



Signatory to the EA Multilateral Agreement in this field

ORDER

№ A 337

Sofia, 31.10.2025

Pursuant to Art. 10, para. 1, item 4, Art. 28, para. 1 of the Law on National Accreditation of Conformity Assessment Bodies, item 6 of the BAS QR 2 Accreditation Procedure, in connection with an open procedure reg. № 221/123 ЛИ/ПА/19.03.2025, report reg. № 221/123 ЛИ/ПА/3/В/25.07.2025 and statement of the Accreditation Commission, reg. № 221/123 ЛИ/ПА/8/В/01.10.2025, I hereby

RE-ACCREDIT AND EXTEND THE SCOPE OF ACCREDITATION

**WATER SUPPLY AND SEWERAGE - SHUMEN LTD.
WATER TESTING LABORATORY**

Management address: 9700, Shumen, 1 Voyn Sqr.

Laboratory address: 9811, Dibich, Shumen Municipality, Chernilka Area,
Land plot № 20938.502.28

To perform testing of:

Type of the scope: flexible for a part of the scope*			
№	Tested products	Type of test / characteristic	Testing methods (standard/ validated method)
1	2	3	4
1.	Water: Wastewater (1), groundwater (2), surface water (3), drinking water (4)	1.1 Active reaction pH	БДС EN ISO 10523 (1,2,3,4)
		1.2 Temperature	БДС 17.1.4.01 (1)
		1.3 Undissolved (insoluble) substances	БДС 17.1.4.04 (1)
		1.4 Dissolved substances	БДС 17.1.4.04 (1)
		1.5 Total dry residue	БДС 17.1.4.04 (1,2)
		1.6 Suspended solids/ Insoluble substances	БДС EN 872 (1,2,3)
		1.7 Dissolved oxygen	БДС EN 25813 (1) ISO 17289 (1,2,3)
		1.8 COD(Chemical oxygen demant)	VLM 10/2024 (1,3)
		1.9 BOD ₅ (Biochemical oxygen demant, 5 days)	БДС EN ISO 5815-1 (1,3)
		1.10. Total nitrogen	VLM 01/2025 (1)
		1.11. Nitrate nitrogen/ Nitrates	VLM 05/2024 (1,2,3,4) БДС ISO 7890-3 (1,2,4)
		1.12. Nitrite nitrogen/ Nitrites	VLM 03/2024 (1,2,3,4) БДС EN 26777 (1,2,4)
		1.13. Ammonium nitrogen/ Ammonium	VLM 19/2024 (1,2,3,4) БДС ISO 7150-1 (1,2,4)
		1.14. Orthophosphates/ Orthophosphates (as Phosphorus)	VLM 02/2024 (1,2,4)
		1.15. Total Phosphorus/ Total Phosphorus (as PO ₄)	VLM 02/2024 (1,2)
		1.16. Copper	VLM 08/2024 (1,4)
		1.17. Lead	VLM 18/2024 (1)

Type of the scope: flexible for a part of the scope*			
№	Tested products	Type of test / characteristic	Testing methods (standard/ validated method)
1	2	3	4
		1.18. Zinc	VLM 12/2024 (1,4)
		1.19. Nickel	VLM 11/2024 (1)
		1.20. Iron	VLM 13/2024 (1,2,4)
		1.21. Cadmium	VLM 15/2024 (1)
		1.22. Total chromium/ Hexavalent chromium	VLM 16/2025 (1)
		1.23. Free cyanides	VLM 09/2024 (1,4)
		1.24. Anionic surfactants (A-LAS)	VLM 14/2025 (1)
		1.25. Chlorides	ISO 9297 (1,2,4)
		1.26. Fluorides	VLM 20/2024 (1,4)
		1.27. Sulphates	VLM 22/2024 (2,4)
		1.28. Manganese	VLM 06/2024 (2,4)
		1.29. Free residual chlorine	VLM 07/2025 (4)
		1.30. Permanganate index/ Permanganate oxidizability	БДС EN ISO 8467 (2,4)
		1.31. Colour	БДС 8451, cl. 2 /Amd. 1 (4)
		1.32. Taste	БДС 8451, cl.3 (4)
		1.33. Odour	БДС 8451, cl.4 (4)
		1.34. Electrical conductivity	БДС EN 27888 (2,4)
		1.35. Turbidity	БДС EN ISO 7027-1 (4)
		1.36. Total hardness (sum of calcium and magnesium)	БДС ISO 6059 (2,4)
		1.37. Magnesium	VLM 23/2024 (2,4)
		1.38. Calcium	БДС ISO 6058 (2,4)
		1.39. Aluminium	VLM 21/2024 (2,4)

To perform sampling of:

Type of the scope: flexible *		
№	Product	Sampling methods (standard/validated method)
1	2	3
1.	Wastewater	БДС ISO 5667-10
2.	Groundwater	БДС ISO 5667-11
3.	Surface water	БДС ISO 5667-4
4.	Drinking water	БДС ISO 5667-5 БДС EN ISO 19458

***Flexible scope:** Implementing a new version of standards/documents or standards/documents replacing them is allowed. An updated list of standards/documents and their dated versions is provided by laboratory.

Fixed scope references:

1. VLM 01/2025 Validated laboratory method for the determination of Total Nitrogen (photometric method)
2. VLM 02/2024 Validated laboratory method for the determination of Orthophosphates, Orthophosphates (as Phosphorus), Total Phosphorus, Total Phosphorus (as PO₄) (photometric method)
3. VLM 03/2024 Validated laboratory method for the determination of Nitrite Nitrogen / Nitrites (photometric method)
4. VLM 05/2024 Validated laboratory method for the determination of Nitrate Nitrogen / Nitrates (photometric method)
5. VLM 06/2024 Validated laboratory method for the determination of Manganese (photometric method)

6. VLM 07/2025 Validated laboratory method for the determination of Free Residual Chlorine (photometric method)
7. VLM 08/2024 Validated laboratory method for the determination of Copper (photometric method)
8. VLM 09/2024 Validated laboratory method for the determination of Free Cyanides (photometric method)
9. VLM 10/2024 Validated laboratory method for the determination of COD (photometric method)
10. VLM 11/2024 Validated laboratory method for the determination of Nickel (photometric method)
11. VLM 12/2024 Validated laboratory method for the determination of Zinc (photometric method)
12. VLM 13/2024 Validated laboratory method for the determination of Total Iron/ Dissolved Iron (photometric method)
13. VLM 14/2025 Validated laboratory method for the determination of Anionic Surfactants (A-LAS) (photometric method)
14. VLM15/2024 Validated laboratory method for the determination of Cadmium (photometric method)
15. VLM 16/2025 Validated laboratory method for the determination of Hexavalent Chromium/ Total Chromium (photometric method)
16. VLM 18/2024 Validated laboratory method for the determination of Lead (photometric method)
17. VLM 19/2024 Validated laboratory method for the determination of Ammonium Nitrogen/ Ammonium (photometric method)
18. VLM 20/2024 Validated laboratory method for the determination of Fluorides (photometric method)
19. VLM 21/2024 Validated laboratory method for the determination of Aluminium (photometric method)
20. VLM 22/2024 Validated laboratory method for the determination of Sulphates (photometric method)
21. VLM 23/2024 Validated laboratory method for the determination of Magnesium (calculation method)

I ORDER

To issue the certificate of accreditation reg. № 123 ЛИ/31.10.2025, valid until 31.10.2029, and this order as an integral part of it.

The certificate of accreditation with the enclosure to be received by the Manager/ representative of Water supply and sewerage - Shumen Ltd, the head of the water testing laboratory at Water supply and sewerage - Shumen Ltd, or other authorized person in the office of EA BAS.

Upon receipt of the certificate and the enclosure issued, the accredited person is obliged to return to EA BAS the originals of accreditation certificate № 123 ЛИ/01.11.2021, valid until 01.11.2025 and its enclosure, EA BAS order reg. № A 675/01.11.2021.

This order shall be notified to the Water supply and sewerage - Shumen Ltd, within 3 (three) days from its issuance.

Eng. Mariya Ilieva-Yordanova

Executive Director

of Executive agency Bulgarian accreditation service

