



THE GEA GROUP – WATER SOLUTIONS FOR THE 21st CENTURY

GEA is a multi-disciplined environmental engineering consulting firm specializing in the planning, design and construction of water and wastewater facilities, including sewer systems, pump stations, pipelines, water treatment and wastewater treatment plants, as well as potable water reclamation and large capacity Desalination systems using Membrane Technologies incorporating Reverse Osmosis.

WATER RECLAMATION AND DESALINATION

GEA is in the forefront of new and emerging technologies for water reclamation and energy efficient desalination using Membrane separation and Reverse Osmosis. GEA has designed systems to effectively treat and purify brackish, seawater and contaminated water, making it fit for human consumption and industrial process use. The key to the application of new technology will be the cost-effective pretreatment of marginal water and wastewaters in order to make them amenable and suitable for membrane processing without the deleterious effect of membrane fouling. For Desalination, energy recovery and lower operating pressures along with improved corrosion protection are keys to economical treatment. This is the area where GEA Engineers, with a thorough understanding of water and wastewater chemistry, engineering and technology, provide innovative, proven solutions for cost-effective water reclamation. By conducting pilot testing, analysis and evaluations using computerized water treatment software models, GEA is able to assess treatment needs and provide high performance treatment system designs.



WATER SUPPLY MANAGEMENT

GEA Engineering provides a unique combination of talent and experience offering professional engineering services for the design of water system improvements. The scope of services GEA provides encompasses hydraulic analyses, planning and feasibility studies, pipeline and reservoir storage analysis, water treatment analysis, preliminary and final designs, preparation of contract drawings and specifications, construction cost estimates, time schedule outlines, bid analyses, complete resident engineering services during the construction phase, and development of operation and maintenance manuals, as well as start-up assistance and operator training.

WASTEWATER TREATMENT ENGINEERING

GEA's design capabilities for wastewater treatment facilities and sewerage systems includes plant modifications, expansion, and upgrades as well as design of new facilities and expansion of old facilities. The firm is experienced in the design of treatment plants ranging in size up to 80 million gallons per day (MGD), pump stations up to 35 MGD, and transmission systems, including interceptors, force mains and outfalls, as well as lateral sewers and collection systems. GEA has extensive experience designing activated sludge, trickling filter, rotating biodisc and natural wetland treatment systems.



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