15.4.3 Policy on Hazardous Waste Disposal

2024-2025

AASTMT has a policy, process and practice for the disposal of hazardous waste. The AASTMT Medical and Biohazardous Waste Disposal Program (2023–2024) requires chemical, biological and medical waste on every campus to be segregated at source, stored securely, treated on site where appropriate, and handed over under staff supervision to licensed contractors for treatment and disposal, so that no hazardous waste causes contamination or pollution of land, groundwater or air. The programme carries the approval signature of the Dean of Scientific Research and Innovation. The cases below show the policy in practice in the academic year 2024-2025.

AASTMT Policy on Hazardous Waste Disposal

The policy that ensures the safe management of chemical, biological, medical, electronic and other hazardous waste on all AASTMT campuses, from where it is produced to its final licensed disposal.


AASTMT Policy on Hazardous Waste Disposal

Download the full policy (PDF)

Brief Description

AASTMT's Hazardous Waste Disposal Policy ensures the safe management of chemical, biological, medical, electronic and other hazardous waste across all AASTMT campuses in Egypt, from the point where it is produced to its final, licensed disposal. It requires hazardous waste to be prevented and reduced where possible, segregated at source, labelled, stored securely, treated on site where appropriate (such as autoclaving biological waste and neutralising liquid chemicals), and

https://aast.edu/en/sdg/goals.php?unit_item=1215&page_id=121500068

Hazardous Waste Measured and 100% Treated (2024-2025, all AASTMT campuses)

AASTMT tracks the hazardous waste it produces on every campus. In the current reporting period it generated 2.20 tons of toxic waste: 1.70 tons of laboratory chemical waste, down from 1.89 tons the year before through better chemical inventory management and laboratory practice, and 0.50 tons of electronic waste, down from 0.51 tons through repair and longer equipment life. All of it was treated by appropriate methods: autoclaving of biological waste, neutralisation of liquid chemical waste, certified recycling of e-waste and incineration with energy recovery where appropriate, with only 0.5–1.0 tons a year of non-recoverable medical waste sent to a certified sanitary landfill. This prevents contaminated waste from reaching land and water.

UI GreenMetric 3.15: Total volume toxic waste treated

Medical and Chemical Waste Disposal in the College of Pharmacy Laboratories (17 November 2024, Abu Qir, Alexandria)

The College of Pharmacy put the policy into practice in its laboratories: liquid chemical waste is collected in designated bottles in each laboratory and transferred to larger containers, broken glass is kept in separate containers, biological waste is sterilised by autoclaving, and reactions that give off fumes are carried out in fume hoods. All waste is then handed over to Nahdet Misr, a certified provider, for environmentally responsible disposal.



Medical waste disposal procedures within the Arab Academy

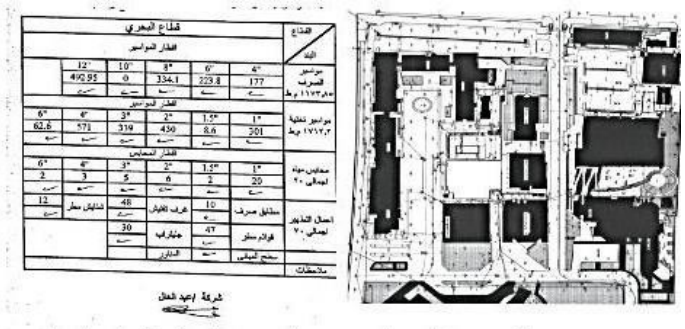
Supervised Handover to a Licensed Contractor and Safe Disposal at Nasreya (2024-2025, Abu Qir, Alexandria)

Hazardous laboratory and clinic waste on the Abu Qir campus is collected twice a week by Nahdet Misr for Modern Environmental Services, a licensed national waste company, under formal service contracts. Every handover is supervised by AASTMT staff, who check that the waste is safely contained and properly documented before it is transported to the Alexandria Governorate hazardous waste management site at Nasreya for treatment and disposal. Invoices and purchase orders record each collection.



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

Segregated Waste Collection at the El Alamein Campus (from 1 August 2024, El Alamein)

The AASTMT El Alamein branch runs a campus-wide system for the segregation, collection and disposal of waste in stainless-steel, colour-coded bins, keeping hazardous and general waste apart and preventing leachate and hazardous runoff from polluting soil and nearby water. Medical waste from the AASTMT Alamein Hospital and clinics is collected separately, and the hospital's medical and laboratory wastewater is treated on site before reuse.



AASTMT Alamein Branch Strengthens Environmental Stewardship through Sustainable Waste and Water Management

National Waste Management System: 23 Sanitary Landfills in 16 Governorates (23 October – 16 November 2024)

AASTMT, working with Egypt's ministries in 2019–2023, built the infrastructure of the new national solid waste management system and trained the staff who run it, spreading best practice for managing waste of all kinds, including industrial and hazardous waste. In October and November 2024 it handed over 23 sanitary landfills in 16 governorates, including new cells in Damietta and Sohag, replacing open dumps that contaminate land and groundwater.

Arab Academy for Sciences handing over 23 sanitary landfills in 16 governorates