



INNOVATIVE ENGINEERING SOLUTIONS





Our mission is to help our clients succeed at improving communities by providing them with the most innovative and responsible engineering solutions at the highest level of service

# AQUA Engineering

We are a highly qualified group of professionals focused on providing innovative engineering solutions for public and private sector markets nationwide.

Since 1992, our clients have looked to us for our quality services and outstanding ability to solve complex engineering challenges and achieve affordable results in the areas of water & wastewater treatment, municipal services, environmental services, construction management, asset management & master planning, and resource recovery.

Our team of experienced engineering professionals are dedicated and committed to helping our clients accomplish their project goals while protecting the environment and enhancing the quality of life for the people in our communities.

We seek out opportunities to work with others who share our vision for success and promise to give you the best engineering experience possible on every project. We believe that together, we can create a bright and prosperous future.

We look forward to building a rewarding relationship with you.

# An engineering firm unlike any other

A leadership team who has the experience and skills to get the job done right  
and is fully committed to your success



L. Scott Rogers, PE



Brad Rasmussen, PE



Justin Logan, PE



Darin Hawkes, PE



Bob Frachetti, PE



Boris Petkovic, PE



Mark Jeppsen, PE



Allen Rogers, PE



Ryan Pack, PE



Mark Taylor, EIT



A company built upon the highest standards of excellence

An expansive presence for serving clients nationwide, both big and small



Innovation



Experience



Responsiveness



Efficiency

AQUA/SKM Project Sites





Every day, we have the exciting opportunity to  
transform our communities for the better

# Our Areas of Expertise

The most advanced technologies and engineering solutions in the industry



Water & Wastewater  
Treatment



Municipal  
Services



Water  
Resources



Construction Services /  
Alternative Delivery



Asset Management /  
Master Planning / GIS



Resource Recovery /  
Renewable Energy



## Water & Wastewater Treatment



AQUA delivers cost-effective, innovative solutions in the areas of Water and Wastewater Treatment; from master planning and feasibility studies to complete engineering design and construction management services for both public and private facilities. AQUA's experience in water and wastewater treatment engineering goes well beyond textbook designs and is based on decades of troubleshooting treatment facilities, talking with operators, and providing innovative solutions that can be easily commissioned and operated. With hundreds of successful projects, we have the experience that rivals much larger, nationwide firms. Our designs focus on resource recovery by reusing treated effluent for industrial and municipal needs, and reclaiming biosolids and nutrients for use in the agricultural and landscaping sectors. With the goal to conserve our valuable resources we have implemented cutting edge technologies such as Membrane Bioreactors (MBR), Integrated Fixed Film Activated Sludge (IFAS), Granular Sludge, nutrient removal using algae, advanced anaerobic digestion technologies, nutrient recovery technologies, and biosolids to fertilizer processes. Our water treatment plant designs utilize the latest in membrane processes, taste and odor control equipment, and advanced disinfection systems.

### Capabilities Include:

- Master Plan Development
- Facility Planning and Funding
- Pilot System Design and Operation
- Process Evaluation and Selection
- Facility Design
- Plans & Specifications Development
- Bidding Services
- Construction Observation and Management
- Commissioning
- Discharge Permit Applications and Renewals
- Environmental Compliance
- Water Reuse
- Biosolids Management
- Energy Efficiency Studies
- Operations Training
- Operations Manual Development
- Operations Troubleshooting
- Industrial Pretreatment Programs
- Permit Violation Mitigation
- Treatment Plant Siting



Blue Boutique

Adult Gift Shoppe, Clothing, Gifts,  
Cosmetics, Music, Books and More

El Paso  
Resort  
Boulevard

# AQUA Engineering Solutions

## Municipal Services



Each city, county, and service district has their own unique challenges as it strives to meet the needs of its rate payers. Our goal is to learn and become familiar with these challenges and to find solutions that best fit your circumstances and operations. We listen to your ideas and needs instead of imposing our solutions on you. AQUA has established a reputation for designing municipal infrastructure and facilities that are maintenance friendly and cost effective. In need of project funding? Our staff has experience securing project funding from many federal and state and private agencies. Let us help you solve your infrastructure challenges.

### Capabilities Include:

- Mapping & Modeling Utilities
- Master Planning
- Road Systems Design
- Construction Standards Development
- Construction Specifications
- Water Resources
- Solid Waste Disposal Landfills
- Transfer Facilities
- Capital Facility Planning and Impact Fee Analysis
- Subdivision & Land Development
- Environmental Compliance
- Parks & Recreation
- Streets & Boulevards
- Storm Drainage Systems
- Sewer Collection
- Water Distribution and Storage
- Grants and Loans Applications



# Water Resources



We provide water resources solutions for cities with water supply, irrigation, water control, and waste disposal needs. Our engineers have the expertise to deliver consulting services that best use resources and provide the data and insights for conserving and distributing water resources to communities.

## Capabilities Include:

- Water Quality Studies
- Master Plan Development
- Facility Structure Design
- Groundwater Development
- Spring Development
- Water Rights
- Transmission Pipelines
- Water Storage
- Water Source Protection
- Groundwater Hydrology
- Water Conservation Plans
- Distribution Systems
- Booster Pumping
- Irrigation/Secondary Water





## Construction Services / Alternative Delivery

AQUA has provided construction management and observation services for many municipal and private projects throughout the western United States. In addition, we have also delivered projects to our clients using alternative delivery methods such Construction Management General Contractor (CMGC) or also called Construction Manager at Risk (CMR). The level of service is tailored to the requirements and needs of our clients. AQUA can provide project bidding services, submittal / shop drawing review, contractor pay request review, and conduct project coordination and progress meetings. AQUA can also provide project inspection, quality control, and specification compliance services. AQUA believes in resolving project construction issues in a timely manner, saving both the owner and contractor time and money. As the owner's agent, we can also deliver projects utilizing alternative delivery methods to save time and money according to project needs.

### Capabilities Include:

- Construction Management and Observation
- Inspection Services
- Commissioning
- Construction Oversight
- Constructability Review
- Construction Estimates
- Alternative Delivery Methods
- Dispute Resolution





## Asset Management / Master Planning / GIS

We design, implement, and deliver real-world asset management, master planning, and GIS solutions. These tools help infrastructure owners and operators collect, analyze, and share critical business information for reaching optimal performance of their facilities and getting more resilient and sustainable infrastructure. Additionally, these tools assist infrastructure owners in managing long term infrastructure as they prepare for future needs and improvements.

### Capabilities Include:

- Geographic Information Systems (GIS)
- Computerized Maintenance Management Systems (CMMS)
- Systems Architecture
- Software Integration
- Spatial Analysis
- Strategic Planning
- Technology Implementation
- Asset Condition Assessment Risk Determination
- Maintenance Planning

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- Land Use
- Zoning
- Transportation
- Recreation
- Environmental
- Historic Preservation
- Municipal Land Use Ordinance Development
- Development Review
- Annexation





## Resource Recovery / Renewable Energy

Natural resources are precious and limited. Using them wisely, and reclaiming or recovering them for reuse is essential for the continued habitation of our planet. Besides incorporating energy efficient designs, we also incorporate technologies into our designs that allow us to harvest energy from sources that would typically be wasted. Our list of projects is extensive, including the design of waste to energy projects that produce methane gas from municipal bio-solids, animal manure, and food wastes to generate both heat and power. We understand both state and federal programs that provide enhanced payments for renewable energy from waste products. Recently, solar energy has become part of many of our projects. In a recent project we turned biosolids into a fertilizer that is air spreadable. We have incorporated nutrient recovery systems into our designs to recover both nitrogen and phosphorus.

### Capabilities Include:

- Nutrient Recovery
- Biosolids Reuse
- Water Reuse
- Manure to Energy
- LCFS / RIN Markets
- Green Gas Markets
- Biosolids Solar Drying
- Advanced Anaerobic Digestion Technologies
- Biosolids to Fertilizer Facilities
- Energy Efficiency Studies
- Nutrient Recovery using Algae
- Food Waste to Energy
- Photovoltaic Solar Panels

# Client References

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"AQUA is on their eighth project with us in eleven years because they listen and respond"

Springville City

"They listen and give us a personal touch that the large firms never gave us"

City of Jerome

"The engineers and staff at AQUA provide quality services at reasonable prices. We are very pleased with their work and highly recommend AQUA Engineering"

Hyrum City



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