

# Assessment of the Impacts of constructing wastewater treatment plants at Ein Jariout (EJ) and Ein Qinya (EQ) Locations on the Groundwater Environment: Detailed Investigations



Prepared by:

**House of Water and Environment**

Final Draft

December 2009

## **1.0 Objective and scope**

This report provides detailed analysis and investigations for the two sites Ein Jariout and Ein Qinya selected in the previous phase of the project for the construction of wastewater treatment plant (s). The report begins with a description of the study area of Ramallah- Al Bireh with emphasis on the groundwater environment. This will be followed by an in-depth analysis about the impacts of constructing wastewater treatment plants at EJ and EQ sites on their groundwater environments. The report concludes with a comparative assessment of the two selected locations in regards to groundwater vulnerability and from the point-of-view of groundwater protection.

The main objective of this research is to conduct detailed hydrogeological investigations in order to understand the impacts of constructing wastewater treatment plants at EJ and EQ locations on the groundwater resources in the project area.

## **2.0 The project area characteristics: physiography and hydrogeology**

### **2.1 Location**

The Ramallah-Al Bireh District is located in the middle part of the West Bank, and the twin cities of Ramallah and Al-Bireh are located on a chain of Palestine central mountains. This district extends from the Jerusalem district in the south to Nablus district in the north and from Jericho district in the east to the 1948 borderline between Israel and West Bank from the west, as shown in **Figure 2.1**. The two cities are 860 meters above sea level, and have a moderate climate, which allows them to be a center for tourist attraction.



Full report/document is not available online