



Mostaganem treatment plant Foundations and earthworks

2014



**ALGERIA -
Mostaganem
Client**

**BUTEC HEAD
QUARTER**

Owner
Office National de
l'Assainissement (ONA)

Lead Designer
Contrôle Technique de
l'Hydraulique (CTH)

Highlights

Capacity 130,000
population equivalent
10 treatment basins
12.5 ha site



The Project

As part of the project of the Mostaganem urban wastewater treatment plant in Algeria (capacity 130,000 population equivalent) TERRASOL conducted for BUTEC a geotechnical preliminary design study of the project area (La Salamandre – Mostaganem) to define the foundations system required for the future structures, and also to clarify the construction specifications to take into account, in particular for the site's circulation areas and parking facilities.

Key features

- Preliminary design study of the foundations
- Definition and supervision of the soil testing campaign
- Accounting for the risk of under-pressures
- Follow-up of the earthworks

Our Services

Following the definition of the specific survey programme, TERRASOL supervised the geotechnical testing campaign (executed by a local contractor), analysed the data and drew up the study report.

In close cooperation with the BUTEC structural engineers, TERRASOL proposed a recalculation of the structures levels and specific measures to limit the risk of under-pressures in the event of a rise in the water table.

TERRASOL also assisted BUTEC during the earthworks to ensure conformity of site observations with predictions and to provide the additional clarifications requested by the project owner, in particular with regard to problems of liquefaction of the bearing layers in the case of seismic loading, and to the potential risk of water table rise in the project area.