



#23052670

Analysis Report prepared for

EnviroMed Services, Inc.

470 Murdock Avenue
Box 13
Meriden, CT 06450

Phone: (203) 238-4846

IH-23-1788
Servicemaster by Williams
3 Memorial Drive
Winchendon, MA

Collected: **December 4, 2023**
Received: **December 5, 2023**
Reported: **December 5, 2023**

We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 8 samples by FedEx in good condition for this project on December 5th, 2023.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. Information supplied by the customer can affect the validity of results. These results apply only to the samples as received. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

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Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC.



EPA Laboratory ID VA01419



Lab ID #188863



DPH License: #PH-0198

Particle Analysis

This test is not covered under our AIHA LAP, LLC Scope of Accreditation.

Sample Number*	1 A1			2 A2			3 A3			4 A4		
Sample Name*	3rd Floor Lobby Middle School			2nd Floor Lobby Middle School			Main Lobby			High School C134-144 East Hall		
Sample Volume*	150.00 liter			150.00 liter			150.00 liter			150.00 liter		
Reporting Limit	7 particles/m ³			7 particles/m ³			7 particles/m ³			7 particles/m ³		
Particle	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total
Dander	96	640	96%	116	773	92.8%	160	1067	95.2%	192	1280	98%
Cellulose Fibers	1	7	1%	4	27	3.2%	3	20	1.8%	1	7	<1%
Synthetic Fibers				1	7	<1%	2	13	1.2%	1	7	<1%
Aciniform-like Soot												
Ash and Char-like Soot	1	7	1%	2	13	1.6%						
Fiberglass												
Wood Fibers												
Pollen												
Plant Hair												
Animal Hair												
Human Hair												
Feather Barbule												
Opaque Particles												
Silicates	2	13	2%	2	13	1.6%	3	20	1.8%	2	13	1%
Gypsum												
Talc												
Mineral Salts												
Rust												
Carpet Beetle Larvae												
Dust Mites / Parts												
Insect Parts												
Insect Frass												
Ink / Toner												
Starch												
Total	100	667	100%	125	833	100%	168	1120	100%	196	1307	100%

* indicates data provided by the customer



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Project Analyst:
 Ramesh Poluri, PhD

P. Ramesh

Date:
12 - 05 - 2023

Reviewed By:
 Steve Hayes, BSMT

Stephen N. Hayes

Date:
12 - 05 - 2023

Particle Analysis

This test is not covered under our AIHA LAP, LLC Scope of Accreditation.

Sample Number*	5 A5			6 A6			7 A7			8 A8		
Sample Name*	High School C231-239 East Hall			High School C329-337 East Hall			Cafeteria			Outdoor Baseline		
Sample Volume*	150.00 liter			150.00 liter			150.00 liter			150.00 liter		
Reporting Limit	7 particles/m ³			7 particles/m ³			7 particles/m ³			7 particles/m ³		
Particle	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total
Dander	144	960	96.6%	72	480	93.5%	30	200	88.2%	10	67	62.5%
Cellulose Fibers	2	13	1.3%	2	13	2.6%	1	7	2.9%	1	7	6.3%
Synthetic Fibers	1	7	<1%									
Aciniform-like Soot												
Ash and Char-like Soot	1	7	<1%				1	7	2.9%	1	7	6.3%
Fiberglass												
Wood Fibers												
Pollen							1	7	2.9%			
Plant Hair												
Animal Hair												
Human Hair												
Feather Barbule				1	7	1.3%						
Opaque Particles												
Silicates	1	7	<1%	2	13	2.6%	1	7	2.9%	4	27	25%
Gypsum												
Talc												
Mineral Salts												
Rust												
Carpet Beetle Larvae												
Dust Mites / Parts												
Insect Parts												
Insect Frass												
Ink / Toner												
Starch												
Total	149	994	100%	77	513	100%	34	228	100%	16	108	100%

* indicates data provided by the customer



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Total Particulate Analysis Information

Our Total Particulate Analysis test is based on the initial screening procedures from ASTM #D6602. Our Lab only uses light, polarized light, and phase contrast microscopy. No SEM or X-ray defraction is performed. Below are some guidelines to help find totals for the most common particle counts analyzed by light microscopy.

Particle		Air *	Surface *
Dander	Home (Carpeted Areas)	1,000-6,000 / M ³	10,000-16,000 / cm ²
	Home (Hard Surface Areas)	500-5,000 / M ³	5,000-16,000 / cm ²
	Office or Classroom (Carpeted)	4,000-12,000 / M ³	14,000-24,000 / cm ²
	Office or Classroom (Hard Surface Areas)	3,000-10,000 / M ³	12,000-20,000 / cm ²
Cellulose Fibers		0-250 / M ³	0-1,600 / cm ²
Synthetic Fibers		0-250 / M ³	0-1,600 / cm ²
Fiberglass Fibers		0-60 / M ³	0-400 / cm ²
Gypsum Fibers		0-400 / M ³	0-1,800 / cm ²
Talc		0-250 / M ³	0-2,000 / cm ²
Dust Mites (parts)		0-30 / M ³	0-200 / cm ²
Insect Parts		0-30 / M ³	0-200 / cm ²
Animal Hair		0-30 / M ³	0-200 / cm ²
Wood Fibers		0-60 / M ³	0-200 / cm ²
Plant Hairs		0-60 / M ³	0-200 / cm ²
Human Hair		0-60 / M ³	0-200 / cm ²
Carpet Beetle Larvae		0-40 / M ³	0-200 / cm ²
Insect Frass		0-40 / M ³	0-400 / cm ²
Feather Barbules		0-40 / M ³	0-200 / cm ²
Opaque Particles		0-100 / M ³	0-600 / cm ²
Starch		0-40 / M ³	0-200 / cm ²
Rust		0-60 / M ³	0-400 / cm ²
Ash and Char-like Soot		0-100 / M ³	0-300 / cm ²
Aciniform-like Soot		0-100 / M ³	0-800 / cm ²
Silicates	(Varies greatly depending on area)	0-500 / M ³	0-2,800 / cm ²
Pollen	(Varies with outdoor pollen levels and whether there are live indoor plants)	0-500 / M ³	0-2,800 / cm ²

* Estimated Normal Ranges are based on prior experience. There are no standard ranges for this form of testing.

M³ = Cubic Meter

cm² = Square Centimeter

Organism Descriptions

Ash and Char-like Soot	<p>Habitat: Ash-like soot is formed from the combustion of wood and paper products. Char-like soot comes from the incomplete combustion of wood and paper products.</p> <p>Effects: Sources are wood fireplaces, house fires, forest fires, and burning of leaves and other yard debris.</p>
Cellulose Fibers	<p>Habitat: Cellulose fibers are natural fibers from plant material.</p> <p>Effects: Sources of cellulose fibers are paper, cardboard, insulation material.</p>
Dander	<p>Habitat: Dander is dead skin cells. The average person sheds about 600,000 skin cells per day.</p> <p>Effects: Sources are people and animals.</p>
Feather Barbule	<p>Habitat: Any of the individual parts that make up a feather.</p> <p>Effects: Sources are birds.</p>
Pollen	<p>Habitat: Reproductive structures of trees, grasses and plants.</p> <p>Effects: Trees, grasses and plants.</p>
Silicates	<p>Habitat: Silicates comprise the majority of the Earth's crust. Sand, Portland cement, and thousands of minerals are examples of silicates. Also includes quartz.</p> <p>Effects: Sources are sand, cement and drywall.</p>

Gerrit Brouwer
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Organism Descriptions

Synthetic Fibers

Habitat: Synthetic fibers are man-made fibers such as nylon, polyester, and polyolefin.
Effects: Sources of synthetic fibers are carpet, upholstery and clothing.