



PestWest **EDGE**ducational Brief



INNOVATION // QUALITY // POWER

Is It Clean?

By Dr. Stuart Mitchell

All those architectural micro-spaces that are rarely seen, are they really clean? How do you know? Micros can make it so!

Sanitation is defined as the development and application of salubrious practices for the sake of cleanliness. Cleanliness via cleaning involves various methods including using the five senses. One overlooked, yet very effective method is resource cleaning or bioremediation. Bioremediation is environmental cleanup through biological agents or nonpathogenic, beneficial bacteria.

For more information please contact us today!



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RESOURCES



There are many environmental advantages with bioremediation practices.

Advantages

- Bacteria double every 20 minutes.
- Bacteria give-off CO₂ and water only.
- Bacteria are non-pathogenic.
- Bacteria thoroughly clean organic build-ups.
- Bacteria reach micro-spaces.
- Bacterial bioremediation is a natural process.
- Bacterial bioremediation can remove offensive organic odors.
- Bioremediation is cost effective.
- Bioremediation has a low capital outlay.
- Bioremediation requires less energy by comparison to other technologies.
- Bioremediation requires far less manual inputs and supervision.

Sanitation efforts are challenging, perpetual, and change with the facility. Poor sanitation resulting from poor cleaning methods can threaten both inhabitants' well-being and structural valuations.

An essential and routine cleaning method, bioremediation must be included in the Master Cleaning Schedule (MCS). Focal areas must include vault toilets, showers, ceramic tile floors, floor drains, drain-lines, overflow lines, septic systems, grease traps, elevator pits, lift stations and sumps, compactors, loading docks, dumpsters, trash receptacles, mops and mop-bucket waters, outside drains, trough drains, and other areas where organic build-up is present.

For example, by routinely and systematically opening and scrubbing all floor drains with a bristly brush followed by beneficial bacteria or a biologically enhanced cleaner, micro-space sanitation is assured.

An automated inline injection pump system can assure programmatic delivery of a biologically enhanced cleaner to numerous end points. Set the timer for the required dose (any amount of run time for any given period).

Chronic organic buildup is plausible in unknown or inaccessible floor drains, below vending machines, below slab floors, and numerous other micro-spaces that are not being effectively cleaned. Intimate knowledge of the current structural architecture is essential.

Rigorous and routine sanitation inspections must be conducted. Inspection results must be shared with the facility's staff to determine actionable items. With sanitation concerns, there must be recurrent communication and consistent follow-up. A close working relationship must exist between the cleaning staff and other staffers.

When using a biologically enhanced cleaner, it must have certain characteristics to assure optimum substrate performance. It must be of a certain centipoise (the amount of force necessary to move a layer of liquid in relation to another liquid). Centipoise is considered the standard unit of measurement for fluids of all types. It is 1/100 of poise (unit of viscosity). The symbol for centipoise is cP or cps.

For example, a viscosity of 880 centipoise enables high sheer cling or sticking to vertical surfaces. High sheer cling allows beneficial bacteria to inoculate organic build-up within micro-spaces, immediately digesting inanimate organic debris. High sheer cling allows "stick-to-it-cleaning" (especially for drains, toilets, holding tanks, grease traps, and septic systems).

Biological cleaning products are biodegradable and non-toxic compounds that contain no pathogens, are non-caustic, non-corrosive and salmonella-free. Biologically enhanced cleaners consume greases, fats, oils, proteins and carbohydrates. They can leave behind a fresh citrus scent.

Put billions of cleaning microbes to work in all those architectural micro-spaces that are rarely seen.
How do you know? Micros make it so!



Biologically enhanced cleaning formula to naturally remove organic debris.

Available in 32 oz. or quarts, 128 oz. or gallons, 6 gallon pails, or 55 gallon drums.



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