

### **6.3.2 - Process to prevent polluted water entering the water system, including pollution caused by accidents and incidents at the university**

Alexandria University implements a comprehensive water pollution management system that prevents contaminated water from entering campus and coastal environments through continuous monitoring, strict analysis of physical, chemical, and biological parameters, and adherence to national and international standards. Accredited laboratories across the University ensure rapid detection and control of pollutants, including those arising from unexpected incidents, while research programs and community initiatives support broader pollution mitigation and protect surrounding ecosystems. This integrated approach strengthens environmental protection, enhances sustainability, and safeguards regional water resources.

*Water Pollution Control* is rigorously maintained through strict adherence to Egyptian environmental legislation and international standards such as the *APHA Standard Methods*. The University's accredited *Central Laboratory at the Faculty of Science and the Faculty of Engineering and the Institute of Graduate Studies and Research* conduct regular monitoring of physical, chemical, and biological parameters in stormwater, sewage, and coastal discharges. In parallel, Alexandria University actively contributes to marine conservation through shoreline clean-up initiatives, environmental impact assessments for coastal infrastructure, and research programs addressing marine biodiversity and pollution mitigation. The University's pivotal role in advancing research and innovation for the protection of Mediterranean coastal ecosystems is exemplified through collaborative projects such as the EU-funded "*Circular Economy: From the Beach to the Lab*" initiative and the *Erasmus+* programs on the blue economy and sustainable aquaculture.





Students from the Faculty of Sport Education at Abu Qir took part in a week-long initiative to clean the eastern harbour of Alexandria, starting on July 8, 2024. The initiative aims to promote sustainable tourism, improve waste disposal practices, and raise awareness about the dangers of plastic waste to marine life, while encouraging recycling efforts and maintaining clean beaches. The project included the Alexandria university, El-Raml Rotary Club, and the Egyptian Diving and Rescue Federation.





Students from various schools in Alexandria, alongside those from the French Institute, participated in a large-scale cleanup campaign at Anfouchi beach titled “Our Sea is Clean Without Trash .” Following the cleanup, participants explored the process of transforming plastic waste into usable materials through 3D printing at the Fab Lab at Alexandria University. This initiative is part of the "Circular Economy: From the Beach to the Lab" project, led by the French Consulate and the French Institute, with financial backing from the European Union and collaboration with the Alexandria Governorate. The project aims to foster partnerships for sustainability and actively engage the local community in environmental efforts.



## Water pollution control in campus area

The campus water pollution control to prevent polluted water from entering the water system is performed. Alexandria University has two accredited laboratories for the regular check water quality (Physical, Chemical parameters) on your campus. In addition, the biological parameters are analyzed by the Microbiology Professor and staff members regularly.

- Accreditation Certificate of Central Laboratory – Faculty of Science (Alexandria University).
- Accreditation of Institute of Graduate Studies and Research (Alexandria University)

## Guideline standard

Standard Methods for the Examination of Water and wastewater 22 edition (APHA).



Water quality analysis and monitoring at Alexandria University  
Accreditation Certificate of Central Laboratory – Faculty of Science (Alexandria University)



Ministry of  
Trade and Industry  
Egyptian Accreditation Council  
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وزارة التجارة والصناعة  
المجلس الوطني للإعتماد  
إيجاك

**Schedule of Accreditation**  
for Testing Laboratory According to ISO/IEC 17025  
Issued to

**ICP-OES Laboratory**  
Institute of Graduate Studies and Research Alexandria University  
(163) Horriya Avenue Shatby  
Alexandria Governorate - Egypt

Schedule No.:0222210B 1<sup>st</sup> Accreditation date: July 29, 2022 Issue No. (1): July 29, 2022 Revision No. (-): Valid to: July 28, 2026

Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements		Standard Specifications / Techniques Used	
	Element	LOQ (ppb)		
Water	Al	26.6	EPA method 200.7:2001	Inductivity Coupled Plasma Optical Emission Spectrometer (ICP-OES) Model 5100 ICP-OES VDV S.N AU16020119
	As	73.4	EPA method 6010 C:2007	
	Ag	4.00		
	Ba	4.32		
	Co	7.13		
	Cr	4.40		
	Cu	6.94		
	Fe	24.0		
	Mo	19.0		
	Ni	22.5		
	Pb	28.2		
	Zn	104		
	Sb	42.9		
	Se	101		
	Sr	7.93		
	K	25.9		
	Na	66.6		
	Cd	4.00		
	Mn	2.97		
	Mg	18.9		

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F4W14TCL  
1 / Dec 2018

كورنيش المعادي - برج رياض المعادي - القاهرة - مصر  
تليفون : ٢٥٢٧٥٢٢٠ / ٥ / ٦ / ٧ (٢٠٢)  
فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

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Industrial Investment Map: <http://investegypt.com> الصفحة الرسمية لخريطة الاستثمار الصناعي في مصر

**Accreditation of Institute of Graduate Studies and Research (Alexandria University)**

Ministry of  
Trade and Industry  
Egyptian Accreditation Council  
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	Element	LOQ (ppb)		
Soil	Ag	43.2	EPA method 200.7:2001	Inductivity Coupled Plasma Optical Emission Spectrometer (ICP-OES) Model 5100 ICP-OES VDV S.N AU16020119
	As	52.8	EPA Method 3051 A:2007	
	Ba	11.1	EPA Method 6010 C:2007	
	Cd	12.3		
	Co	8.78		
	Cr	42.8		
	Cu	12.7		
	Mg	48.5		
	Mn	12.6		
	Mo	18.5		
	Ni	46.5		
	Pb	29.1		
	Zn	30.5		
	Se	21.8		
	Sr	2.31		
	Sb	46.5		
	Ti	15.6		
	Na	228		
	Fe	202		

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