

## TECHNICAL SITE VISITS 16<sup>th</sup> June 2023

### 1. National Groundwater Monitoring Network



This visit will present Malta's National Groundwater Monitoring Network and will include visits to field sites of specific monitoring stations forming part of the Unsaturated Zone Monitoring Network and the Freshwater-Saltwater Transition Zone Monitoring Network. The design and scope of the national monitoring framework will be outlined and demonstrations of sample and data collection from the monitoring points will also be undertaken.

### 2. Geological Features of Malta

The second visit will present Malta's geological structure and include visits to scenic outcrops of the Upper Coralline Limestone, Blue Clay, Globigerina Limestone and the Lower Coralline Limestone; as well as main geological features such as the Victoria and Maghlaq fault structures. The role which the local geology plays in the development of Malta's perched and mean sea-level groundwater bodies will be outlined during the different site visits.



### 3. Desalination and Water Reclamation Plants



The third visit will focus on Non Conventional Water Resources, presenting Malta's sea-water desalination plants and the New Water reclamation program. Issues such as the achievements in energy efficiency in the desalination sector and the outreach to farmers to promote the water reclamation program will be outlined during the visit.

#### 4. Groundwater Pumping Station

The fourth visit will enable participants to go down to the mean-sea level groundwater system – a hundred meters below the ground, presenting the galleries which were developed in the early to mid 1900's for spreading the abstraction of groundwater to limit sea-water intrusion. The development and operation of these unique groundwater abstraction systems will be presented during the visit.



#### 5. GHAJN – Educational Experience



The fifth visit will present the educational experience at GHAJN – Malta's National Water Conservation Awareness Centre. Participants will be taken through the educational activities which are presented to school children at the GHAJN Centre where the importance of water conservation is presented in an informal and "fun" setting, promoting the importance of using water resources effectively to our future generations.