# WATER QUALITY MONITORING

## QUALITY THROUGH INNOVATION AND DESIGN

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Energy, Water, Environment.
Global Sustainable Solutions.

# 17 Water Quality Monitoring – Aqualert On-Line System

ENEA Grupo® is offering our advanced Aqualert On-Line Water Quality Monitoring System, ready to measure all the key constituents and Physico-Chemical parameters of water such as:

Dissolved Oxygen • Conductivity • Salinity • Temperature • pH • ORP • Turbidity • Nitrate • Ammonium • Chloride • Rhodamine • Blue-Green Algae • Chlorophyll • Biological Oxygen Demand (BOD) • Chemical Oxygen Demand (COD) • Total Organic Carbon (TOC) • Total Suspended Solids (TSS) • Spectral Absorption Coefficient (SAC254) • Polycyclic Aromatic Hydrocarbons (PAH) • Aromatic Hydrocarbons (BTX) • Crude Oils • Refined Fuels • Metals • Toxicity.

*Multiparameter Water Quality Probe Model GEO-MS5+*

The Aqualert-On-Line water quality monitoring analyser operates in a continuous mode installed as a fix station, recording all measures and transmitting data in real-time via GPRS/3G cellular Network, INMARSAT Satellite or by Radio-Link to a Central Receiving Station. Also it can be connected to a local SCADA via Ethernet/Fiber Optic link.

Typical applications of the Aqualert-On-Line System are:

- Water quality monitoring of Industrial Effluents
- Wastewater Treatment Plants
- Water quality monitoring of rivers, lakes, reservoirs and estuaries

Central Pollution Control Authorities of countries and regions have now the possibility of implementing efficient water quality monitoring networks for real-time control of water discharges into rivers and lakes by industrial plants or sewage treatment plants. Also to gather information to design specific pollution prevention/remediation programs, to characterize waters and identify changes or trends in water quality over time or for responding to emergencies, such as spills and floods.

Data collected by state, local and federal agencies and private entities are needed to build the assessments needed to make better pollution control decisions. Without data, simply it is not possible to know where pollution problems exist, where it is required to focus pollution control energies, or where progress in water quality has been effective.