15.4.1 Water Discharge Guidelines and Standards

2024-2025

AASTMT has water quality standards and guidelines for every wastewater discharge from its campuses, to uphold water quality, prevent water pollution and groundwater contamination, and protect ecosystems, wildlife, and human health and welfare. The "AASTMT Standards and Guidelines for Discharge of Wastewater" were created in August 2023 and reviewed in 2025 (Version 2). They set discharge limits under Egyptian law, specify the Abu Qir wastewater and rainwater system, keep potable water and wastewater apart, keep laboratory waste out of drains, and set how each campus tests and reports its discharge. The cases below show the standards applied in the academic year 2024-2025 (September 2024 to August 2025).

AASTMT Water Discharge Standards and Guidelines

The standards and guidelines for the water quality of all water discharged from AASTMT campuses, facilities and training vessels, to protect ecosystems, soil and groundwater, wildlife, and human health and welfare.


AASTMT Water Discharge Standards and Guidelines

Download the full policy (PDF)

1. Purpose

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) sets out in this document the water quality standards and guidelines that apply to all water discharged from its campuses, facilities and training vessels. The purpose is to uphold water quality in the receiving environment and to protect aquatic and terrestrial ecosystems, soil and groundwater, wildlife, and human health and welfare. It supports AASTMT's commitment to SDG 6 (Clean Water and Sanitation), SDG 14

https://aast.edu/en/sdg/goals.php?unit_item=1215&page_id=121500067

Standards and Guidelines for Discharge of Wastewater, Version 2 (reviewed 2025, AASTMT Abu Qir Campus, Alexandria)

In 2025 the SDGs Workforce Committee reviewed AASTMT's wastewater discharge guidelines. Version 2 specifies the Abu Qir wastewater and rainwater system: a 12-inch drainage line to a 12 m^3 sump, two 10 hp EBARA submersible pumps discharging 60–70 m^3 per hour with two 15 hp Siemens standby pumps, dual control panels to prevent overflow, and daily cleaning of the pump rooms by a contracted company. It sets a validation programme (pump flow and valves checked monthly, control panels quarterly, discharge water quality tested monthly by laboratory analysis, and sump and pump room inspected twice a year), and requires compliance with Law No. 93 of 1962, Decree No. 44 of 2000 and Egyptian Code 102 (2010), so that no contaminated water reaches the sea, freshwater or groundwater. The guidelines require discharge water to meet pH, turbidity and pollutant standards, with regular laboratory testing of pH, turbidity and pollutant levels. Version 2 was approved by the SDGs Workforce Committee (created August 2023, last reviewed 2025, next review 2026).




AASTMT Standards and Guidelines for Discharge of Wastewater

Monitoring the Discharge of the Abu Qir Campus (2024-2025, Abu Qir, Alexandria)

All wastewater from the Abu Qir campus passes through the campus pump station, where flowmeters record the discharge every month, before it enters the public sewer and the municipal treatment plant. Separate sewage, stormwater and greywater networks, sealed UPVC pipes and slopes of 0.5–1% stop wastewater from leaking into soil and groundwater.




UI GreenMetric 4.5: Consumption of treated water

Keeping Laboratory Waste out of Drains (2024-2025, AASTMT campuses in Alexandria)

Chemical and biological waste from AASTMT laboratories is separated, neutralised where needed and stored in controlled campus facilities, and is collected twice a week by Nahdet Misr, a certified company, which takes it to the Alexandria Governorate hazardous waste management facility at Nasreya. Laboratories have separate pipes for potable water (green) and drainage (grey), and every pipe and sanitary fitting is checked against a checklist and a plan of inspection points. This keeps harmful chemicals and biological agents out of the sewer and the environment.



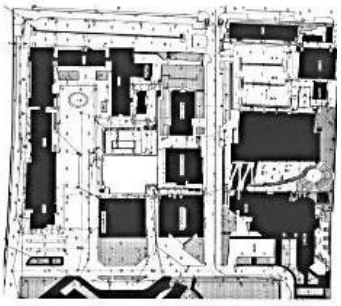
Nahdet Misr disposal of wastes into Alexandria Governorate Hazardous Waste Management (Naseria)



Wastes separation



Checkup checklist for all pipes and sanitation



Plan with location of inspection points

[UI GreenMetric 4.6: Water pollution control in campus area]