



Water and Wastewater

Water Systems Planning and Design

Wastewater Treatment

Water Reuse

Solid Waste

Solid Waste Management Services

Landfill Engineering and Construction

Landfill Operation and Maintenance



WESTON SOLUTIONS, DUBAI

● SUSTAINABLE SOLUTIONS TO WATER, WASTEWATER, AND SOLID WASTE CHALLENGES



Few environmental issues affect the Middle East as much as the need for intelligent, sustainable management of water and waste. Weston Solutions Global (BVI) Dubai, Ltd. and its parent company Weston Solutions, Inc. (WESTON®) represent 50 years of experience in solving environmental and engineering challenges around the globe.

WESTON can help improve water management efficiency, using highly competent, well-trained teams and diverse technologies to solve the complexities that arise from the scarcity, storage, distribution, quality, restoration, and protection of water. We are also a leader in solid waste technologies, winning awards for our landfill design and construction.

► WATER SERVICES

WESTON is at the forefront of the design-build market, offering total solution services. Harnessing both time-tested methods and groundbreaking technologies, our integrated engineering/design/build expertise allows us to design and implement the best-engineered solutions for water and wastewater and to manage water/wastewater facility assets at a higher efficiency level with long-term benefits. We offer:

- **Water systems planning and design**
- **Wastewater treatment**
- **Water reuse**
- **Water conservation/reuse and sustainability management services**

Sample Projects

- WESTON is currently part of a team working with a client that uses a very large amount of water in a car-washing operation. The team is designing and building a water-reuse facility that, when operational, will allow the client to capture a significant percentage of the wash water, and reuse it after treatment.
- WESTON led a multinational team that researched and analyzed the complete water, sewerage, and drainage systems for the City of Calcutta. We developed a plan of immediate action and provided technical operations assistance to upgrade the city's water utility. WESTON applied trenchless technology to develop pilot sewer pipeline. This project, funded by the World Bank, serves a population of over 12 million people, providing citizens with a safe, reliable supply of potable water and the assurance that wastewater and stormwater will be safely conveyed out of the city.
- WESTON was contracted by the Korean firm Daewoo Corporation to prepare a preliminary design for a 20,000 cubic-meters-per-day water recycling center for an advanced wastewater treatment facility at the Incheon International Airport in Seoul, South Korea.
- WESTON provided concept and final design for an activated sludge wastewater treatment facility that processes 12,000 cubic yards daily.

WESTON SOLUTIONS, DUBAI: SUSTAINABLE SOLUTIONS TO WATER, WASTEWATER, AND SOLID WASTE CHALLENGES

► SOLID WASTE MANAGEMENT

WESTON also understands the challenges of solid waste management, from recycling programs and source waste reduction, through collection, and on to landfill design and operation. With expertise and experience in solid waste management and landfill engineering, construction, operation, and maintenance, WESTON has addressed the needs of numerous clients, at all points along the solid waste stream.

Our integrated approach and innovative technologies can help reduce the amount of solid waste generated and sent to local landfills, support sustainable, environmentally sound management of solid waste, promote fiscally sound practices supported by ongoing planning and performance tracking, and save money. In fact, WESTON has saved our clients more than \$150 million through the application of innovative remedial technologies and approaches. We offer:

- **Solid waste management services**
- **Landfill engineering and construction**
- **Landfill operation and maintenance services**

Sample Projects

- WESTON provided technical guidance to the design, construction, and commissioning of a Hazardous Waste Incinerator for a Western India client. This incinerator receives chemical waste from one of the largest chemical industrial zones in Asia, with more than 1,000 industries manufacturing a wide variety of dyes, pesticides, pharmaceuticals, and other chemicals. The design and performance of this system meets United States and European standards.
- As part of the planning services provided to the organization responsible for the management of a state's solid waste, WESTON helped develop the plan for a broad-based resource recovery system, including waste-to-energy facilities as well as landfills, and also helped develop a solid waste management plan that examined streams that were not part of the systems plan, such as hazardous and infected wastes, with an analysis of current techniques and recommendations for future management.
- WESTON was asked to improve a closure plan for a 13-acre former landfill that included installing an impermeable cap and cover system with a passive venting system. Our solution included numerous value-added features that not only saved the client more than \$100,000 due to materials reuse and recycling, but also provided many "green" solutions.



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