

SOLID-STATE MONITORING



AATA International, Inc. provides the latest in solid-state meteorologic, hydrologic, and water quality monitoring systems. Advances in computer technology now allow for continuous recording of many important environmental parameters.

The AATA ultrasonic hydrologic monitoring station is the newest innovation for non-invasive gaging of rivers, lakes, and streams. The system combines the rugged reliability of the Campbell Scientific CR-10 datalogger and the new Lundahl ultrasonic sensor for continuous stage-height recording--continuous recording with absolutely no submerged instruments, no pressure transducers, and no stilling wells.

AATA assists clients with design and implementation of remote stormwater sampling systems which are flow-actuated and flow-proportional. New programmable auto samplers are deployed at strategic locations to acquire representative water quality samples for assessment of non-point sources and stormwater quality.

Typical Parameters Monitored

Meteorological

Wind speed
Wind direction
Temperature
Relative humidity
Solar radiation
Precipitation

Hydrological

Stage Height
Velocity

Water Quality

Temperature
pH
Dissolved oxygen
Conductivity/salinity
Specific ion probes

Air Quality

AATA assists clients in designing and implementing air quality programs which incorporate the following characteristics:

- √ definition of baseline conditions
- √ assessment of potential air quality impacts
- √ assurance of compliance with environmental regulations
- √ assessment of environmental management plans

Meteorological and ambient air monitoring are designed and sited to incorporate the requirements of the country in which the project is located, and also the specific needs of our clients. The monitoring plans are designed to be flexible to meet the changing needs and nature of an operation, and the variable nature of the surrounding environment.

Typical Air Quality Parameters Monitored

- √ Particulate matter (PM)
- √ Particulate matter with a diameter of less than 10 microns (PM-10)
- √ Sulfur Dioxide (SO₂)
- √ Nitrogen Oxides (NO_x)
- √ Ozone
- √ Carbon Dioxide
- √ Other air pollutants

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