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# FACT SHEET

## USAID/WATER ENGINEERING SERVICES

2021-2026 • \$9.99 million • Partners: SAJDI- Consulting Engineering Center, Ministry of Water and Irrigation, Water Authority of Jordan, Jordan Valley Authority, Ministry of Environment, Water utilities, and municipalities.

### BACKGROUND

Jordan is one of the most water-scarce countries in the world. The already depleting water resources are being strained by a fast-rising population and a changing climate. Jordan's water systems provide comprehensive service coverage throughout the Kingdom; however, water supplies are not always reliable. Water loss is caused by deteriorating infrastructure. Therefore, Jordan needs to expand and upgrade water treatment plants, sewer systems, and wastewater treatment plants to meet rising demands for dwindling groundwater resources and to strengthen the country's water security. As part of its long-standing partnership with the Government of Jordan, USAID has provided support to the water sector in Jordan for over sixty years. Through the Water Engineering Services, USAID promotes the provision of access to safe water services and provides wastewater collection, treatment and reuse.

### PROJECT OVERVIEW

The Water Engineering Services Activity provides engineering and technical support through the rehabilitation and expansion of water and wastewater networks across the Kingdom. The Water Engineering Services Activity will improve water services to meet rising demands through implementing a number of Task Orders including improving water supplies in 23 areas within Amman governorate and Deir Alla, enhancing wastewater collection services in Deir Alla and Petra, upgrading the operational efficiency in both South Amman and Fuheis and Mahes wastewater treatment plants, and increasing the efficient use of the treated wastewater in Amman, Madaba, and Jordan Valley. Through selected training programs, the Activity will help strengthen the capacity of key stakeholders in water and sanitation areas.

PHOTO CREDIT: SAJDI CONSULTING ENGINEERING

## NOTEWORTHY ACHIEVEMENTS

- As part of Task 1, the Water Engineering Services Activity is providing the construction management services to water supply and distribution services to about 2,000 residents of the Amman governorate and upgrading water supply services to approximately 86,000 residents by constructing about 40 km of water pipes. Similarly, Task 3 aims to improve the efficiency of the water supply and distribution system in Deir Allah and Karama areas by doubling the amount of supply from 13,000 m<sup>3</sup>/day to 52,200 m<sup>3</sup>/day by rehabilitating 300 km of water supply lines and constructing eight new water storage tanks. This will help to reduce physical water loss, while also improving the quality and reliability of water services in those locations.
- Task 5 deals with the effluent reuse plan of the South Amman wastewater treatment plant. The 20,000 m<sup>3</sup>/day effluent is a valuable resource of water of which a small portion of it is used for irrigation and most of flows downstream unused. The WES Activity considered different options to efficiently reuse the full amount of the effluent for irrigation and aquifer recharge, taking into account the environment.
- Task 6.1, the Water Engineering Services Activity will design a 20-kilometer wastewater collection network to improve the sanitation services in Petra. As a result of the developed wastewater collection network in those locations, the environmental impact and contamination risk will be significantly reduced. On the other hand, once treated, the collected wastewater will improve the water availability for irrigation in Wadi Musa.
- The Water Engineering Services Activity will expand wastewater treatment capacity and efficiency to better meet national standards in both South Amman and Fuheis and Mahes wastewater treatment plants as part of Tasks 6.2 and 6.3. The effluent quality from the South Amman wastewater plant needs to be improved, while the Fuheis and Mahes wastewater treatment plant is overloaded and needs to be expanded. This will protect the environment, increase the amount of water available for irrigation and enhance the effluent quality from both facilities, as well as reduce the over-abstraction of the groundwater acquirers.
- Build the capacity of the key stakeholders on different topics including Design, Build, and Operate Contracts, Public Private Partnership, Arbitration, and Utility Financial and Risk Management. The training programs will strengthen the capacity of key stakeholders in management, contracts, and operation of water and sanitation projects.

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