



Asbestos
Asbestos in Soils
Legionella
Water Hygiene
Occupational Hygiene
Health and Safety
Fire Safety
Lab Services
Training



WATER SERVICES

www.aec.uk.net

Airborne Environmental Consultants Ltd.

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Company Registration Number 3442515

Legionella Services

Water Hygiene Services

Remote Temperature Monitoring

Legionella & Water Hygiene Training

Introduction

Airborne Environmental Consultants Ltd (AEC) is an independent health, safety and environmental consultancy established in 1997.

AEC provides a broad range of Legionella and water hygiene services that include Legionella risk assessments and reviews, preparation of Legionella management plans, policies and procedures.

We also offer a full range of water hygiene monitoring, servicing, tests and assessments as well as a comprehensive range of Legionella and water hygiene training courses.

AEC is accredited by the Legionella Control Association (LCA) and as such you can be assured that our services are delivered to the highest standards of technical proficiency, competence and customer care.



Legionella Services

In the United Kingdom, water hygiene and the risks posed by the Legionella bacteria in particular are tightly regulated and enforced.

It is therefore vitally important that those responsible for the safe maintenance of water systems can access competent and impartial advice and services to ensure they comply with the law and keep their staff, visitors, tenants or community safe.

AEC offer the following range of water hygiene and Legionella services to assist you with your organisation's needs;

- Legionella risk assessments and reviews
- Legionella policies, procedures and management plans
- Legionella management reviews
- Water hygiene monitoring, tests and inspections
- Tank cleaning and disinfection services
- Water management portal
- Remote temperature monitoring services
- Reactive and emergency support
- Training services



Legionella Risk Assessments

Did you know? If you have a water system at work, you need a Legionella risk assessment.

If you are an employer, or someone in control of premises, including landlords, you must take appropriate steps to identify and remove or reduce the risk of exposure to Legionella.

AEC can help you to stay safe and comply with the Health and Safety at Work Act, COSHH and the Management of Health and Safety at Work Regulations.

Our Legionella risk assessments are carried out to the requirements of BS 8580 by qualified, competent and experienced staff and include:

- An inspection and assessment of the configuration, construction and condition of all appropriate water systems – these will include domestic hot and cold-water systems as well as commercial and industrial systems if present.
- A review of the occupancy, usage and potential for exposure within the site.
- Assessment of the potential for Legionella to enter the water systems, its proliferation risk and the potential for aerosol generation as well as the susceptibility of the population at the site.
- A review of the current duties and responsibilities of those involved in the supply of water systems and any additional training or management requirements.
- Specific recommendations regarding any remedial actions required to the water system.
- Recommendations for the ongoing safe management, monitoring and maintenance of the water systems.
- Temperature checks on sentinel and other outlets and any stored water assets.
- Photographs of all assets and full schematic drawings.
- A review meeting to explain our findings in the report.

Legionella policy, procedures and management plans

Following the undertaking of the Legionella risk assessment, the duty holder and responsible person must implement the significant findings of the report and establish a procedure to ensure that the water systems are maintained safe in the future.

A water management plan and procedure document is designed to help your organisation reduce the risk of Legionella exposure to enable you to continually monitor the water systems and carry out safe practices of work on an on-going basis.

With over 22 years' experience in Legionella consultancy, AEC can provide you with a professional, competent and detailed management plan, which is tailored to your business and outlines policies, procedures and step by step processes in how to manage your water systems.

It is an essential document to fulfil your statutory obligations and provide a safe working environment for everyone.

Legionella management reviews

AEC offer an annual review service which gives you the peace of mind that your records are up to date, fit for purpose and that you stay compliant with the law.

During a review we would look at all aspects of the running of your water hygiene management systems, and provide a detailed report on areas of strength and weakness, along with a targeted plan for achieving compliance.

To arrange a free consultation to discuss how we can help you with your water system please call
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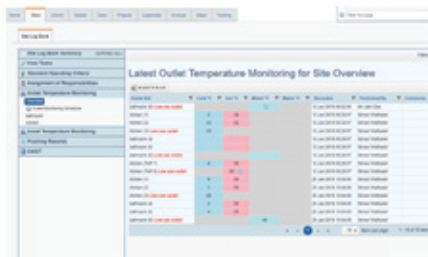
Water Management Portal

It is a user-friendly, interactive system that allows secure access to all reports and data, at any time of the day.

Our water management web portal service provides our clients with an overview of their compliance with regards to Legionella and water hygiene management.

Benefits of the web portal

Using the latest mobile technology, the web portal provides accurate and real-time data, keeping pace with everyone's need for improved speed, availability and accessibility.



The web portal system is:

- Cost-effective
- Real-time
- Auditable
- Available 24/7
- Secure
- Provides unlimited client logins

Portal features

Appointments - work is managed with built-in work scheduling and appointment booking.

Temperature monitoring - this is performed by the technician and all the data is transmitted to the portal in real time.

Reports - risk assessment reports with recommendations and remedial actions, along with full asset lists, can be generated automatically and downloaded.

Scheduling - the portal enables customers to see the full water hygiene programme, prioritise risks and see outstanding remedial actions.

Asset by risk - clients can organise their property portfolio in order of Legionella risk, location, or required activity i.e. 5th floor of building A needs remedial action.

Reactive and planned support

Most aspects of water system management can be planned for and will include a regime of temperature monitoring, tests, inspections and system maintenance.

However, there are sometimes some unexpected problems that require a rapid response. AEC can offer support in all such instances.

We offer two types of services:

Planned – AEC's team of water technicians will carry out a scheduled plan of work to fit with the time scales of your business, as outlined in your management plan.

Reactive – Our team are on hand 24/7 to offer support to customers who may need to manage an unsafe working condition or an unplanned situation.

Emergency out of hours contact
07899 792 860



Water Hygiene Services

AEC's Water Hygiene Division provides you with a national team of competent and trained technicians who have extensive experience in all sectors from residential to industrial premises.

We aim to help our customers understand their legal obligations, to have safe measures and procedures in place and to manage and control risks so that they are safe in the knowledge that they will be fully compliant with the law.

AEC offer a range of water hygiene monitoring, test, inspection and maintenance services.

The requirement for these services will normally be defined within the Legionella risk assessment but these services can be tailored to each client's individual needs.

A summary of the services offered by AEC is included below.

Temperature monitoring

Temperature control is the primary method used in the UK to minimise Legionella risk. It is critically important that hot and cold supply systems be maintained in the correct temperature ranges (below 20°C for cold water outlets and above 50°C for hot outlets). The advised monthly temperature checks are typically undertaken at sentinel points (near and far outlets) as well as other outlets typically identified in the Legionella risk assessment. AEC can undertake these temperature checks either manually or remotely and interpret the results and act accordingly if action is warranted.



Showerhead cleaning

In most 'Domestic' hot and cold-water systems, shower heads are the most significant aerosol generating outlets and therefore are a major source of concern. Showerheads should be de-scaled, cleaned and disinfected quarterly and regularly checked for signs of scale or biofilm build-up. This is to prevent bacterial growth and deny Legionella bacteria the necessary habitat and nutrients required to survive and multiply.



Water Hygiene Services

Tank cleaning and disinfection

Cold water storage tanks can, if allowed to become contaminated with silt or biofilm, lead to the growth of bacterial and other organic bodies within the system. To discourage bacterial growth these tanks must be designed and installed correctly and be kept clean. Inspection, cleaning and disinfection requirements can vary according to the nature/application of the tanks, but AEC can inspect, advise and undertake the cleaning of tanks and the associated supply systems if required.



Calorifier blowdown services

Calorifiers (hot water cylinders) can be a significant risk area within a water system. The calorifiers can increase the rate of bacterial growth if their temperatures are not closely managed and can accumulate a significant build-up of sludge, rust and detritus at their base through normal operation.

Larger calorifiers with access hatches should be physically cleaned on an annual basis in a similar way to cold water storage tanks. However, a large number of calorifiers do not have access hatches fitted and rely on draining the 'sludge' at the bottom of the cylinder through activation of a drain valve. This process is called a 'blow down'.



Outlet flushing

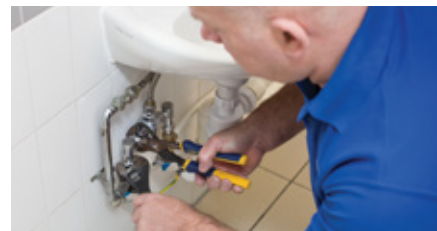
Outlets that are rarely used (often referred to as 'dead-legs') can result in stagnant water standing in the supply pipework where bacterial levels can increase significantly. Some of these are by design (e.g. safety showers, which we hope we don't have to use!) but other are just outlets that we use rarely such as a distant outside tap. To prevent stagnation AEC can include outlet activations as part of a water hygiene programme of visits.

Water sampling and analysis

Water sampling is required on specific types of water system (e.g. industrial cooling systems, potable water storage tanks etc) and can be an optional requirement on other systems if concerns are raised over the condition of that water system. AEC can undertake the sampling of water systems for a range of parameters including Legionella, total bacterial count, coliforms, e-coli etc. as required. Analysis is to UKAS standards.

TMV servicing

Thermostatic mixer valves (TMV's) are used commonly to blend hot and cold water supplies and deliver water to outlets at a safe temperature (typically 41°C to 43°C for hand washing). These are commonly applied for safety reasons and to prevent scalding, especially in areas where vulnerable or infirm persons are using the water supplies (e.g. sheltered accommodation, hospitals etc.). It is strongly recommended that TMV's are serviced on an annual basis.



Closed system monitoring

AEC can undertake the monitoring and dosing of closed water systems such as heating and chilling systems. This service is designed for system maintenance primarily and can increase water system efficiency and lifespan.

Cutting fluid sampling

AEC can offer the sampling of cutting fluids to clients. This is partly for Legionella risk as the cutting fluids can harbour the Legionella bacteria and create an aerosol during the use of lathes and other cutting equipment. However, this service is also required under the COSHH regulations as other microbiological agents can be present in cutting fluids (such as pseudomonas) that can result in skin and eye infections. Bacterial levels are typically monitored using dip slides that can identify the levels of bacterial activity and indicate when replacement or dosing of the fluids is required.

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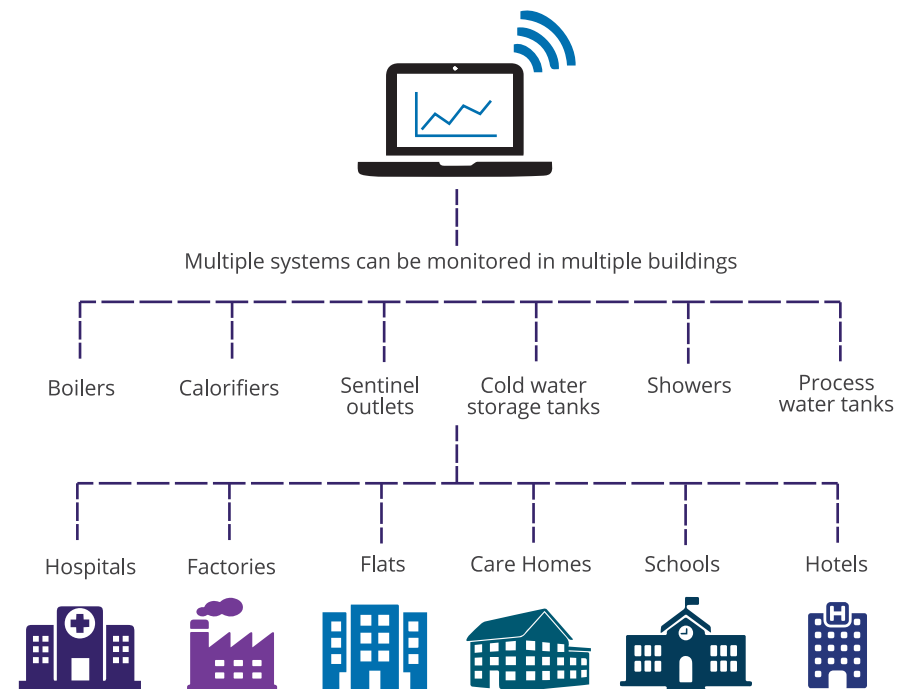


Remote Temperature Monitoring

Remote temperature monitoring is a highly innovative and cost effective way to manage multiple water systems. The technology offers solutions in remote and difficult locations to ensure you meet current ACoP L8 guidance and regulations. Remote monitoring tracks your results 24 hour a day, 7 days a week.

Benefits of the system

- Reduces labour costs
- Reduces manual site visits
- 4G Wireless technology
- Web based system which can be accessed 24/7
- Hot & cold domestic systems
- Unlimited users
- Email alerts for non-compliance
- Produces monthly reports
- Full audit trail
- Daily trend analysis
- Hardware and software supplied
- Can be used alongside manual checks



Legionella Training Courses

P900 - Legionella: Maintenance and Testing of Control Measures for Domestic Hot and Cold Water Systems

This course provides a basic knowledge of the origins of Legionella and the factors which allow it to proliferate in man-made water systems. It also provides awareness of the legal requirements, approved codes of practice and best practice in the control of Legionella and the basis of competence of operatives and undertaking monitoring of domestic water systems.

Duration 1 day

P901 - Legionella: Management and Control of Building Hot and Cold Water Services

This course mainly deals with water and air conditioning systems in buildings. However, it can be tailored as required to include specific plant or systems such as humidifiers, cooling towers, and miscellaneous process systems in industrial settings.

Duration 1 day

We also offer bespoke training that is tailored to suit your business needs and can be delivered at any time, in any location

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P903 - Legionella: Management and Control of Evaporative Cooling and other High Risk Industrial Systems

This course provides a background and an overview of the risk of Legionella infection and how it can be controlled in evaporative cooling and other high-risk systems.

Duration 1 day

P904 - Legionella: Management and Control in Leisure, Display, Therapy and other Non-Industrial Water Systems

This course provides a background and an overview of the risk of Legionella, an overview of the risk of Legionella leisure, display, therapy and other non-industrial systems.

Duration 1 day



The Chartered Society for
Worker Health Protection

Legionella Awareness

This course is suitable for any persons wanting to gain an understanding of Legionella and how to prevent or control the risk of exposure to Legionella bacteria.

Duration 1/2 day

