



## Template for Evidence(s) UI GreenMetric Questionnaire

University : Alexandria University  
Country : Egypt  
Web Address : <https://alexu.edu.eg/>

### [4] Water (WR)

#### [4.5] Water pollution control in campus area



Accreditation Certificate No. (218028A)

**Arab Republic of Egypt**  
**Egyptian Accreditation Council ( EGAC )**

Certifies that

**Central Laboratory - Faculty of Science**  
**Alexandria University**  
1 Baghdad Street - Moharam Bey  
Alexandria Governorate - Egypt

**Has been accredited by EGAC in compliance with the requirements of**  
**ISO/IEC 17025:2017**

**In Some Physical and Chemical Tests for Water**

**The scope of accreditation is described in the attached schedule No. (218028 B)**  
**Scope Issue No. (2)**

**Issue No. (2): January 06, 2020**      **Valid to: February 27, 2023**

**Subject to continued compliance to the above standard**  
**and the requirements of EGAC**

EGAC is an ILAC MRA Signatory in the Field of Calibration, Testing, Medical Labs,  
Proficiency Testing Providers and Inspection Bodies Accreditation

1<sup>st</sup> Accreditation Date: February 28, 2019

**Eng. Hany El Desouki**  
  
EGAC Executive Director

**Nevein Gamea**  
  
Chairman of EGAC  
Minister of Trade and Industry

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

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

Central - Laboratory  
Faculty of science Alexandria university  
1 Baghdad street, Moharam Bey-Alexandria

Schedule No.: 218028B Issue No.(2): January 06, 2020 1<sup>st</sup> Accreditation date: February 28, 2019 Revision No. (1): Valid to: February 27, 2023

Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements (%)	Standard Specifications / Techniques Used	
Water	Determination of pH	SMWW, 4500 H+:2017	pH Meter Model: HACHQ11D S.N. 170100010026 Code: CLS-03
	Determination of Turbidity	SMWW, 2130:2017	Turbidity Meter Model: PRIMELAB S.N. 110679, Code: CLS - 05
	Determination of Conductivity	SMWW, 2510:2017	Conductivity Meter, Model HACHQ14D S.N. 170100009834, Code: CLS - 04
	Determination of Phosphorus (LOQ= 0.03mg/L)	SMWW, 4500-P D:2017	Spectrophotometer, Model DR 3900 S.N. 1654957, Code: CLS-02 Balance Model : AS220R2 S.N. 509939, Code: CLS - 07

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

كورنيش المعادي - برج رياض المعادي 1 - القاهرة - مصر  
تليفون : ٢٥٢٧٥٢٢٠/٥/٦/٧ (٢٠٢)  
فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

### Scope of Accreditation of Central Laboratory – Faculty of Science (Alexandria University)

Schedule of Accreditation  
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Schedule No.: 218028B Issue No.(2): January 06, 2020 1<sup>st</sup> Accreditation date: February 28, 2019 Revision No. (1): Valid to: February 27, 2023

Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements (%)		Standard Specifications / Techniques Used	
	Element	LOQ (mg/L)	SMWW, 3111:2017	Atomic Absorption, Model : Agilent contra AA300 S.N. 1600494, Code: CLS - 01 Balance-RADWAG, AS 220.R2, Poland, S.N. 509939, Code: CLS-07
Water & Waste water	Cu	0.10	SMWW 6630:2017	Gas Chromatography Model Perkin Elmer (Clarus 580) SN: 580S17101902, CLS - 06
	Zn	0.10		
	Cr	0.05		
	Mn	0.05		
	Ni	0.10		
	Fe	0.10		
	Organochlorine pesticides	LOQ (ppb)		
	P,P'-DDD	0.1		
	Alpha Hexachlorocyclohexane (HCH)	0.1		
	Delta Hexachlorocyclohexane (HCH)	0.1		
	Lindane (Gamma HCH)	0.1		

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كورنيش المعادي - برج رياض المعادي 1 - القاهرة - مصر  
تليفون : ٢٥٢٧٥٢٢٠/٥/٦/٧ (٢٠٢)  
فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

### Scope of Accreditation of Central Laboratory – Faculty of Science (Alexandria University)

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

Issued To

Central - Laboratory  
Faculty of science Alexandria university

1 Baghdad street, Moharam Bey-Alexandria

Schedule No.: 218928B Issue No.(2): January 06, 2020 1<sup>st</sup> Accreditation date: February 28, 2019 Revision No. (1): Valid to: February 27, 2023

Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements (%)	Standard Specifications / Techniques Used
Water & Waste water	Organochlorine pesticides	SMWW 6630:2017 Gas Chromatography Model: Perkin Elmer (Clarus 580) SN: 580S17101902, CLS - 06 Balance-RADWAG, Model :AS 220.R2, Poland, S.N. 509939, Code: CLS-07
	Alpha Endosulphan	
	Beta Endosulphan	
	Cis-Chlordane	
	Trans-Chlordane	
	P,P'-DDT	

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فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

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الصفحة الرسمية خريطة الاستثمار الصناعي في مصر: <http://investegpt.com>

Scope of Accreditation of Central Laboratory – Faculty of Science (Alexandria University)

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) Horryia 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	
Water	Element	EPA method 200.7:2001 EPA method 6010 C:2007 Inductivity Coupled Plasma Optical Emission Spectrometer (ICP-OES) Model 5100 ICP-OES VDV S.N AU16020119	
	LOQ (ppb)		
	Al		26.6
	As		73.4
	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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كورنيش المعادي - برج رياض المعادي 1 - القاهرة - مصر  
تليفون : ٢٥٢٧٥٢٢٠ / ٥ / ٦ / ٧ (٢٠٢)  
فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

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الصفحة الرسمية خريطة الاستثمار الصناعي في مصر: <http://investegpt.com>

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



Ministry of Trade and Industry Egyptian Accreditation Council EGAC	 <b>EGAC</b>	وزارة التجارة والصناعة المجلس الوطني للإعتماد إيجاك																																								
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Soil	<table border="1"> <thead> <tr> <th>Element</th> <th>LOQ (ppb)</th> </tr> </thead> <tbody> <tr><td>Ag</td><td>43.2</td></tr> <tr><td>As</td><td>52.8</td></tr> <tr><td>Ba</td><td>11.1</td></tr> <tr><td>Cd</td><td>12.3</td></tr> <tr><td>Co</td><td>8.78</td></tr> <tr><td>Cr</td><td>42.8</td></tr> <tr><td>Cu</td><td>12.7</td></tr> <tr><td>Mg</td><td>48.5</td></tr> <tr><td>Mn</td><td>12.6</td></tr> <tr><td>Mo</td><td>18.5</td></tr> <tr><td>Ni</td><td>46.5</td></tr> <tr><td>Pb</td><td>29.1</td></tr> <tr><td>Zn</td><td>30.5</td></tr> <tr><td>Se</td><td>21.8</td></tr> <tr><td>Sr</td><td>2.31</td></tr> <tr><td>Sb</td><td>46.5</td></tr> <tr><td>Ti</td><td>15.6</td></tr> <tr><td>Na</td><td>228</td></tr> <tr><td>Fe</td><td>202</td></tr> </tbody> </table>	Element	LOQ (ppb)	Ag	43.2	As	52.8	Ba	11.1	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	EPA method 200.7:2001 EPA Method 3051 A:2007 EPA Method 6010 C:2007 <b>Inductivity Coupled Plasma Optical Emission Spectrometer (ICP-OES)</b> Model 5100 ICP-OES VDV S.N AU16020119
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**Description:**

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.

**Water quality analysis and monitoring at Alexandria University.**

- Accreditation Certificate of Central Laboratory – Faculty of Science (Alexandria University).
- Scope of accreditation of Central Laboratory – Faculty of Science (Alexandria University)

**Link:** <https://egac.gov.eg/en/entity-details/?tc=oKRMg7QVNpwrC2AcXP2REMBXozjKAU3KA86qpAI9>

- Scope of Accreditation of Institute of Graduate Studies and Research (Alexandria University)

**Link:** <https://egac.gov.eg/en/entity-details/?tc=fPqXmFYxY7MHFifwTbSpi9CWwRe8hCq25J2IFNG0>

**Wastewater Treatment**

Alexandria University has a system to prevent polluted water to enter the water system through Water quality analysis and monitoring.



The recycled irrigated water supplied to the fish farm at the Agriculture Experimental Research Station of the Faculty of Agriculture, is analyzed before using it to irrigate the crops, vegetables, and fruits of the land farm. In addition, the recycled water is used for crops culturing in the adjacent agriculture research center in Abis.

**Guideline standard**

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