الأرض لبنان
TERRE LIBAN
Tentons Ensemble de Réaliser un Rêve pour nos Enfants

PROVIDING WATER TO BEIRUT
THE BEST SOLUTION

WORLD BANK GROUP SGBWSP	BGR JEITA PROJECT

Environmental Impact

The total distance from Lake Qaraoun to regional reservoirs is around **80 Km**. The Nehme dumpsite directly above the watercourse, poses significant **risks of water contamination**	The total Distance form Jeita Spring to Damour Water Treatment Plant is around **20 Km**. Considering the scale of the project, the associated **risks are lower** than those outlined in the World Bank Project.

Cost

The total Project Cost is estimated at

257.8 million USD	30-50 million USD

Water supply

The estimated water supply is

320,000 m³ / day	520,000 m³/ day

Beneficiaries

Approximately **1.8 million individuals** can be served across the Southern Beirut Suburbs, Damour, Kfarshima, and Tallet El Khayat	Approximately **2.6 million individuals** can be served across Greater Beirut and Mount Lebanon

Water quality

High Cost and complexity of water treatment at Al-Wardanieh water treatment plant	**Streamlined and cost-effective treatment** of Dbayeh water treatment

Tariffs

Water tariffs will rise from the current **147 US$/year** to **178 US$/year** to cover the additional operational costs associated with the project	**No data is available at this time.** However, a lower project costs would lead to lower in tariffs.

Security

Qaraoun and Joun Reservoir are **in a conflict zone**, putting operations at risk of disruption due to regional instability.	Jeita, is **not directly influenced by the ongoing conflicts** as it falls northward of the conflict zone.

SOCIAL IMPACT

The Litani River Association operates the existing system and also provides water to the South. Through this project, the BMLWE will tap into the existing operations of the LRA. To what extent does the Cooperation Agreement guarantee the conflict-free implementation of the project?	The Jeita Spring already supplies water to the population of Beirut, resulting in virtually **no water-related conflicts.**

Climate change adaptive capacity

The annual precipitation in the area of Lake Qaraoun is 570 mm. With rising temperatures, there is a risk of higher evapotranspiration	The annual precipitation in the area of Jeita is **650 mm**. More resilient to climate change, as groundwater is **less susceptible to evapotranspiration**