Mr. Eats-It Floor Dust Cleaner & Eliminator

MICROBIAL RESTORATION SERVICES, LLC

MicrobialRestoration.com

2025

The problem with dust

- Health Perspective

99% of world population lives in places where WHO air quality guidelines are not met.

Dust creates many serious health problems such as developmental delay in toddlers, behavioral problems, **cardiovascular and respiratory diseases**.

New research demonstrates that dust carry viruses in the air which helps **transmission of a virus.**

WHO estimates that household pollution was responsible for **3.2 Million deaths in 2020**.

World Health Organization. “Household Air Pollution.” Fact Sheet. 2023. https://www.who.int/news-room/fact-sheets/detail/ambient-(outdoor)-air-quality-and-health
World Health Organization. “Ambient (Outdoor) Air Pollution.” Fact Sheet. 2022. Ambient (outdoor) air pollution (who.int)
Asadi, S., Gaaloul ben Hnia, N., Barre, R.S. *et al.* Influenza A virus is transmissible via aerosolized fomites. *Nat Commun* 11, 4062 (2020). https://doi.org/10.1038/s41467-020-17888-w

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The problem with dust

- Employer's perspective

Sick employees, leading to sick leave.

Loss of sale: unhappy customers/ returned goods.

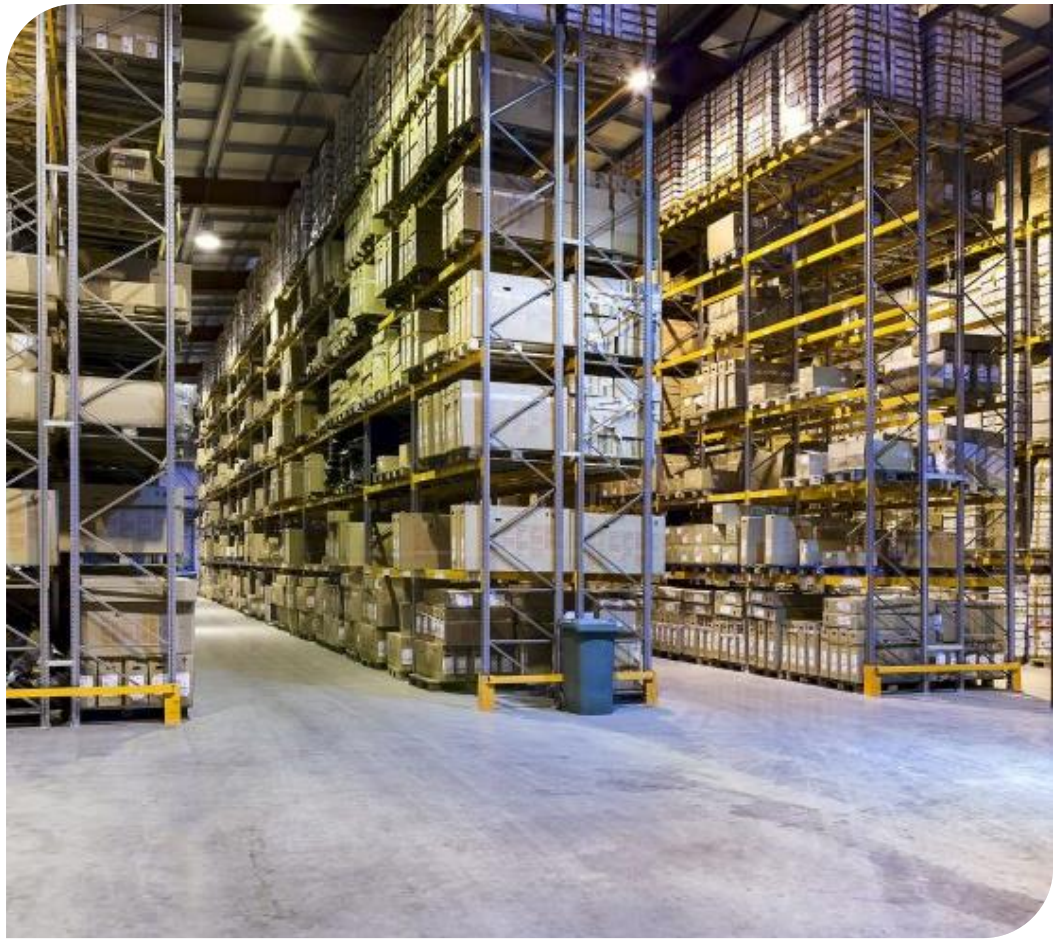
Increased time spent cleaning (human and equipment resources)

Dust on IT/electronic equipment / machinery leading to increased maintenance costs.

Reduced lifespan for floors and other operations equipment.

Energy spendings from running ventilation system

Added cost replacing filters in air filtration systems.



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Mr. Eats-It Floor Dust Cleaner & Eliminator concept

A new cleaning solution to remove dust from the air

Mr. Eats-It Floor Dust Cleaner is a cleaning solution that can **replace a standard cleaner** in any equipment or even at home.

It contains a **dust binder** as well as micro-organisms.

It creates a low tack coating that **binds** the dust to the floor, **prevents** re-aerosolization of the dust, and facilitates **removal** of the dust in **subsequent cleanings**.

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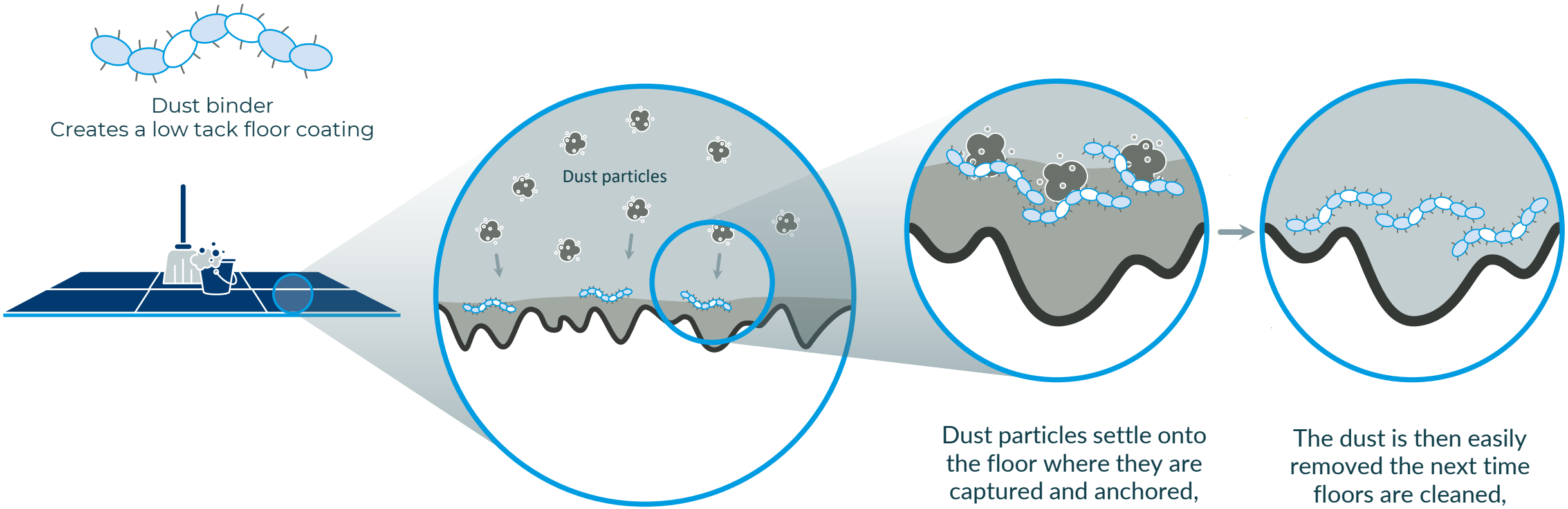
Step one: Confine the dust to the floor



Dust particles settle onto the floor where they are captured and anchored, reducing resuspension into the air.

The dust is then easily removed the next time floors are cleaned, leading to an overall reduction of dust, both in the air and on surfaces.

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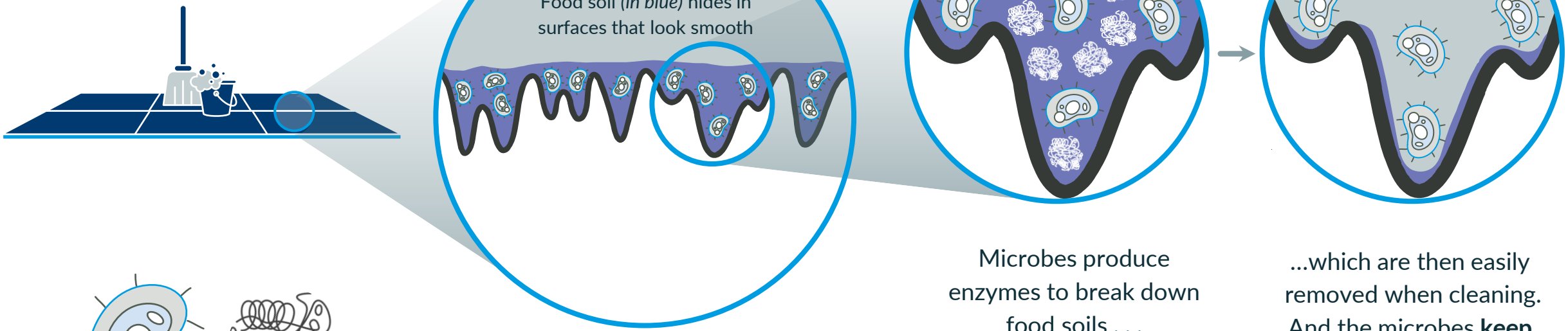
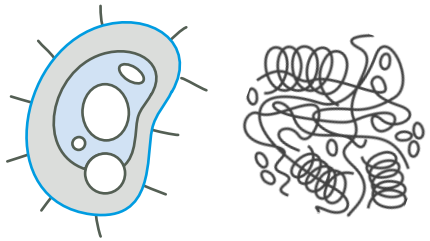
Step two: Microbes get into action

Mr. Eats-It Floor Dust Cleaner & Eliminator contains safe and effective microbes.
In the presence of soil, microbes secrete enzymes that break down the organic components of dust.



Microbes produce enzymes to break down food soils . . .

...which are then easily removed when cleaning. And the microbes **keep** working for up to 7 days.



Microbe

Enzyme

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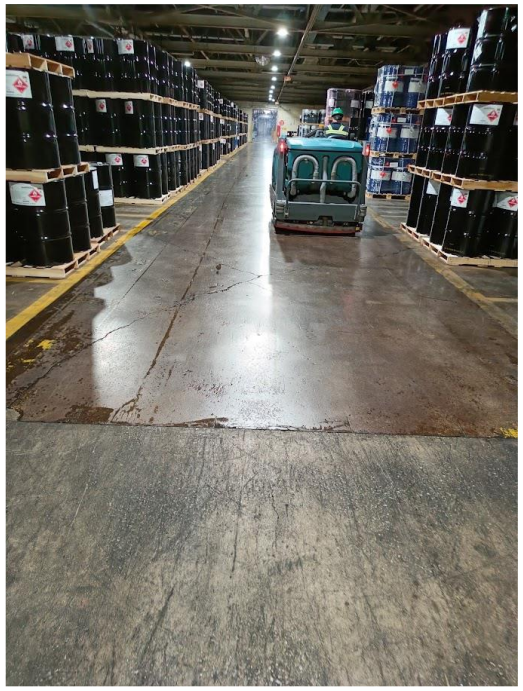
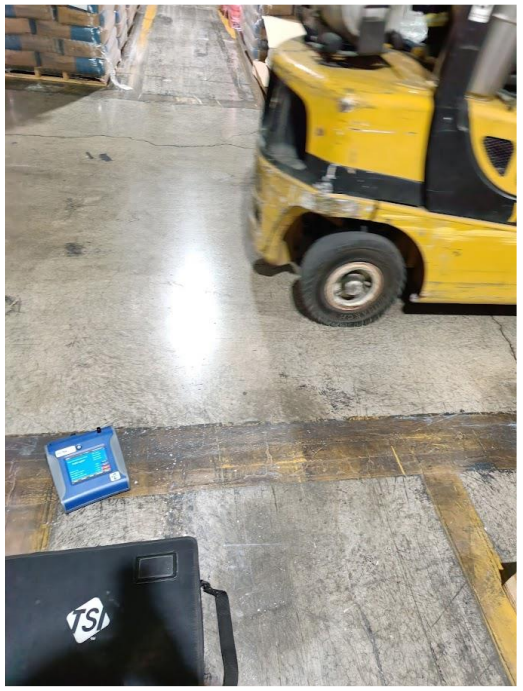
Trials at a large Warehouse





Warehouse size: 160,000 ft^2
Traffic: 15 forklifts operating 16 hours/day
60 trucks/day
Time Period: 11/29/2023 to 12/01/2023
Method: Floor washer
Product tested: Mr. Eats-It Floor Dust Cleaner & Eliminator
Dosage: 2% (2.5 Liters)

Dust measure equipment:
Model: DUSTTRAK™ DRX Aerosol Monitor 8533 (calibrated before and after each measurement)
Dust burden measured as:
Dust peaks and baseline in the air in mg/m^3

Cleaning monitoring: GPS
Dust Testing:
Before cleaning.
After 3 days of daily cleaning.

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Test Results

Area/Location	Before Cleaning Peaks/ Baseline	After 3 days of Cleaning with Mr. Eats-It Floor Dust Cleaner & Eliminator Peaks/ Baseline	Dust Reduction (%)
Ramp Outside	2.660/ 0.153 mg/m^3	0.148/ 0.040 mg/m^3	**94/74**
Ramp Inside	1.380/ 0.077 mg/m^3	0.125/ 0.033 mg/m^3	**91/57**
Main corridor past ramp	11.600/ 0.207 mg/m^3	0.263/ 0.042 mg/m^3	**98/80**
Corridor by drums	8.530/ 0.231 mg/m^3	0.075/ 0.035 mg/m^3	**99/85**
Start of bag storage	1.950/ 0.061 mg/m^3	0.177/ 0.032 mg/m^3	**98/48**
End of bag storage	2.160/ 0.060 mg/m^3	0.051/ 0.031 mg/m^3	**98/48**

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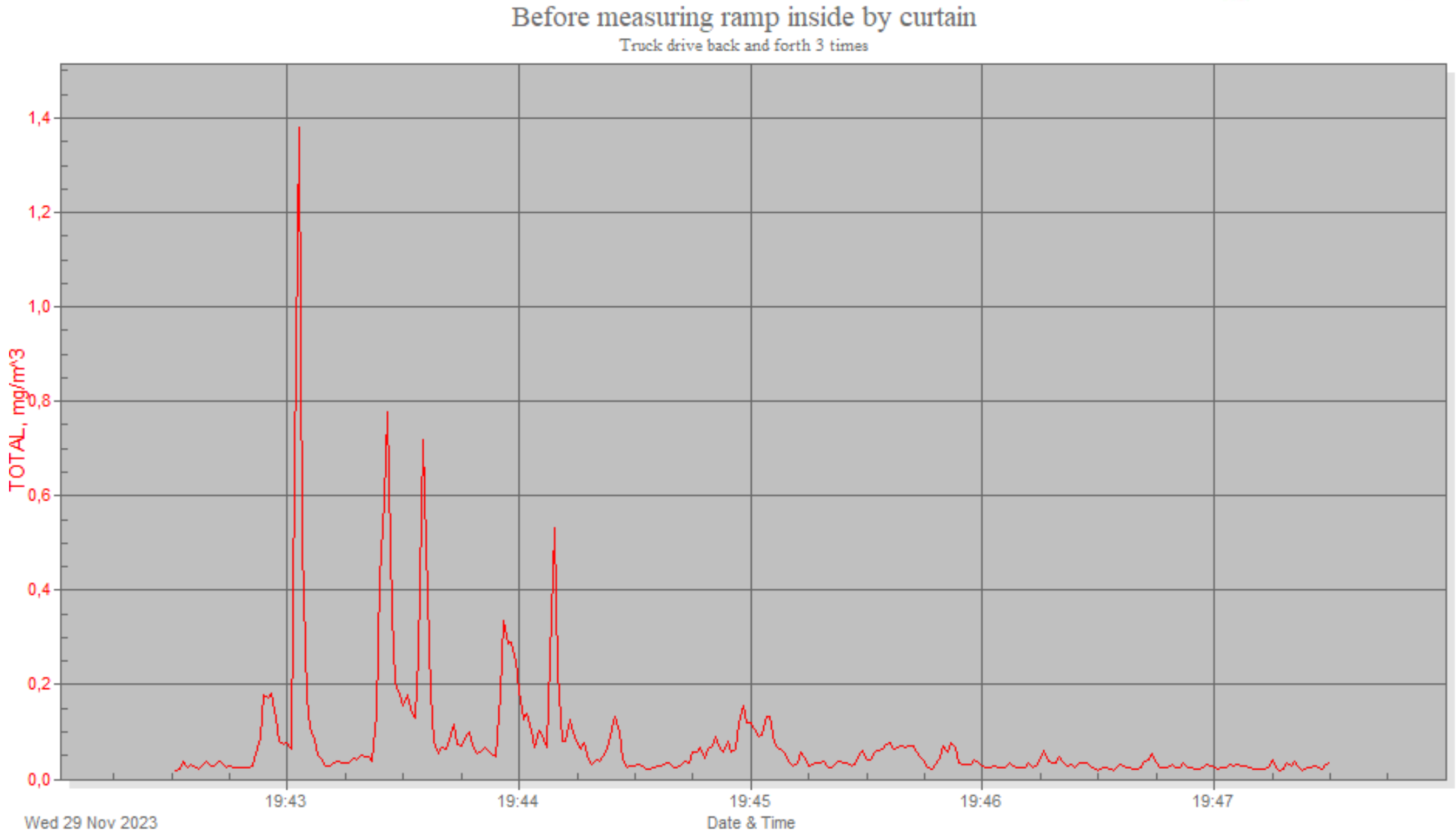
Before Cleaning



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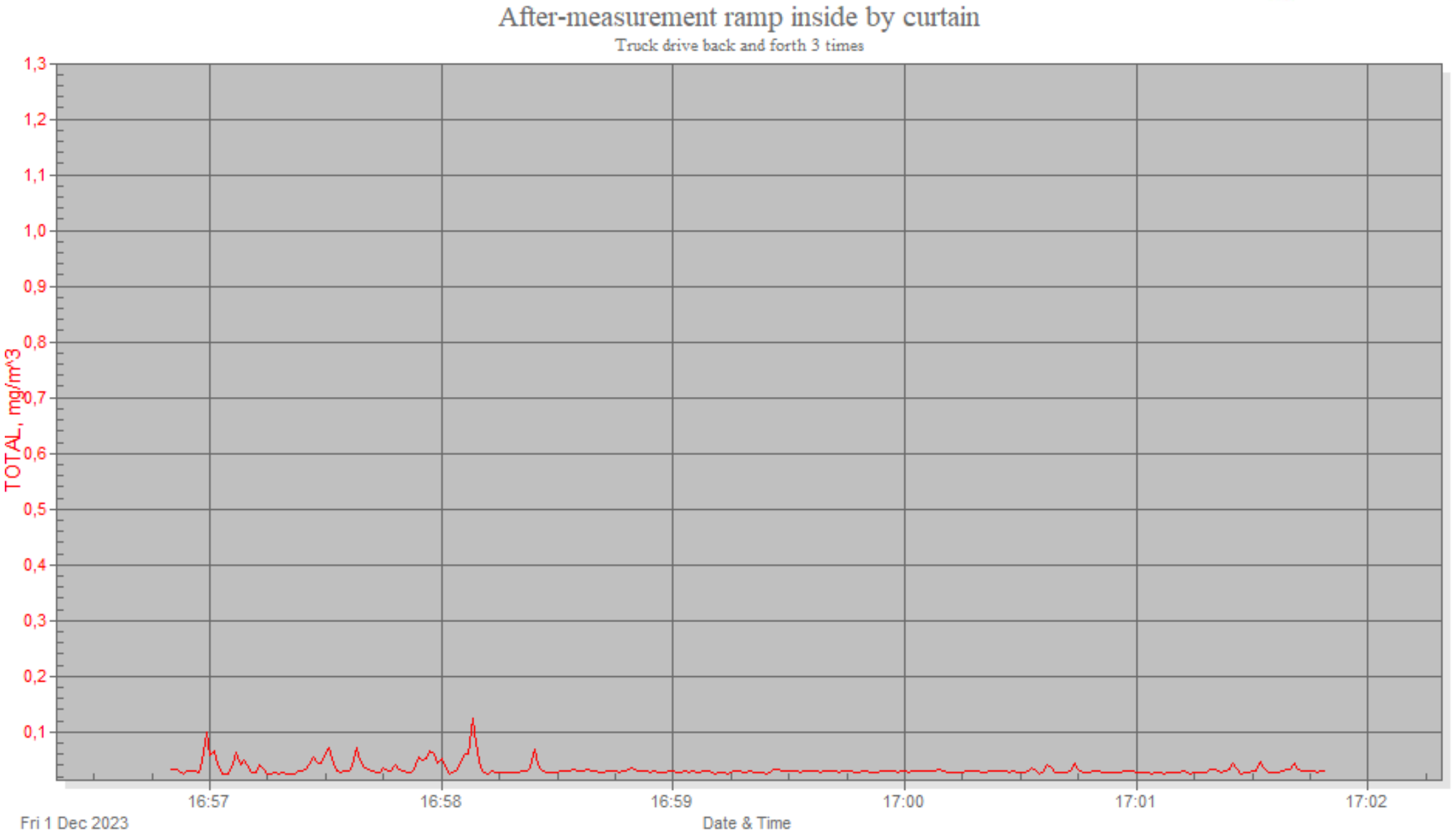
After Cleaning



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Calculating Benefits

Air Purifier vs Mr. Eats-It Floor Dust Cleaner & Eliminator for a warehouse

MICROBIAL RESTORATION SERVICES, LLC

$15,000 savings
in operational costs

Does not include savings from the following benefits:

- Longer lifespan for floors
- Lower maintenance costs for equipment
- Reduced need for cleaning of shelfs, containers etc…+ expensive elevation cleaning
- Eliminates potential loss of sale from dirty goods
- All health benefits

Warehouse size	**25,000**	sq ft			
Effective Cleaning area in proportion to warehouse	**50%**				
	Standard Cleaning + purifiers			Mr. Eats-It Floor Dust Cleaner & Eliminator	
Warehouse size	25,000	sq ft		25,000	sq ft
Air Purifier Coverage area	10,000	sq ft		10,000	sq ft
Number of purifiers needed	3			-	
Cost of one unit	$ 3,000				
Sensor (1 sensor per 100,000 sq ft)				$ 700	
Monitoring tablet				$ 500	
Equipment Cost	**$ 9,000**			**$ 1,200**	
Filter replacement costs per year (16 prefilters @ $120/pv + 4 HEPA filters @$300/pc) per filter	$ 3,120			**$ -**	
Filter replacement costs per year	**$ 9,360**				
Air Purifier Energy Consumption	600	W		600	W
Hours per day Air purifiers are running	24	hours		0	hours
Yearly Energy Consumption	15,768	kwh		-	kwh
Energy price (US average)	0.18	$/kwh		0.18	$/kwh
Energy Cost of running air purifiers per year	**$ 2,838**			**$ -**	
Effective Cleaning area	**12,500**	sq ft		**12,500**	sq ft
Standard Cleaning Frequency per week	4			3	
Duration of cleaning (1 hr per 10,000 sq ft)	1.25	hours		1.25	hours
Hourly employee cost	$30			$30	
Employee cost per year	**$ 7,800**			**$ 5,850**	
Cleaning Solution Cost/ gallon -Simple Green	$ 17.00	per gallon		$ 50.00	per gallon
Dilution	3%			2%	
Ready-to-use Solution cost	$ 0.51	per gallon RTU		$ 1.00	per gallon RTU
Cleaning Solution Yearly use (200 sq ft per gallon)	26,000	Gallons		9,750	Gallons
Product Cost per year	**$ 13,260**			**$ 9,750**	
Total Operational Cost per year	$ 33,258			$ 15,600	
Equipment Cost	$ 9,000			$ 1,200	

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School Tests

AIR POLLUTION IMPACTS GRADES

785,000 children tested.

An increase of 5 µg/m³ in $PM_{2.5}$ was linked to a one-point decrease in GPA (scale from -3 to 13 with an average around 7).

The negative associations were most noticeable in **mathematics and natural sciences**.

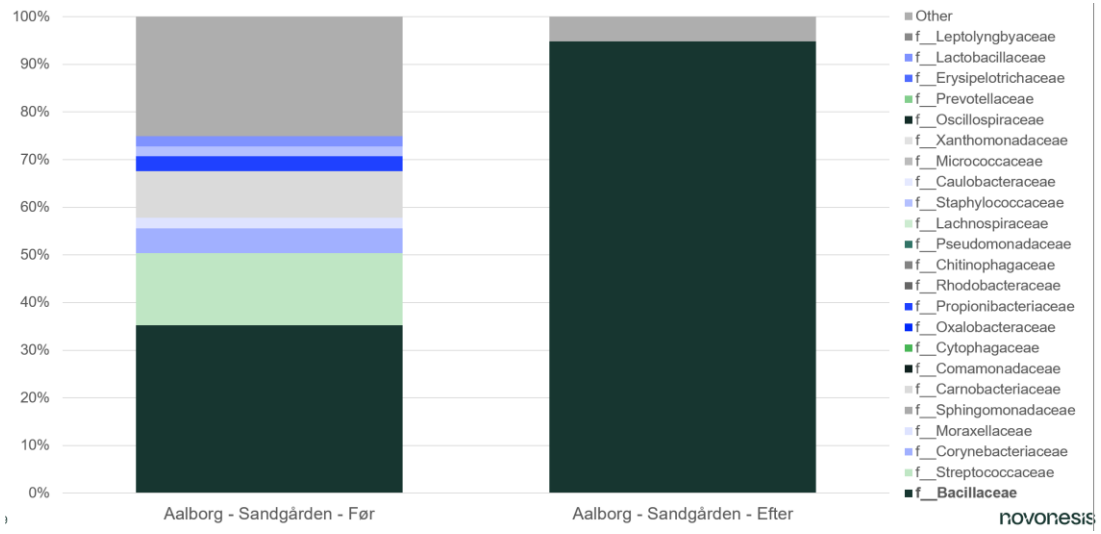
$PM_{2.5}$ is a measure of particulate matter with a diameter less than 2.5 µm.

Mr. Eats-It Floor Dust Cleaner & Eliminator has shown to **reduce $PM_{2.5}$ by at least 40%**.

Particulate Matter (PM 2.5)	24 hr limit (µg/m³)	Annual limit (µg/m³)
World Health Organization	15	5
United States	35	9

	$PM_{2.5}$ before Average/Max (peaks)	$PM_{2.5}$ after Average/Max (peaks)
School 1	21/249 µg/m³	3/35 µg/m³
School 1	32/471 µg/m³	11/119 µg/m³
School 1	27/286 µg/m³	19/245 µg/m³
School 1	25/148 µg/m³	7/38 µg/m³
School 2	37/123 µg/m³	20/108 µg/m³
School 2	28/84 µg/m³	13/178 µg/m³
School 2	23/77 µg/m³	9/88 µg/m³
School 2	21/224 µg/m³	7/31 µg/m³
School 3	19/167 µg/m³	6/97 µg/m³
School 3	20/166 µg/m³	14/58 µg/m³

Subsequent swab tests have shown that recovery of *Bacillus* (contained in Mr. Eats-It Floor Dust Cleaner) is highly favored after cleaning with Mr. Eats-It Floor Dust Cleaner). This indicates the potential benefit to the school's biome and safety of the environment in general.



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Mr. Eats-It Floor Dust Cleaner & Eliminator

Summary of benefits

- Reduces dust up to **98 %**
- Cleans deeply with microbes active up to **7 days** to help remove even embedded soils
- CL**AIR**ITY+ works on any type of floor
- Enables **documented** air quality improvement
- Promotes a **healthier** workspace and reduces sick leave
- Reduces **maintenance costs**
- Addresses the root cause of **malodor**
- Is 100% biodegradable

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Using Mr. Eats-It Floor Dust Cleaner & Eliminator

These ride-along cleaning machines are used several times a week at Mr. Eats-It Floor Dust Cleaner & Eliminator doses of 1% of less (depending on the frequency of cleaning) and the dust monitoring system helps to seal the deal. The idea is to replace the existing floor cleaning product one to one and replace with Mr. Eats-It Floor Dust Cleaner & Eliminator.

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MICROBIAL RESTORATION
SERVICES, LLC

Contact us at:

Pete Talbot
President
847-849-0163

www.MicrobialRestoration.com