HELLENIC ACCREDITATION SYSTEM

Annex F1/20 to the Certificate No.**659**-7

SCOPE of ACCREDITATION

of the

Laboratory

of the

CHEM-MAR, Theodoros Vassilopoulos

Materials / Tested products	Type of test/ Measured properties	Applied standards/ Techniques used
Chemical tests		
1. Potable water	1. Determination of pH	APHA* 4500-H, B Electrometric method
	2. Determination of conductivity	APHA* 2510 B Electrometric method
	3. Determination of Cadmium	APHA* 3113 B Atomic absorption with graphite furnace
	4. Determination of Lead	APHA* 3113 B Atomic absorption with graphite furnace
	5. Determination of Mercury	In house method IH-11.Hg Atomic Absorption -hydrides
	6. Determination of Aluminum	APHA* 3500-Al, B Colorimetric method
	7. Determination of Chromium	APHA* 3113 B Atomic absorption with graphite furnace
	8. Determination of Chromium (VI)	APHA* 3500- Cr. B Colorimetric method
2. Potable water & waste water	1. Determination of Ammonia	MERCK Spectroquant 1.14752 Colorimetric method
	2. Determination of Nitrate	MERCK Spectroquant 1.09713 Colorimetric method
	3. Determination of Iron	MERCK Spectroquant 1.14761 Colorimetric method

Materials / Tested products	Type of test/ Measured properties	Applied standards/ Techniques used
	4. Determination of Nitrites	MERCK Spectroquant 1.14776 Colorimetric method
3. Waters	1. Determination of Chlorides	APHA* 4500- Cl^- . Titrimetric method
	2. Determination of Total Hardness	ELOT 170 Titrimetric method
	3. Determination of Phosphorus	APHA* 4500- P. C Colorimetric method
	4. Determination of disolved bromates	In house method IH-16.BrO_3 based on ISO 15061:2001
4. Waters and waste waters	1. Determination of total suspended solids	ISO 11923 Gravimetric method
5. Waste waters	2. Determination of COD	MERCK Spectroquant 1.14681, 1.14682, 1.14539 Colorimetric method
6. Fishes	1. Determination of Lead, Cadmium	A.O.A.C. 999.11 Atomic absorption with graphite furnace
	2. Determination of Mercury	In house method IH-12.Hg Based on A.O.A.C. 974.14 Atomic Absorption -hydrides
	3. Determination of total volatile basic nitrogen (ABVT)	Regulation EC 2074/2005 Titrimetric metod (Annex II, Section II)
7. Meat and fish products	1. Determination of fat	ISO 1443:1973 (acid hydrolysis /Weibull-stoldt method)
8. Meat products	1. Loss of drying (moisture)	AOAC 950.46 Gravimetric method
	2. Determination of ash	AOAC 920.153 Gravimetric method
9. Air	1. Sampling and determination of Lead	MDHS 6 Atomic absorption with graphite furnace
	2. Sampling and determination of Benzene,Tolouene, Xylene (o-, m-, p-)	In house Method IH –13.GC Based on MDHS 96 (Gas Chromatography)
10. Petroleum products and Lubricating oils	1. Determination of water	ASTM D6304 Karl-Fisher/Coulometric method

Materials / Tested products	Type of test/ Measured properties	Applied standards/ Techniques used
Physical Tests		
Stack emissions to atmosphere	1. Isokinetic sampling and determination of particulate matter (dust)	ELOT EN 13284-1 : 2017 ISO 9096 : 2017
	2. Isokinetic sampling and determination of trace elements (As, Cd, Cr, Co, Cu, Mn, Ni, Pb, Sb, Tl and V)	EN 14385:2024
1. Air	1 Sampling and measurement of airborne particles (inhalable and respirable dust)	MDHS 14 Gravimetric method
	2. Sampling and determination of Asbestos	HSG 248:2021 (by Phase Contrast Microscopy)
Microbiological examination		
Potable water	1. Enumeration of culturable micro-organisms at 22^0C and 36^0C	ISO 6222 : 1999
	2. Enumeration of *Escherichia coli* and coliform bacteria	ISO 9308-2 : 2014
	3. Enumeration of intestinal enterococci	ISO 7899-2 : 2000
Waters	Enumeration of Legionella spp.	ISO 11731:2017 Matrix A, Procedure 5 and 7, Medium A (BCYE) and Medium C (GVPC). Matrix B, Procedure 8 and 9 and 10, Medium C (GVPC).
Waste waters	Enumeration of thermotolerant coliforms (faecal coliforms)	APHA*9222.D

* American Public Health Association, American Water Works Association, Water Environment Federation, "Standard Methods for the Examination of Water and Wastewater", 23rd Edition 2017

Site of assessment: **Laboratory permanent premises, 4, Souliou Str., GR 17342, Agios Dimitrios, Athens, Greece.** Approved Signatories: **Theodoros Vassilopoulos.**

This scope of Accreditation replaces the previous one dated 24.08.2026.
The Accreditation Certificate No.**659**-7, to ELOT EN ISO/IEC 17025:**2017**, has been renewed according to ESYD's decision and it is valid until 24.02.2031.

Athens, 14.09.2026

Konstantinou Evangelos Apostolos
CEO of ESYD