09C	01/09/24	T424A09C	JJS	



Order: A19103 Date: 01/09/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 105-Ms. Theresa Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 4 Collect Date: 01/02/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19103-004 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: 105-Ms. Theresa

Preparation Analysis Q Reporting Limit P. Date Parameter(s) Result Units Dilution P. Batch A. Date A. Batch Init. U 1. Lead 0.25 10 01/09/24 PT24A09C 01/09/24 T424A09C JJS µg/m3



Order: A19103 Date: 01/09/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 106-Ms. Lorie Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 5 Collect Date: 01/02/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19103-005 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified) Description: 106-Ms. Lorie

Preparation Analysis Q Reporting Limit P. Date Parameter(s) Result Units Dilution P. Batch A. Date A. Batch Init. U 1. Lead 0.25 10 01/09/24 PT24A09C 01/09/24 T424A09C JJS µg/m3



Order: A19103 Date: 01/09/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 107-Beth Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 6 Collect Date: 01/02/24

Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19103-006 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: 107-Beth

					Prepa	Preparation		Analysis
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09C	01/09/24	T424A09C JJS



Order: A19103 Date: 01/09/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 108-Psych Chain of Custody: N/A

Group-Lansing
Client Project Name: Okemos Public Montessori at Sample No: 7 Collect Date: 01/02/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19103-007 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: 108-Psych

					Prepa	Preparation		Analysis
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09C	01/09/24	T424A09C JJS



Order: A19103 Date: 01/09/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 109-Social Chelsea Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 8 Collect Date: 01/02/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19103-008 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: 109-Social Chelsea

					Prepa	ration	Analysis			
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.	
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09C	01/09/24	T424A09C	JJS	



Order: A19103 Date: 01/09/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 110-Speech Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 9 Collect Date: 01/02/24

Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19103-009 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified) Description: 110-Speech

					Prepa	ration	Analysis			
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.	
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09C	01/09/24	T424A09C	JJS	



Order: A19103 Date: 01/09/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Field Blank 1 Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: FB1 Collect Date: 01/02/24 Central (230029)

Client Project No: 230029 Sample Matrix: Blank: Air Cassette Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements - Modified for ICP/MS Aliquot ID: A19103-010 Matrix: Blank: Air Cassette

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Field Blank 1

					Prepa	ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg	0.25	10	01/09/24	PT24A09C	01/09/24	T424A09C	JJS



Order: A19103 Date: 01/09/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Field Blank 2 Chain of Custody: N/A

Group-Lansing
Client Project Name: Okemos Public Montessori at Sample No: FB2 Collect Date: 01/02/24

Central (230029)

Client Project No: 230029 Sample Matrix: Blank: Air Cassette Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements - Modified for ICP/MS Aliquot ID: A19103-011 Matrix: Blank: Air Cassette

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Field Blank 2

						ration	Analysis			
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.	
‡ 1.Lead	U	μg	0.25	10	01/09/24	PT24A09C	01/09/24	T424A09C	JJS	



#### Analytical Laboratory Report Laboratory Project Number: A19103

Order: A19103 Date: 01/09/24

#### A METIRI GROUP COMPANY

#### **Definitions/ Qualifiers:**

- A: Spike recovery or precision unusable due to dilution.
- **B:** The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- \*: Value reported is outside QC limits
- **D:** The sample or extract was analyzed at a DF greater than 1.

#### **Exception Summary:**

#### **Analysis Locations:**

All analyses performed in Holt.



Accreditation Number(s):

T104704518-23-15 (TX)



two		Add Dames of	T				24244555		1	Markin Carda	
Contact Person: Project Name/ Numb Project Location:() Le	il Per Br: 230 CMOSPAN CHErSO	0029 onic Muntessori at Central on@ergrp.net	RIX (SEE RIGHT CORNER FOR CODE)	OF CONTAINERS	end		PARAMETERS	HOLD SAMPLE	S Soil Air O Oil B Bulks	sw s	Ground Water Surface Water Vastewater Other: Specify
Date Time	Sample #	Client Sample Descriptor	MATRIX	0 #	1-1				Remarks:		
1/2/24	1	102 - ms. Susan	A	1	X				<b>1</b>	something the	
	2	103- mrs. Adriane	A	١	*				1,		1/
	3	104- Mrs. Kara	A	1	X				ч		11
	4	105- mi Theresa	A	1	X				VX	: 	ří.
	2	106-ms. lone	A	1	X				1,		t ®
	6	107- Betn	A	1	X				**		r <u>i</u>
	7	108- PSYCh	A	ı	X				''		F ()
	8	109 - Social Cheisea	A	1	X				,,		74
	9	110- Speech	A	1	X				,	N	Received By Li
	FBI	Field Blank 1	A	1	X					) liters	Received
omments:							Samples receive	ed in acceptable	condition		JAN 0 3 2024
ampled/Relinquished	1 By: Kel	ning wanu	1/2	Time	1	16:45	Received By:	thelly like	8		Initials:
elinquished By:	ALC:	1		Time 53/2		08:06	Received By:	1/1/1		2	
elinquished By:				/ Time			Received By L	aboratory:	6		:शास्त्राशः
Same day		Turnaround Time ALL RESULTS WILL BE SENT BY THE EN					4 bus, days	ERG project n		111100	ivvi 0 3 705v
5-7 bus, days (s	tandard)	Other (specify time/date requirement): _						Temperature ( (If applicable)	upon recei  :	pt at Lab	Received By Lab
		Р	lease	see	e bac	k for term	s and conditi	ons			



Client Name: Environmental Resurs Group PARAMETERS Matrix Code GW Ground Water Contact Person: PNI Deterson Project Name / Number: 230029 SW Surface Water Project Location: O'Kem as Public Montessur; at Central W Wastewater HOLD SAMPLE Email Distribution List: X Other: Specify phillip peters in @ergrp. net OF CONTAINERS Phone No.: 517-256-4248 Purchase Order No.: Remarks: Date Time Sample # Client Sample Descriptor 1/2/24 FB2 liters Field Blank 2 Samples received in acceptable condition Comments: Sampled/Relinquished By: Reway Walley Received By: Date/Time 1/2/24 16:45 Received By: Relinquished By: 05:00 01/03/29 Received By Laboratory: Relinquished By: LAB USE ONLY Turnground Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY \_\_\_\_\_ 3 bus. days \_\_ 4 bus, days \_\_\_\_\_ 2 bus. days \_Same day \_\_\_\_\_1 bus, day Temperature upon receipt at Lab (if applicable): X\_5-7 bus, days (standard) Other (specify time/date requirement): \_\_\_\_ Please see back for terms and conditions



PROJECT Okemos Public Montessori at Central

SAMPLED BY \_\_\_\_\_ ERG

Okemos Public Schools CLIENT

ANALYZED BY Fibertec/Metiri Group Company

#### AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	RESULTS
SAMPLE#	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	ug/m³
			9:30		14.6			
1	AM	Room 117 Ms. Rachel	10:30	60	14.6	14.6	878	ND
2	AM	Room 116 Ms. Jennifer	9:45 10:45	60	14.6 14.6	14.6	878	ND
3	AM	Room 11 Conference Room	11:40 12:40	60	14.6 14.6	14.6	878	ND
4	AM	New General Office Main Room	11:42 12:42	60	14.6 14.6	14.6	878	ND
5	AM	New General Office side Room by Hallway	11:45 12:45	60	14.6 14.6	14.6	878	ND
6	AM	Room 118- Ms. Erin	12:20 13:20	60	14.6 14.6	14.6	878	ND
7	AM	Room 119- Ms. Holly	13:25 14:25	60	14.6 14.6	14.6	878	ND
8	AM	Room 120-Ms Mary	12:27 13:27	60	14.6 14.6	14.6	878	ND
9	AM	Room 121-Ms. Kelly	12:30 13:30	60	14.6 14.6	14.6	878	ND
10	AM	Room 124- Ms. Jamie	11:54 12:54	60	14.6 14.6	14.6	878	ND

ND - NOT DETECTED AT OR ABOVE THE LABORATORY REPORTING LIMIT

**QUALITY CONTROL DATA** 

SAMPLE TYPES:

AM - AREA MONITORING

SAMPLE

TYPE RESULTS ug DESCRIPTION OF SAMPLE

FB	Field Blank	ND
FB	Field Blank	ND



A METIRI GROUP COMPANY

Wednesday, January 10, 2024

Fibertec Project Number: A19127

Project Identification: Okemos Public Montessori at Central (230029) /230029

Submittal Date: 01/04/2024

Mr. Phillip Peterson
Environmental Resources Group-Lansing
3125 Sovereign Dr. Suite B
Lansing, MI 48910

Dear Mr. Peterson,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

By Sue Ricketts at 1:50 PM, Jan 10, 2024

For Heather L. Smith Director of Laboratory Operations

**Enclosures** 



Order: A19127 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 117-Mrs. Rachel Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 1 Collect Date: 01/03/24

Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19127-001 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Room 117-Mrs. Rachel

Preparation Analysis Q Reporting Limit P. Date Parameter(s) Result Units Dilution P. Batch A. Date A. Batch Init. U 1. Lead 0.25 10 01/09/24 PT24A09C 01/09/24 T424A09C JJS µg/m3



Order: A19127 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 116-Mrs. Jennifer Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 2 Collect Date: 01/03/24 Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19127-002 Matrix: Air Method: NIOSH 7303/NIOSH 7303 (Modified) Description: Room 116-Mrs. Jennifer

Preparation Analysis Q Reporting Limit P. Date Parameter(s) Result Units Dilution P. Batch A. Date A. Batch Init. U 1. Lead 0.25 10 01/09/24 PT24A09C 01/09/24 T424A09C JJS µg/m3



Order: A19127 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 111-Conference Room Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 3 Collect Date: 01/03/24 Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19127-003 Matrix: Air Method: NIOSH 7303/NIOSH 7303 (Modified) Description: Room 111-Conference Room

					Preparation		Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09C	01/09/24	T424A09C	JJS



Order: A19127 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: New General Office Main Room Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 4 Collect Date: 01/03/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19127-004 Matrix: Air Method: NIOSH 7303/NIOSH 7303 (Modified) Description: New General Office Main Room

					Preparation		Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09C	01/09/24	T424A09C	JJS



Order: A19127

Date:

01/10/24

A METIRI GROUP COMPANY

Client Identification: **Environmental Resources** 

230029

**Group-Lansing** 

Sample Description:

**New General Office Side Room** Near Hallway

Chain of Custody:

N/A

Client Project Name:

Okemos Public Montessori at

5

Collect Date:

01/03/24

Client Project No:

Central (230029)

Sample Matrix:

Sample No:

Air

Collect Time:

NA

Sample Comments:

Definitions:

Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19127-005 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified) Description: New General Office Side Room Near Hallw

Preparation Analysis Q Reporting Limit P. Date Parameter(s) Result Units Dilution P. Batch A. Date A. Batch Init. U 1. Lead 0.25 10 01/09/24 PT24A09C 01/09/24 T424A09C JJS µg/m3



Order: A19127 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 118-Erin Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 6 Collect Date: 01/03/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19127-006 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified) Description: Room 118-Erin

					Prepa	ration	Α	nalysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09C	01/09/24	T424A09C	JJS



Order: A19127 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 119-Holly Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 7 Collect Date: 01/03/24 Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19127-007 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Room 119-Holly

Preparation Analysis Q Reporting Limit P. Date Parameter(s) Result Units Dilution P. Batch A. Date A. Batch Init. U 1. Lead 0.25 10 01/09/24 PT24A09C 01/09/24 T424A09C JJS µg/m3



Order: A19127 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 120-Mary Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 8 Collect Date: 01/03/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19127-008 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified) Description: Room 120-Mary

Preparation Analysis Q Reporting Limit P. Date Parameter(s) Result Units Dilution P. Batch A. Date A. Batch Init. U 1. Lead 0.25 10 01/09/24 PT24A09C 01/09/24 T424A09C JJS µg/m3



Order: A19127 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 121-Kelly Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 9 Collect Date: 01/03/24 Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19127-009 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Room 121-Kelly

					Prepa	ration	, ,	Analysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09C	01/09/24	T424A09C	JJS



Order: A19127 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 124D-Jamie Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 10 Collect Date: 01/03/24 Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19127-010 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Room 124D-Jamie

					Prepa	ration	Α	Analysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C	JJS



Order: A19127 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Field Blank 1 Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: FB1 Collect Date: 01/03/24

Central (230029)

Client Project No: 230029 Sample Matrix: Blank: Air Cassette Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements - Modified for ICP/MS Aliquot ID: A19127-011 Matrix: Blank: Air Cassette

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Field Blank 1

					Prepa	ration	P	Analysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch I	Init.
‡ 1.Lead	U	μg	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C J	JJS



Order: A19127 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Field Blank 2 Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: FB 2 Collect Date: 01/03/24

Central (230029)

Client Project No: 230029 Sample Matrix: Blank: Air Cassette Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements - Modified for ICP/MS Aliquot ID: A19127-012 Matrix: Blank: Air Cassette

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Field Blank 2

					Prepa	ration	ΑΑ	nalysis	
Parameter(s)	Result C	Q Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C	JJS



#### Analytical Laboratory Report Laboratory Project Number: A19127

Order: A19127 Date: 01/10/24

# **Definitions/ Qualifiers:**

- A: Spike recovery or precision unusable due to dilution.
- **B:** The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- \*: Value reported is outside QC limits
- **D:** The sample or extract was analyzed at a DF greater than 1.

#### **Exception Summary:**

#### **Analysis Locations:**

All analyses performed in Holt.



Accreditation Number(s):

T104704518-23-15 (TX)



				_		_		_							T
Client Name: HNVV Onmental Resultice Group										PA	RAMET	ERS			Matrix Code
			terson						iΤ						S Soil GW Ground Water
Project Nar	ne/ Numbe	r: 73°	x29	CODE											Air SW Surface Water
Project Loc	ation: 6	emo-	Public Muntesson at Central	1 2					Н					ו ו	O Oil W Wastewater
Email Distrib	oution List:			ORNER						1		Ì		AMP	B Bulks X Other: Specify
bhi	llip. F	veter.	son@eryxp.net	(SEE RIGHT CORNER FOR	OF CONTAINERS									HOLD SAMPLE	
Phone No.:	ろり	- 256	5-4248	(SEE RI	NTA!	19								<del>Ĭ</del>	
Purchase O	rder No.:		V-1	MATRIX	S	Lead	ار								
Date	Time	Sample #		¥	0 #	تــا	1								Remarks:
1/3/24		1	Room 117-mrs Rachel	A	1	X									878 liters
		2	Room 116 - Mrs. Jennifer	Α	t	X									14
		3	Room III - conference room	A	1	X									59:
		4	New general office	A	ı	X									14
		5	New general office	Α	١	X									· Receixed By Lab
		6	Roum 118- Erin	A	1	X			- 1						NY 14410 1 0001
		7	Room 119 - Horry	A	(	X									JAN 0 4 2024
		8	200m 120 - mary	Α	١	X									'n Initials:
		9	1200m 121 - Keny	A	ī	1									1,
- 1		10	Room 1240-Jamie	A	1	4									55 IE
Comments:										Samı	oles re	eviec	d in acceptal	ble co	ondition
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Relinquished	nquished By:  Date/ Time  Received By Laboratory:														
		I	urnaround Time ALL RESULTS WILL BE SENT BY THE ENG	OF TI	IE BUSI	NESS I	YAC		-						LAB USE ONLY
Sam	e day _	1 b	ous, day2 bus, days	-	3	bus, d	lays			4 b	ıs. day	's	ERG proje	ct nur	mber: A19127
	ous, days (st	andard)	Other (specify time/date requirement):					-					Temperato (if applica		pon receipt at Lab
			Pi	ease	see	ba	ck f	or te	erms	and	con	ditio	ns		1.71.



													_	
Client Name: 大M							PARAM	ETERS				Matrix Code		
Contact Person:														S Soil Gw Ground Water
Project Name/ Nu			Coope							1				A Sw Surface Water
Project Location:(	Skemo c Pur	olic Muntessori at Central	FORG										ے آ	O Oil W Wastewater
Email Distribution L	ist:		ORNER GRACER										SAMI	B Bulks X Other: Specify
phillip. pe	terson e	pergrp.net	(SEE RIGHT CORNER FOR CODE)	OF CONTAINERS				-					HOLD SAMPLE	
Phone No.: 51	7-256	,-4248	(SEE R)	NIA	600								-	
Purchase Order N	o.:	N'	MATRIX	27.0	9								١	
Date Time			<u>₹</u>	#	$\vdash$	<u> </u>			$\perp$	_	$\perp$		4	Remarks:
1/3/24	FB I	Field Blank 1	A	١	X								_	0 liters
1/3124	FB2	Field Biank 2	A	ı	×									0 liters
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														14410 1, 2021
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Comments:							l		Samples	receiv	ed in a	cceptab	le co	condition
											Ш			
Sampled/Relinquis	shed By:	aThus InKIMM		/ Time			15.	15	Receiv	ed By:	000	ly C.K.	24	<u>/</u>
Relinquished By:	The	arus NdM		512 / Time		_	17.	15	Receiv	ed By:	21	447	0	12 1/2// 9:1/
		Klulle CKE									20	me	L	Powers 1-4-24 8:14
Relinquished By:			Date	/ Time					Recelv	ed By I	.aborat	ory:	,	
	I	urnground Time ALL RESULTS WILL BE SENT BY TI	HE END OF T	HE BUS	INESS	DAY								LAB USE ONLY
Same day1 bus. day2 bus. days3 bus. days4 bus. days ERG project number: $A19137$														
											Te (if	mperatu applicab	re up ole):	pon receipt at Lab NA
			Pleas	2 (2)	a ho	ick f	or to	erms	and co	ndit			-	
			1 10036	- 200		UK I	01.10	C11113	and co	zriuli	0113			



PROJECT NUMBER	230029	DATE	1/4/2023

PROJECT Okemos Public Montessori at Central

SAMPLED BY

ERG

CLIENT

Okemos Public Schools

ANALYZED BY Fibertec/Metiri Group Company

#### AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	RESULTS
SAMPLE#	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	ug/m³
			10:25		14.6			
1	AM	Girls Bathroom between Room 108 and 109	11:30	63	14.6	14.6	949	ND
			10:29		14.6			
2	AM	Men's Restroom between Room 108 and 109		66	14.6	14.6	934	ND
			10:30		14.6			
3	AM	Room 112 Work Room	11:32	62	14.6	14.6	905	ND
		D 400 M : D	10:31	0.4	14.6	440	201	ND
4	AM	Room 130 Music Room	11:32	61	14.6	14.6	891	ND
5	AM	Room 124B Ms. Abby	10:38 11:42	64	14.6 14.6	14.6	934	ND
		,	10:40	_	14.6			
6	AM	Room behind 124B	11:43	63	14.6	14.6	920	ND
			10:33		14.6			
7	AM	Room 131 Art Room	11:33	60	14.6	14.6	876	ND
			10:35		14.6			
8	AM	Room 121 Library	11:40	65	14.6	14.6	949	ND
		D 407.14 5:	13:04	70	14.6	440	4000	ND
9	AM	Room 127 Ms. Erin	14:19	73	14.6	14.6	1066	ND
			13:06		14.6			
10	AM	Room 128 Learning Center	14:20	74	14.6	14.6	1080	ND

ND - NOT DETECTED AT OR ABOVE THE LABORATORY REPORTING LIMIT

**QUALITY CONTROL DATA** 

SAMPLE TYPES:

AM - AREA MONITORING

SAMPLE

TYPE	DESCRIPTION OF SAMPLE	RESULTS ug
FB	Field Blank	ND
FB	Field Blank	ND



PROJECT NUMBER 230029 DATE 1/4/2	2023
----------------------------------	------

PROJECT Okemos Public Montessori at Central

SAMPLED BY ERG

CLIENT Okemos Public Schools

ANALYZED BY Fibertec/Metiri Group Company

#### AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	RESULTS
SAMPLE #	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	ug/m³
		5 400	13:23		15.0	45.0	0.45	
11	AM	Room 129	14:26	61	15.0	15.0	915	ND
12	AM	Room 122	13:42 14:43	61	15.0 15.0	15.0	915	ND
13	AM	Women's Restroom near Peace Room	14:28 16:20	113	15.0 15.0	15.0	1695	ND
14	AM	Room 125 near center	14:33 16:21	100	15.0 15.0	15.0	1500	ND
15	AM	Men's Restroom near Peace Room	14:39 16:19	98	15.0 15.0	15.0	1470	ND

ND - NOT DETECTED AT OR ABOVE THE LABORATORY REPORTING LIMIT

#### **QUALITY CONTROL DATA**

SAMPLE TYPES:

AM - AREA MONITORING

SAMPLE

TYPE	DESCRIPTION OF SAMPLE	RESULTS ug
FB	Field Blank	ND
FB	Field Blank	ND



A METIRI GROUP COMPANY

Wednesday, January 10, 2024

Fibertec Project Number: A19150

Project Identification: Okemos Public Montessori at Central (230029) /230029

Submittal Date: 01/08/2024

Mrs. Kristin Peterson Environmental Resources Group-Lansing 3125 Sovereign Dr. Suite B Lansing, MI 48910

Dear Mrs. Peterson,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

By Sue Ricketts at 1:51 PM, Jan 10, 2024

For Heather L. Smith Director of Laboratory Operations

**Enclosures** 



Order: A19150 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Girls Bathroom Between Rm Chain of Custody: N/A

Group-Lansing 108 & Rm 109

Client Project Name: Okemos Public Montessori at Sample No: -01 Collect Date: 01/04/24 Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19150-001 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Girls Bathroom Between Rm 108 & Rm 109

					Prepa	ration	Analysis		
Parameter(s)	Result	Q Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch II	lnit.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C J	JJS



Order: A19150 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Men's Bathroom Between Rm Chain of Custody: N/A

Group-Lansing 108 & Rm 109

Client Project Name: Okemos Public Montessori at Sample No: -02 Collect Date: 01/04/24 Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19150-002 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Men's Bathroom Between Rm 108 & Rm 10

					Prepa	ration	Analysis			
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.	
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C	JJS	



Order: A19150 Date: 01/10/24

01/04/24

Collect Date:

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 112 Work Room Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: -03

Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19150-003 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Room 112 Work Room

					Prepa	ration	Analysis			
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.	
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C	JJS	



Order: A19150 Date: 01/10/24

01/04/24

Collect Date:

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 130 Music Room Chain of Custody: N/A

Group-Lansing
Client Project Name: Okemos Public Montessori at Sample No: -04

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19150-004 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Room 130 Music Room

Preparation Analysis Q Reporting Limit P. Date Parameter(s) Result Units Dilution P. Batch A. Date A. Batch Init. U 1. Lead 0.25 10 01/09/24 PT24A09D 01/09/24 T424A09C JJS µg/m3



Order: A19150 Date: 01/10/24

01/04/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 124 B Ms. Abby Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: -05 Collect Date:

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19150-005 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Room 124 B Ms. Abby

Preparation Analysis Q Reporting Limit P. Date Parameter(s) Result Units Dilution P. Batch A. Date A. Batch Init. U 1. Lead 0.25 10 01/09/24 PT24A09D 01/09/24 T424A09C JJS µg/m3



Order: A19150 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Behind Room 124 B Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: -06 Collect Date: 01/04/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19150-006 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Behind Room 124 B

Preparation Analysis Q Reporting Limit Dilution P. Date Parameter(s) Result Units P. Batch A. Date A. Batch Init. U 1. Lead 0.25 10 01/09/24 PT24A09D 01/09/24 T424A09C JJS µg/m3



Order: A19150 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 131 Art Room Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: -07 Collect Date: 01/04/24 Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19150-007 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Room 131 Art Room

					Prepa	ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C	JJS



Order: A19150 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 121 Library Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: -08 Collect Date: 01/04/24

Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19150-008 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Room 121 Library

					Prepa	ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C	JJS



Order: A19150 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 127 Ms. Erin Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: -09 Collect Date: 01/04/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19150-009 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Room 127 Ms. Erin

						ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Ini	t.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C JJ	S



Order: A19150 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 128-Learning Center Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: -10 Collect Date: 01/04/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MSAliquot ID:A19150-010Matrix: AirMethod: NIOSH 7303/NIOSH 7303 (Modified)Description:Room 128-Learning Center

					Prepa	ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C	JJS



Order: A19150 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 129 Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 11 Collect Date: 01/04/24 Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19150-011 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified) Description: Room 129

					Preparation		Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C	JJS



Order: A19150 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 122 Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 12 Collect Date: 01/04/24 Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19150-012 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified) Description: Room 122

					Prepa	ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C	JJS



Order: A19150 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Womens Restroom Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 13 Collect Date: 01/04/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19150-013 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Womens Restroom

					Prepa	ration	Analysis			
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.	
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C	JJS	



Order: A19150 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 125 Near Center Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 14 Collect Date: 01/04/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19150-014 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Room 125 Near Center

					Prepa	ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C	JJS



Order: A19150 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Men's Restroom Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 15 Collect Date: 01/04/24

Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19150-015 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Men's Restroom

					Prepa	ration	Α	Analysis	
Parameter(s)	Result	Q Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C	JJS



Order: A19150 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Field Blank 1 Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 16 Collect Date: 01/04/24

Central (230029)

Client Project No: 230029 Sample Matrix: Blank: Air Cassette Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements - Modified for ICP/MS Aliquot ID: A19150-016 Matrix: Blank: Air Cassette

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Field Blank 1

					Prepa	ration	Α	nalysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C	JJS



Order: A19150 Date: 01/10/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Field Blank 2 Chain of Custody: N/A

Group-Lansing
Client Project Name: Okemos Public Montessori at Sample No: 17 Collect Date: 01/04/24

Central (230029)

Client Project No: 230029 Sample Matrix: Blank: Air Cassette Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements - Modified for ICP/MS Aliquot ID: A19150-017 Matrix: Blank: Air Cassette

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Field Blank 2

					Prepa	ration	, ,	Analysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg	0.25	10	01/09/24	PT24A09D	01/09/24	T424A09C	JJS



#### Analytical Laboratory Report Laboratory Project Number: A19150

Order: A19150 Date: 01/10/24

### **Definitions/ Qualifiers:**

- A: Spike recovery or precision unusable due to dilution.
- **B:** The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- \*: Value reported is outside QC limits
- **D:** The sample or extract was analyzed at a DF greater than 1.

#### **Exception Summary:**

#### **Analysis Locations:**

All analyses performed in Holt.



Accreditation Number(s):

T104704518-23-15 (TX)



									_			
lient Name: ERG						Ρ.	RAMETERS			Matrix Code		
Contact Person: K. PRIRCSON	7 ]									s soil GW Ground W	ater	
roject Name/ Number: 230029	GODE				1,				(	A Mir SW Surface W	ater	
roject Location: Okmos Rublic Mantesorri at antral	ĕ					1			PLE	O Oil W Wastewat	er	
					, i		111		AM	B Bulks X Other: Spe	cify	
Mail Distribution list: Kristin. peterson @ engrp. Net phillip. peterson @ engrp. Net	(SEE RIGHT CORN	ERS							HOLD SAMPLE			
phillip peterson (o engrp Net	- ISI	OF CONTAINERS	–ਰ						ĭ			
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urchase Order No.:	MATRIX	P	1			1				Remarks:		
Date Time Sample # Cilent Sample Descriptor		1			$\top$	1				949 L		
4/21   -01   2000 109	A	1	X		+-	1-1				934 L		
1 -02 Men's bathroom between Room	A	1	X	-		$\vdash$		_	-	905 L		
-02 Room 112 work Room	A		×		-	+			-			
-04 Room 130 Music room	A	7	X						=	890 to 991 L		
-05 Room 124B Ms. Abby	A	1	X							934 L		
-OC Behind Room 124B	A	1	X			2				920 L		
-07 Room 131 Art Room	A	i	X							876 L		
1 07 0	A	1	X							9496		
	A	1	X							loule L	seived By I	
-09 ROOM 127 MS. EMA		1			+					10801	convoca by .	
+ 10 Room 128 - Learning Center	17		X	<u> </u>		Sa	mples received	in acceptat	ole o		JAN 0 8 2024	
omments:							<u> </u>	0			21/	
ampled/Relinquished By:	Date	/ Time		<u> </u>	2	1	eceived By:	ad Par	114	Le 1-8-24 11:16 Init	ials:	
That a bet			40	<u> </u>	200		Received By: Powers 1-8-24 11:16 Initials:					
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elinguished By:	Dat€	Date/ Time Rece					ecelved By La	boratory:				
			INICEC :	DAY						LAB USE ONLY		
Turnaround Time ALL RESULTS WILL BE SENT BY THE EN	1D OF T	OF THE BUSINESS DAY							$\Lambda M \Lambda$			
Same day1 bus. day2 bus. days	_	3	bus. c	iays	-		bus, days	ERG project number:				
Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY  Same day 1 bus. day 2 bus. days 4 bus. days ERG project number:  Temperature upon receipt at Lab (If applicable):						N/A						



Client Name:	ERG					T T T	PARAMETERS		Matrix Code				
ontact Person:		Peterson				32			S Soil Ground Water SW Surface Water				
ect Name/ Number: 2300099 ect Location: Central sill Distribution List: Kristin peterson @ergrp. net		R FOR CODE			1								
all Distribution List:	Kristi Nilip.	n. peterson @ergrp. net peterson @ergrp. net	(SEE RICHT CORNER FOR CODE)	# OF CONTAINERS					B Bulks X Other: Specify				
one No.:			⟨ SEE	INO	end								
chase Order No.:			MATRIX	OFC	2				Remarks:				
Date Time	Sample #	Room 129	A	#	X	+			9156				
124	11	Room laa	A	-	X				9156				
	19	women's Restroom	47	-	X				16952				
	13	Room 125 Near center	-JA	,		+++			1500 L				
	14		- A	7	X				14701				
V	15	Men's restroom	A	-1	X			+	0 6				
	16	Field BLANK 1	A	1	1				0 1				
	17	Field Blank 2	A	1	X		-+++		0 0				
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linquished By:			Dafe	/ Time			Received by	0					
Inquished By:			Date/ Time Received					ived By Laboratory:					
	· 1	urnground Time ALL RESULTS WILL BE SENT BY TH	IE END OF T	HE BUS	INESS DA	Y	E E		LAB USE ONLY A 1915				
Same day					3 bus. day		4 bus. days	ERG projec	ct number:				
		Other (specify time/date requiremen	nt}:					Temperati	ure upon recelpt at Lab ble):				
Relinquished By:Same day5-7 bus. days	1 b		HE END OF T	HE BUS	SINESS DA'	s		ERG projec Temperatu (if applica	ure upon recelpt at Lab				



PROJECT Okemos Public Montessori at Central

SAMPLED BY ERG

CLIENT Okemos Public Schools

ANALYZED BY Fibertec/Metiri Group Company

#### AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	RESULTS
SAMPLE #	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	ug/m³
			7:30		15.5			
1	AM	Room 126 near entry	8:57	87	15.5	15.5	1348,5	ND
			9:01		15.5			
2	AM	Staff Room near refrigerator	10:12	71	15.5	15.5	1101	ND
			9:05		15.5			
3	AM	Gym near Storage Closet	10:21	76	15.5	15.5	1178	ND
4	0.04	Unner level Children near steins	9:11	00	15.5	45.5	1001	ND
4	AM	Upper level Childcare near stairs	10:39 11:35	88	15.5 15.5	15.5	1364	ND
5	AM	Room 124A near desk	13:09	94	15.5	15.5	1457	ND
- u	7	Treem 12 // Treem deem	12:07	· ·	15.5			
6	AM	Room 135 near center	13:05	58	15.5	15.5	899	ND
			13:01		15.5			
7	AM	Hallway near Room 135	14:25	84	15.5	15.5	1302	ND
			13:12		15.5			
8	AM	Cafeteria near center	14:26	74	15.5	15.5	1147	ND
	0.04	0-5-4	13:15	70	15.5	45.5	4440	ND
9	AM	Cafeteria server area near entry	14:27	72	15.5	15.5	1116	ND
40			14:32	0.5	15.5	45.5	4000	ND
10	AM	Hallway near Work Room	15:37	65	15.5	15.5	1008	ND

ND - NOT DETECTED AT OR ABOVE THE LABORATORY REPORTING LIMIT

#### **QUALITY CONTROL DATA**

SAMPLE TYPES:

AM - AREA MONITORING

SAMPLE

TYPE	DESCRIPTION OF SAMPLE	RESULTS ug				
FB	Field Blank	ND				
FB	Field Blank	ND				



A METIRI GROUP COMPANY

Monday, January 15, 2024

Fibertec Project Number: A19151

Project Identification: Okemos Public Montessori at Central (230029) /230029

Submittal Date: 01/08/2024

Mrs. Kristin Peterson Environmental Resources Group-Lansing 3125 Sovereign Dr. Suite B Lansing, MI 48910

Dear Mrs. Peterson,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

By Sue Ricketts at 11:45 AM, Jan 15, 2024

For Heather L. Smith Director of Laboratory Operations

**Enclosures** 



Order: A19151 Date: 01/15/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 126 Near Entry Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: -01 Collect Date: 01/05/24 Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19151-001 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified) Description: Room 126 Near Entry

					Prepa	ration	ΑΑ	nalysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/12/24	PT24A12C	01/12/24	T424A12B	JJS



Order: A19151 Date: 01/15/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Staff Room Near Refrigerator Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: -02 Collect Date: 01/05/24

Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19151-002 Matrix: Air Method: NIOSH 7303/NIOSH 7303 (Modified) Description: Staff Room Near Refrigerator

					Prepa	ration	Α	Analysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/12/24	PT24A12C	01/12/24	T424A12B	JJS



Order: A19151 Date: 01/15/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Gym Near Storage Closet Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: -03 Collect Date: 01/05/24

Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19151-003 Matrix: Air Method: NIOSH 7303/NIOSH 7303 (Modified) Description: Gym Near Storage Closet

Preparation Analysis Q Reporting Limit P. Date Parameter(s) Result Units Dilution P. Batch A. Date A. Batch Init. U 1. Lead 0.25 10 01/12/24 PT24A12C 01/12/24 T424A12B JJS µg/m3



Order: A19151 Date: 01/15/24

01/05/24

Collect Date:

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Upper Level Childcare Near Chain of Custody: N/A Stairs

Client Project Name: Okemos Public Montessori at Sample No: -04

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19151-004 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified) Description: Upper Level Childcare Near Stairs

					Prepa	ration	F	Analysis	
Parameter(s)	Result C	Q Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/12/24	PT24A12C	01/12/24	T424A12B	JJS



Order: A19151 Date: 01/15/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 124 A Near Desk Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: -05 Collect Date: 01/05/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Air
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19151-005 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Room 124 A Near Desk

					Prepa	ration	Α	nalysis
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/12/24	PT24A12C	01/12/24	T424A12B JJS

lab@fibertec.us



Order: A19151 01/15/24 Date:

01/05/24

A METIRI GROUP COMPANY

Sample Comments:

Chain of Custody: N/A Client Identification: **Environmental Resources** Sample Description: Room 135 Near Sink

**Group-Lansing** Client Project Name: Okemos Public Montessori at Sample No: -06 Collect Date:

Central (230029) Collect Time: 230029 NA

Client Project No: Sample Matrix: Air

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19151-006 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified) Description: Room 135 Near Sink

					Prepa	ration	Α	Analysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch In	nit.
‡ 1.Lead	U	μg/m3	0.25	10	01/12/24	PT24A12C	01/12/24	T424A12B J	JS



Order: A19151 Date: 01/15/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Hallway Near Room 135 Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 7 Collect Date: 01/05/24

Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19151-007 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Hallway Near Room 135

					Prepa	ration	Α	Analysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/12/24	PT24A12C	01/12/24	T424A12B	JJS



Order: A19151 Date: 01/15/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Café Near Center Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: -08 Collect Date: 01/05/24 Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19151-008 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Café Near Center

Preparation Analysis Q Reporting Limit Dilution P. Date Parameter(s) Result Units P. Batch A. Date A. Batch Init. U 1. Lead 0.25 10 01/12/24 PT24A12C 01/12/24 T424A12B JJS µg/m3



Order: A19151 Date: 01/15/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Café Server Near Entry Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: -09 Collect Date: 01/05/24

Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19151-009 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Café Server Near Entry

					Prepa	ration	F	Analysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/12/24	PT24A12C	01/12/24	T424A12B 、	JJS



Order: A19151 Date: 01/15/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Hallway Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 10 Collect Date: 01/05/24

Central (230029)

Client Project No: 230029 Sample Matrix: Air Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead - Modified for ICP/MS Aliquot ID: A19151-010 Matrix: Air

Method: NIOSH 7303/NIOSH 7303 (Modified) Description: Hallway

					Prepa	ration	, ,	Analysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/m3	0.25	10	01/12/24	PT24A12C	01/12/24	T424A12B	JJS



Order: A19151 Date: 01/15/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Field Blank 1 Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 11 Collect Date: 01/05/24

Central (230029)

Client Project No: 230029 Sample Matrix: Blank: Air Cassette Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements - Modified for ICP/MS Aliquot ID: A19151-011 Matrix: Blank: Air Cassette

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Field Blank 1

					Prepa	ration	Δ	nalysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg	0.25	10	01/12/24	PT24A12C	01/12/24	T424A12B	JJS



Order: A19151 Date: 01/15/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Field Blank 2 Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 12 Collect Date: 01/05/24 Central (230029)

Client Project No: 230029 Sample Matrix: Blank: Air Cassette Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements - Modified for ICP/MS Aliquot ID: A19151-012 Matrix: Blank: Air Cassette

Method: NIOSH 7303/NIOSH 7303 (Modified)

Description: Field Blank 2

					Prepa	ration		Analysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch II	lnit.
‡ 1.Lead	U	μg	0.25	10	01/12/24	PT24A12C	01/12/24	T424A12B J	JJS



#### Analytical Laboratory Report Laboratory Project Number: A19151

Order: A19151 Date: 01/15/24

# **Definitions/ Qualifiers:**

- A: Spike recovery or precision unusable due to dilution.
- **B:** The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- \*: Value reported is outside QC limits
- **D:** The sample or extract was analyzed at a DF greater than 1.

#### **Exception Summary:**

#### **Analysis Locations:**

All analyses performed in Holt.



Accreditation Number(s):

T104704518-23-15 (TX)



Client Name:	ERG							P/	ARAMETE	RS			Matrix Code
Contact Person:	K. Pe	eterson											S Soil GW Ground Water
Project Name/ Nu			CODE										Air SW Surface Water
Project Location:	Oklemos	& Public Montersoni at	Š.				- [					ᇦ	O Oil W Wastewater
Email Distribution L Kristin Pe	ist: terser@	B Public Montersoni at engrper central	(SEE RIGHT CORNER FOR CODE)	OF CONTAINERS								HOLD SAMPLE	B Bulks X Other: Specify
Phone No.:		<i>-</i> - 21		NTA	_	]						-	
Purchase Order N	0.;		MATRIX	PCC	Pagg			1 1					
Date Time			X X	0 #	7	L						L	Remarks:
1/5/24	-01	Room lab wear entry	A	,	×								1348.5 L
	-09	Staff room Near refrigenter	A	(	X								1,100.5 L
	-03		A	4	X	П		1 1					1,178 L
	-04	upper level childcore	٨	1	×			11					1364 6
	-05	Room 124 A new desk	A	1	X	1							1457 L
	-06	Room 135 near sink	A	1	X	$\Box$		Ħ					899 L
	7	Hanway new Roum 135	A	1	X	$\Box$							1302 L
	-08	case near censer	A	١	X								1147 -
	-09	case server near entry	A	١	×								1116 L
	10	Hanway	A	1	X								1008 6
Comments:								\$a	mples red	elved	in accept	able (	condition
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	ays (standard)	Other (specify time/date requirement):									Tempero (if applio		upon receipt at Lab  \( \lambda \int \lambda
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# Environmental Resources Group

3125 Sovereign Drive • Suite B • Lansing, MI 48911 Phone: 517-999-6020 • Fax 248-924-3108

And the second s						PARAMETER	RS .	.,.	Matrix Code
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Contact Person: L. PETEV SIM	ODE							1	Sw Surface Water
oject Name/ Number: 230029	5			-		111	1 1	PLE	O Oil W Wastewater
oject Location: OPM at C-PATRAL							1 1	SAM	B Bulks X Other: Specify
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5-7 bus. days (standard) Other (specify time/date requiren	neni):				-01		Tempe (If app	rature IIcable	e upon receipt at Lab e):
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# Appendix J Lead in Dust Data Sheets and Analytical Data and Chain of Custody Forms



ERG

PROJECT Okemos Public Montessori at Central SAMPLED BY ERG

CLIENT Okemos Public Schools ANALYZED BY Fibertec/Metiri Group Company

#### AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	RESULTS
SAMPLE#	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	ug/ft <sup>3</sup>
			14:25					
1	Wipe	Room 102 Ms. Susan directly under white board						ND
			14:28					
2	Wipe	Room 103-Ms Adrianne directly below metal closet	44.00					ND
0	\A/:	De con 404 Me IX en estima ette le el consulta constituta e	14:30					ND
3	Wipe	Room 104-Ms Kara directly below unit ventilator	14:33					ND
4	Wipe	105-Ms Theresa on table directty below smartboard	14.33					ND
		,	15:35					
5	Wipe	Room 106-Ms. Lorie Main entry door frame inside room						ND
			15:15					
6	Wipe	Room 107-Ms.Beth on tile at entry to bathroom	45.40					ND
7	Wipe	Room 108-Psych directly in front of desk	15:18					ND
			15:20					. :-
8	Wipe	Room 109 Social Ms. Chelsea directly under sink						ND
			15:24				<u> </u>	
9	Wipe	Room 110 Speech south side of radiant heater						ND

ND - NOT DETECTED AT OR ABOVE THE LABORATORY REPORTING LIMIT

SAMPLE TYPES: Wipe



A METIRI GROUP COMPANY

Tuesday, January 16, 2024

Fibertec Project Number: A19104

Project Identification: Okemos Public Montessori at Central (230029) /230029

Submittal Date: 01/03/2024

Mr. Phillip Peterson
Environmental Resources Group-Lansing
3125 Sovereign Dr. Suite B
Lansing, MI 48910

Dear Mr. Peterson,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

By Jacob Sutherlund at 12:08 PM, Jan 16, 2024

al Athalia

For Heather L. Smith Director of Laboratory Operations

**Enclosures** 



Order: A19104 Date: 01/16/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 102-Ms. Susan Directly below Chain of Custody: N/A

Group-Lansing smartboard

Client Project Name: Okemos Public Montessori at Sample No: 1 Collect Date: 01/02/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19104-001 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: 102-Ms. Susan Directly below smartboard

Preparation Analysis Result Q Units Reporting Limit P. Date Parameter(s) Dilution P. Batch A. Date A. Batch Init. 1. Lead U 4.0 20 01/10/24 PT24A10A 01/10/24 T424A10B AVC μg/ft2



Order: A19104 Date: 01/16/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 103-Mrs. Adrianne Directly Chain of Custody: N/A

Group-Lansing bleow metal closet

Client Project Name: Okemos Public Montessori at Sample No: 2 Collect Date: 01/02/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19104-002 Matrix: Wipe

Method: NIOSH 7303 (Modified)

Description: 103-Mrs. Adrianne Directly bleow metal clo

					Prepa	ration	ΑΑ	nalysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/10/24	PT24A10A	01/10/24	T424A10B	AVC



Order: A19104 Date: 01/16/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 104-Mrs. Kara Directly below Chain of Custody: N/A

Group-Lansing unit ventilater

Client Project Name: Okemos Public Montessori at Sample No: 3 Collect Date: 01/02/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19104-003 Matrix: Wipe

Method: NIOSH 7303 (Modified)

Description: 104-Mrs. Kara Directly below unit ventilater

					Prepa	ration	ΑΑ	nalysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/10/24	PT24A10A	01/10/24	T424A10B	AVC



Order: A19104 Date: 01/16/24

N/A

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 105-Mrs.Theresa On table Chain of Custody:

Group-Lansing directly below smartboard

Client Project Name: Okemos Public Montessori at Sample No: 4 Collect Date: 01/02/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19104-004 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: 105-Mrs.Theresa On table directly belows

Preparation Analysis Result Q Units Reporting Limit P. Date Parameter(s) Dilution P. Batch A. Date A. Batch Init. 1. Lead U 4.0 20 01/10/24 PT24A10A 01/10/24 T424A10B AVC μg/ft2



Order: A19104 Date: 01/16/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 106-Ms. Lorie Main entry door Chain of Custody: N/A

Group-Lansing frame inside room

Client Project Name: Okemos Public Montessori at Sample No: 5 Collect Date: 01/02/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19104-005 Matrix: Wipe

Method: NIOSH 7303 (Modified)

Description: 106-Ms. Lorie Main entry door frame inside

					Prepa	ration	F	Analysis
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/10/24	PT24A10A	01/10/24	T424A10B AVC



Order: A19104 Date: 01/16/24

01/02/24

Collect Date:

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 107-Beth On tile at entry to Chain of Custody: N/A

Group-Lansing bathroom
Client Project Name: Okemos Public Montessori at Sample No: 6

Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19104-006 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: 107-Beth On tile at entry to bathroom

					Prepa	ration	Α	Inalysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/10/24	PT24A10A	01/10/24	T424A10B A	AVC



Order: A19104 Date: 01/16/24

N/A

01/02/24

Chain of Custody:

Collect Date:

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 108-Psych Directly by front of

Group-Lansing desk
Okemos Public Montessori at Sample No: 7

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Wipe
 Collect Time:
 NA

Sample Comments:

Client Project Name:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19104-007 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: 108-Psych Directly by front of desk

					Prepa	ration	A	Analysis
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/10/24	PT24A10A	01/10/24	T424A10B AVC



Order: A19104 Date: 01/16/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 109-Social Chelsea Directly Chain of Custody: N/A

Group-Lansing under sink
Client Project Name: Okemos Public Montessori at Sample No: 8

Client Project Name: Okemos Public Montessori at Sample No: 8 Collect Date: 01/02/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19104-008 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: 109-Social Chelsea Directly under sink

					Prepa	ration	Α	nalysis
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/10/24	PT24A10A	01/10/24	T424A10B AVC



Order: A19104 Date: 01/16/24

01/02/24

Collect Date:

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: 110-Speech Southside of Chain of Custody: N/A

Group-Lansing radient heater
Client Project Name: Okemos Public Montessori at Sample No: 9

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Wipe
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19104-009 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: 110-Speech Southside of radient heater

					Prepa	ration	Α	Analysis
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/10/24	PT24A10A	01/10/24	T424A10B AVC

lab@fibertec.us



Order: A19104 Date: 01/16/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Field Blank Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: FB Collect Date: 01/02/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Blank: Wipe
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19104-010 Matrix: Blank: Wipe

Method: NIOSH 7303 (Modified) Description: Field Blank

					Prepa	ration	A	Analysis
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/10/24	PT24A10A	01/10/24	T424A10B AVC



#### Analytical Laboratory Report Laboratory Project Number: A19104

Order: A19104 Date: 01/16/24

A METIRI GROUP COMPANY

#### **Definitions/ Qualifiers:**

- A: Spike recovery or precision unusable due to dilution.
- **B:** The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- \*: Value reported is outside QC limits

#### **Exception Summary:**

#### **Analysis Locations:**

All analyses performed in Holt.



Accreditation Number(s):

T104704518-23-15 (TX)



			_								_		_		
Client Name: <b>F</b> /	nvivunme	Hal Resurres trong							PARAME	TERS				Matrix Code	
Contact Person:														S Soil GV	Ground Water
Project Name/ No			CODE											A Air SW	Surface Water
Project Location:	Okenos	Public Muheseri at Central	ğ.		2								끨	O Oil W	Wastewater
Email Distribution	List:		ORNE	10	3								SAM	B Bulks X	Other: Specify
Phill	ip. pet	terson@ergrp.net	MATRIX (SEE RIGHT CORNER	OF CONTAINERS		П							HOLD SAMPLE		
Phone No.:	317-25	6-4248	SEER	NIA	3			ŀ					T		
Purchase Order N	lo.:		TRIX	)F.C.	इ		ľ								
Date 11m	e Sample#		-	#	2	$\vdash$	_	-		-	$\vdash$			Remarks:	<b>A</b> ( ) ( )
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	2	103-mrk. Adrianne Directly bejow metal Woset	X	1	X	Ш		_		_					· ·
1	3	104- Mrs. Koval Directly below ithit ventilator	X	١	X	Ш		_		_				λι	11
	4	105 - mrs. Therefore Smurbuara	X	1	X	Ш				_				<u> </u>	1.1
	5	main entry door prome made room	X	1	X									11	
	6	On the at entry to authorism	Х	1	×										Tr
	17	108-184 ch patront in Desk	X		X										<b>1</b> (0)
	8	lig. Social chelses.	X	1	X									••	9.9
	a	110. Speeth sound side of radient heater	X	1	×										r;
	63	Field Biank	X	1	¥									O 5.F.	
Comments:								S	amples r	eceive	d in ac	ceptal	ble c	ondition	Received By Lab
Sampled/Relinqui	ished By:	5.41 4-0.1dA		Time					Receive	d By:	10	0-	L		
Relinquished By:	P	eyyy Warmy	\ ('Z		1		6:5		Receive			M		1	JAN 0 3 21124
kemiquished by.	Bully	G. L.L	01/6	3/25		05.	00		5	2	_	/			)M
Relinquished By:				Time					Receive	d By Lo	borate	ory:			Illitials.
		Turnaround Time ALL RESULTS WILL BE SENT BY THE END	OF T	IE BUS	INESS	DAY								LAB USE ONLY	<u>Y</u>
						_	_4 bus. do	zys	ERG	3 proje	ct nu	mber. A19101	4		
<u>X</u> 5-7 bus, do	ays (standard)	Other (specify time/date requirement):					-					nperati applica		pon receipt at Lab	4
		PI	ease	see	e ba	ck fo	or feri	ns a	nd co	nditio	ons				
													_		



PROJECT NUMBER	230029	DATE	1/3/2023

PROJECT Okemos Public Montessori at Central

SAMPLED BY ERG

CLIENT Okemos Public Schools

ANALYZED BY Fibertec/Metiri Group Company

#### AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	RESULTS
SAMPLE#	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	ug/ft²
1	Wipe	Room 117 Ms. Rachel at entry door frame						ND
2	Wipe	Room 116 Ms. Jennifer in front of wood door exit						ND
3	Wipe	Room 111 Conference Room south wall near smartboard						ND
4	Wipe	New General Office Main Room in front of west windows						ND
5	Wipe	New General Office side Room in front of desk						ND
6	Wipe	Room 118- Ms. Erin at entry door frame						ND
7	Wipe	Room 119- Ms. Holly in front of metal closet						ND
8	Wipe	Room 120-Ms Mary under wooden boxes on east side						ND
9	Wipe	Room 121-Ms. Kelly under light switch near entry door						ND
10	Wipe	Room 124D- Ms. Jamie in front of playroom door under peeling pain						ND

ND - NOT DETECTED AT OR ABOVE THE LABORATORY REPORTING LIMIT

SAMPLE TYPES Wipe



A METIRI GROUP COMPANY

Friday, January 19, 2024

Fibertec Project Number: A19128

Project Identification: Okemos Public Montessori at Central (230029) /230029

Submittal Date: 01/04/2024

Mr. Phillip Peterson
Environmental Resources Group-Lansing
3125 Sovereign Dr. Suite B
Lansing, MI 48910

Dear Mr. Peterson,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

By Sue Ricketts at 10:13 AM, Jan 19, 2024

For Heather L. Smith Director of Laboratory Operations

**Enclosures** 



Order: A19128 Date: 01/19/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 117-Mrs. Rachel At Entry Chain of Custody: N/A

Group-Lansing Door Frame

Client Project Name: Okemos Public Montessori at Sample No: 1 Collect Date: 01/03/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19128-001 Matrix: Wipe

Method: NIOSH 7303 (Modified)

Description: Room 117-Mrs. Rachel At Entry Door Fram

					Prepa	ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E	JJS



Order: A19128 Date: 01/19/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 116-Mrs. Jennifer Infront Chain of Custody: N/A

Group-Lansing of Wooden Door Exit

Client Project Name: Okemos Public Montessori at Sample No: 2 Collect Date: 01/03/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19128-002 Matrix: Wipe

Method: NIOSH 7303 (Modified)

Description: Room 116-Mrs. Jennifer Infront of Wooden

						Prepa	Preparation		Anaiysis	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U		μg/ft2	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E	JJS

lab@fibertec.us



Order: A19128 Date: 01/19/24

01/03/24

Collect Date:

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 111-Conference Rm. Chain of Custody: N/A

Group-Lansing South Wall Near Smartboard
Client Project Name: Okemos Public Montessori at Sample No: 3

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Wipe
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19128-003 Matrix: Wipe

Method: NIOSH 7303 (Modified)

Description: Room 111-Conference Rm. South Wall Nea

				Prepa	ration	Analysis			
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E	JJS



Order: A19128 Date: 01/19/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: New General Office-Main Rm Chain of Custody: N/A

Group-Lansing Infront of West Windows

Client Project Name: Okemos Public Montessori at Sample No: 4 Collect Date: 01/03/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19128-004 Matrix: Wipe

Method: NIOSH 7303 (Modified)

Description: New General Office-Main Rm Infront of We

					Preparation		Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E	JJS



Order: A19128 Date: 01/19/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: New General Office-Side Rm Chain of Custody: N/A

Group-Lansing Infront of Desk

Client Project Name: Okemos Public Montessori at Sample No: 5 Collect Date: 01/03/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19128-005 Matrix: Wipe

Method: NIOSH 7303 (Modified)

Description: New General Office-Side Rm Infront of Des

						ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E	JJS



Order: A19128 Date: 01/19/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 118-Erin At Entry Door Chain of Custody: N/A

Group-Lansing Frame

Client Project Name: Okemos Public Montessori at Sample No: 6 Collect Date: 01/03/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19128-006 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: Room 118-Erin At Entry Door Frame

					Prepa	ration	A	nalysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E	JJS



Order: A19128 Date: 01/19/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 119-Holly Infront of Chain of Custody: N/A

Group-Lansing Metal Closet

Client Project Name: Okemos Public Montessori at Sample No: 7 Collect Date: 01/03/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19128-007 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: Room 119-Holly Infront of Metal Closet

Preparation Analysis Q Reporting Limit P. Date Parameter(s) Result Units Dilution P. Batch A. Date A. Batch Init. U 1.Lead μg/ft2 4.0 20 01/09/24 PT24A09B 01/09/24 T424A09E JJS



Order: A19128 Date: 01/19/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 120-Mary Under Wooden Chain of Custody: N/A

Group-Lansing boses on East Side

Client Project Name: Okemos Public Montessori at Sample No: 8 Collect Date: 01/03/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19128-008 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: Room 120-Mary Under Wooden boses on

					Prepa	ration	P	Analysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E	JJS



Order: A19128 Date: 01/19/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 121-Kelly Under Light Chain of Custody: N/A

Group-Lansing Switch by Entry Door

Client Project Name: Okemos Public Montessori at Sample No: 9 Collect Date: 01/03/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Method: NIOSH 7303 (Modified)

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19128-009 Matrix: Wipe

Parameter(s) Result Q Units Reporting Limit Dilution P. Date P. Batch A. Date A. Batch Init.

Description: Room 121-Kelly Under Light Switch by Ent

‡ 1.Lead U μg/ft2 4.0 20 01/09/24 PT24A09B 01/09/24 T424A09E JJS



Order: A19128 Date: 01/19/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 124D-Jamie Infront of Chain of Custody: N/A

Group-Lansing Playroom Door

Client Project Name: Okemos Public Montessori at Sample No: 10 Collect Date: 01/03/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19128-010 Matrix: Wipe

Method: NIOSH 7303 (Modified)

Description: Room 124D-Jamie Infront of Playroom Do

						ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E	JJS



Order: A19128 Date: 01/19/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Field Blank 1 Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: FB1 Collect Date: 01/03/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Blank: Wipe
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19128-011 Matrix: Blank: Wipe

Method: NIOSH 7303 (Modified) Description: Field Blank 1

					Prepa	ration	ΑΑ	nalysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/wipe	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E	JJS



# Analytical Laboratory Report Laboratory Project Number: A19128

Order: A19128 Date: 01/19/24

## **Definitions/ Qualifiers:**

- A: Spike recovery or precision unusable due to dilution.
- **B:** The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- \*: Value reported is outside QC limits

### **Exception Summary:**

### **Analysis Locations:**

All analyses performed in Holt.



Accreditation Number(s):

T104704518-23-15 (TX)



Client Name: FNVIYONMENTUI DEXWU	is Grono		, , , , , , , , , , , , , , , , , , ,				PARA	PARAMETERS				Matrix Code		
Contact Person: PNIT Peterson												S Soil Gw Ground Water		
Project Name/ Number: 230029		CODE									Î	A Air SW Surface Water		
Project Location: Uitemos Rubnic Mu	ntessoriat (entral	FOR						- [			PLE	O Oil W Wastewater		
Email Distribution List:  Phillip : Peterson@e19	rp. net	(SEE RIGHT CORNER F	OF CONTAINERS								HOLD SAMPLE	B Bulks X Other: Specify		
Phone No.: 517-256-4248		いい。	NTAI	0							Ĭ			
Purchase Order No.:		MATRIX S	PCC	lea										
	nt Sample Descriptor	₹	0	٦		$\bot$						Remarks:		
1 At entry do	mrs. fuchel	X	ı	X								1 square foot		
2 luncator wo	oden dour exit	x	1	X								u n		
3 Roum III - G		X	1	X								13		
y New General	office-main room	×	١	7								Ti.		
5 New General	DEGG - SHE TOOM	*	1	4								" Received By Lab		
DIXM IR -E		*	١	*								JAN 0 4 2024		
7 Royan 119-H	nemi cioset	*	)·	×								" 34110, 12021		
8 Koom 120 - 1	nbixer on tact side	X	1	*								" Initials: "D		
9 Room 121-4 under light	switch by entry don-	7	١	7								W 0		
10 Run 1240-	Junie	X	1	X								N 11		
Comments:							Sample	es rece	ived	n accepta	ble c	condition		
Sampled/Relinquished By: BUMMY NU		1/3		1	ιs	ः३ऽ	22000-03	ived 8 Mul	lyl	Relo				
Relinquished By:	Ε		Time	7 1/	25:16		Rece	ived B	y:/	Sia	n	of Powers 1-4-24 8:16		
Relinquished By:		Daté/	Time	<i>U</i> 7	08:16		Rece	lved B	y Lab	oratory:	6			
<u>Turnaround Time</u> A	LL RESULTS WILL BE SENT BY THE END	OF TH	E BUSII	NESS D	AY							LAB USE ONLY		
Same day1 bus. day2 bus. days3 bus.				ous, do	ays	_	4 bus	. days		ERG proje	ct nu	umber: A19138		
5-7 bus, days (standard) Other (sp	(standard) Other (specify time/date requirement): Temperature upon receipt at Lo													
	Ple	ase	see	bac	k for	terms	Please see back for terms and conditions							



Client Name: ENVIronmental Relovues aroup					PARAMETERS				Matrix Code		
Contact Person: Phil Peterson									S Soil GW Ground Water		
Project Name/ Number: 230029	CODE			1111					A Air SW Surface Water		
Project Location: Oxemus Rubic Munesson at Central	S. S.			1111				빌	O Oil W Wastewater		
Email Distribution List:	ORNE							SAMPLE	B Bulks (X) Other: Specify		
Phillip. peterson@ergip.net	(SEE RIGHT CORNER FOR	INER	Q					HOLD (			
Phone No.: 517-256 4248	SEE RI	# OF CONTAINERS	Pop					Ī			
Purchase Order No.:	MATRIX U. i. p	FCC	ت								
Date Time Sample # Client Sample Descriptor		#							Remarks:		
13/24 FBI Field Blank 1	X	1	X								
									1.6		
									Received By Lab		
									IAN 0 4 2024		
									JAN 0 4 2024		
									Initials: 100		
Comments:					amples red	eived in	accepta	ble c	ondition		
Sampled/Relinquished By:	Date/	Time			Received	By:	12-1				
Sampled/Relinquished By:	1/	31	24	15:35	J. Cia	llege	Lit-	79-	.2		
Relinquished By:	Date/	Time /04/	24	es:16	Received	311	nd	U ,	Powers 1-4-24 8:16		
Relinquished By:	Date/				Received	By Labor	atory				
Turnground Time ALL RESULTS WILL BE SENT BY THE EN	D OF TH	E BUSI	NESS D	DAY					LAB USE ONLY		
Same day1 bus. day2 bus. days	_	3	bus. d	days	4 bus, day	s I	ERG project number: $A19128$				
5-7 bus, days (standard)  Other (specify time/date requirement):							(if applica	ure u <sub>l</sub> ıble):	pon receipt at Lab NA		
F	lease	see	bad	ack for terms a	nd con	ditions					



1 1 1 0 0 C 0 1 1 1 0 1 0 C 1 1 0 C 1 1 0 C 1 1 0 C 1 1 0 C 1 1 0 C 1 1 0 C 1 1 0 C 1 1 0 C 1 1 0 C 1 1 0 C 1 0 C 1 1	PROJECT NUMBER	230029	DATE	1/4/2023
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PROJECT Okemos Public Montessori at Central

SAMPLED BY ERG

CLIENT Okemos Public Schools

ANALYZED BY ibertec/Metiri Group Compar

### AIR SAMPLE DATA SHEET

		DESCRIPTION	TIME ON	SAMPLE TIME	FLOW ON	AVERAGE	VOLUME	RESULTS
SAMPLE#	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	ug/ft <sup>2</sup>
1	Wipe	Girls Bathroom between 108 and 109 below sinks						ND
2	Wipe	Boys Bathroom between 108 and 109 below dispenser						ND
3	Wipe	Room 130 Music on blue shelf west window						ND
4	Wipe	Room 131 Art in front of black closet doors						ND
5	Wipe	Room 112 Work Room entry to room at bathroom						ND
6	Wipe	Room 124B at entry door						ND
7	Wipe	Room behind Room 124B closet room entry door						ND

ND - NOT DETECTED AT OR ABOVE THE LABORATORY REPORTING LIMIT

SAMPLE TYPES: Wipe





Monday, January 15, 2024

Fibertec Project Number: A19153

Project Identification: Okemos Public Montessori at Central (230029) /230029

Submittal Date: 01/08/2024

Mr. Phillip Peterson Environmental Resources Group-Lansing 3125 Sovereign Dr. Suite B Lansing, MI 48910

Dear Mr. Peterson,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

By Jacob Sutherlund at 2:37 PM, Jan 15, 2024

al Athalia

For Heather L. Smith Director of Laboratory Operations

**Enclosures** 



Order: A19153 Date: 01/15/24

N/A

Chain of Custody:

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Girls Bathroom Between 108 &

Group-Lansing 109- Below Sinks

Client Project Name: Okemos Public Montessori at Sample No: 1 Collect Date: 01/04/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19153-001 Matrix: Wipe

Method: NIOSH 7303 (Modified)

Description: Girls Bathroom Between 108 & 109- Below

						ration	Analysis				
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.		
‡ 1.Lead	U	μg/ft2	4.0	20	01/12/24	PT24A12A	01/12/24	T424A12B	JJS		

lab@fibertec.us



Order: A19153 Date: 01/15/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Boys Bathroom Between 108 & Chain of Custody: N/A

Group-Lansing 109- Below Towels

Client Project Name: Okemos Public Montessori at Sample No: 2 Collect Date: 01/04/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19153-002 Matrix: Wipe

Method: NIOSH 7303 (Modified)

Description: Boys Bathroom Between 108 & 109- Below

					Prepa	ration	ΑΑ	nalysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/12/24	PT24A12A	01/12/24	T424A12B	JJS



Order: A19153 01/15/24 Date:

A METIRI GROUP COMPANY

Client Identification: **Environmental Resources** 

**Group-Lansing** 

Sample Description:

Room 130 Music On Blue Shelf By Window

Chain of Custody:

N/A

Client Project Name:

Okemos Public Montessori at

Sample No: 3 Collect Date:

01/04/24

Client Project No:

Central (230029) 230029

Sample Matrix:

Wipe

Collect Time:

NA

Sample Comments:

Definitions:

Trace Elements by ICP/MS

Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Aliquot ID: A19153-003 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: Room 130 Music On Blue Shelf By Window

Preparation Analysis Result Q Units Reporting Limit P. Date Parameter(s) Dilution P. Batch A. Date A. Batch Init. 1. Lead U 4.0 20 01/12/24 PT24A12A 01/12/24 T424A12B JJS μg/ft2



Order: A19153 Date: 01/15/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 131 Art Infront of Black Chain of Custody: N/A

Group-Lansing Closet Doors

Client Project Name: Okemos Public Montessori at Sample No: 4 Collect Date: 01/04/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19153-004 Matrix: Wipe

Method: NIOSH 7303 (Modified)

Description: Room 131 Art Infront of Black Closet Door

						ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/12/24	PT24A12A	01/12/24	T424A12B	JJS



Order: A19153 Date: 01/15/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 112 Work Room Entry to Chain of Custody: N/A

Group-Lansing Bathroom

Client Project Name: Okemos Public Montessori at Sample No: 5 Collect Date: 01/04/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19153-005 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: Room 112 Work Room Entry to Bathroom

				Prepa	ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/12/24	PT24A12A	01/12/24	T424A12B JJS



Order: A19153 Date: 01/15/24

NA

Collect Time:

A METIRI GROUP COMPANY

Client Project No:

Client Identification: Environmental Resources Sample Description: Room 124 B At Entry Door Chain of Custody: N/A

Group-Lansing
Client Project Name: Okemos Public Montessori at Sample No: 6 Collect Date:

Sample Matrix:

Client Project Name: Okemos Public Montessori at Sample No: 6 Collect Date: 01/04/24 Central (230029)

Wipe

Sample Comments:

230029

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19153-006 Matrix: Wipe Method: NIOSH 7303 (Modified) Description: Room 124 B At Entry Door

Preparation Analysis Result Q Units Reporting Limit P. Date Parameter(s) Dilution P. Batch A. Date A. Batch Init. 1. Lead U 4.0 20 01/12/24 PT24A12A 01/12/24 T424A12B JJS μg/ft2



Order: A19153 Date: 01/15/24

N/A

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Behind Room 124 B Closet Chain of Custody:

Group-Lansing Room Entry Door

Client Project Name: Okemos Public Montessori at Sample No: 7 Collect Date: 01/04/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19153-007 Matrix: Wipe

Method: NIOSH 7303 (Modified)

Description: Behind Room 124 B Closet Room Entry Do

					Prepa	ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/12/24	PT24A12A	01/12/24	T424A12B	JJS



Order: A19153 Date: 01/15/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Field Blank 1 Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 8 Collect Date: 01/04/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Blank: Wipe
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19153-008 Matrix: Blank: Wipe

Method: NIOSH 7303 (Modified) Description: Field Blank 1

					Prepa	ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/12/24	PT24A12A	01/12/24	T424A12B	JJS



# Analytical Laboratory Report Laboratory Project Number: A19153

Order: A19153 Date: 01/15/24

# <u>Definitions/ Qualifiers:</u>

- A: Spike recovery or precision unusable due to dilution.
- **B:** The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- \*: Value reported is outside QC limits

### **Exception Summary:**

### **Analysis Locations:**

All analyses performed in Holt.



Accreditation Number(s):

T104704518-23-15 (TX)



# Environmental Resources Group

3125 Sovereign Drive • Suite B • Lansing, MI 48911 Phone: 517-999-6020 • Fax 248-924-3108

	busin		a promise from					L.	PARAM	ETERS			Mairix Code
Contact Per roject Nam	son: Phi ne/ Number stion: (Y-f) ution: Ust: peter	nos Pa		MATRIX (SEE RIGHT CORNER FOR CODE)	OF CONTAINERS	Lead						HOLD SAMPLE	S Soil  A Air  O Oil  B Bulks  Ground Water  Wastewater  Other: Specify  Remarks:
Date Date	Time	Sample #	Client Sample Descriptor	X X	#			-		-	_	_	1 square tout (s.f.)
1/4/24		1	Girls Bathroom Between 108 + 109 - Below sinks	X	1	X						_	1 3700010 4001
1		2	Boys Buthroom Behn eeners	X	1	X				-			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1		3	Room 130 music by window	X	1	X				-	_}_	_	
1-		9	POUR 131 Art INFRONT OF WHICK CHIEF SOOKS	X	1	X				$\perp$			1 5. F.
+		-	Noun 112 were room	X	١	X							1 5.F.
++		5	17.42	X	1	X							1 5.6.
$\rightarrow$		7	Behing Room 1248 down	7	1	4							1 S.F.
-			10.1	X	1	7							D 5.F.
1		8	Field Blunk 1										Received By Lab
													1441 0 0 2001
Comments						<u> </u>	<u> </u>		Samples	received	In accepta	ble o	condition JAN U 8 2024
-11/0	olin at Urba	day of	1		/ Time			72.	Receiv	ed By:	De Par	W	88 1-8-24 11:16 Initials: <u>FW</u>
ampieurk	emidosiie	Ka	ung wann	-	/ 11me		0	0.00		ed By:	7100	UU	
elinquishe	d By:		U	Date	/ 111116					(		_	
elinguishe	d By:			Date	/ Time				Receiv	red By Lat	ooralory:		
Turnaround Time ALL RESULTS WILL BE SENT BY THE Same day 1 bus. day 2 bus. days				HE BUS			_	4 bus.	days	ERG proje	ect n	LAB USE ONLY  A 19153	
V 5-7 bus, days (standard) Other (specify time/date requirement)										Tempera (If applic	lure able	upon receipt at Lab N/A	
	V-		Р	eas	e se	e bo	ick fo	or term	and c	onditio	ns		



PROJECT Okemos Public Montessori at Central

SAMPLED BY ERG

CLIENT Okemos Public Schools

ANALYZED BY ibertec/Metiri Group Compar

### AIR SAMPLE DATA SHEET

			-					
				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	RESULTS
SAMPLE#	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	ug/ft2
1	Wipe	Room 121 Library on table under cooler						ND
2	Wipe	Room 122 in front of back door						ND
3	Wipe	Room 129 Christine on L shaped counter						ND
4	Wipe	Room 128 Learning Center in florn of cabinet SW corner						ND
5	Wipe	Room 127 Erin on top of computer storage unit						ND
6	Wipe	Room 126 Peace Room in front of back door						ND
7	Wipe	Room 125 under white board						ND
8	Wipe	Girls Bathroom across from Room 118 under radiant heater						ND
9	Wipe	Boys Bathroom across from Room 117 under sinks						ND
10	Wipe	Room 124A at entry door						ND

ND - NOT DETECTED AT OR ABOVE THE LABORATORY REPORTING LIMIT

SAMPLE TYPES: Wipe



PROJECT NUMBER	230029	DATE	1/5/2023

PROJECT Okemos Public Montessori at Central

SAMPLED BY ERG

CLIENT Okemos Public Schools

ANALYZED BY Fibertec/Metiri Group Company

### AIR SAMPLE DATA SHEET

				SAMPLE	FLOW ON			
		DESCRIPTION	TIME ON	TIME	FLOW OFF	AVERAGE	VOLUME	RESULTS
SAMPLE#	TYPE	(NAME, TASK, LOCATION)	TIME OFF	(MIN)	(L/MIN)	FLOW	(LITERS)	ug/ft <sup>2</sup>
11	Wipe	Staff Lounge under light switch at entry						6.3
12	Wipe	Gym center of Basketball Court						ND
13	Wipe	Upper level childcare NE corner of tile						ND
14	Wipe	Childcare Room 135 on for tile next to refrigerato						11
15	Wipe	Cafeteria under north exit sign						ND
16	Wipe	Food Service at entry door						ND

ND - NOT DETECTED AT OR ABOVE THE LABORATORY REPORTING LIMIT

SAMPLE TYPES: Wipe





Tuesday, January 16, 2024

Fibertec Project Number: A19154

Project Identification: Okemos Public Montessori at Central (230029) /230029

Submittal Date: 01/08/2024

Mr. Phillip Peterson
Environmental Resources Group-Lansing
3125 Sovereign Dr. Suite B
Lansing, MI 48910

Dear Mr. Peterson,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

By Jacob Sutherlund at 12:05 PM, Jan 16, 2024

al Athalia

For Heather L. Smith Director of Laboratory Operations

**Enclosures** 



Order: A19154 Date: 01/16/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 121 Library SE Table in Chain of Custody: N/A

Group-Lansing Corner

Client Project Name: Okemos Public Montessori at Sample No: 1 Collect Date: 01/05/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19154-001 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: Room 121 Library SE Table in Corner

					Prepa	ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E /	AVC



Order: A19154 Date: 01/16/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 122 Infront of Black Door Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 2 Collect Date: 01/05/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Wipe
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19154-002 Matrix: Wipe Method: NIOSH 7303 (Modified) Description: Room 122 Infront of Black Door

					Prepa	ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.	
‡ 1.Lead	U	μg/ft2	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E AVC	



Order: A19154 Date: 01/16/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 129 Christine On L- Chain of Custody: N/A

Group-Lansing Shaped Counter

Client Project Name: Okemos Public Montessori at Sample No: 3 Collect Date: 01/05/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19154-003 Matrix: Wipe

Method: NIOSH 7303 (Modified)

Description: Room 129 Christine On L-Shaped Counter

					Prepa	ration	Analysis			
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U		μg/ft2	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E	AVC



Order: Date:

A19154 01/16/24

A METIRI GROUP COMPANY

Client Identification: **Environmental Resources** 

**Group-Lansing** 

Sample Description:

Room 128 Learning Ctr On Top of Cabinet SW Corner

Chain of Custody:

N/A

Client Project Name:

Okemos Public Montessori at

Sample No:

Collect Date:

01/05/24

Client Project No:

Central (230029) 230029

Sample Matrix:

Wipe

Collect Time:

NA

Sample Comments:

Definitions:

Trace Elements by ICP/MS

Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Aliquot ID: A19154-004 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: Room 128 Learning Ctr On Top of Cabinet

Preparation Analysis Result Q Units Reporting Limit P. Date Parameter(s) Dilution P. Batch A. Date A. Batch Init. 1. Lead U 4.0 20 01/09/24 PT24A09B 01/09/24 T424A09E AVC μg/ft2



Order: A19154 Date: 01/16/24

N/A

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 127 Erin L. On top of Chain of Custody:

Group-Lansing Computer Storage Unit

Client Project Name: Okemos Public Montessori at Sample No: 5 Collect Date: 01/05/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19154-005 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: Room 127 Erin L. On top of Computer Stor

					Prepa	ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.	
‡ 1.Lead	U	μg/ft2	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E AVC	

lab@fibertec.us



Order: A19154 Date: 01/16/24

N/A

01/05/24

Chain of Custody:

Collect Date:

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 126 Peace Infront of

Group-Lansing Black Door
Client Project Name: Okemos Public Montessori at Sample No: 6

Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS
Aliquot ID: A19154-006 Matrix: Wipe
Method: NIOSH 7303 (Modified)
Description: Room 126 Peace Infront of Black Door

					Prepa	aration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init	t.
‡ 1.Lead	U	μg/ft2	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E AV	'C



Order: A19154 Date: 01/16/24

01/05/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 125 Under White Board Chain of Custody: N/A

Group-Lansing
Client Project Name: Okemos Public Montessori at Sample No: 7 Collect Date:

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Wipe
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19154-007 Matrix: Wipe Method: NIOSH 7303 (Modified) Description: Room 125 Under White Board

					Preparation		A	Analysis
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E AVC



Order: A19154 01/16/24 Date:

A METIRI GROUP COMPANY

Client Identification: **Environmental Resources** 

**Group-Lansing** 

Sample Description:

Girls BR Across From 118 **Under radient Heater** 

Chain of Custody:

N/A

Client Project Name:

Okemos Public Montessori at Central (230029)

Sample No:

Collect Date:

01/05/24

Client Project No:

Parameter(s)

1. Lead

230029

Sample Matrix:

Units

μg/ft2

Wipe

8

Collect Time:

NA

Sample Comments:

Definitions:

Result

U

Q

Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS

Reporting Limit

4.0

A19154-008

Matrix: Wipe

Method: NIOSH 7303 (Modified)

Aliquot ID:

Dilution

20

Description: Girls BR Across From 118 Under radient H

Preparation Analysis P. Date P. Batch A. Date A. Batch Init. 01/09/24 PT24A09B 01/09/24 T424A09E AVC

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail

Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601

T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368 F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584



Order: A19154 Date: 01/16/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Boys BR Across From 117 Chain of Custody: N/A

Group-Lansing Under Sinks

Client Project Name: Okemos Public Montessori at Sample No: 9 Collect Date: 01/05/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19154-009 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: Boys BR Across From 117 Under Sinks

			Preparation		ration	Analysis			
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/09/24	PT24A09B	01/09/24	T424A09E	AVC



Order: A19154 Date: 01/16/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Room 124 A At Entry Door Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 10 Collect Date: 01/05/24

Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19154-010 Matrix: Wipe Method: NIOSH 7303 (Modified) Description: Room 124 A & Entry Door

					Prepa	ration	Analysis		
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Ir	nit.
‡ 1.Lead	U	μg/ft2	4.0	20	01/10/24	PT24A10A	01/10/24	T424A10B A	VC



Order: A19154 Date: 01/16/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Staff Lounge Under Light Chain of Custody: N/A

Group-Lansing Switch At Entry

Client Project Name: Okemos Public Montessori at Sample No: 11 Collect Date: 01/05/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19154-011 Matrix: Wipe

Method: NIOSH 7303 (Modified) Description: Staff Lounge Under Light Switch At Entry

					Preparation		Analysis	
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	6.3	μg/ft2	4.0	20	01/10/24	PT24A10A	01/10/24	T424A10B AVC



Order: A19154 01/16/24 Date:

A METIRI GROUP COMPANY

Client Identification: **Environmental Resources** Sample Description:

**Group-Lansing** 

**Gym Lower Center of** 

Wipe

Basketball Court

Chain of Custody: Collect Date:

01/05/24

N/A

NA

Client Project Name:

Okemos Public Montessori at Central (230029)

Collect Time:

Client Project No: Sample Comments:

Definitions:

230029

Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19154-012 Matrix: Wipe Method: NIOSH 7303 (Modified) Description: Gym Lower Center of Basketball Court

Sample No:

Sample Matrix:

					Prepa	ration		Analysis
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/10/24	PT24A10A	01/10/24	T424A10B AVC



Order: A19154 Date: 01/16/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Gym Upper NE Corner of Tile Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 13 Collect Date: 01/05/24 Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19154-013 Matrix: Wipe Method: NIOSH 7303 (Modified) Description: Gym Upper NE Corner of Tile

					Prepa	ration	F	Analysis
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/10/24	PT24A10A	01/10/24	T424A10B AVC



Order: A19154 Date: 01/16/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Child Care Next to Fridge Chain of Custody: N/A Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 14 Collect Date: 01/05/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Wipe
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19154-014 Matrix: Wipe Method: NIOSH 7303 (Modified) Description: Child Care Next to Fridge

Preparation Analysis Result Q Units Reporting Limit Dilution P. Date Parameter(s) P. Batch A. Date A. Batch Init. 1. Lead 11 4.0 20 01/10/24 PT24A10A 01/10/24 T424A10B AVC μg/ft2



Order: A19154 Date: 01/16/24

01/05/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Cafeteria Under N Exit Sign Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 15 Collect Date:

Central (230029)

Client Project No: 230029 Sample Matrix: Wipe Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19154-015 Matrix: Wipe Method: NIOSH 7303 (Modified) Description: Cafeteria Under N Exit Sign

					Prepa	ration		Analysis
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/10/24	PT24A10A	01/10/24	T424A10B AVC



Order: A19154 Date: 01/16/24

01/05/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Food Service At Entry Door Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 16 Collect Date:

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Wipe
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19154-016 Matrix: Wipe Method: NIOSH 7303 (Modified) Description: Food Service At Entry Door

					Prepa	ration	F	Analysis
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/10/24	PT24A10A	01/10/24	T424A10B AVC



Order: A19154 Date: 01/16/24

A METIRI GROUP COMPANY

Client Identification: Environmental Resources Sample Description: Field Blank 1 Chain of Custody: N/A

Group-Lansing

Client Project Name: Okemos Public Montessori at Sample No: 17 Collect Date: 01/05/24

 Central (230029)

 Client Project No:
 230029
 Sample Matrix:
 Blank: Wipe
 Collect Time:
 NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS Aliquot ID: A19154-017 Matrix: Blank: Wipe

Method: NIOSH 7303 (Modified) Description: Field Blank 1

					Prepa	ration	Α	nalysis
Parameter(s)	Result Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch Init.
‡ 1.Lead	U	μg/ft2	4.0	20	01/10/24	PT24A10A	01/10/24	T424A10B AVC



### Analytical Laboratory Report Laboratory Project Number: A19154

Order: A19154 Date: 01/16/24

### **Definitions/ Qualifiers:**

- A: Spike recovery or precision unusable due to dilution.
- **B:** The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- **U:** The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- \*: Value reported is outside QC limits

### **Exception Summary:**

### **Analysis Locations:**

All analyses performed in Holt.



Accreditation Number(s):

T104704518-23-15 (TX)

3125 Sovereign Drive • Suite B • Lansing, MI 48911 Phone: 517-999-6020 • Fax 248-924-3108

15	Please see back for terms and conditions	Ple
Temperature upon receipt at Lab (if applicable):		
ERG project number:	3 bus. days4 bus. days	Same day1 bus, day2 bus, days
LAB USE ONLY	OF THE BUSINESS DAY	Turnground Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY
oratory:	Date/ Time Received By Laboratory:	Relinquished By:
	Date/ Time Received By:	Refinquished By:
	Date/ Time Received By:	Sampled/Relinquished By:
in acceptable condition	Samples received in a	1
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B Bulks X Other: Specify		Cantral
PLE O Oil W Wastewater	FORC	Project Location: Ollymos B Pilhlic Menterson Gh
A Air SW Surface Water	CODE	Project Name/Number: 230039
S Soil Gw Ground Water		Ď.
Matrix Code	PARAMETERS	Client Name: FR(



Environmental Resources Group

3125 Sovereign Drive • Suite B • Lansing, MI 48911

Please see back for terms and conditions	5-7 bus, days (standard) Other (specify time/date requirement):	Same day1 bus. day2 bus, days3 bus. days	Turnground Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY	Relinquished By:	S. (MAROLINI	Sampled/Relinquished By: 3/ A ( )   / A ( )   / A ( )	Comments:					12	115124 11 FIRM BROOK 1	Sample # Client Sample Descriptor \$	ATRIX OF C	DNITTO DE TITO DE LANGER DINTAIN OF AN ANTINOMINE CONTRAIN OF AN	HT COR	SODA!	ar 230024	PETEVSIN	Client Name: (F P.G		Phone: 517-999-6020 • Fax 248-924-3105
and conditions	(If applicable):	Tomperature upon receipt at Lab	ERG project number: .	LAB USE ONLY	Received By:  Received By Laboralory:	Received By:		Samples received in acceptable condition					() were	O wters	Remarks:	Н	OLD	B Bulks X Other: Specify	P. O Oil W Wastewater	Sw Surface Water	S Soil Gw Ground Water	PARAMETERS Mairix Code	

## Appendix K Bacteria Swab Data Sheet and Analytical Data





### **EMSL** Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-0262

http://www.EMSL.com cinnmicrolab@emsl.com CustomerID: CustomerPO:

EMSL Order:

FIBE50 230029

372400790

ProjectID:

Attn: Kristin Peterson **Environmental Resources Group** 3125 Sovereign Drive Lansing, MI 48911

Phone: (517) 699-0345 (517) 699-0382 Fax: Received: 1/18/2024 09:55 AM

Analysis Date: 1/18/2024 Collected: 1/16/2024

Project: 230029 / Okemos Public Montessori At Central, Okemos, MI

### **Test Report: Sewage Contamination in Buildings**

Method: Modified SM 9222B,9222D,9230C and EMSL M013 [2.29] for Swab Samples

Sample	Sampling Location Date/Time Collected	Total Coliform Present/Absent	Fecal Coliform Present/Absent	E. coli Present/Absent	Enterococcus Present/Absent
372400790-0001	On Terrazo Floor In Bathroom Of Room 106	Absent	Absent	Absent	Absent
01	1/16/2024				
372400790-0002	On Carpet Near Bathroom Room 106	Absent	Absent	Absent	Absent
02	1/16/2024				

Analyst(s)	
Michael Spears (2)	

Vincent Iuzzolino, M.S., Laboratory Director or other approved signatory

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ

Initial report from 01/22/2024 17:34:06



# Environmental Resources Group

3125 Sovereign Drive • Suite B • Lansing, MI 48911

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ISEE RIGHT CORN ONTAINERS  13 HOLD SA	Sample # Clent Sample Descriptor  Clent Sample Descriptor  At A source   Sample # Client Sample Descriptor  All # #   Continue To Color In Buthreum   Man   M	Sample # Client Sample Descriptor  Client Sample Descriptor  Client Sample Descriptor  A Bathrown Roomlilly × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 ×	Sample # Clent Sample Descriptor  Clent Sample Descriptor  A Buthreum K ownfull X 1 X Square  On Carpet to be between Rownfull X 1 X Square  Sample # Received By: Q 0 1 1 X Square  Sample # Received By: Q 0 1 1 X Square  Received By: Q 0 1 1 X Square  No. 1, 1 8 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Clent Sample   Clent Sample Descriptor   Sample   Sampl	Sample # Clein Sample Descriptor  -01 On Karpat   Machine   Clein   Sample Descriptor  -02 On Carpat   Machine   Clein   Sample Descriptor  -03 On Carpat   Machine   Clein   Sample Descriptor  -04 On Carpat   Machine   Clein   Sample Descriptor  -05 On Carpat   Machine   Clein   Sample Descriptor  -06 On Carpat   Machine   Clein   Sample Descriptor  -07 On Carpat   Machine   Clein   Sample Descriptor  -08 On Carpat   Machine   Clein   Sample Descriptor  -09 On Carpat   Machine   Clein	Sample # Clent Sample Descriptor    Sample # Clent Sample Descriptor   Sample   Sundab   1 <sup>th</sup> Square    -0.1   On Carpet   Sample   Sampl	Sample # Clent Sample Descriptor -0.1 On Large Colors In Bully Note0.1 On Carpet Ask backware Resembly X I X I X I X I X I X I X I X I X I X	Sample 8  Clent Sample Descriptor  On Carp C Liber 1 in Buth 1 in Square  On Carp C Liber 1 in Buth 1 in Square  On Carp C Liber 1 in Buth 1 in Square  On Carp C Liber 2 in Buth 1 in Square  On Carp C Liber 3 in Buth 1 in Square  On Carp C Liber 3 in Buth 1 in Square  On Carp C Liber 3 in Buth 1 in Square  On Carp C Liber 3 in Buth 1 in Square  On Carp C Liber 3 in Buth 1 in Square  On Carp C Liber 3 in Buth 1 in Square  On Carp C Liber 3 in Buth 1 in Square  On Carp C Liber 3 in Buth 1 in Square  On Carp C Liber 3 in Buth 1 in Square  On Carp C Liber 3 in Buth 1 in Square  On Carp C Liber 3 in Buth 1 in Square  Samples received by:  One of the sustaints with service of the Liber 3 in Square  I LAB USE ONLY  I temperature upon receipl at Lab  I temperature upon receipl at Lab  I temperature upon receipl at Lab  ON I temperature upon receipl at Lab	Cannot sample bosciptor   Source   California   Califor	
CONTAINERS  HOLD SA	Sample # Client Sample Descriptor & & & & Remarks:  -01 On temper to be between RoomIOL X 1 X Sund 1" square  -03 On carpet to be between RoomIOL X 1 X Sund 1" square  -04 Sund 1 A Su	Sample # Clent Sample Descriptor & & & & & & & & & & & & & & & & & & &	Sample # Client Sample Descriptor \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Sample # Clent Sample Descriptor \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Sample Blackfloor   2   0   0   0   0   0   0   0   0   0	Sample   Clent Sample Descriptor   2   0   Emerge Chart   1   Square	Sample   Clent Sample Descriptor   Sample De	Clent Sample Descriptor   2   0   Example	Clent Sample accipion   Section	Comple 8   Clean Sample Descriptor   2   0   E
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Client Sample Descriptor  MATRIX ISEE RIGHT CORN  TO FLOOT IN BUTTON  MATRIX SEE RIGHT CORN  TO FLOOT IN BUTTON  MATRIX SEE RIGHT CORN  TO FLOOT IN BUTTON  MATRIX SEE RIGHT CORN  MOLD S.  Remarks:  1" square  Swab 1" square  ""  ""  ""  ""  ""  ""  ""  ""  ""	Samples received in acceptable condition	Samples received in acceptable condition	Samples received in acceptable condition  Received By: 1000	Samples received in acceptable condition    Samples received By:	Samples received by:    Cole/ Time   Cole/ T	Samples received in acceptable condition  Somples received by:  Somples received by:  Call U.S. 24 94  Intercound Time All RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY  I bus, day  Other (specify lime/date requirement):  ON Intercound Time All RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY  I bus, days  A bus, days  I amperature upon receipt at Lab  (if applicable):	Ushed By:    Date/Time   Date/	Ushed By:  Ushed By:    Cole / Time	Ushed By:    Dole/ Time   Samples received by:   Calley Uff   14/24   9/4	Ushed By:    Date/Time   Samples received By:   Callow UPS   1/18/24 94
Client Sample Descriptor  MATRIX ISEE RIGHT CORN  A OF CONTAINERS  HOLD S  Remarks:  The Repay Lake  S was 1" square  ""  ""  ""  ""  ""  ""  ""  ""  ""	Samples received in acceptable condition	Samples received in acceptable condition	Samples received in acceptable condition  Received By:	Samples received in acceptable condition    Samples received By:	Usined By:    Date/Time   Received By:	Ushed By:    Date/Time   Received By:	Samples received by:  Samples received by:  Samples received by:  Samples received by:  Callum USS  I/18/24 9/4  Paceived by:  Date/ Time  Received by:  Received by:  Received by:  Received by:  Received by:  Received by:  I/18/24 9/4  If ERG project number:  I/AB USE ONLY  If amperature upon receipt at Lab  (If applicable):	Samples received by:    Date/Time	Ushed By:    Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received By:	Ushed By:    Date/Time   Colle/Time   Colle/
Clemi Somple Descriptor  MATRIX (SEE RIGHT CORN  NOF CONTAINERS  NO CLUT IN BLATTON MATRIX (SEE RIGHT CORN  NO CLUT IN BLATTON MATRIX (SEE RIGHT CORN  Remarks:  1" square  No Clump Matrix Matrix (See Right Corn)  No Clump Matrix (See Right Corn	Samples received in acceptable condition	Samples received in acceptable condition	Samples received in acceptable condition  Received By:	Samples received in acceptable condition    Samples received By:	Ushed By:    Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received By:   Callun UFS   VF24 94   Tunground Time Att REsults will be sent by THE BND OF THE BUSINESS DAY   Date/Time   Received By Laboratory:	Samples received in acceptable condition  Samples received by:  Date/Time    1/1/a   0/2   0/4   1/200   Received by:   Date/Time   Received by:   Date/Time	Usined By:    Date   Time   Date   Date   Time   Date   Date   Time   Date   Date   Time   Date   Da	Usithed By:    Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received By:   Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Ushed By:    Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received By:	Samples received by:  Claude UPS 1/18/24 94  1/16/A4 0 14:00 Received by:  Podre/ Time  Dolle/ Time  Received by:  LAB USE ONLY  Temperature upon receipt at Lab  ON Dolle/ Time  Received by:  LAB USE ONLY  Temperature upon receipt at Lab  ON Dolle/ Time  Received by:  LAB USE ONLY  Temperature upon receipt at Lab  ON Dolle/ Time  Received by:  LAB USE ONLY  LAB USE ONLY  Temperature upon receipt at Lab  ON Dolle/ Time  Received by:  Dolle/ Time  Received by:  Dolle/ Time  Received by:  LAB USE ONLY  Temperature upon receipt at Lab  Dolle/ Time
Clearly and the complete the second of the s	Samples received in acceptable condition	Samples received in acceptable condition	Samples received in acceptable condition  Received By:	Samples received in acceptable condition    Samples received By:	Ushed By:    Date / Time   Date / Time   Samples received in acceptable condition	Usithed By:    Collect Time	Usined By:    Date/Time   Received By:	Ushed By:  Ushed By:  Date/ Time  V/LU/A Y  Date/ Time  Received By:  Received By:  Received By:  Received By:  Received By:  Received By:  LAB USE ONLY  Temperature upon receipt at Lab	Samples received By:    Date/Time	Usined By:    Date/Time   Date
Client Sample Descriptor  MATRIX SEE RICHT CORN  MATRIX SEE RICHT CORN  To Flort in Buthreum Room 100 X 1 X  HOLD SA  The Room Room 100 X 1 X  The Room 100 X 1 X  The Room Room 100 X  The Room 10	Samples received in acceptable condition	Samples received in acceptable condition	Samples received in acceptable condition  Received By:	Samples received in acceptable condition    Samples received By:	Ushed By:  Ushed By:  Dale/ Time  Received By:  Received By:  Dale/ Time  Received By:  LAB USE ONLY  LAB USE ONLY  Temperature upon receip! at Lab  (If applicable):	Ushed By:  Ushed By:  Date/ Time  VI U/AY  VI U/AY  Date/ Time  Da	Samples received by:    Date/Time   14:00   Received by:   Calle   UPS   VR 24 94   Iungiound Time All Results will be Sent by THE END OF THE BUSINESS DAY   Date/Time   Date/Time   Date/Time   Received by Laboratory:   LAB USE ONLY   Date/Time   Date/Time   Received by Laboratory:   LAB USE ONLY   Date/Time   Date/Time   Received by Laboratory:   LAB USE ONLY   Date/Time   Date/Time   Received by Laboratory:   LAB USE ONLY   Date/Time   Date/Time   Date/Time   Received by Laboratory:   LAB USE ONLY   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received by Laboratory:   LAB USE ONLY   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received by Laboratory:   LAB USE ONLY   Date/Time   Dat	Ushed By:    Date / Time	Ushed By:    Date   Time	Samples received in acceptable condition  Samples received by:  Samples received by:  Samples received by:  Feceived by:  Pland I'me  Date/ Time  Received by:  Received by:  Received by:  Received by:  Received by:  Received by:  LAB USE ONLY  Temperature upon receipt at Lab  If applicable):  Please see back for terms and conditions
The sample Descriptor  MATRIX ISEERICHT CORN  TO CHART IN BATHROOM  WATER  HOLD ST  Remarks:  HOLD ST  Remarks:  1" Square  " " " " " " " " " " " " " " " " " "	Samples received in acceptable condition	Samples received in acceptable condition	Samples received in acceptable condition  Received By:	Samples received in acceptable condition    Samples received By:	Samples received in acceptable condition  Samples received By:  Samples received By:  Claude USS 24 94  Intraround Time All RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY  I bus. day  1 bus. day  Temperature upon receipt at Lab USE ONLY  Temperature upon receipt at Lab	Usined By:    Date/Time	Samples received in acceptable condition  Samples received By:    Content Time	Ushed By:    Date/Time   Date/Time   Received By:   Callout USS   USS   Q.Y	Samples received in acceptable condition  Samples received By:  Samples received in acceptable condition  Samples received By:  Plujay ()   1/200   Received By:  Date/Time	Samples received by:    Date/Time
Client Sample Descriptor  MATRIX ISEE RIGHT CORN  20 Febrat in Between Room 100 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1	Samples received in acceptable condition	Samples received in acceptable condition	Samples received in acceptable condition  Received By:	Samples received in acceptable condition    Samples received By:	Ushed By:  Ushed By:  Samples received By:  Received By:  Received By:  Received By:  LAB USE ONLY  Inarround Time All RESults Will BE SENT BY THE END OF THE BUSINESS DAY  Tomaround Time All Results Will BE SENT BY THE END OF THE BUSINESS DAY  LAB USE ONLY  Temperature upon receipl at Lab  In applicable):	Ushed By:    Cate   Time   Samples received By:   Samples received B	Samples received in acceptable condition  Samples received By:  Samples received By:  Samples received By:  Called Image Received By:  Pote/Time Received By:  Date/Time Recei	Ushed By:    Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received By:   Da	Usined By:    Date/Time   Unarround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY   Date/Time   Dat	Ushed By:  Ushed By:    Date/Time   Received By:    Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Re
Dient Somple Descriptor  No Clary to Bathroom Room 100 X 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1	Samples received in acceptable condition	Samples received in acceptable condition	Samples received in acceptable condition    Samples received in acceptable condition	Samples received in acceptable condition    Samples received By:	Ushed By:    Date/Time   Received By: Calle Wall USS   1/18/24 9.4    Turnaround Time All RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY   Date/Time   Date/Time   Date/Time   Received By: Calle Wall USS   DATE   Date/Time   Received By: Calle Wall USS   DATE   Date/Time   Received By: Calle Wall USS   DATE	Ushed By:    Date / Time   Received By:    Date / Time   Date / Time / T	Samples received By:    Dale/ Time	Samples received in acceptable condition  Samples received By:  Samples received By:  Claude Date/Time  Received By:  Received By:  Received By:  Received By:  Received By:  LAB USE ONLY  Image:	Samples received in acceptable condition  Samples received by:  Samples received by:  Called Ime  Interpretation  Interpretati	Samples received by:    Complete time
The pathodon Roomlow X 1 X HOLDS  Remarks:  HOLDS  Remarks:  1 1 square  1 1 s	Samples received in acceptable condition	Samples received in acceptable condition	Samples received in acceptable condition  Received By:	Samples received in acceptable condition    Samples received By:	Uished By:    Date/ Time	Samples received by:    Samples received by:	Ushed By:  Ushed By:  Date/ Time  Received By:  Received By:  Date/ Time  Received By:  Date/ Time  Da	Usined By:    Date/ Time   Received By:    Turnaround Time All RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY   A bus. days   ERG project number:   Turnaround Time All RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY   A bus. days   ERG project number:   LAB USE ONLY   Temperature upon receipt at Lab   Date/ Time   Date/ Time   Date/ Time   Date/ Time   Date/ Time   Received By:   Date/ Time   Date/ Time   Date/ Time   Date/ Time   Date/ Time   Received By:   Date/ Time   D	Uithed By:    Date/Time   Received By:	Samples received in acceptable condition  Samples received By:  Samples received in acceptable condition  Samples received in acceptable condition  Received By:  Place in acceptable condition  Received By:  Recei
Dient Somple Descriptor  NATRIX SEEE RIGHT CORN  NATRI	Samples received in acceptable condition	Samples received in acceptable condition	Samples received in acceptable condition  [2]   Received By:   100	Samples received in acceptable condition    Samples received By:	Ushed By:    Date/Time   Received By:   Date/Time   Date/Time   Date/Time   Received By:   Date/Tim	Ushed By:    Date/Time   Received By:    Turnaround Time All RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY   A bus. days   ERG project number:   LAB USE ONLY   Temperature upon receipt at Lab (if applicable):	Ushed By:  Ushed By:    Colet   Time	Samples received in acceptable condition  Samples received by:  Received by:  Received by:  Received by:  LAB USE ONLY  LAB USE ONLY  Temperature upon receipt at Lab  Samples received by:  LAB USE ONLY  Temperature upon receipt at Lab  (if applicable):	Ushed By:  Ushed By:  Dale/ Time  Dale/ Time  Date/ Time  Received By:  Received By:  Received By:  Received By:  Date/ Time  Received By:  Date/	Usined by:    Date/Time   Date/Time   Called By:   Called
Dient Somple Descriptor  NOTION TO REMOVE A MATRIX ISEERICHT CORN  NOTION TO SUNDA TO THE SQUARE  HOLD SUNDA TO THE SQUARE  THE SQUARE A THE SQUARE  HOLD SUNDA TO THE SQUARE  THE SQUARE A	Samples received in acceptable condition	Samples received in acceptable condition	Samples received in acceptable condition  Received By:	Samples received in acceptable condition  Samples received By:	Samples received in acceptable condition  Samples received By:  Date/ Time  Received By:  Received By:  Received By:  Received By:  LAB USE ONLY  Temperature upon receipt at Lab  (If applicable):  1	Ushed By:  Ushed By:  Date/ Time  Received By:  LAB USE ONLY  LAB USE ONLY  Image: Lab Use Only  L	Ushed By:    Date/Time   Received By:	Ushed By:    Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received By: Callual USS 1/18/24 9.4    Turnaround Time All RESult's Will BE SENT BY THE END OF THE BUSINESS DAY   Date/Time   Received By Laboratory: LAB USE ONLY   Laboratory: Laboratory: LAB USE ONLY   Laboratory: Laborat	Ushed By:    Date/Time   Received By:	Usined by:    Date/Time   Date
The Roban Remarks:    The Roban Remarks:	Samples received in acceptable condition	Samples received in acceptable condition	Samples received in acceptable condition  Received By:	Samples received in acceptable condition    Date/Time   Received By:	Uished By:    Date/Time	Samples received in acceptable condition  Samples received By:    1   1   2   4   3   4   4   4   4   4   4   4   4	Uished By:    Date/Time	Ushed By:    Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received By:   Date/Time	Usined By:    Date / Time   Received By:	Samples received in acceptable condition    Samples received in acceptable condition
Client Sample Descriptor  MATRIX (SEE RIGHT CORN  TO FLORT 1 TO BUTTON  MATRIX (SEE RIGHT CORN  MATRIX	Samples received in acceptable condition	Samples received in acceptable condition	Samples received in acceptable condition  [Received By: 100	Samples received in acceptable condition  [Date/Time]  [Received By: Classical Condition]	Samples received in acceptable condition  Somples received By:    Coley Time	Ushed By:    Date/Time   Received By:    Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY   1 bus. days   1 bus. days   1 bus. days   1 temperature upon receipt at Lab USE ONLY   1 temperature upon receipt at La	Uished By:    Date/Time   Date	Ushed 8y:    Date/Time	Uished By:    Date/Time   1/10/ay   0   4:00   Received By:   Received By:   Received By:   Date/Time   Date/Time   Date/Time   Date/Time   Received By:   Received By:   Received By:   Received By:   Date/Time   Date/Time   Received By:   Received By:   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Received By:   Date/Time   Date/Time   Date/Time   Received By:   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received By:   Date/Time    Ushed By:    Date/Time	
Dieni Sample Descriptor  No Flour In Buthroom Roomlow  No FCONTAINERS  HOLD S  Remarks:  1 ** Square  1 ** Sq	Samples received in acceptuate constitution	Samples received in acceptable contents.	Samples received By: \(\)	Date/Time Received By: Charles 1) PS 1/18/24	Ushed By:    Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Received By Laboratory:   Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY   A bus. days   ERG project number:   Date/Time   Date/Time   Received By Laboratory:   LAB USE ONLY   LAB USE ONLY   Temperature upon receipt at Lab   Temp	Uished By:    Date/Time   Received By:   Date/Time   Date/Time   Received By Laboratory:   Turnaround Time All RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY   Dus. days   ERG project number:   Abus. days   Temperature upon receipt at Lab (if applicable):	Uished By:    Date/ Time   Received By: Claude UPS   UB/24 94   QUIST BY THE END OF THE BUSINESS DAY   A bus, days   ERG project number:	Ushed By:    Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received By: Claboratory:   LAB USE ONLY   LAB USE ONLY   LAB USE ONLY   Date/Time   Date/Time   Received By Laboratory:   LAB USE ONLY   LA	Ushed By:    Date/Time   Date/	Uished By:    Date/Time   Received By: Claudium UPS   1/8/24 94    Turnground Time All RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY   Abus, days   Abus, days   LAB USE ONLY   LAB USE ONLY   Temperature upon receipt at Lab use on the policy strandard)   Other (specify time/date requirement):   Date/Time   Received By: Claudium UPS   1/8/24 94    Received By: Claudium UPS   LAB USE ONLY   Received By: Claudium UPS   LAB USE ONLY   LAB
Tient sample Descriptor  MATRIX BEERIGHT CORN  PO CHARLA IN BATTANA REPRESENTATION  MATRIX BEERIGHT CORN  MOLD SI  Remarks:  HOLD SI  SUMB  1 " SQUARE		Received By: 00 100 100 100 100 100 100 100 100 100	Date/Time Received By: Change Ups 1/18/24	Uished By:    Daie/ Time   Daie	Ushed By:    Date/ Time   Received By:    Turnaround Time All RESult's Will BE SENT BY THE END OF THE BUSINESS DAY   A bus. days   ERG project number:   LAB USE ONLY   Temperature upon receipt at Lab   ON-1	Ushed By:    Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Tim	Ushed By:    Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received By: Claud UPS   1/18/24 94   Turnaround Time All RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY   1 bus. days   1 bus. days   2 bus. days   2 bus. days   1	Ushed By:    Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Received By:   Date/Time   Received By:   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Received By:   Date/Time   Received By:   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Received By:   Date/Time   Received By:   Date/Time   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received By:   Date/Time   Date/	Ushed By:    Date/Time   Date/	
Dient Somple Descriptor  NO CHUTT IN BUTHERS  NO CHUTT IN BUTHERS  NO CONTAINERS			Received By: 00 100 1/12/00	Date/Time Received By: Change Ups 1/18/24	Ushed By:    Date/Time   1/16/a Y   1/200   Received By:   Clauding USS   1/8/24 94	Ushed By:    Date/Time   1/16/a4   0   4:00   Received By: CRallum UPS   1/8/24 94   1/16/a4   0   1	Uished By:    Date/ Time   Received By:    Turnaround Time All RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY   A bus. days   ERG project number:   Date/ Time   Date/ Time   Received By:   Date/ Time   Date/ Time   Received By:   Date/ Time   Received	Ushed By:    Date/ Time	Ushed By:    Date/Time   U/10/A   O   U/200   Received By: Claud USS   V/8/24 94   Date/Time   Date/Time   Received By Laboratory:   Received By Laboratory:   LAB USE ONLY   LAB USE ONLY	Ushed By:    Date/ Time   Received By: Cladewold By: Cladewold Sy: Cladewold Sy
Dient Sample Descriptor  No Clurt in Buttern X or Containers  No Clurt in Buttern X o			Received By: 100	Date/Time Received By: Callons USS VIR/24	Uished By:    Date/Time   U/14/AY   U/200   Received By:   CRAULANUS   U/8/24 94	Ushed By:    Date/Time	Ushed By:    Date/Time   1/16/a4   1/200   Received By:   Classification	Uished By:    Date/ Time   Received By:   Turnaround Time All RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY   A bus, days   LAB USE ONLY   Temperature upon receipt at Lab USE ONLY   Temp	Uished By:    Date/ Time   Date	Uished By:    Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Date/Time   Received By:   Date
Tient Sample Descriptor  No Clurt In Buthream Room III  No Containers  MATRIX (SEE RIGHT CORN  HOLD  Remarks:  1 " Square  Samples received in acceptable condition  Samples received in acceptable condition			Received By:	Date/Time Received By: Callons USS VIR/24	Ushed By:    Date/ Time	Ushed By:    Date/Time   U/14/AY   C   4/:00   Received By: Callum UPS   1/18/24 94   Date/Time   Date/Time   Received By: Callum UPS   1/18/24 94   Date/Time   Date/Time   Received By: Callum UPS   LAB USE ONLY   LA	Ushed By:    Date/Time	Ushed By:    Date/Time   Date/Time   Date/Time   Date/Time   Date/Time   Received By:   Calleun UPS   1/8/24 94	Ushed By:    Date/Time   U/(U/AY   C)   U/(O)   Received By:   CARLLWALUS   U/(B/24   Q'4)	Ushed By:
The same of the second of the			Received By:	Date/Time Received By: Cally USS VIR/24	Ushed By:    Date/ Time	Ushed By:    Date/Time   U1:00   Received By:   Callum U1   U1   U1   U1   U1   U1   U1   U1	Ushed By:    Date/Time   14:00   Received By: Clade   US   18/24 91   Date/Time   Date/Time   Received By: Clade   US   OS   OS   OS   OS   OS   OS   OS	Ushed By:    Date/Time   U/100   Received By: Clable US   U/8/24 9.1   Date/Time   Date/Time   Received By:   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Date/Time   Received By:   Date/Time   Date	Ushed By:    U/14/AY   14:00   Received By: Clauding US   18/24 9.1   Urnground Time All RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY   1 bus. days   2 bus. days   2 bus. days   2 bus. days   2 bus. days   4 bus. days   1 bus. days   1 bus. days   2 bus. days   2 bus. days   1 bus. days	Ushed By:    Date/Time   Dite/Time   Date/Time   Received By:    Turnaround Time All RESult'S WILL BE SENT BY THE END OF THE BUSINESS DAY   A bus, days   ERG project number:   Date/Time   Date/Time   Date/Time   Received By:   Date/Time   Date/Time   Received By:   Date/Time   Received By:   Date/Time   Received By:   Date/Time   Received By:   LAB USE ONLY   LAB USE ONLY   Date/Time   Received By:   Date/Time   Received By:   Date/Time   Received By:   LAB USE ONLY   Date/Time   D
The sample Descriptor  MATRIX ISEE RIGHT CORN  TO CHUT IN BUTVEUT X IX  TO CHUT IN BUTVEUT X IX  Somples received by: Challen USS  III Square  The squ	Date/Time O 14:00 Kecceived by Challenge US	1/11/24 @ 14:00 Kallua 143	1/1/24		Date/ Time    Date/ Time   Received By Laboratory:   LAB USE ONLY	Date/ Time    Date/ Time   Received By Laboratory:   LAB USE ONLY	Date/ Time    Date/ Time   Received By Laboratory:   LAB USE ONLY	Iurnaround Time All RESult's Will BE SENT BY THE END OF THE BUSINESS DAY  I bus. day  1 bus. day  2 bus. days  3 bus. days  4 bus. days  ERG project number:  1 temperature upon receipt at Lab	Date/ Time    Date/ Time   Received By Laboratory:   LAB USE ONLY	Date/ Time    Date/ Time   Date
Dole/Time	1/16/24 @ 14:00 RECEIVED BY Challena UPS 1/18/24	1/16/24 @ 14:00 Kallua (4)	VIC. 20	(	Date/ lime    Date/ lime   Received By Laboratory:   LAB USE ONLY	Date/ lime    Date/ lime   Received By Laboratory:   LAB USE ONLY	Date/ lime    Turnaround Time All RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY   4 bus. days   ERG project number:   CAB USE ONLY	Date/ lime    Date/ lime   Received By Laboratory:   LAB USE ONLY	Date/ lime   Received By Laboratory:   LAB USE ONLY	Iurnaround Time All RESults Will BE SENT BY THE END OF THE BUSINESS DAY    Date/ Time   Received By Laboratory:   LAB USE ONLY
Signiformpio Descriptor  MATRIX SISEE BICHT CORN  MOULD I'M Square  Supplies received By:  VILVAN USS  Remarks:  1	1/16/ay 0 14:00 Received By:	VILLAY Q 14:00 Kallua (4)	//b/ay ( 17.00 Received By:		Date/ Time  Turnground Time All RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY  1 bus. day  1 bus. day  2 bus. days  3 bus. days  4 bus. days  ERG project number:  (If applicable):	Iurnaround Time All RESult'S WILL BE SENT BY THE END OF THE BUSINESS DAY  1 bus. day2 bus. days3 bus. days4 bus. days ERG project number:  1 bus. day2 bus. days3 bus. days4 bus. days4 bus. days4 bus. days1 bus. days2 bus. days	Date/ Time    Date/ Time   Received By Laboratory:   LAB USE ONLY	Turnground Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY  1 bus. day 2 bus. days 3 bus. days 4 bus. days ERG project number: 1 temperature upon receipt at Lab Temperature upon receipt at Lab Temperature upon receipt at Lab (if applicable):	Iurnaround Time All RESultS WILL BE SENT BY THE END OF THE BUSINESS DAY  1 bus. day2 bus. days3 bus. days4 bus. days ERG project number:  1 ay1 bus. day2 bus. days3 bus. days4 bus. days ERG project number:  1 ay1 bus. day2 bus. days3 bus. days4 bus. days [ERG project number:	Iurnaraund Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY  1 bus. day  1 bus. day  2 bus. days  3 bus. days  4 bus. days  ERG project number:  O National Other (specify time/date requirement):  Please see back for terms and conditions
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### Appendix L

# New York City Department of Health Guidelines on the Assessment and Remedies of Fungi in Indoor Environments



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**Assessment and Remediation of Fungi in Indoor Environments** 

New York City Department of Health and Mental Hygiene

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### **Preface**

This 2008 document revises existing guidelines and supersedes all prior editions. It is based both on a review of the current literature regarding fungi (mold) and on comments from a review panel consisting of experts in the fields of mycology/microbiology, environmental health sciences, environmental/occupational medicine, industrial hygiene, and environmental remediation.

These guidelines are intended for use by building owners and managers, environmental contractors and environmental consultants. It is also available for general distribution to anyone concerned about indoor mold growth. The attached fact sheet, "Mold Growth: Prevention and Cleanup for Building Owners and Managers," is a simplified summary of these guidelines, which may be useful for building owners, managers and workers. It is strongly recommended that the complete guidelines be referred to before addressing the assessment or remediation of indoor mold growth.

In 1993, the New York City Department of Health and Mental Hygiene (DOHMH) first issued recommendations on addressing mold growth indoors. In 2000, DOHMH made major revisions to the initial guidance and made minor edits in 2002.

The terms *fungi* and *mold* are used interchangeably throughout this document.

This document should be used only as guidance. It is not a substitute for a site-specific assessment and remediation plan and is not intended for use in critical care facilities such as intensive care units, transplant units, or surgical suites. Currently there are no United States Federal, New York State, or New York City regulations for the assessment or remediation of mold growth.

These guidelines are available to the public, but may not be reprinted or used for any commercial purpose except with the express written permission of the DOHMH. These guidelines are subject to change as more information regarding this topic becomes available.

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These guidelines were prepared by the Environmental and Occupational Disease Epidemiology Unit of the New York City Department of Health and Mental Hygiene. This document, and any future revisions, is available online at <a href="nyc.gov/health">nyc.gov/health</a>. For further information please call 311 or (212) NEW-YORK (from outside the City).

### Introduction

Fungi (mold) are present almost everywhere. In an indoor environment hundreds of different kinds of mold are able to grow wherever there is moisture and an organic substrate (food source). They can grow on building and other materials, including: the paper on gypsum wallboard (drywall); ceiling tiles; wood products; paint; wallpaper; carpeting; some furnishings; books/papers; clothes; and other fabrics. Mold can also grow on moist, dirty surfaces such as concrete, fiberglass insulation, and ceramic tiles. It is neither possible nor warranted to eliminate the presence of all indoor fungal spores and fragments; however, mold growth indoors can and should be prevented and removed if present.

The purpose of these guidelines is to provide an approach to address potential and observed mold growth on structural materials in commercial, school, and residential buildings. Mold growth in critical care areas of health-care facilities such as intensive care units or surgery suites may pose significant health concerns to patients. This document is not intended for such situations. Please visit the US Centers for Disease Control and Prevention (CDC) at <a href="www.cdc.gov">www.cdc.gov</a> for more information on dealing with mold growth and its cleanup in health-care facilities. Mold on bathroom tile grout, in shower stalls, and on bathtubs is a common occurrence. Occupants can control this growth through frequent use of household cleaners.

Water accumulation in indoor environments can lead to mold growth (and other environmental problems), which has been associated with human health effects (see Appendix A). Indoor mold growth can be prevented or minimized, however, by actively maintaining, inspecting, and correcting buildings for moisture problems and immediately drying and managing water-damaged materials. In the event that mold growth does occur, this guide is intended to assist those responsible for maintaining facilities in evaluating and correcting this problem.

Removing mold growth and correcting the underlying cause of water accumulation can help to reduce mold exposures and related health symptoms. Prompt remediation of mold-damaged materials and infrastructure repair should be the primary response to mold growth in buildings. The simplest, most expedient remediation that properly and safely removes mold growth from buildings should be used. Extensive mold growth poses more difficult problems that should be addressed on a case-by-case basis in consultation with an appropriate building or environmental health professional. In all situations, the source of water must be identified and corrected or the mold growth will recur.

Effective communication with building occupants is an important component of all remedial efforts. Individuals who believe they have mold-related health problems should see their physicians. Individuals who may have an occupationally related illness should be referred to an occupational/environmental physician for evaluation, following any needed initial care. Clinic contact information is available from the New York State Department of Health at www.health.state.ny.us/environmental/workplace/clinic network.

### **Environmental Assessment**

The presence of mold growth, water damage, or musty odors should be addressed quickly. In all instances, any sources of water must be identified and corrected and the extent of water damage and any mold growth determined. Water-damaged materials should be removed or cleaned and dried. For additional information on cleaning water-damaged materials and personal belongings, refer to the EPA document "Mold Remediation in Schools and Commercial Buildings."

A trained building or environmental health professional may be helpful in assessing the extent of the moisture problem and mold growth and developing a site-specific work plan. The presence of a trained professional to provide oversight during remediation can also be helpful to ensure quality work and compliance with the work plan. According to the American Industrial Hygiene Association a trained professional should have, at a minimum, a relevant science or engineering degree and two years of full-time supervised experience in mold assessment. <sup>10</sup>

### **Visual Inspection**

A visual inspection is the most important initial step in identifying a possible mold problem and in determining remedial strategies. The extent of any water damage and mold growth should be visually assessed and the affected building materials identified. A visual inspection should also include observations of hidden areas where damages may be present, such as crawl spaces, attics, and behind wallboard. Carpet backing and padding, wallpaper, moldings (*e.g.* baseboards), insulation and other materials that are suspected of hiding mold growth should also be assessed.

Ceiling tiles, paper-covered gypsum wallboard (drywall), structural wood, and other cellulose-containing surfaces should be given careful attention during a visual inspection. Ventilation systems should be visually checked for damp conditions and/or mold growth on system components such as filters, insulation, and coils/fins, as well as for overall cleanliness.

Equipment such as a moisture meter or infrared camera (to detect moisture in building materials) or a borescope (to view spaces in ductwork or behind walls) may be helpful in identifying hidden sources of mold growth, the extent of water damage, and in determining if the water source is active.

Using personal protective equipment such as gloves and respiratory protection (*e.g.* N-95 disposable respirator) should be considered if assessment work might disturb mold. Efforts should also be made to minimize the generation and migration of any dust and mold.

### **Environmental Sampling**

Environmental sampling is **not** usually necessary to proceed with remediation of visually identified mold growth or water-damaged materials. Decisions about appropriate remediation strategies can generally be made on the basis of a thorough visual inspection. Environmental sampling may be helpful in some cases, such as, to confirm the presence of visually identified

mold or if the source of perceived indoor mold growth cannot be visually identified.

If environmental samples will be collected, a sampling plan should be developed that includes a clear purpose, sampling strategy, and addresses the interpretation of results. <sup>11,12</sup> Many types of sampling can be performed (*e.g.* air, surface, dust, and bulk materials) on a variety of fungal components and metabolites, using diverse sampling methodologies. Sampling methods for fungi are not well standardized, however, and may yield highly variable results that can be difficult to interpret. <sup>11-17</sup> Currently, there are no standards, or clear and widely accepted guidelines with which to compare results for health or environmental assessments.

Environmental sampling should be conducted by an individual who is trained in the appropriate sampling methods and is aware of the limitations of the methods used. Using a laboratory that specializes in environmental mycology is also recommended. The laboratory should be accredited in microbiology by an independent and reputable certifying organization.

For additional information on sampling, refer to the American Conference of Governmental Industrial Hygienists' publication, "Bioaerosols: Assessment and Control" and the American Industrial Hygiene Association's "Field Guide for the Determination of Biological Contaminants in Environmental Samples." <sup>11,18</sup>

### Remediation

The goal of remediation is to remove or clean mold-damaged materials using work practices that protect occupants by controlling the dispersion of mold from the work area and protect remediation workers from exposures to mold. The listed remediation methods were designed to achieve this goal; however, they are not meant to exclude other similarly effective methods and are not a substitute for a site-specific work plan. Since little scientific information exists that evaluates the effectiveness and best practices for mold remediation, these guidelines are based on principles used to remediate common indoor environmental hazards. These guidelines are not intended for use in critical care facilities such as intensive care units, transplant units, or surgical suites.

Prior to any remediation, consideration must be given to the potential presence of other environmental hazards, such as asbestos and lead. These guidelines are based on possible health risks from mold exposure and may be superseded by standard procedures for the remediation of other indoor environmental hazards.

### **Moisture Control and Building Repair**

In all situations, the underlying moisture problem must be corrected to prevent recurring mold growth. Indoor moisture can result from numerous causes, such as: façade and roof leaks; plumbing leaks; floods; condensation; and high relative humidity. An appropriate building expert may be needed to identify and repair building problems. An immediate response and

thorough cleaning, drying, and/or removal of water-damaged materials will prevent or limit microbial growth.

Relative humidity should generally be maintained at levels below 65% to inhibit mold growth. Short-term periods of higher humidity would not be expected to result in mold growth. However, condensation on cold surfaces could result in water accumulation at much lower relative humidity levels. Relative humidity should be kept low enough to prevent condensation on windows and other surfaces.

Emphasis should be placed on ensuring proper repairs of the building infrastructure so that water intrusion and moisture accumulation is stopped and does not recur.

### **Worker Training**

Proper training of workers is critical in successfully and safely remediating mold growth. <sup>21,22</sup> Training topics that should be addressed include:

- Causes of moisture intrusion and mold growth
- Health concerns related to mold exposure
- The use of appropriate personal protective equipment
- Mold remediation work practices, procedures, and methods

For additional information, the National Institute of Environmental Health Sciences' publication, "Guidelines for the Protection and Training of Workers Engaged in Maintenance and Remediation Work Associated with Mold" lists minimum training criteria for building maintenance and mold remediation workers that should be completed before addressing indoor mold growth.<sup>23</sup>

Trained building maintenance staff can address limited and occasional mold growth. For larger jobs, more extensively trained mold remediation workers may be needed.

### **Cleaning Methods**

Non-porous materials (*e.g.* metals, glass, and hard plastics) can almost always be cleaned. Semi-porous and porous structural materials, such as wood and concrete can be cleaned if they are structurally sound. Porous materials, such as ceiling tiles and insulation, and wallboards (with more than a small area of mold growth) should be removed and discarded. Wallboard should be cleaned or removed at least six inches beyond visually assessed mold growth (including hidden areas, see *Visual Inspection*) or wet or water-damaged areas.<sup>24</sup> A professional restoration consultant should be contacted to restore valuable items that have been damaged.

Cleaning should be done using a soap or detergent solution. Use the gentlest cleaning method that effectively removes the mold to limit dust generation. All materials to be reused should be dry and visibly free from mold. Consideration should also be given to cleaning surfaces and

materials adjacent to areas of mold growth for settled spores and fungal fragments. A vacuum equipped with a High-Efficiency Particulate Air (HEPA) filter could also be used to clean these adjacent areas.

Disinfectants are seldom needed to perform an effective remediation because removal of fungal growth remains the most effective way to prevent exposure. Disinfectant use is recommended when addressing certain specific concerns such as mold growth resulting from sewage waters. If disinfectants are considered necessary, additional measures to protect workers and occupants may also be required. Disinfectants must be registered for use by the United States Environmental Protection Agency (EPA). Any antimicrobial products used in a HVAC system must be EPA-registered specifically for that use.

The use of gaseous, vapor-phase, or aerosolized (*e.g.* fogging) biocides for remedial purposes is **not** recommended. Using biocides in this manner can pose health concerns for people in occupied spaces of the building and for people returning to the treated space. Furthermore, the effectiveness of these treatments is unproven and does not address the possible health concerns from the presence of the remaining non-viable mold.

### **Quality Assurance Indicators**

Measures to ensure the quality and effectiveness of remediation should be undertaken regardless of the project size. Evaluations *during* as well as *after* remediation should be conducted to confirm the effectiveness of remedial work, particularly for large-scale remediation. At minimum, these quality assurance indicators should be followed and documented:

- The underlying moisture problem was identified and eliminated
- Isolation of the work area was appropriate and effective
- Mold removal and worksite cleanup was performed according to the site-specific plan
- Any additional moisture or mold damage discovered during remediation was properly addressed
- Upon completion of remediation, surfaces are free from visible dust and debris.
- If environmental sampling was performed, the results of such sampling were evaluated by a trained building or environmental health professional.<sup>10</sup>

### **Restoring Treated Spaces**

After completing mold remediation and correcting moisture problems, building materials that were removed should be replaced and brought to an intact and finished condition. The use of new building materials that do not promote mold growth should be considered. Anti-microbial paints are usually unnecessary after proper mold remediation. They should not be used in lieu of mold removal and proper moisture control, but may be useful in areas that are reasonably expected to be subject to moisture.

### **Remediation Procedures**

Three different sizes of remediation and the remediation of heating, ventilation, and air-conditioning (HVAC) systems are described below. Currently, existing research does not relate the amount of mold growth to the frequency or severity of health effects. However, as the presence of moldy materials increases, so does the potential for exposure<sup>8</sup> and the need to limit the spread of mold-containing dusts and worker exposures. As such, the size of the area impacted by mold growth as well as practical considerations were used to help define remedial procedures.

Since the following areas were arbitrarily selected, site-specific conditions must be considered in choosing adequate remediation procedures. For more information on the unique characteristics of building types and occupancies that may influence remediation procedures refer to the American Industrial Hygiene Association's publication, "Recognition, Evaluation, and Control of Indoor Mold."<sup>25</sup>

### **Small Isolated Areas** (10 square feet or less) – e.g. ceiling tiles, small areas on walls

- (a) Remediation can be conducted by trained building maintenance staff. Such persons should receive training on proper cleaning methods, personal protection, and potential health hazards associated with mold exposure. This training can be performed as part of a program to comply with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).
- (b) Respiratory protection (e.g., N-95 disposable respirator), in accordance with the OSHA respiratory protection standard (29 CFR 1910.134), is recommended. Gloves and eye protection should also be worn.
  - (c) The work area should be unoccupied.
- (d) If work may impact difficult-to-clean surfaces or items (e.g. carpeting, electronic equipment), the floor of the work area, egress pathways, and other identified materials/belongings should be removed or covered with plastic sheeting and sealed with tape before remediation.
- (e) Efforts should be made to reduce dust generation. Dust suppression methods particularly during any cutting or resurfacing of materials are highly recommended. Methods to consider include: cleaning or gently misting surfaces with a dilute soap or detergent solution prior to removal; the use of High-Efficiency Particulate Air (HEPA) vacuum-shrouded tools; or using a vacuum equipped with a HEPA filter at the point of dust generation. Work practices that create excessive dust should be avoided.
- (f) Moldy materials that can be cleaned should be cleaned using a soap or detergent solution. Materials that cannot be cleaned should be removed from the building in a sealed

plastic bag(s). Plastic sheeting should be discarded after use. There are no special requirements for the disposal of moldy materials.

- (g) The work area and areas used by workers for egress should be HEPA-vacuumed (a vacuum equipped with a High-Efficiency Particulate Air filter) or cleaned with a damp cloth and/or mop and a soap or detergent solution.
- (h) All areas should be left dry and visibly free from mold, dust, and debris. Check that other quality assurance indicators (see *Quality Insurance Indicators*) have also been met.

### **Medium-Sized Isolated Areas** (10 – 100 square feet)

- (a) Remediation can be conducted by trained building maintenance staff. Such persons should receive training on proper cleaning methods, personal protection, and potential health hazards associated with mold exposure. This training can be performed as part of a program to comply with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).
- (b) Respiratory protection (e.g., N-95 disposable respirator), in accordance with the OSHA respiratory protection standard (29 CFR 1910.134), is recommended. Gloves and eye protection should also be worn.
  - (c) The work area should be unoccupied.
- (d) Cover the floor, egress pathways, and items left in the work area with plastic sheeting and seal with tape before remediation.
- (e) Seal ventilation ducts/grills and other openings in the work area with plastic sheeting. The HVAC system servicing this area may need to be shut down to properly seal vents.
- (f) Efforts should be made to reduce dust generation. Dust suppression methods particularly during any cutting or resurfacing of materials are highly recommended. Methods to consider include: cleaning or gently misting surfaces with a dilute soap or detergent solution prior to removal; the use of High-Efficiency Particulate Air (HEPA) vacuum-shrouded tools; or using a vacuum equipped with a HEPA filter at the point of dust generation. Work practices that create excessive dust should be avoided.
- (g) Moldy materials that can be cleaned should be cleaned using a soap or detergent solution. Materials that cannot be cleaned should be removed from the building in sealed plastic bags. Plastic sheeting should be discarded after use. There are no special requirements for disposal of moldy materials.
- (h) The work area and areas used by workers for egress should be HEPA-vacuumed and cleaned with a damp cloth and/or mop and a soap or detergent solution.

(i) All areas should be left dry and visibly free from mold, dust, and debris. Check that other quality assurance indicators (see *Quality Insurance Indicators*) have also been met.

**Large Areas** (greater than 100 square feet in a contiguous area) -e.g. on separate walls in a single room

Properly trained and equipped mold remediation workers should conduct the remediation. The presence of a trained building or environmental health professional (see *Environmental Assessment*) to provide oversight during remediation may be helpful to ensure quality work and compliance with the work plan. The following procedures are recommended:

- (a) Personnel trained in the handling of mold-damaged materials equipped with:
  - i. A minimum of half-face elastomeric respirators with P-100 filters used in accordance with the OSHA respiratory protection standard (29 CFR 1910.134)
  - ii. Full body coveralls with head and foot coverings
  - iii. Gloves and eye protection
- (b) Containment of the affected area:
  - i. The HVAC system servicing this area should be shut down during remediation.
  - ii. Isolation of the work area using plastic sheeting sealed with duct tape. Furnishings should be removed from the area. Ventilation ducts/grills, any other openings, and remaining fixtures/furnishings should be covered with plastic sheeting sealed with duct tape.
  - iii. Consider using an exhaust fan equipped with a HEPA filter to generate negative pressurization.
  - iv. Consider using airlocks and a clean changing room.
  - v. Egress pathways should also be covered if a clean changing room is not used.
- (c) The work area should be unoccupied.
- (d) Efforts should be made to reduce dust generation. Dust suppression methods particularly during any cutting or resurfacing of materials are highly recommended. Methods to consider include: cleaning or gently misting surfaces with a dilute soap or detergent solution prior to removal; the use of High-Efficiency Particulate Air (HEPA) vacuum-shrouded tools; or using a vacuum equipped with a HEPA filter at the point of dust generation. Work practices that create excessive dust should be avoided.
- (e) Moldy materials, that can be cleaned, should be cleaned using a soap or detergent solution. Materials that cannot be cleaned should be removed from the building in sealed plastic bags. The outside of the bags should be cleaned with a damp cloth and a soap or detergent

solution or HEPA-vacuumed in the work area (or clean changing room) prior to their transport to unaffected areas of the building. There are no special requirements for the disposal of moldy materials.

- (f) Before leaving isolated areas, workers should remove disposable clothing to prevent the tracking of mold-containing dusts outside of the work area.
- (g) The work area and egress pathways (and clean changing room if present) should be HEPA-vacuumed and cleaned with a damp cloth and/or mop with a soap or detergent solution and be visibly clean prior to the removal of isolation barriers. Plastic sheeting should be discarded after use.
- (h) All areas should be left dry and visibly free from mold, dust, and debris. Check that other quality assurance indicators (see *Quality Insurance Indicators*) have also been met.

### **Remediation of HVAC Systems**

Mold growth in heating, ventilation, and air-conditioning (HVAC) systems can pose building-wide problems. Obtaining professional help should always be considered in addressing even small amounts of mold growth or moisture problems within an HVAC system. Recurring problems, regardless of size, may indicate a systemic problem and appropriate professional help should be sought.

### Small Isolated Area of Mold Growth in the HVAC System (<10 square feet) – e.g. box filter, small area on insulation

- (a) Remediation can be conducted by trained building maintenance staff that are familiar with the design and function of the impacted HVAC system. Such persons should receive training on proper cleaning methods, personal protection, and potential health hazards. This training can be performed as part of a program to comply with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).
- (b) Respiratory protection (*e.g.* N-95 disposable respirator), in accordance with the OSHA respiratory protection standard (29 CFR 1910.134), is recommended. Gloves and eye protection should be worn.
  - (c) The HVAC system should be shut down prior to any remedial activities.
- (d) Efforts should be made to reduce dust generation. Dust suppression methods particularly during any cutting or resurfacing of materials are highly recommended. Methods to consider include: cleaning or gently misting surfaces with a dilute soap or detergent solution prior to removal; the use of High-Efficiency Particulate Air (HEPA) vacuum-shrouded tools; or using a vacuum equipped with a HEPA filter at the point of dust generation. Work practices that

create excessive dust should be avoided.

- (e) The use of plastic sheeting to isolate other sections of the system should be considered.
- (f) Moldy materials that can be cleaned should be cleaned using a soap or detergent solution. Growth-supporting materials that are moldy, such as the insulation of interior-lined ducts, flexible ducts, and filters, should be removed and sealed in plastic bags. There are no special requirements for the disposal of moldy materials.
- (g) The work area and areas used for egress should be HEPA-vacuumed and cleaned with a damp cloth and/or mop and a soap or detergent solution. Any plastic sheeting should be discarded after use.
- (h) All areas should be left dry and visibly free from mold, dust and debris. Check that other quality assurance indicators (see *Quality Insurance Indicators*) have also been met.

### **Large Area of Mold Growth in the HVAC System** (>10 square feet)

Properly trained and equipped mold remediation workers with specific training and experience in HVAC systems, should conduct the remediation. The presence of a trained building or environmental health professional (see *Environmental Assessment*) with experience and specific knowledge of HVAC systems, to provide oversight during remediation can be helpful to ensure quality work and compliance with the work plan. The following procedures are recommended:

- (a) Personnel trained in the handling of mold-damaged materials equipped with:
  - i. A minimum of half-face elastomeric respirators with P-100 filters used in accordance with the OSHA respiratory protection standard (29 CFR 1910.134)
  - ii. Full body coveralls with head and foot coverings
  - iii. Gloves and eye protection
- (b) The HVAC system should be shut down prior to any remedial activities.
- (c) Containment of the affected area:
  - i. Isolation of work area from the other areas of the HVAC system using plastic sheeting sealed with duct tape
  - ii. The use of an exhaust fan equipped with a HEPA filter to generate negative pressurization should be considered
  - iii. Consider using airlocks and a clean changing room
  - iv. Egress pathways should also be covered if a clean changing room is not used
- (d) Efforts should be made to reduce dust generation. Dust suppression methods

particularly during any cutting or resurfacing of materials are highly recommended. Methods to consider include: cleaning or gently misting surfaces with a dilute soap or detergent solution prior to removal; the use of High-Efficiency Particulate Air (HEPA) vacuum-shrouded tools; or using a vacuum equipped with a HEPA filter at the point of dust generation. Work practices that create excessive dust should be avoided.

- (e) Moldy materials that can be cleaned should be cleaned using a soap or detergent solution. Growth-supporting materials that are moldy, such as the insulation of interior-lined ducts, flexible ducts, and filters, should be removed in sealed plastic bags. The outside of the bags should be cleaned with a damp cloth and a soap or detergent solution or HEPA-vacuumed prior to their removal from the isolated work area. There are no special requirements for the disposal of moldy materials.
- (f) Before leaving isolated areas, workers should remove disposable clothing to prevent the tracking of mold-containing dust outside of the work area.
- (g) The work area and egress pathways (and clean changing room if present) should be HEPA-vacuumed and cleaned with a damp cloth and/or mop and a soap or detergent solution prior to the removal of isolation barriers. Plastic sheeting should be discarded after use.
- (h) All areas should be left dry and visibly free from mold, dust, and debris. Check that other quality assurance indicators (see *Quality Insurance Indicators*) have also been met.

### **Communication with Building Occupants**

Communication with occupants of affected spaces is important regardless of the size of the project but is especially important when mold growth requiring large-scale remediation is found. When large-scale remediation is performed, the building owner, management, and/or employer should notify occupants in the building. Notification should include a description of the remedial measures to be taken and a timetable for completion. Group meetings, held before and after remediation, with full disclosure of plans and results, can be an effective communication mechanism. Building occupants should be provided with a copy of all inspection reports upon request. For more detailed information on risk communication refer to the American Industrial Hygiene Association's publication, "Recognition, Evaluation, and Control of Indoor Mold."<sup>26</sup>

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### Appendix A

### **Health Effects**

Several comprehensive reviews of the scientific literature on the health effects of mold in indoor spaces have been published in recent years. <sup>1-3</sup> This appendix reflects these reviews but has also considered more recently published articles.

### **Potential for Exposure and Health Effects**

Fungi are common in both indoor and outdoor environments and play a vital role in the earth's ecology by decomposing organic matter such as dead trees and leaves. As a result, all people have routine exposure to fungi, which may occur through inhalation, ingestion, and touching moldy surfaces. The main route of exposure to mold for people living or working in moldy indoor environments is inhalation of airborne fungal spores, fragments, or metabolites. Ingestion and dermal exposures are less understood in these scenarios and can easily be minimized or prevented by workers through proper hygiene and work practices. Therefore, the remaining discussion will focus on the adverse health effects of mold due to inhalational exposure.

Adverse health effects may include: allergic reactions; toxic effects and irritation; and infections. The mere presence of mold growth does not necessarily indicate that people present in the area will exhibit adverse health effects. However, as the amount of mold-impacted materials increases, so do potential exposures. Certain exposures may represent a significant risk such as occupational exposures to high concentrations of fungi and chronic (long-term) exposures, especially of individuals with underlying health conditions such as asthma, compromised immune systems, or allergies.

Evidence linking mold exposures to severe human health effects is documented in reports of occupational disease, particularly in forestry and agricultural settings where inhalation exposures were typically high and/or chronic. 2,6-11 The intensity of mold exposure and associated health effects experienced in undisturbed indoor environments is usually much less severe than that experienced by agricultural or forestry workers. 2,7,12-14 With the possible exception of exposures from mold remediation work, such high-level exposures are not expected indoors. Although high-level exposures are unlikely to occur in undisturbed indoor settings, chronic exposures to lower levels may still raise health concerns.

Several factors influence the likelihood that individuals might experience health effects following exposure to mold in indoor environments. These include: the nature of the fungal material (e.g., allergenic, toxic/irritant, or infectious); the degree of exposure (amount and duration); and the susceptibility of exposed people. Susceptibility varies with genetic predisposition, age, state of health, concurrent exposures, and previous sensitization. It is not possible to determine "safe" or "unsafe" levels of exposure for the general public because of variation of individual susceptibility, lack of standardized and validated environmental exposure sampling methods, and lack of reliable biological markers. <sup>17</sup>

In addition to the adverse health effects associated with exposure to mold, in 2004, the Institute of Medicine (IOM) reported health risks associated with living in damp indoor environments. The IOM reported evidence suggesting an association between damp indoor environments and the development of asthma. Reported respiratory symptoms included, wheezing, coughing, and exacerbation of asthma.<sup>2</sup>

### **Allergic and Hypersensitivity Effects**

It is well established that fungi can cause allergic reactions in humans. The most common symptoms associated with allergic reactions include runny nose, sneezing, post-nasal drip with sore throat, eye irritation, cough, wheeze, and other symptoms associated with the aggravation of asthma. Immunological responses to mold include allergic rhinitis, hypersensitivity pneumonitis, and asthma exacerbations. These conditions require prior exposure for sensitization. These symptoms may persist for some time after removal from the source.

Allergic rhinitis is a group of symptoms that mostly affects the mucous membranes of nasal passages and may result from an allergic reaction to fungi. Symptoms often associated with "hay fever" such as congestion, runny nose, and sneezing may occur. <sup>5,24</sup>

Hypersensitivity pneumonitis (HP) is a rare lung disease with delayed onset (3-8 hours) of fever, shortness of breath, cough, chest tightness, chills, and general malaise. With continued exposure, HP can lead to permanent lung disease. The occurrence of HP, even among those that are highly exposed to fungi, is rare. HP has typically been associated with repeated heavy exposures in forestry and agricultural settings, which raises concerns for workers routinely performing mold remediation, but has also been reported in indoor settings with lower level chronic exposures. <sup>3,11,18,25-27</sup>

Allergic bronchopulmonary aspergillosis (ABPA) and allergic fungal sinusitis (AFS) are examples of rarely occurring allergic reactions to non-invasive fungal growth in the respiratory system. Most symptoms are non-specific resembling asthma or chronic sinusitis. In addition, ABPA and AFS usually occur in those with underlying medical problems. In the case of ABPA, this includes cystic fibrosis, asthma, and other predisposing medical conditions. <sup>28,29</sup>

Recent studies, which have suggested an association between the presence of indoor mold and the development of asthma or allergies, are limited and difficult to interpret. Stark *et al.* found higher concentrations of dust-borne mold in infants' homes were associated with development of allergic rhinitis, which is a known risk factor for childhood asthma. However, other studies have shown higher concentrations of dust-borne fungi and other microorganisms in infants' homes were associated with a *decreased* risk for asthma and wheezing. Jaakkola et al. reported an association between a moldy odor in the home and development of asthma, but no association with visible mold or water damage was found. Although the sample size for this subset was small, it suggests that active mold growth might be a stronger risk factor for certain health effects than presence of nonviable or inactive mold alone. This also is supported by recent studies that have shown allergen production is significantly increased during active growth.

Though available, allergy testing for molds is limited, subject to high rates of error, and can be difficult to interpret. Preparations for skin testing or the specific antigen in blood tests may be different from the mold to which an individual is sensitive. A positive test indicates an allergic response but does not definitively link a specific mold exposure to an individual's current health condition.<sup>5</sup>

### **Irritant and Toxic Effects**

### Irritant Effects

Indoor growth of mold can lead to the production of volatile organic compounds (VOCs), also referred to as microbial VOCs (MVOCs), and the presence of fungal glucans. <sup>13,35-38</sup> Glucans are components of many fungal cell walls. Some studies have reported an association with the inhalation of glucans and airway irritation and inflammation, but results have been mixed and may not be applicable to expected indoor concentrations. Observed effects may also be the result of exposure to or contact with other fungal components, metabolites, or synergistic effects with other microbial agents. <sup>17,36,39</sup> Resolution of irritant symptoms upon removal from the source can help distinguish irritant effects from allergic symptoms. <sup>5</sup>

MVOCs are responsible for the musty odor often associated with mold growth, which may be noticeable at very low concentrations. Many of the MVOCs are common to other sources in the home. 40 The very low levels usually found indoors have not been shown to cause health effects. 35,37

### Toxic Effects

Some symptoms and maladies have been attributed to the toxic effects of fungi in indoor environments. Certain fungi can produce toxins (mycotoxins) at varying levels that are dependent on many complex environmental and biological factors. The reported symptoms from exposure to mycotoxins indoors include headaches, irritation, and nausea/loss of appetite, but are often non-specific (*e.g.* fatigue, inability to concentrate/remember), and may be caused by other environmental and non-environmental agents. Although health effects from exposures to mycotoxins have been associated with certain occupational exposures or ingestion of mold-contaminated food, scientific support for the reported effects in indoor environments has not been established. This may be due to the lower levels of exposure and different routes of exposure. 2,5,13,21,27,46-49

Stachybotrys is colloquially referred to as "black mold" or "toxic mold." It has been suggested that toxins produced by this mold are associated with specific health effects. Acute Idiopathic Pulmonary Hemorrhage (AIPH) in infants has been described in several reports suggesting a relationship with Stachybotrys. AIPH is an uncommon condition that results in bleeding in the lungs. The IOM reviewed the existing studies and concluded that there was insufficient evidence to determine if mold exposure was associated with AIPH.<sup>2,3</sup> The evidence is also insufficient for an association between inhalation of Stachybotrys toxins indoors and neurological damage.<sup>2,26,49</sup>

Although severe health effects from the inhalation exposures to *Stachybotrys* toxins indoors is plausible, it is not well-supported, and the issue remains controversial. <sup>2,3,5,27,49,50</sup>

Organic dust toxic syndrome (ODTS) describes the abrupt onset of fever, flu-like symptoms, and respiratory symptoms in the hours following a single, heavy exposure to dust-containing fungi and other microorganisms. Unlike HP, ODTS does not require repeated exposures to bioaerosols and can occur after the first exposure. ODTS has been documented in farm workers handling contaminated material, but may also affect workers performing remediation of building materials with widespread mold growth. ODTS is a self-limited illness, which usually improves within 24 hours after the discontinuation of exposure. It may be underreported among workers exposed to fungi, but would not be expected in occupants of buildings with mold growth. 11,27

### **Infectious Disease**

Only a small number of fungi have been associated with infectious disease. Few of these fungi are typically found in the indoor environment. Several species of *Aspergillus* are known to cause aspergillosis, most commonly *A. fumigatus*, *A. flavus*, and rarely, other species. Aspergillosis is a disease that generally affects severely immunosuppressed persons. Exposure to these molds, even in high concentrations, is unlikely to cause infection in healthy individuals. Heavy exposure to fungi associated with bird and bat droppings (*e.g. Histoplasma capsulatum* and *Cryptococcus neoformans*) can lead to health effects, usually transient flu-like illnesses, in healthy individuals. More severe health effects are primarily encountered in immunocompromised persons. 18,54

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### **FACT SHEET**

### MOLD GROWTH - PREVENTION AND CLEANUP FOR BUILDING OWNERS AND MANAGERS

Mold can grow indoors on many wet or damp building materials. Mold may cause health problems in some people.

Mold needs water or moisture to grow. Stop indoor mold growth by fixing leaks, drying wet materials, and cleaning up the mold.

### THINGS BUILDINGS OWNERS AND MANAGERS CAN DO TO PREVENT MOLD GROWTH

### **Fix Water Problems**

- · Correct water leaks immediately
- · Dry any water-damaged items immediately

### **Control Moisture Sources**

- Make sure that bathroom exhaust fans are working, if present
- · Make sure that a bathroom window can be opened, if no exhaust vent is present
- Use a dehumidifier to keep humidity levels low in basements

### HOW TRAINED BUILDING MAINTENANCE STAFF CAN CLEAN MOLD GROWTH

First, look to see how much damage there is, including any hidden mold growth. If the mold covers a large area (more than 100 square feet), is in the HVAC system, or is difficult to get to, you may need professional help. If the there is less than 100 square feet of mold growth then you should be able to handle the cleanup job yourself:

- Inform affected building occupants about the plan to clean
- · Occupants should be removed from the work area before cleaning
- Cover or remove difficult-to-clean surfaces or items (e.g. carpeting, electronics) from the work area before cleaning
- Maintenance staff should use safety goggles, gloves, and a disposable respirator when removing mold growth
- · Cleaning should be done using soap or detergent, and water
- Most porous materials (e.g. ceiling tiles, insulation) that are moldy should be removed and thrown away
- If more than a small area (10 square feet) of mold growth is present:
  - ✓ Cover the floor in the work area with plastic sheeting
  - ✓ Cover entry and exit pathways with plastic sheeting
  - ✓ Seal any ventilation ducts with plastic sheeting
  - ✓ Mop and/or HEPA-vacuum the work area and pathways
- Dispose of any plastic sheeting, moldy materials, and used sponges or rags in sealed heavy-duty plastic bags.
- If the mold returns quickly or spreads, you may have an ongoing water problem. Fix water problems immediately.
- For complete recommendations on the assessment and remediation of mold, visit our web site at nyc.gov/health

### SUGGESTED SUPPLIES TO CLEAN MOLD GROWTH

- Soap or detergent
- Disposable rags/sponges and scrub brush
- Buckets
- Heavy-duty plastic garbage bags
- Protective gear (goggles, rubber gloves, N95 respirator)

### FOR MORE INFORMATION

Visit our web site at **nyc.gov/health** for complete recommendations on mold removal or call the New York City Department of Health and Mental Hygiene. In NYC, **call 311**.

### Appendix M Floor Plan Drawing with Sample Locations



