

AATA SURFACE WATER ACTION TEAM

AATA INTERNATIONAL, INC. (formerly Advanced Aquatic Technology Associates, Inc.) provides a wide array of interdisciplinary watershed management support services to local, county, state, and federal entities, as well as large-scale land owners and industrial organizations with watershed management challenges. AATA's approach to integrated watershed management involves a wide range of discipline specialists, from hydrologists and water quality specialists, to fisheries biologists and microbiologists, for encompassing the entire physical, chemical, biological, and socio-cultural spectra involved in this type of work.



The Integrated Watershed Management Approach requires careful application of many different scientific disciplines in a framework that can be understood by all stakeholders. This requires strong communication skills. AATA's Web-based environmental management approach provides an excellent medium to illustrate, educate, and inform watershed stakeholders at all levels.

AATA staff possess professional experience in an extensive variety of watersheds throughout the United States and around the world, from high elevation mountains to sweltering equatorial jungles. In the United States, AATA staff have completed projects in nearly all 50 states over the past 26 years. We invite your inquiries and serious consideration as you advance your watershed management program. The following summarizes some of the important watershed management and protection services offered by AATA INTERNATIONAL, INC.:

- ◆ **Watershed characterization and evaluation**
 - ◆ Hydrology, geohydrology, geology, soils, topography, mapping
 - ◆ Water quality, point and non-point source pollutant identification
 - ◆ Ecotoxicology, fate and transport of pollutants, impact and risk
 - ◆ Aquatic and terrestrial resources, riparian zones, critical habitats
 - ◆ Threatened and endangered species, sentinel species, commercial species
 - ◆ Land use - native, agricultural, industrial, municipal, infrastructural
- ◆ **Watershed vulnerability assessments**
 - ◆ Identification of major watershed threats-physical, chemical, biological, anthropogenic
 - ◆ Probability assessment for selected parameters - metals, organics, pesticides, sediment
- ◆ **Reservoir management programs**
 - ◆ Functional limnology review, eutrophication control, biomanipulation
 - ◆ Phytoplankton, zooplankton, benthos, fish, molluscs, other wildlife
 - ◆ Water quality modeling, evaluation of reservoir operational scenarios
 - ◆ Hydropower, instream flow, downstream impacts, and other analyses

Watershed Management Support Services

- ◆ **Evaluation of alternative land use decision options - modeling and prediction**
 - ◆ Forestry, agriculture, industrial development, subdivisions, highways and bridges
 - ◆ Mining, land clearing, reclamation, remediation, and restoration activities
- ◆ **Integrated Watershed Management and Protection Program Development**
 - ◆ Identification and prioritization of alternatives, integration of best management practices
 - ◆ Erosion and sediment control options, economic and environmental review
 - ◆ Stormwater and non-point source control strategies, nutrient control strategies
 - ◆ Total Maximum Daily Load determinations/Waste load allocation programs
 - ◆ Advanced Geographic Information Systems (GIS), video mapping, remote sensing analysis
- ◆ **Watershed Monitoring Programs**
 - ◆ Hydrology, geohydrology, water quality, aquatic and terrestrial ecology, bioindicators
 - ◆ Ecotoxicological, radiological, microbiological, entomological, ichthyological programs
 - ◆ Solid-state monitoring systems, flood warning, gaging stations, water quality monitors
 - ◆ Meteorological and air quality stations, precipitation monitoring, airborne transport
- NEW!** ◆ **Web-based watershed management systems**
 - ◆ Stakeholder identification, evaluation, recruitment, and communication
 - ◆ Documentation, illustration, demonstration, communication
 - ◆ Stakeholder outreach and disclosure, non-governmental organizations (NGOs)
 - ◆ Watershed training program evaluation and development

Look to **AATA INTERNATIONAL, INC.** for all of your watershed management support requirements, from current compliance to comprehensive web-based watershed management systems. AATA staff have the experience and track record to help you with any watershed management problem. Call the AATA Surface Water Action Team of watershed management experts today!



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