

# World-leading monitoring technologies

Modern Water Monitoring is expert in the design, development and provision of analytical instruments and technologies for monitoring toxicity, trace metals and environmental contaminants in water, soil, food and industrial process streams.



## Toxicity

Our online, portable and laboratory systems use bioluminescent bacteria to perform biosensor testing to detect the presence of toxic substances.

## Environmental

Our portfolio of environmental products includes immunoassay test kits and accessories for the quantification of contaminants onsite.

## Trace Metals

Our online and portable instruments provide the perfect solution to monitor and control metals discharged from industrial processes or naturally occurring in aquifers.



MODERNWATER

[www.modernwater.com](http://www.modernwater.com)

# Microtox®

recognized as the  
gold standard for  
toxicity testing

# Toxicity

Our Microtox® Series includes the Microtox® LX which is the industry standard for laboratory-based rapid toxicity screening and analysis. Microtox® FX is a field portable, acute toxicity analyzer which utilizes the Microtox® technology. Microtox® CTM is a site based, broad range continuous toxicity monitor (CTM).

**Microtox® LX** The Microtox® LX analyzer is a laboratory-based, temperature-controlled, self-calibrating photometer that measures acute toxicity. Microtox® rapid toxicity detection is an in vitro test system that uses bioluminescent bacteria for the detection of toxicity and is used as a screening system to detect the relative toxicity of a sample.

**Product features include:**

- Biological early warning system sensitive to more than 2,700 different simple and complex chemicals
- Results available in as little as 15 minutes after reconstitution incubation period
- Cost effective and easy to perform tests
- Complies with ISO 13348-3:2007 (luminescent bacteria test)
- Correlates with other widely accepted toxicity methods.



## Microtox® CTM



- Real-time and truly continuous monitoring
- 4 week, autonomous operating cycle
- No manual intervention except for monthly maintenance
- Automatic diagnosis of system faults
- Remote control, data analysis and troubleshooting
- Detects thousands of chemical compounds with lower levels of detection than most other biosensor systems

## Microtox® FX

A simple, rapid and extremely responsive portable toxicity analyzer using Microtox® technology.

Microtox® FX uses bioluminescence technology to screen for both acute toxicity and microbial contamination (ATP method).

- Sensitive to more than 2,700 different chemicals
- Results available in 5 minutes after reconstitution incubation period
- Microbial detection level in drinking water 100 cfu/mL
- Excellent correlation with HPLC and GC methods
- Cost effective and fully portable



Solid state electrodes perform voltammetry for the analysis of metals

# Trace Metal Monitoring

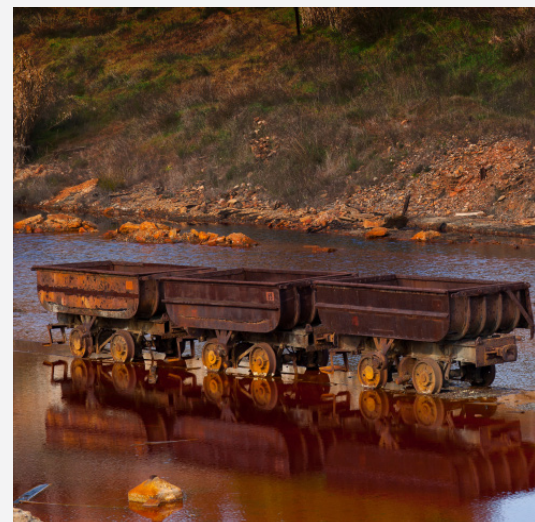
Modern Water's trace metal product range includes the portable MicroTrace PDV and the on-line, continuous systems: the OVA7100 and the OVA7100 Dual Cell. Our technology is robust and reliable, can be operated by technicians anywhere in the world and is relatively low maintenance.

## MicroTrace PDV - Portable Laboratory Monitor

The MicroTrace PDV is an ideal tool for site monitoring and laboratory use, offering an enhanced measurement range and VAS software for real time visualization of analytical results.

## OVA Systems - 24/7 Online Monitoring

The OVA is a fully automated on-line metal monitor; developed as a modular system, to provide continuous or intermittent monitoring of metals in process streams, effluent discharges, river and potable water. The OVA is based on internationally recognized voltammetry (ASV and CSV) technologies, which provides quick and accurate determination of metals at the micrograms per liter level, directly comparable with laboratory analysis using AAS or ICP.



The benefits of our trace metal analysers include:



- Market leading customer support service and user training via Modern Water
- Ability to react to unexpected events and protect reputation
- Improves treatment efficiency and lowers operating costs
- Modern Water provides a range of standards, electrolytes and other reagents



## Applications

- Municipal and industrial wastewater
- Manage dosing of flocculants
- Power plant flue gas condensate
- River water monitoring
- Drinking water
- Mine leachate
- Municipal incineration wastewater
- Automobile manufacturing effluent
- Copper, lead, zinc smelting
- Manufacturing effluent in the electronics industry
- Contaminated land/ ground water remediation

# Environmental Monitoring

Our Environmental range of products use immunoassay test kits to selectively identify environmental contaminants such as PCB, pesticides and petroleum hydrocarbons.

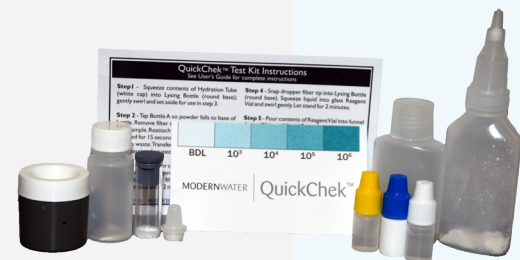
## Test Kits

We offer a wide variety of test kits which include the following product ranges: EnSys; EnviroGard; RaPID Assay and QuickChek.

The RaPID Assay and EnviroGard range offer rapid field or laboratory analysis using immunoassay. The methods are used for soil and water analysis during remediation assessments, measuring pesticide run-off or for industrial processes.

QuickChek SRB is an immunoassay format for the detection of sulfate reducing bacteria in water and other media.

Many of the Modern Water test kits have EPA SW-846 Method Approvals or meet the ASTM requirements for SRB analysis.



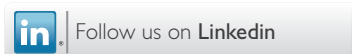
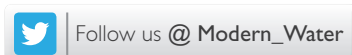
## General enquiries

T: +1 302 669 6900

T: +44 (0)1483 696 030

E: [info@modernwater.com](mailto:info@modernwater.com)

[www.modernwater.com](http://www.modernwater.com)



MODERNWATER

