Geosyntec consultants

# INDUSTRIAL WATER

**Geosyntec delivers water services to industrial clients that address every aspect of water integrated management.**

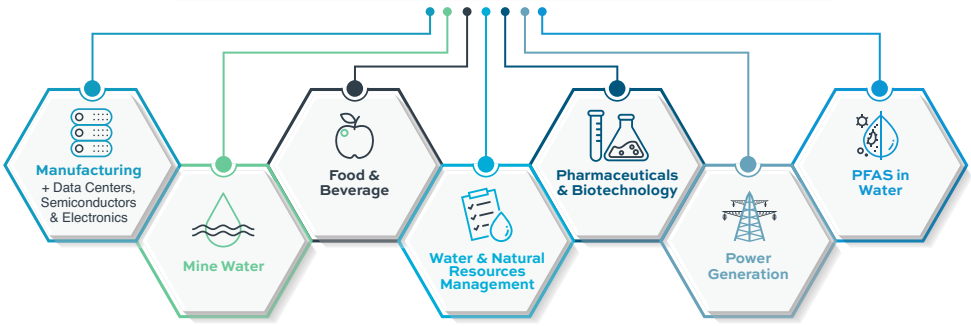
For more information
**geosyntec.com/markets/water-solutions/industrial-water**

We address the unique needs of our clients through staff and organizational flexibility by designing and implementing efficient and effective solutions for many kinds of industrial facilities:

- Aerospace
- Automotive
- Biogas production and optimization
- Chemical manufacturing
- Data centers
- Food and beverage
- Metal casting
- Mining and ore processing
- Pharmaceuticals and biotechnology
- Power and utilities
- Public-sector infrastructure
- Resin manufacturing
- Rendering and agricultural waste processing
- Steel manufacturing
- Waste reclamation

We build sustainable, integrated water solutions for the industrial sector, targeting environmental compliance, operational resilience, and risk mitigation. We help minimize water footprints and optimize reuse, and support water sustainability beyond the plant boundaries into the watersheds and communities.

**Our Industrial Water experts deliver solutions spanning diverse markets, including**




**Geosyntec addresses diverse water and wastewater treatment problems by applying water integrated management. From sourcing and treatment to discharge permitting and compliance, we tailor innovative solutions to your complex water challenges.**

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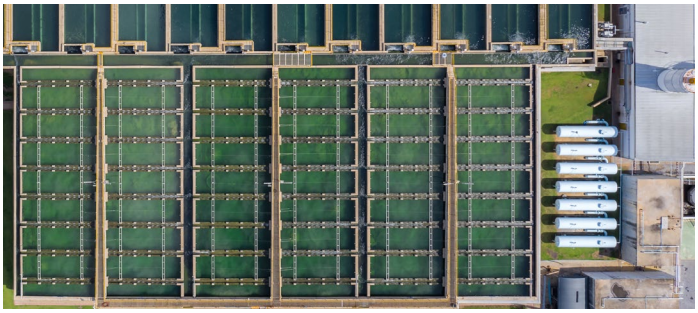

### OUR CLIENTS HAVE ENGAGED OUR SERVICES TO HELP RESOLVE THE FOLLOWING TYPES OF ISSUES:

- Troubleshooting system performance challenges
- Developing sitewide water balances to support client decisions and risk assessments
- Identifying water and cost reduction opportunities
- Optimizing existing wastewater treatment systems to allow for production increases or diversification without major capital investment
- Developing strategies to mitigate increasing sewer discharge costs
- Evaluating potential environmental impacts from proposed changes in operating procedures, production levels, or product formulation
- Upgrading outdated water and wastewater systems and equipment
- Complying with changes in permitting requirements
- Planning for facility expansions, refurbishments, or greenfield developments

### WE APPLY OUR EXPERIENCE AND EXPERTISE TO PROJECTS IN THE FOLLOWING PRIMARY PRACTICE AREAS:

- Water and Wastewater System Planning, Engineering, and Design
- Wastewater Treatment and Residual Solids Management
- Water and Natural Resources Assessment, Management, and Restoration
- Water Supply, Security, and Risk Management
- Water Conservation, Reuse, and Minimization
- Municipal Stormwater Systems and Stormwater Management
- PFAS, Microplastics & Emerging Contaminants in Water
- Odor Mitigation and Litigation Support
- Air Quality Management and Air Pollution Control
- Environmental Management and Compliance
- Sustainability and Environmental, Social, and Governance (ESG)
- Contaminated Site Assessment and Remediation
- Risk Management and Process Safety

## IN-PLANT WATER AND WASTEWATER SOLUTIONS

Processing operations, water use, stormwater management, wastewater generation, and residual management are related issues that call for an integrated solution.

We can select, design, and build best-fit technologies for any type of industrial water challenge. We have a wealth of treatability, water/wastewater process design, construction, and operation experience incorporating physical, chemical, and biological treatment processes. Our experience includes integration of water reuse, pollution prevention, water and waste management, and wastewater treatment optimization into our projects for industrial facilities.

**As a solution partner to your business, we address your technical requirements while minimizing impact to your day-to-day operations. Throughout your supply chain, whether industrial or financial, assembly line or board room, Geosyntec works to increase productivity and value for you.**

## WATER CONSERVATION, REUSE, AND MINIMIZATION

With the increasing scarcity of high-quality water, industrial clients are increasingly conserving and reusing water at facilities, incorporating water reuse and recycling into operations, and implementing integrated wastewater management solutions.

These clients hire us to assess water use and conservation opportunities, study the economic impacts of water conservation and reuse projects, and build sustainable water solutions for the long term. Ultimately, our strategies across the water cycle can improve operating efficiency and financial performance and protect our clients' reputations.

### CLIENTS VALUE OUR BREADTH AND DEPTH OF EXPERIENCE:

- Support for many types of facilities
- Comprehensive methods for water footprint accounting in manufacturing facilities
- Calculation of water footprints for individual processes and products
- Ranking and evaluation of water uses based on cost-benefit assessments
- Options for reducing the water footprint

**By first understanding a facility's water footprint, we can help clients optimize water use. Together, we can then reduce costs for energy, water, and chemicals and achieve water conservation targets.**

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