



WELLINGTON ENVIRONMENTAL

Providing Services to Enhance Health & Safety for More Than 30 Years



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Lead and Asbestos Abatement Often Necessary on Older Building Renovations

The health problems caused by lead are widely known. Children are especially at risk for developmental delays and learning difficulties as a result of exposure. In adults, lead poisoning can damage the kidneys, brain, nervous system and stomach. Many structures built prior to 1978 still contain lead-based paint.

Renovation of the Missouri Botanical Garden Museum building (*above*) involved removal of lead paint by Wellington Environmental. All of the painted wood surfaces, including the ornate display cases, were stripped of lead paint in preparation for refinishers to perform their precise restoration of this historic building.

Whether it is adhered to steel, brick or wood, Wellington Environmental has the experience and equipment to safely remove lead paint from all types of surfaces.

Asbestos is another substance that can pose a serious health hazard. Breathing particles has been linked to several types of cancers and lung disease. A magnificent 100-year-old church in Quincy, Illinois, (*right*) had roof tiles that contained asbestos. When it came time to replace them, Wellington crews removed and disposed of them safely. (The interior photo is included to illustrate the scale of this tall, ornate structure.)



Attic Space Vermiculite Efficiently Removed

A realtor called, frantically asking about vermiculite in the attic area of a home she was selling. She worried that the buyers would back out because of their fear of asbestos. Vermiculite, an insulating material with an appearance similar to cat litter, can contain asbestos. Asbestos particles are known to cause serious health problems, including lung cancer, mesothelioma, asbestosis, and abnormalities in the lining of the lungs.

Wellington inspected the home's attic and removed the vermiculite with a high-energy, double-wall vacuum system. The unit sits outside the building, thus avoiding dragging bagfuls of potentially hazardous material through the home to reach exits.

Wellington's system saves the customer money due to the high velocity speed at which the insulation can be removed from the home. ... By the way, Wellington Environmental saved the real estate deal and both sides of the transaction were happy!



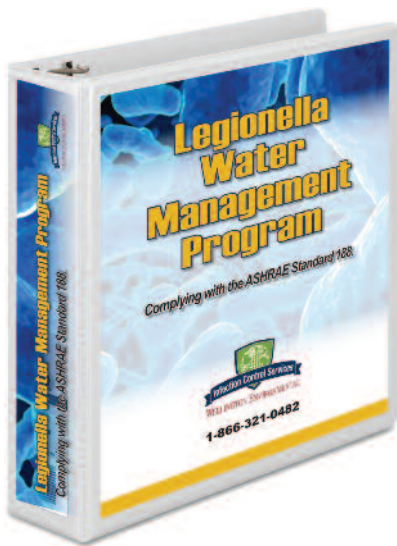
Battling Legionella with Water Management Plan Compliance

Helping customers develop Water Management Plans has Wellington currently working in five states for long-term care facilities and hospitals. Unlike other consulting companies, our focus is on formulating an internal team at each facility to control their own program – thus, saving the facility significant expense.

How serious is Legionella and why all the attention lately? Legionella causes a potentially deadly pneumonia-like illness called Legionnaires' disease, as well as a mild flu-like illness called Pontiac fever. Most pneumonia cases are now also tested for legionella, and the numbers are increasing. According to Dr. Emily Landon, hospital epidemiologist with University of Chicago Medicine, "About one in 10 people die of Legionella pneumonia. If you happen to catch it in a hospital, when you are already probably sicker to begin with, the rate of death is actually one in four."

The following types of buildings should have a Water Management Plan to reduce bacteria such as Legionella:

- Multiple housing units with one or more centralized hot water systems
- Buildings with more than 10 stories (including levels below grade)
- Independent healthcare facilities
- Housing designated for people over age 65
- Facilities providing chemotherapy for cancer patients or bone marrow transplantation
- Buildings with one or more whirlpools and/or spas on the premises
- Structures containing one or more water features



Infection Control University (ICU) Helps Fight Hospital-Associated Infections

After a two-year introduction, ICU, a cloud-based compliance training tool, is experiencing explosive growth! ICU provides safety and infection control awareness training to vendors and contractors who perform work in healthcare settings. Unfortunately, most workers don't understand how patients can be impacted by improper work, or the long list of stakeholders (not just OSHA) that hospitals have to keep happy. The high cost of healthcare-associated infections (HAIs) has hospitals across the country focusing on improving quality outcomes, and they have embraced ICU's convenient, easily accessible program.

Wellington is a founding member of Infection Control University, LLC (ICU) and responsible for all educational content. ICU provides training from any smart device and tracks compliance and renewals at no cost to the hospital. ICU was recently designated a healthcare BEST PRACTICE by MD Resources in California.



The Pigeon–Bacteria Connection

Large flocks of pigeons pose a serious issue for hospitals and medical office buildings, not merely due to the nuisance factor, but because bacteria carried by the birds, such as Cryptococcosis, Histoplasmosis and Psittacosis, can be deadly to some immunocompromised patients. Wellington's experience in pigeon control and disinfecting surfaces for medical facilities has included removing the birds and their associated debris from air intake vents, parking structures, attic spaces, and even cafeteria entrance areas. Contact us if you need help with pigeons or with other sources of potentially problematic bacteria.



Storm Water Pollution Prevention Plans (SWPPP) Now Include Construction Dumpsters

Due to multimillion dollar EPA lawsuits against municipal sewer districts, many states have increased enforcement of storm water runoff regulations. One new initiative is to make sure construction dumpsters are covered nightly to prevent rain water from mixing with construction debris and then leaking into storm water sewer systems.

Wellington can supply and install these dumpster covers. We also write SWPPP programs for new and existing facilities – if you have such a need, contact our engineering department for details.

Wellington Ensures Clients' Wastewater Monitoring Compliance

For more than 25 years, Wellington has provided wastewater monitoring services to dozens of institutional and industrial clients, including numerous hospitals and healthcare facilities. These hospitals have ranged in size from small extended-care facilities to medium-sized regional hospitals to large urban medical centers.

Wellington's experienced engineers, chemist, and technicians typically handle a hospital's entire permitted wastewater monitoring program, including preparation of permit applications and renewals, wastewater discharge collection and analyses, report preparation, and, when needed, violation resampling. Wellington's clients particularly appreciate that they don't have to remember when the next round of sampling and analyses is due, and they never miss a deadline! Wellington keeps track of the calendar and schedules the required monitoring to keep the hospital in compliance with their local POTW issued permit.



Chemical Vapor Barrier Installed for Bank Reduces Vapor Intrusion

Vapor mitigation systems are being installed at the lowest level of new structures when they are determined to be in a high-risk area and/or when contamination is confirmed by testing. When a bank in St. Louis purchased property, they learned that the previous building was a car service center. The bank decided to tear down and build a new structure on the existing lot. Before completing construction of the new facility, a chemical vapor barrier was installed, because many former car service centers used vehicle fluids and cleaning chemicals that may have emitted toxic gasses into the subsurface soil vapor over many years.

To reduce the risk of the new building's occupants and surrounding sites being exposed to vapor emanating from subsurface contamination through the concrete floor and utility openings (known as vapor intrusion), Vapor Mitigation Strategies installed a 4,600-square-foot chemical vapor barrier system. This solution has been accepted by state environmental agencies, branches of the military and environmental consulting firms around the world.

The vapor barrier system installed was a Geo-Seal® Spray-on Membrane Gas Vapor Barrier, which includes three layers: 5 mil Geo-Seal® FILM 5 (High-density polyethylene layer), 30 mil Geo-Seal® CORE (Spray-applied copolymer modified asphaltic membrane), and an 18 mil Geo-Seal® BASE (High-density polyethylene layer).



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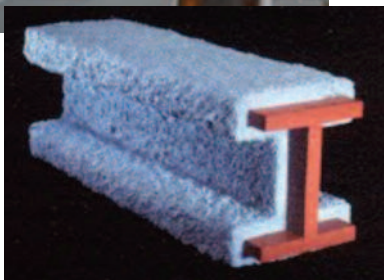
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Wellington an Expert in Spray-Applied Fireproofing

Spray-applied fireproofing products are hard, durable, asbestos-free substances that can provide up to 4 hours of fire protection when applied to structural steel, wood, and bulkheads. They can also upgrade the fire resistance of existing concrete.

As a certified Carboline® installer of fireproofing, Wellington's crews perform work in manufacturing, healthcare, and commercial buildings across the Midwest. Since we are in the clean-up business and understand building containments, clients know that the site will be properly separated from ongoing operations and will be clean when the job is completed. Contact us even for small patch-up jobs; we are here to help save money and headaches!



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