



CASE HISTORY

Village and Township of Almont Municipal Building

Building Services to Help Building Owners

A History of Frustration and Expense

Solving Problems Caused by Microbial Contamination

Problem:

People were working outside to avoid reacting to the air inside the building. Complaints of chest pains, breathing difficulties, burning eyes, nose and ears, dizziness and a "hacking cough" started in February 1988. Many employees experienced sensitivity to fungi, mold, and mildew that was found indoors.

History:

All of the traditional remedies were tried. Early in 1988, maintenance work was performed on the furnaces. Filters were cleaned and the humidifier components were cleaned and disinfected. When the humidifiers were restarted, a majority of the occupants became ill with symptoms similar to those of flu, cold and sinus ailments. The Township Clerk was so sensitive to the environment that each time she entered the main conference room; she would lose her voice within fifteen seconds.

In response to mounting complaints, the village contracted with a private lab to test the air to discover the source of the problems. The consultant company suspected microbial contamination and recommended maintaining a rigorous cleaning schedule of the ventilation system and cleaning interior surfaces with bleach. Following further advise of public and private occupational health specialists, the entire building was cleaned in the summer of 1990. The walls were scrubbed and painted, floors were cleaned and vacuumed. The problems continued. Some hypersensitive employees still could not work in the building. Windows had to be left open for most of the office workers. Another consultant recommended a complete replacement of the HVAC system at a cost which was staggering to the small village.

Solution:

The ÆGIS Microbe Shield™ Program.

Situation Summary and Results:

In a final effort to solve the sick building problem, ÆGIS Environmental Management, Inc. was called to investigate and see if anything could be done to save the building. Experienced investigators surveyed the building, interviewed occupants and took microbial samples. The ÆGIS microbiology lab confirmed the extent of the mold and mildew contamination and identified fungi known to cause human health problems. Based on the survey and testing, the lab confirmed that the ÆGIS Microbe Shield Program could effectively control both the airborne microbial contamination and the sources of the contamination in the facility on a long-term basis.

***ÆGIS Environments
More than 20 Years of Protecting the Products
That Protect You and Your Environment***

ÆGIS crews applied ÆGIS™ Antimicrobial to carpeting and four HVAC terminal ends in the conference room where the symptoms were the greatest. Follow-up tests and interviews showed a dramatic reduction on the microbial load in the environment and a relief of allergenic responses by the staff. The employee with extreme hypersensitivity to mold and mildew was able to enter the room without a respiratory attack for the first time in years. She was quoted as saying; "it didn't take long to see it (had) worked."

The village manager must have been pleased with the dramatic results. Two months later, he signed a contract to utilize the ÆGIS Microbe Shield Program throughout the facility.

Three years after the initial treatment of the Municipal Building, the ÆGIS Microbe Shield continues to provide its safe and invisible protection against recontamination by mold, mildew and bacteria. Even more importantly, the human health problems, which plagued the Almont Municipal Building and caused this small Michigan village to spend thousands of dollars for hopeful, but ineffective, remedies have not returned.

ÆGIS Information:

ÆGIS™ Antimicrobial is the keystone of the ÆGIS Microbe Shield Program. It is a durable, broad-spectrum antimicrobial which is EPA approved for application to all interior non-food contact surfaces. ÆGIS™ Antimicrobial is an invisible surface modifying technology (not a paint, coating or disinfectant), which chemically bonds to the application surfaces. It cannot diffuse or migrate once it has been professionally applied and has dried. It doesn't lose strength! It acts on direct contact with microbes by rupturing their cell membrane - not by poisoning. Most other antimicrobials, sanitizers, and disinfectants are designed to diffuse quickly and be absorbed. As they diffuse, they lose strength, and adaptation can and does occur.

The proprietary ÆGIS Microbe Shield technology and services are unique and cost-effective. In most problem situations, dramatic improvements in the indoor environment can be achieved without the need for major renovation or costly HVAC changes. By quickly and safely eliminating the sources of microbial contamination, the ÆGIS Microbe Shield assures long-lasting building and occupant protection.

The ÆGIS Microbe Shield solves your building health problems and is backed by a three-year warranty. Our professional microbiology lab is available for initial and confirmatory testing.



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ENVIRONMENTS**

**Solving Indoor
Environmental Problems**

Remediation ♦ Consulting

To locate an

**ÆGIS Microbe Shield™
Certified Applicator**

52155 Range Road 233 Sherwood
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Call us or visit our website at:

www.microbedefence.com

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