

ENVIRONMENTAL EXPERTISE & TECHNOLOGIES

A New Vision for a New World

sales@fwc.com www.fwc.com

Our highly experienced staff offer effective solutions to any environmental problem, large or small.

The four elements of ancient Greek philosophy: air, earth, water and fire form the environment in which we move to operate and develop our technologies.

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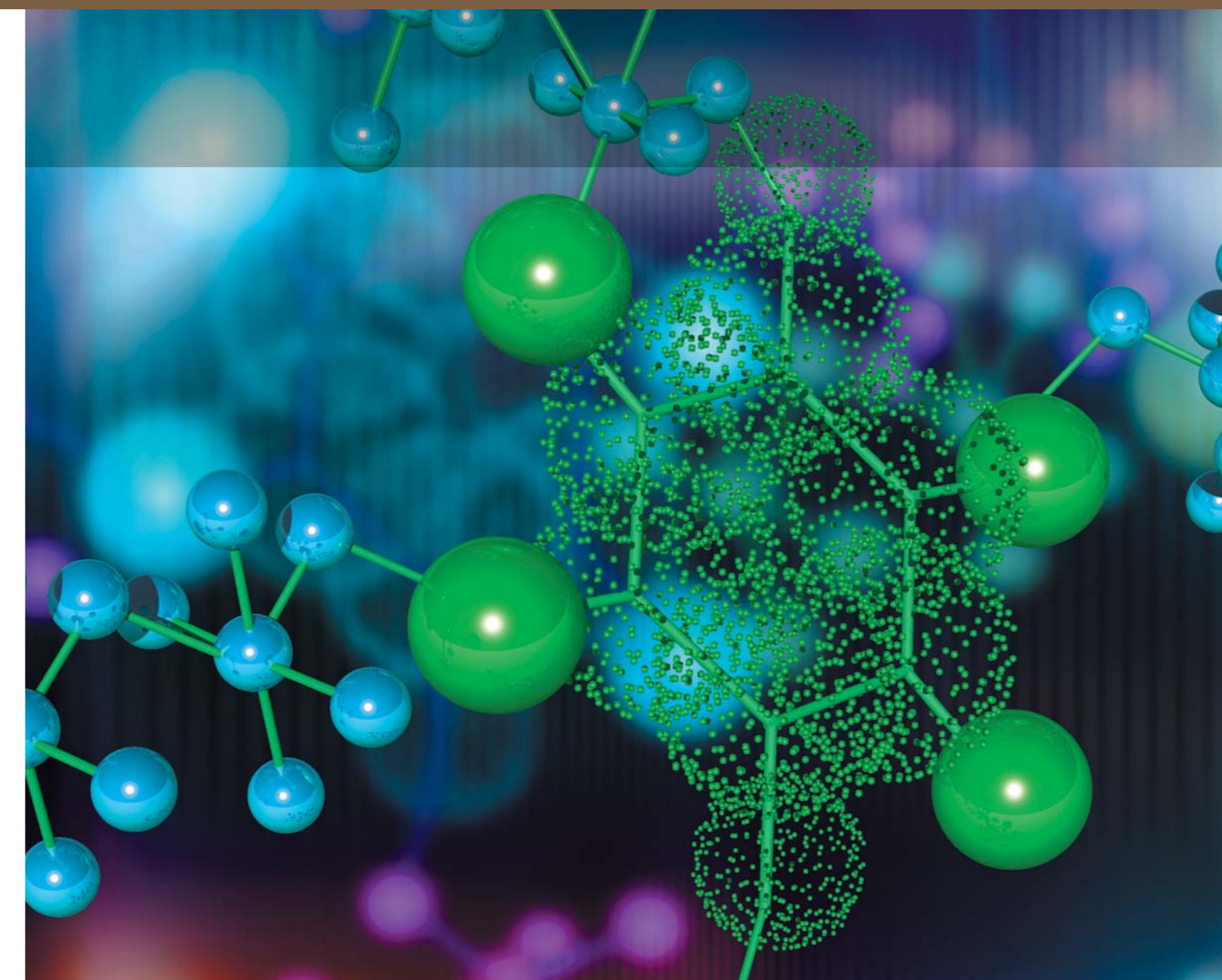
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Environmental Challenge

In recent years, public concern and legislative pressure have given unprecedented importance to the environmental issues surrounding all industrial activities. Foster Wheeler has responded to this challenge by developing a complete range of environmental services aimed both at enabling customers to assess and minimise the environmental impact of the projects they undertake, as well as providing effective and innovative remediation programmes for contaminated sites.

Provided through our specialist arm, Foster Wheeler Italiana - Environmental Division, these services include:

- Regulatory compliance and permitting
- Environmental consultancy to legal, insurance and bank institutions
- Audit and due diligence for M&A
- Environmental impact assessment
- Site investigation
- Site decontamination and decommissioning
- Computer modelling: hydraulic, hydrogeological and air dispersion
- Geographic information systems (GIS) expertise
- Water and wastewater engineering
- Water-treatment systems
- Groundwater treatment and recovery
- Pilot testing
- Hazard identification
- Toxicity assessment and studies
- Environmental risk assessment and risk management



Air Quality

We provide comprehensive air quality studies and assessment services. Our air sciences specialists assist clients in complying with local and state regulations, developing efficient emission control strategies, and responding to emerging regulatory requirements, such as air toxics and risk management plans.

We are leaders in the application of state-of-the-art information management and control technologies to ensure the most cost-effective solution for our clients.

AIR



We provide:

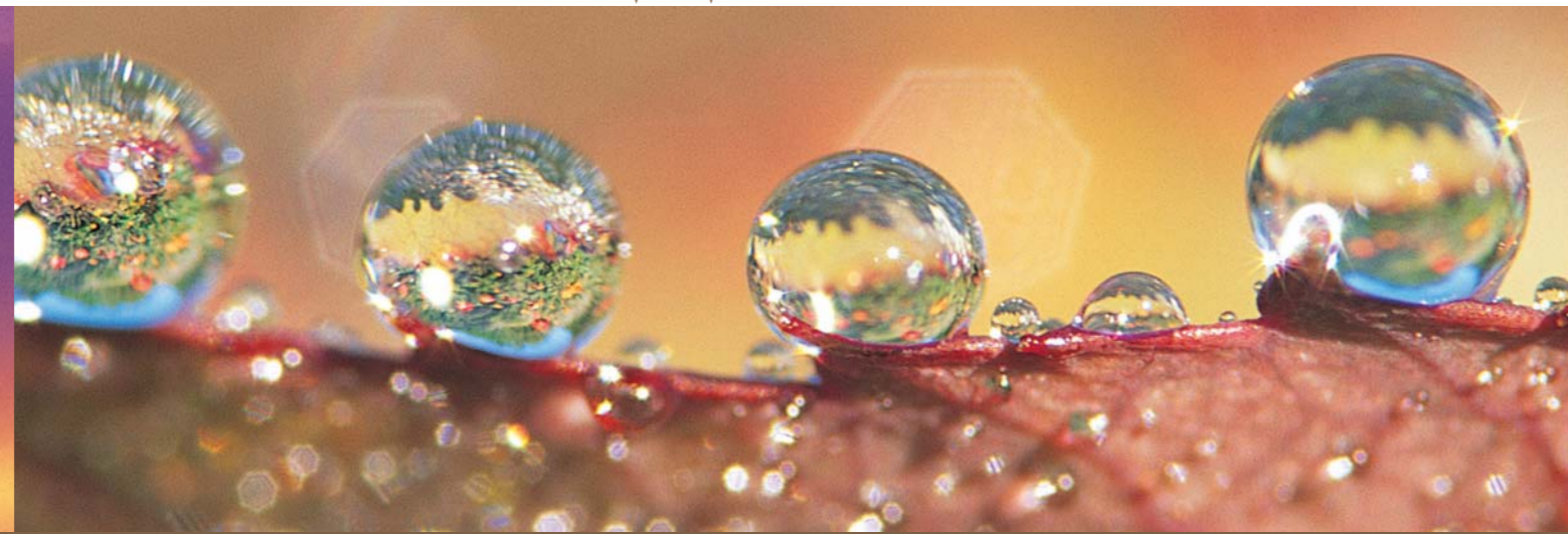
- Air pollution control
- Permitting services
- Ambient and emissions sampling and monitoring
- Dispersion modelling
- Air toxics sampling and reporting
- Special studies

Wastewater Engineering

We provide complete conceptual and detailed design for any type of wastewater treatment scenario. This engineering expertise continues through the start-up phase to ensure smooth and efficient operation. We offer engineering leadership in a wide range of applications:

- Pilot testing
- Wastewater treatment
- Stormwater management
- Groundwater monitoring and treatment
- Treated water re-use

WATER



Natural Resource Management

We offer consulting services for all aspects of the natural sciences, ranging from wetland inventories and mitigation plans to basin-wide river system and ecosystem studies. Many of these services utilise specific tools such as GIS to fully assess system-wide impacts.

Our water resources specialists provide technical expertise in fisheries and aquatic biology. We have studied marine and fresh waters throughout the world, focusing on fish population assessment, fish habitat assessment and mapping, habitat mitigation and enhancement, and aquaculture development planning.

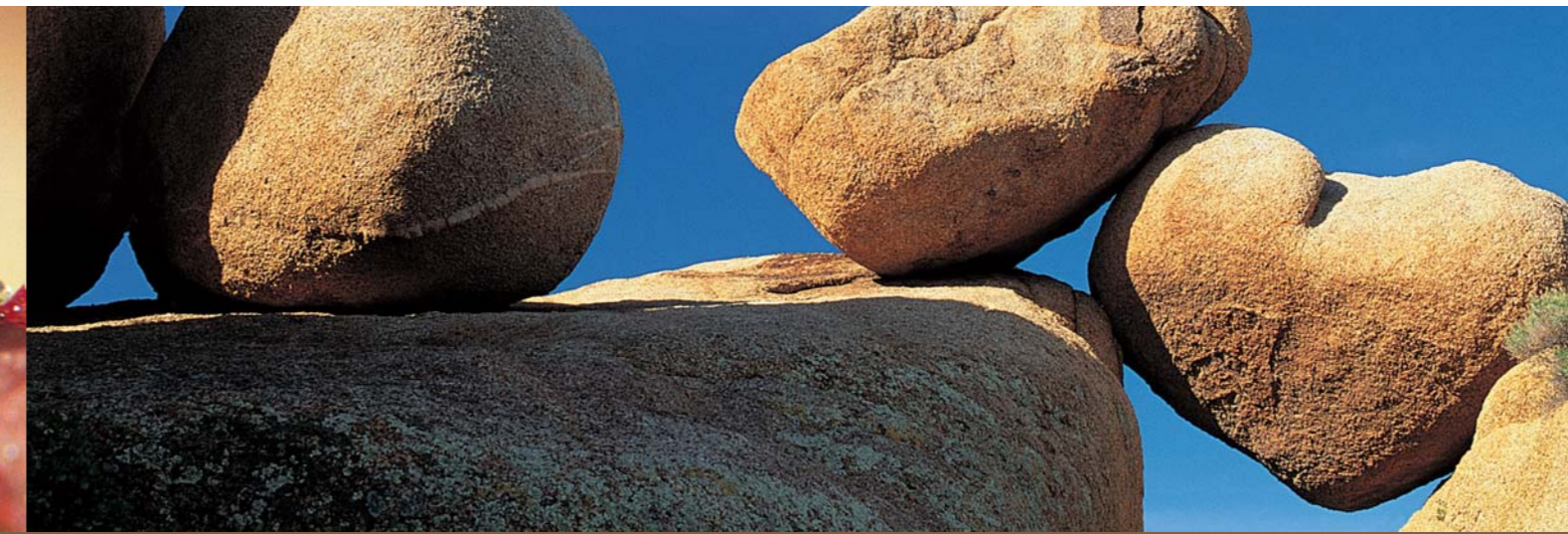
Our watershed process specialists design and implement studies internationally, many of which involve comprehensive analyses of hydrology, habitat, erosion, streams and sediment control.

Remediation Technologies

We are one of the world leaders in applying state-of-the-art remedial technology, both ex situ and in situ, including conventional and innovative technologies:

- Thermal treatment
- In situ oxidation
- Slurry walls and capping
- Encapsulation and in situ treatment
- Soil vapour extraction
- Soil washing
- Bioventing
- Bioslurping
- Vacuum-enhanced multi-phase recovery
- Biosparging
- Natural attenuation
- Land farming
- Pump and treat
- Sheet piling
- Inertisation/stabilisation

EARTH



Environmental Risk Assessment

We offer a complete range of services for evaluating the effects of physical and chemical impacts on the environment and on human health.

We employ innovative techniques to conduct ecological risk assessment, maintaining compatibility with all current trends and disciplines. Our full-phased eco-risk approach includes:

- Hazard identification
- Receptor characterisation
- Site characterisation
- Exposure assessment
- Toxicity assessment
- Fate and transport modelling
- Risk characterisation
- Habitat evaluation
- Population studies

FIRE



Why are we dealing with fire?

We use this element to protect our environment! When, for example, we are engaged in a soil remediation project with large quantities of hydrocarbon contaminants to be eliminated in a short time, we utilise the well-proven thermal desorption technology.

The soil is treated in a special furnace at medium or high temperature, depending on type and degree of contamination. The cleaned soil can then be re-utilised in situ or ex situ without further risk to human health.