

EnSafe designs and builds infrastructure and treatment systems for water and wastewater collection, treatment (with residuals management as needed), discharge, and impact evaluations. Our services cover almost all aspects of water management. For municipalities, EnSafe has significant experience in the permitting, design, and operation of wastewater and water treatment, collection alternatives, and drinking water distribution and storage systems. When it comes to industrial wastewater treatment, EnSafe melds our knowledge of fundamental industrial processes with traditional end-of-pipe and advanced treatment technologies, looking for water reuse opportunities at reasonable process and energy cost.

creative thinking. custom solutions.

- Identification and characterization of waste streams
- Development of waste reduction, recycle, reuse, or waste exchange options to minimize final wastewater volume
- Segregation of process and non process wastewaters
- Mass balance of water use and discharge to sewers
- Review of federal/state pretreatment standards for municipal sewer systems or effluent discharge standards for surface waters or storm sewers
- Permit application submittal and negotiation with appropriate local, state and federal agencies
- Development of baseline flow and water quality monitoring of potential receiving streams
- Implementation of physical, chemical, and/or biological treatability studies to establish cost-effective treatment methods such as bench- and/or pilot-scale studies
- Characterization of effluent and sludge from treatment processes
- Development of sludge handling programs, possibly entailing hazardous waste management practices

- Design of treatment facilities, collection systems, pumping stations, etc., and onsite construction coordination
- Start-up of treatment facilities
- Adaptation of treatment design with production plant process changes
- Compliance monitoring to ensure continued compliance with discharge standards
- Computer modeling of the stream impacts from point and non-point sources of wastewater
- Development of wastewater facility plans
- Sewer system evaluation surveys to identify problems with infiltration and inflow in sewer systems and design and construction inspection of sewer rehabilitation projects
- Toxic organic management planning
- Toxicity testing of effluent using both laboratory and in situ procedures
- Toxicity reduction evaluation utilizing biological assay data as a diagnostic tool
- Industrial pretreatment program development and assistance

- From concept to commissioning
- Cost-effective, expeditious solutions
- 38+ years experience
- Coast-to-coast experts

Industrial Wastewater Treatment

- Advanced Separation Technologies
- Energy-Efficient Approaches
- Waste Stream Characterization & Minimization
- Process Troubleshooting & Optimization
- Permit Compliance Monitoring, Consultation, & Negotiation
- Conceptual & Construction Design
- Design-Bid or Design-Build Project Delivery
- Contract Operations

Contact Us

Chris Triplett, PE
(901) 372-7962
ctringlett@ensafe.com

Ginny Gray Davis, PG
(865) 693-3623
ggray@ensafe.com

TEL 800.588.7962