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**Český institut pro akreditaci, o.p.s.**  
(Czech Accreditation Institute)  
**Hájkova 2747/22, Žižkov, 130 00 Praha 3**

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products and on changes and amendments to some Acts, as amended

# CERTIFICATE OF ACCREDITATION

No. 636/2025

**Vodotech, spol. s r.o.**  
**with registered office Mojmírovců 571/15, Mariánské Hory, 709 00 Ostrava**  
**Company Registration No. 64086348**

for the Testing Laboratory No. 1259  
Vodotech

Scope of accreditation:

Chemical, microbiological and biological analysis of drinking, hot, ground and surface water, chemical analysis of waste water and liquid sludge and water sampling to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited conformity assessment body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 446/2024 of 30/08/2024, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **10/05/2028**

Prague: 05/12/2025



Signed in the Czech original:  
Jan Velíšek on 05/12/2025

**Jan Velíšek**  
Director of the Department  
of Testing and Calibration Laboratories  
Czech Accreditation Institute

This translation of the Czech original has been issued by: Andrea Muzikářová

**The Appendix is an integral part of  
Certificate of Accreditation No. 636/2025 of 05/12/2025**

**Accredited entity according to ČSN EN ISO/IEC 17025:2018:**

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CAB number 1259, Vodotech  
Slavnickovců 571/21, 709 00 Ostrava

**Testing laboratory locations:**

- |                                      |   |
|--------------------------------------|---|
| <b>1. Central Laboratory Ostrava</b> | Slavnickovců 571/21, 709 00 Ostrava               |
| <b>2. Laboratory Opava</b>           | ČOV Opava, Těšínská 1158/73, 746 01 Opava         |
| <b>3. Laboratory Třinec</b>          | ČOV Třinec, Kanská, p. č. st. 1163, 739 61 Třinec |

*The laboratory provides opinions and interpretations of the test results.*

*Detailed information on activities within the scope of accreditation (determined analytes) is given in the section „Specification of the scope of accreditation“.*

**1. Central Laboratory Ostrava**

**Tests:**

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
<b>1</b>	<b>Physical methods</b>			
1.1*	Determination of temperature	CH 01 (ČSN 75 7342)	Drinking, surface, ground, hot and waste water, liquid sludge, free air	-
1.2*	Determination of odour and flavour – indicative sensory analysis	CH 59 (ČSN 75 7340; ČSN EN 1622)	Drinking, surface, ground, hot water	-
<b>2</b>	<b>Electrochemical methods</b>			
2.1	Determination of electrical conductivity by conductometry	CH 04 (ČSN EN 27888)	Drinking, surface, ground, hot and waste water	-
2.2	Determination of pH by potentiometric method	CH 05 (ČSN ISO 10523; ČSN EN ISO 10390)	Drinking, surface, ground, hot and waste water, liquid sludge	-
2.3	Determination of dissolved oxygen by electrochemical method and % of saturation by calculation from measured values	CH 10 (ČSN EN ISO 5814)	Drinking, surface, ground and waste water	-
2.4	Determination of biochemical oxygen demand (BOD <sub>5</sub> ) by electrochemical method	CH 51 (ČSN EN ISO 5815-1)	Drinking, surface, ground and waste water	-
<b>3</b>	<b>Titrimetric method</b>			

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Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
3.1	Determination of acid neutralizing capacity (ANC <sub>4,5</sub> and ANC <sub>8,3</sub> ) by titration and of carbon dioxide (CO <sub>2</sub> ) forms by calculation from measured values	CH 06 (ČSN EN ISO 9963-1)	Drinking, surface, ground, hot and waste water	-
3.2	Determination of base neutralizing capacity (BNC <sub>8,3</sub> and BNC <sub>4,5</sub> ) by titration	CH 07 (ČSN 75 7372)	Drinking, surface, ground, hot and waste water	-
3.3	Determination of chemical oxygen demand with permanganate (COD <sub>Mn</sub> ) by titration	CH 09 (ČSN EN ISO 8467)	Drinking, surface, ground and hot water	-
3.4	Determination of total hardness (Ca+Mg) by complexometric titration	CH 11 (ČSN ISO 6059)	Drinking, surface, ground and hot water	-
3.5	Determination of calcium by complexometric titration and calculation of magnesium by measured values	CH 12 (ČSN ISO 6058)	Drinking, surface, ground, hot and waste water, liquid sludge	-
3.6	Determination of chloride by silver-nitrate titration	CH 17 (ČSN ISO 9297)	Drinking, surface, ground and waste water	-
3.7	Determination of sulphate by titration	CH 24 (ČSN 75 7477)	Drinking, surface, ground and waste water	-
3.8	Determination of chemical oxygen demand with dichromate (COD <sub>Cr</sub> ) by titration	CH 49 (ČSN ISO 6060)	Drinking, surface, ground and waste water	-
3.9	Determination of ammonium by titration and ammonia nitrogen (N-NH <sub>4</sub> ) and inorganic nitrogen by calculation from measured values	CH 22 (ČSN ISO 5664)	Drinking, surface, ground, hot and waste water, liquid sludge	-
<b>4</b>	<b>Gravimetric methods</b>			
4.1	Determination of dissolved solids (DS) and dissolved inorganic salts (DIS) by gravimetry	CH 52 (ČSN 75 7346; ČSN 75 7347)	Drinking, surface, ground and waste water, liquid sludge	-

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Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
4.2	Determination of suspended solids (NL) and loss on ignition by gravimetry	CH 61 (ČSN EN 872; ČSN 75 7350)	Drinking, surface, ground and waste water, liquid sludge	-
4.3	Determination of dry residue (total solids) and loss on ignition by gravimetry	CH 53 (ČSN EN 12880; ČSN EN 12879:2001)	Liquid sludge	-
<b>5</b>	<b>Spectrophotometric methods</b>			
5.1	Determination of absorbance at 254nm wavelength by spectrophotometry	CH 08 (ČSN 75 7360)	Drinking, surface, ground water	-
5.2	Determination of colour by photometric method	CH 02 (ČSN EN ISO 7887, chap. 6, method C)	Drinking, surface, ground, hot and waste water	-
5.3	Determination of turbidity by nephelometry	CH 03 (ČSN EN ISO 7027-1)	Drinking, surface, ground, hot and waste water	-
5.4	Determination of nitrate using sulfosalicylic acid by spectrophotometry and nitrate nitrogen (N-NO <sub>3</sub> ) by calculation from measured values	CH 19 (ČSN ISO 7890-3)	Drinking, surface, ground, waste water, hot water, liquid sludge	-
5.5	Determination of nitrite by spectrophotometry and nitrite nitrogen (N-NO <sub>2</sub> ) by calculation from measured values	CH 20 (ČSN EN 26777)	Drinking, surface, ground, hot and waste water, liquid sludge	-
5.6	Determination of ammonium by spectrophotometry and ammonia nitrogen (N-NH <sub>4</sub> ) and total inorganic nitrogen by calculation from measured values	CH 21 (ČSN ISO 7150-1)	Drinking, surface, ground, hot and waste water, liquid sludge	-
5.7	Determination of total phosphorus by spectrophotometry	CH 23 (ČSN EN ISO 6878)	Drinking, surface, ground, hot and waste water, liquid sludge	-
5.8	Determination of fluoride by spectrophotometry	CH 25 (M. Horáková, P. Lischke, A. Grúnwald – Chemické a fyzikální metody analýzy vod, SNTL, 1986, str. 202)	Drinking, surface, ground water	-

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Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
5.9	Determination of humic substances by spectrophotometry	CH 26 (ČSN 75 7536)	Drinking, surface and underground water	-
5.10	Determination of univalent phenols by spectrophotometry	CH 27 (ČSN ISO 6439)	Drinking, surface, ground and waste water, liquid sludge	-
5.11	Determination of anionic surfactants using methylene blue by spectrophotometry	CH 28 (ČSN EN 903)	Drinking, surface, ground and waste water, liquid sludge	-
5.12	Determination of total cyanide by spectrophotometry	CH 29 (ČSN 75 7415)	Drinking, surface, ground and waste water, liquid sludge	-
5.13	Determination of chemical oxygen demand by dichromate (COD <sub>Cr</sub> ) using a spectrophotometric method in test tubes	CH 47 (ČSN ISO 15705)	Drinking, surface, ground and waste water	-
5.14	Determination of aluminium by spectrophotometry	CH 31 (ČSN ISO 10566)	Drinking, surface, ground and waste water	-
5.15	Determination of iron by spectrophotometry with HACH set	CH 70 (HACH manual)	Drinking, surface, ground water	-
5.16	Determination of manganese by spectrophotometry with HACH set	CH 71 (HACH manual)	Drinking, surface, ground water	-
5.17	Determination of total nitrogen by spectrophotometry with HACH set	CH 48 (HACH manual)	Drinking, surface, ground and waste water, liquid sludge	-
5.18*	Determination of free and total chlorine by spectrophotometry using HACH set and bound chlorine by calculation from measured values.	CH 14 (HACH manual)	Drinking, surface, ground and hot water	-

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Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
5.19	Determination of chlorodioxide by spectrophotometry with HACH set	CH 15 (HACH manual)	Drinking, surface, ground and hot water	-
<b>6</b>	<b>Spectral methods</b>			
6.1	Determination of extractives (EL) by FTIR method	CH 54 (ČSN 75 7506)	Drinking, surface, ground and waste water, liquid sludge	-
6.2	Determination of nonpolar extractives (NEL) by FTIR method	CH 43 (ČSN 75 7505:1998)	Drinking, surface, ground and waste water, liquid sludge	-
6.3	Determination of total organic carbon (TOC), dissolved organic carbon (DOC) after catalytic combustion by NDIR method	CH 56 (ČSN EN ISO 20236)	Drinking, surface, ground, hot and waste water	-
6.4	Determination of total bound nitrogen (TN <sub>b</sub> ) after catalytic combustion by NDIR method	CH 57 (ČSN EN ISO 20236)	Drinking, surface, ground and waste water, liquid sludge	-
<b>7</b>	<b>Elemental analysis</b>			
7.1	Determination of iron and manganese by F/AAS method	CH 30 (ČSN 75 7385)	Drinking, surface, ground, hot and waste water, liquid sludge	-
7.2	Determination of elements by ICP/OES method and water hardness (Ca+Mg) by calculation from measured values	CH 69 (ČSN EN ISO 11885; Spectro CS manual)	Drinking, surface, ground and waste water	-
<b>8</b>	<b>Chromatographic methods</b>			
8.1	Determination of volatile organic compounds (VOC) by GC/ECD+FID and the sum of THM by calculation from measured values	CH 44 (ČSN EN ISO 10301)	Drinking, surface, ground and hot water	=

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Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
8.2	Determination of organochlorine pesticides (OCP) and semivolatile compounds by GC/MS and sum of OCP by calculation from measured values	CH 46 (ČSN EN ISO 6468)	Drinking, surface, ground water	-
8.3	Determination of the sum of hydrocarbons C <sub>10</sub> – C <sub>40</sub> by GC/FID method	CH 41 (ČSN EN ISO 9377-2)	Drinking, surface, ground and waste water	-
8.4	Determination of dissolved anions by ion chromatography and of nitrate, nitrite, inorganic and organic nitrogen by calculation from measured values	CH 72 (ČSN EN ISO 10304-1; ČSN EN ISO 10304-4; ČSN EN ISO 15061)	Drinking, surface, ground, hot and waste water	-
8.5	Determination of polycyclic aromatic hydrocarbons (PAH) by HPLC/FluD method and the sum of PAH by calculation from measured values	CH 45 (ČSN EN ISO 17993)	Drinking, surface, ground and waste water	-
<b>9</b>	<b>Biological methods</b>			
9.1	Determination of bioseston by microscopic method	Bi 01 (ČSN 75 7712)	Drinking, surface, ground water	-
9.2	Determination of abioseston by microscopic method	Bi 02 (ČSN 75 7713)	Drinking, surface, ground water	-
<b>10</b>	<b>Microbiological methods</b>			
10.1	Detection and enumeration of <i>Escherichia coli</i> and coliform bacteria by membrane filtration method	MBi 14 (ČSN EN ISO 9308-1)	Drinking, surface, ground and hot water	-
10.2	Detection and enumeration of <i>Escherichia coli</i> and coliform bacteria by most probable number method (Colilert-18)	MBi 16 (ČSN EN ISO 9308-2)	Drinking, surface, ground and hot water	-
10.3	Detection and enumeration of intestinal enterococci by membrane filtration method	MBi 07 (ČSN EN ISO 7899-2)	Drinking, surface, ground and hot water	-

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Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
10.4	Detection and enumeration of <i>Clostridium perfringens</i> (including spores) by membrane filtration method	MBi 15 (Decree No. 252/2004 Sb.)	Drinking, surface, ground and hot water	-
10.5	Enumeration of <i>Clostridium perfringens</i> by membrane filtration method	MBi 04 (ČSN EN ISO 14189)	Drinking, surface, ground and hot water	-
10.6	Enumeration of culturable microorganisms at 22 °C and 36 °C by inoculation in a nutrient agar culture medium	MBi 12 (ČSN EN ISO 6222)	Drinking, surface, ground and hot water	-
10.7	Detection and enumeration of <i>Escherichia coli</i> and thermotolerant coliform bacteria by membrane filtration method	MBi 08 (ČSN 75 7835)	Drinking, surface, ground and hot water	-
10.8	Enumeration of coliforms by membrane filtration method	MBi 01 (ČSN 75 7837)	Drinking, surface, ground water	-
10.9	Detection and enumeration of <i>Pseudomonas aeruginosa</i> by membrane filtration method	MBi 10 (ČSN EN ISO 16266)	Drinking, surface, ground and hot water	-
10.10	Enumeration of staphylococci by membrane filtration method	MBi 11 (ČSN EN ISO 6888-1)	Drinking, surface, ground and hot water	-

<sup>1</sup> asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises; the numerical index at the test ordinal number identifies the location carrying out the test (the identification of the locations is given on the first page of this document)

<sup>2</sup> if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

<sup>3</sup> the laboratory does not apply a flexible approach to the scope of accreditation

**Specification of the scope of accreditation:**

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
3.1	Forms of CO <sub>2</sub> : CO <sub>2</sub> free, bound, total, stable and aggressive, hydrogencarbonates, carbonates
7.2	Al, As, B, Ca, Cd, Cr, Cu, Fe, Hg, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Zn

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Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
8.1	Trans-1,2-dichloroethene, cis-1,2-dichloroethene, benzene, 1,2-dichloropropane, toluene, chlorobenzene, ethylbenzene, m+p-xylene, styrene, 1,1-dichloroethene, dichloromethane, chloroform, 1,1,1-trichloroethane, tetrachloromethane, 1,2-dichloroethane, trichloroethene, bromodichloromethane, tetrachloroethene, dibromochloromethane, bromoform, 1,4-dichlorobenzene, 1,2-dichlorobenzene; sum of THM = chloroform+ bromodichloromethane+ dibromochloromethane+ bromoform
8.2	$\alpha$ -hexachlorocyclohexane, $\beta$ -hexachlorocyclohexane, $\gamma$ -hexachlorocyclohexane, aldrin, dieldrin, endrin, heptachlor, heptachloroepoxide, $\alpha$ -endosulfan, $\beta$ -endosulfan, o,p'-DDT, p,p'-DDT, p,p'-DDE, p,p'-DDD, 1,2,4-trichlorobenzene, 1,2,4,5-tetrachlorobenzene, pentachlorobenzene, hexachlorobenzene, pentachloronitrobenzene, methoxychlor
8.4	Chlorides, fluorides, nitrates, nitrites, phosphates, sulphates, chlorates, chlorites, bromates
8.5	Fluoranthene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-c,d)pyrene, benzo(g,h,i)perylene

**Sampling:**

Ordinal number	Sampling procedure name	Sampling procedure identification <sup>1</sup>	Subject of sampling
1	Drinking water sampling (manual sampling)	V 01 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-5; ČSN EN ISO 5667-14; ČSN ISO 5667-21; ČSN EN ISO 19458)	Drinking and hot water
2	Waste water sampling (manual and by automatic sampler)	V 02 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN ISO 5667-13; ČSN EN ISO 5667-14; ČSN 75 7315)	Waste water, liquid sludge

<sup>1</sup> if the document identifying the sampling procedure is dated, only these specific procedures are used. If the document identifying the sampling procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)



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GC/FID	Gas Chromatography with Flame Ionization Detector
GC/ECD	Gas Chromatography with Electron Capture Detector
GC/MS	Gas Chromatography with Mass Detector
THM	Trihalogenmethanes

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*"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself."*