

B.03.05 RAINWATER

Reference drawings

47067567-1019 Overall Site Layout and Cable, Pipe Route and TP Layout

2779-77-CI-DR-000401 Regasification Facilities Stormwater Drainage Works

MT1001-UZ-CLD103-444911146 CCGT General Layout Arrangement Drawing

MT1001-UZ-CLD103-445172836 Layout Underground Pipes Part West

MT1001-UZ-CLD103-445172843 Layout Underground Pipes Part East

ENEM-URS-E0-00-DR-ME-00113 Discharges to Sea

On reaching the ground, rainwater is partly led to the sea as run-off through the surface drainage system. An Environmental Management System (EMS) at the proposed development is to be implemented ensuring that the site remains adequately clean, thus no contaminants will be taken up by the rainwater and transported into the sea. Part of the rainwater percolates into the ground and goes to recharge the mean sea level aquifer, whilst a proportion of the water is returned to the atmosphere by evapo-transpiration. Owing to the long, hot and dry season of the Maltese Islands, this is very high and is taken as an average of 60% evapo-transpiration. However, as the site lays on Middle Globigerina Limestone, an impermeable rock, it is likely most of the rainfall will end up as surface run-off which will be discharged into the sea.

The following table provides a calculation of average surface water run-off expected to be produced by the proposed development.

Average annual rainfall	550mm
Evapo-transpiration	60%
Recharge	0%
Run-off	40%
Area of the proposed development site	21,600m ² (excluding FSU as discussed below)
Average Annual Run-off (40%)	4,750m ³
Average Annual Run-off (60%)	7,125m ³

Run off from this development will not impact the existing adjacent DPS facilities.

The location of the Regasification compound stormwater discharge point is shown on drawing 2779-77-CI-DR-00040 and the CCGT stormwater discharge location will be via the existing Enemalta discharge pipe reference TP402 as shown on drawing 47067567-1019. The remainder of the onshore site will utilise the existing outflow into il-Hofra ż-Żgħira through the existing Enemalta CW out fall as shown on drawing 47067567-1019.

Drainage from potentially oil contaminated areas within the CCGT will be treated in an oil separator prior to connecting to the stormwater network for discharge to sea as discussed above. The location of the oil separator (UBH) is shown on drawing MT1001-UZ-CLD103-444911146. Areas in the Regasification Plant that pose a risk of oil contamination are fully bunded and thus no oil separator is required within the regasification plant area.

The FSU is not considered as contributing any additional stormwater run-off. The current situation is that all precipitation currently landing on the FSU footprint falls directly to the Marsaxlokk harbour, this will continue to be the case when the FSU is in situ.