WATER QUALITY **MANAGEMENT**

Managing water is a critical part of modern life. We rely on the availability of quality water resources, whether they are derived from surface water or groundwater regimes. Our needs focus our attention on the practical aspects, such as reservoir storage, dam safety, flood control, and erosion protection. At the same time, we must respect the environmental aspects, such as water quality protection and restoration, to ensure that we have an abundant supply in the future. All the while, we work within the regulatory framework that is focusing more and more on water allocation permitting, discharge limitations, and the enhancement and restoration of natural waterway conditions.

KU Resources has completed a wide variety of water resource management projects at various sites throughout the region. Our support generally focuses on environmental engineering, technological and regulatory issues, design, and implementation. The majority of our clients require these services to accomplish their project objectives.

The industry is continuously changing today in response to the dynamic regulatory requirements, which is anticipated to continue for many years to come. Accordingly, we assist our clients through this often complicated process of designing their water resource management program and integrating that design with their current business practices. For each project, we begin by quickly evaluating the subject site from a water resource management perspective in order to identify potential fatal flaws that may significantly impact a project. Thus, we have developed a reputation in the industry as a valuable resource during all phases of the project.

WATER RESOURCE MANAGEMENT SERVICES

We create practical, cost-effective solutions to water resources management. We have assisted our clients through various projects including:

- Dam Design and Permitting
- Dam Safety Inspections
- Dam Breach Analyses and Emergency Action Plans
- Hydrologic and Hydraulic Evaluations and Design
- Stream Bank Stabilization
- Stream Quality Assessment/Restoration
- Reservoir/Impoundment Design
- Water Utilization Modeling/Planning
- Floodplain Analyses
- Bridge/Culvert Inspections and Replacements
- FEMA Letters of Map Revision
- Water Obstruction and Encroachment Permits
- Water Quality Assessments
- Watershed Studies
- Water Resource Management