EA MLA Signatory
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. **562/2025**

BIOANALYTIKA CZ, s.r.o.
with registered office Píšťovy 820, Chrudim III, 537 01 Chrudim
Company Registration No. 25916629

for the Testing Laboratory No. **1012**
Laboratory Chrudim

Scope of accreditation:

Physico-chemical, chemical, microbiological and ecotoxicological tests of water, aqueous extracts, soils, sludge, sediments and waste, including sampling, sampling and measurement of emissions from stationary sources, workplace, indoor and outdoor air and soil air, measurement of noise, vibrations and lighting 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.: 398/2024 of 15/08/2024, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **04/11/2030**

Prague: 04/11/2025

Český institut pro akreditaci, o.p.s. «CAI»

Signed in the Czech original:
Gor Petrosjan on 04/11/2025

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. 562/2025 of 4/11/2025

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

BIOANALYTIKA CZ, s.r.o.
CAB number 1012, Laboratory Chrudim
Píšťovy 820, Chrudim III, 537 01 Chrudim

Testing laboratory locations:

1. **Laboratory Chrudim** Píšťovy 820, Chrudim III, 537 01 Chrudim
2. **Workplace Dražkovice** Dražkovice č. p. 212, 533 33 Pardubice V

The laboratory applies a flexible approach to the scope of accreditation.
The current list of activities carried out within the flexible scope is available on the laboratory's website https://www.bioanalytika.cz/ke-stazeni in the form of the „List of activities within the flexible scope of accreditation".
The laboratory provides opinions and interpretations of the test results.
The laboratory is qualified to carry out standalone sampling.
Detailed information on activities within the scope of accreditation (determined analytes / tested subject / subject of sampling / source literature) is given in the section „Specification of the scope of accreditation".

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	**Gravimetric methods**			
1.1[1]	Determination of dry matter by gravimetry	SOP - 13 (JPP ÚKZÚZ Brno 2020; ČSN EN 15934)	Soils, sludge, sediments, solid waste, composts	A, D
1.2[1]	Determination of combustibles (ash) by gravimetry	SOP - 14 (JPP ÚKZÚZ Brno 2020; ČSN EN 15935)	Soils, sludge, sediments, solid waste, composts	A, D
1.3[1]	Determination of dissolved solids (RL 105 °C) by gravimetry	SOP - 15 (ČSN 75 7346)	Water, aqueous leachate	A
1.4[1]	Determination of suspended solids (NL105 °C) and loss on ignition of suspended solids (NL 550 °C) by gravimetry	SOP - 16 (ČSN EN 872; ČSN 75 7350)	Water	A, D
1.5[1]	Determination of dissolved inorganic salts (RAS) by gravimetric method after filtration through glass fibre filters	SOP - 17 (ČSN 75 7347)	Water, aqueous leachate	A, D
1.6[2]	Determination of mass concentration of solid pollutants and dust by gravimetry	SOP - 206 (ČSN EN 13284-1; ČSN EN ISO 16911-1; ČSN EN 15259; GR No. 361/2007 Sb.)	Emissions, working, indoor and outdoor air (filters)	D
2	**Titrimetric methods**			

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
2.1[1]	Determination of chemical oxygen demand with dichromate (COD_{Cr}) by titration	SOP - 21 (ČSN ISO 6060)	Water, bathing water, aqueous leachate	A, D
2.2[1]	Determination of chemical oxygen demand with permanganate (COD-Mn) by titration	SOP - 22 (ČSN EN ISO 8467)	Water, bathing water, hot water, aqueous leachate	A, D
2.3[1]	Determination of chloride by silver nitrate titration according to Mohr and calculation of the content of water-soluble chlorides in dry matter from the values determined for the aqueous leachate	SOP - 34 (ČSN ISO 9297)	Water, aqueous leachate	A, D
2.4[1]	Determination of sulphate by titration with lead nitrate and calculation of the content of water-soluble sulphate in dry matter from the values determined for the aqueous leachate	SOP - 36 (ČSN 75 7477)	Water, aqueous leachate	A, D
2.5[1]	Determination of acid neutralizing capacity ($ANC_{4,5}$ and $ANC_{8,3}$) by neutralization titration and calculation of carbon dioxide forms from measured values of ANC and base neutralizing capacity BNC	SOP - 37 (ČSN EN ISO 9963-1; ČSN 75 7373)	Drinking, ground water	A, D
2.6[1]	Determination of base neutralizing capacity ($BNC_{8,3}$ and $BNC_{4,5}$) by neutralization titration	SOP - 38 (ČSN 75 7372)	Drinking, ground water	A, D
2.7[1]	Determination of calcium and magnesium (water hardness) by complexometry	SOP - 39 A (ČSN ISO 6059)	Drinking water, bottled water, surface water, ground water	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
2.8[1]	Determination of calcium by complexometry and magnesium by calculation from measured values	SOP - 39 B (ČSN ISO 6058)	Drinking water, bottled water, surface water, ground water	A, D
2.9[1]	Determination of total nitrogen according to Kjeldahl by titration and C:N ratio from measured values	SOP - 126 (ČSN EN 16169; ČSN EN 13342; ČSN ISO 11261; ČSN EN 13654-1)	Soils, sludge, sediments, treated biowaste, composts	A, D
3	**Electrochemical methods**			
3.1*[1]	Determination of redox potential (ORP)	SOP - 02 (ČSN 75 7367)	Water, bathing water	A, D
3.2[1]	Determination of pH by potentiometry	SOP - 10 A (ČSN ISO 10523)	Water, hot water, bathing water, aqueous leachate	A, D
3.3*[1]	Determination of pH by potentiometry	SOP - 10 B (ČSN ISO 10523)	Water, hot water, bathing water	A, D
3.4[1]	Determination of pH by potentiometry	SOP - 11 (JPP ÚKZÚZ Brno 2010; ČSN EN ISO 10390)	Soils, sludge, sediments, solid waste, composts	A, D
3.5[1]	Determination of electrical conductivity	SOP - 12 A (ČSN EN 27888)	Water, aqueous leachate	A, D
3.6*[1]	Determination of electrical conductivity	SOP - 12 B (ČSN EN 27888)	Water	A, D
3.7*[1]	Determination of dissolved oxygen – electrochemical probe method	SOP - 06 B (ČSN EN ISO 5814)	Water, bathing water	A, D
3.8[1]	Determination of fluoride by ion selective electrode	SOP - 18 (ČSN ISO 10359-1)	Water, aqueous leachate	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
3.9[1]	Determination of chloride by argentometry with microcoulometric generation of Ag^+ and potentiometric detection of equivalence point and calculation of the content of water-soluble chlorides in dry matter from the values determined for the aqueous leachate	SOP - 35 (LABTECH company manual)	Water, aqueous leachate	A, D
3.10[1]	Determination of adsorbable organically bound halogens (AOX) by coulometry	SOP - 81 (ČSN EN ISO 9562; TNI 75 7531)	Water, aqueous leachate	A, D
3.11[1]	Determination of adsorbable organically bound halogens (AOX) by coulometry	SOP - 96 (ČSN EN 16166)	Soils, sludge, sediments, solid waste	A, D
3.12[1]	Determination of extractable organically bound halogens (EOX) by coulometry	SOP - 95 (DIN 38414-17:2014)	Soils, sludge, sediments, solid waste	A, D
3.13[1]	Determination of bromates, chlorites and chlorates by capillary electrophoresis	SOP - 119 (Application sheet No. 24, Villa Labeco, s.r.o.)	Water, aqueous leachate	A, D
3.14*[2]	Determination of the volume concentration of oxygen by automatic analyzer (paramagnetic method)	SOP - 203 (ČSN EN 14789)	Emissions	D
3.15[1]	Determination of mass concentration of gaseous inorganic compounds of fluorine by ion selective electrode	SOP - 207 (ČSN P CEN/TS 17340)	Emissions, working, indoor and outdoor air (absorbate)	D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
3.16[1]	Determination of mass concentration of gaseous inorganic compounds of chlorine by argentometry with microcoulometric generation of Ag^+ and potentiometric detection of equivalence point	SOP - 208 (ČSN EN 1911; LABTECH manual)	Emissions, working, indoor and outdoor air (absorbate)	D
4	**Spectrophotometric and spectral methods**			
4.1*[1]	Determination of free and total chlorine by spectrophotometry using a commercial analytical kit and calculation of bound chlorine from measured values	SOP - 03 A (HANNA manual; (HACH manual)	Drinking, bottled water, hot water, bathing water	-
4.2*[1]	Determination of dissolved oxygen – method with optical sensor	SOP - 06 A (ČSN ISO 17289)	Water, bathing water	A
4.3*[1]	Determination of ozone by spectrophotometry using a commercial analytical kit	SOP - 07 (HACH manual)	Water, bathing water, bottled water	-
4.4[1]	Determination of turbidity by nephelometry – commercial analytical kit	SOP - 09 A (ČSN EN ISO 7027-1; Lovibond manual; HACH manual)	Drinking, bottled water, hot water, bathing water, ground water, surface water	-
4.5*[1]	Determination of turbidity by turbidimetry – commercial analytical kit	SOP - 09 B (Lovibond manual; HANNA manual)	Drinking, bottled water, hot water, bathing water, ground water, surface water	-
4.6*[1]	Determination of chlorine dioxide by spectrophotometry – commercial analytical kit	SOP - 03 B (HACH manual)	Drinking, bottled water, hot water, bathing water	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
4.7[1]	Determination of biochemical oxygen demand (BOD-5) by standard dilution method with nitrification suppression (optical probe measurement)	SOP - 19 (ČSN EN ISO 5815-1)	Water	A, D
4.8[1]	Determination of chemical oxygen demand with dichromate (COD-Cr) by spectrophotometry – commercial analytical kit	SOP - 20 (ČSN ISO 15705; HACH manual; Merck manual)	Water, hot water, aqueous leachate	-
4.9[1]	Determination of ammonium (NH_4^+) by manual spectrophotometric method, ammonia nitrogen ($N\text{-}NH_4$) and free ammonia (NH_3) by calculation from measured values	SOP - 23 (ČSN ISO 7150-1; Pitter, P. and col.: Hydrochemistry, 4th issue, UCT Prague 2009)	Water, hot water, aqueous leachate	A, D
4.10[1]	Determination of nitrite (NO_2) by spectrophotometry with sulfanilic acid and N-(1-naphthyl)-1,2-ethylenediaminedihydrochloride and nitrite nitrogen ($N\text{-}NO_2$) by calculation from measured values	SOP - 24 (ČSN EN 26777)	Water, hot water, aqueous leachate	A, D
4.11[1]	Determination of nitrate nitrogen ($N\text{-}NO_3$) by spectrophotometry	SOP - 25 (JPP ÚKZÚZ, Brno 2011; ČSN 75 7455)	Soils, sediments, sludge, solid waste	A, D
4.12[1]	Determination of nitrate (NO_3) by spectrophotometry in UV range	SOP - 26 (Horáková M. and col.: Chemical and Physical Methods for Water Analysis, Prague, 1986)	Drinking, bottled water	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
4.13[1]	Determination of total nitrogen (N-total) as nitrate by spectrophotometry after oxidation with Merck Crack Set agent and inorganic nitrogen (N-inorg) by calculation from the measured values	SOP - 27 (Merck manual)	Water, hot water, aqueous leachate	-
4.14[1]	Determination of dissolved inorganic phosphates by spectrophotometry – commercial analytical kit	SOP - 28 (Merck manual)	Water, hot water, aqueous leachate	-
4.15[1]	Determination of total phosphorus (P-total) by spectrophotometry after transformation to phosphate by Merck Crack Set agent	SOP - 29 (Merck manual)	Water, aqueous leachate	-
4.16[1]	Determination of ammonia nitrogen ($N\text{-}NH_4$) by spectrophotometry	SOP - 30 (JPP ÚKZÚZ, Brno 2011)	Soils, sediments, sludge, solid waste	A, D
4.17[1]	Determination of total and free cyanides after distillation by spectrophotometry	SOP - 31 (ČSN ISO 6703-1:1995; ČSN ISO 6703-2; ČSN 75 7415)	Water, aqueous leachate	A, D
4.18[1]	Determination of total cyanide after distillation by spectrophotometry	SOP - 52 (EPA Method 9013A; ČSN 75 7415)	Soils, solid waste	A, D
4.19[1]	Determination of univalent phenols volatilising with water steam by spectrophotometry with 4-aminoantipyrine	SOP - 32 (ČSN ISO 6439)	Water, aqueous leachate	A, D
4.20[1]	Determination of phenols volatilising with water steam by spectrophotometry with 4-aminoantipyrine	SOP - 53 (EPA Method 420.1; ČSN ISO 6439)	Soils, sediments, solid waste	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
4.21[1]	Determination of the mass concentration of phenols by spectrophotometry – commercial analytical kit	SOP - 219 (Merck manual)	Emissions, working, indoor and outdoor air (absorbate), water, aqueous leachate	-
4.22[1]	Determination of hexavalent chromium (Cr^{VI+}) by spectrophotometry	SOP - 33 (ČSN ISO 11083; ČSN EN ISO 18412)	Water, aqueous leachate	A, D
4.23[1]	Determination of hexavalent chromium (Cr^{VI+}) by alkaline digestion by spectrophotometry	SOP - 111 (ČSN EN ISO 15192)	Soils, sludge, sediments, solid waste	A, D
4.24[1]	Determination of humic substances (HL) by spectrophotometry	SOP - 54 (ČSN 75 7536)	Drinking, surface, ground water, bottled water, raw water intended for treatment into drinking water	D
4.25[1]	Determination of colour by spectrophotometry	SOP - 55 (ČSN EN ISO 7887, C method)	Water, bathing water, hot water, aqueous leachate	A, D
4.26[1]	Determination of absorbance of 254 nm wavelength UV radiation	SOP - 56(ČSN 75 7360)	Water, bathing water, aqueous leachate	A, D
4.27[1]	Determination of reactive silicon with ammonium molybdate by spectrophotometry and calculation of SiO_2 from measured values	SOP - 57 (ČSN 75 7481)	Drinking, surface, ground water	A, D
4.28[1]	Determination of nonpolar extractives (NEL) and extractives (EL) by infrared spectrometry method	SOP - 61 (ČSN 75 7505:1998; ČSN 75 7506)	Water, aqueous leachate	D
4.29[1]	Determination of nonpolar extractives (NE) by infrared spectrometry	SOP - 62 (TNV 75 8052)	Soils, sludge, sediments, solid waste	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
4.30[1]	Determination of Fe^{II+} by absorption spectrophotometry with o-phenanthroline and Fe^{III+} by calculation from measured values	SOP - 40 (ČSN ISO 6332)	Drinking, ground water	A, D
4.31[1]	Determination of chlorophyll-a by spectrophotometry	SOP - 49 (ČSN ISO 10260)	Surface water, bathing water (natural bathing places)	D
4.32[1]	Determination of nitrate by photometric method with 2,6-dimethylphenol in test tubes and nitrate nitrogen ($N\text{-}NO_3$) by calculation from measured values	SOP - 104 B (ČSN 75 7455)	Water, bathing water, aqueous leachate	A, D
4.33[1]	Determination of anionic surfactants by spectrophotometry	SOP - 89 (ČSN EN 903)	Drinking, surface, ground and waste water	A, D
4.34[1]	Determination of anionic surfactants by spectrophotometry – commercial analytical kit	SOP - 118 (Merck manual)	Water, aqueous leachate	-
4.35[1]	Determination of non-ionic surfactants by spectrophotometry – commercial analytical kit	SOP - 109 (Merck manual)	Drinking, surface, ground and waste water	-
4.36[1]	Determination of dissolved sulphides by spectrophotometry – commercial analytical kit and calculation of sulfane from measured values	SOP - 90 (ČSN ISO 10530; Merck manual)	Drinking, surface, ground and waste water	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
4.37[1]	Determination of total organic carbon (TOC), dissolved organic carbon (DOC), and total inorganic carbon (TIC) using an NDIR analyzer, and total carbon (TC) by calculation from measured values	SOP - 79 (ČSN EN 1484)	Water, hot water, bathing water, aqueous leachate	A, D
4.38[1]	Determination of total organic carbon (TOC) and total carbon (TC) using an NDIR analyzer and inorganic carbon (TIC) by calculation from measured values	SOP - 80 (ČSN EN 13137:2002; ČSN ISO 10694; ČSN EN 15936)	Soils, sediments, sludge, solid waste	A, D
4.39*[2]	Determination of the mass concentration of gaseous pollutants using automated NO_x, CO, SO_2 analyzers (NDIR)	SOP - 202 A (ČSN ISO 10849; ČSN EN 15058; ČSN ISO 7935)	Emissions	D
4.40*[2]	Determination of methane (CH_4) by automated analyser (NDIR)	SOP - 205 (Optima 7 Biogas Instructions for Use)	Soil air	A, D
4.41[1]	Determination of mass concentration of ammonia by spectrophotometry	SOP - 209 (ČSN 83 4728-1; ČSN 83 4728-4)	Emissions, working, indoor and outdoor air (absorbate)	D
4.42*[2]	Determination of mass concentration of gaseous pollutants (NOx) by automatic analyzers (chemiluminescence)	SOP - 202 B (ČSN EN 14792; ČSN ISO 10849)	Emissions	D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
4.43[1]	Determination of mass concentration of hydrogen cyanide and cyanide by spectrophotometry	SOP - 211 (ČSN ISO 6703-1:1995; ČSN ISO 6703-2; ČSN 75 7415; EPA Method 9010B)	Emissions, working, indoor and outdoor air (absorbate)	D
4.44*[2]	Preliminary detection of asbestos by near-infrared spectroscopy (NIR) method	SOP - 229 (Thermo Scientific manual)	Construction materials, materials from construction	A, D
4.45[2]	Qualitative determination of inorganic fibres, including asbestos fibres, by scanning electron microscope with EDX analyzer - SEM/EDX	SOP - 227 (VDI 3866 Part V)	Construction materials, materials from construction	A, D
4.46[2]	Determination of numerical concentration of inorganic fibres, including asbestos fibres, in air by scanning electron microscope with EDX analyzer – SEM/EDX	SOP - 228 (ČSN EN ISO 16000-7; ISO 14966; VDI 3492; GR No. 361/2007 Sb.)	Indoor, outdoor, workplace air	D
4.47[1]	Determination of Kjeldahl nitrogen by spectrophotometry	SOP - 125 (ČSN EN 25663; ČSN ISO 7150-1)	Water, aqueous leachate	A, D
4.48[1]	Determination of mass concentration of strong inorganic acids by spectrophotometry	SOP - 212 (Sanitary Regulation No. 60, page 40 - 42, 1981)	Emissions, working, indoor and outdoor air (absorbate)	D
5	**Element analysis**			
5.1[1]	Determination of selected elements using the flame AAS method and calculation of water hardness from measured calcium and magnesium values	SOP - 41 (ČSN EN ISO 5961; ČSN ISO 7980; ČSN ISO 8288; ČSN 75 7400; ČSN EN 1233)	Water, aqueous leachate	A, B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
5.2[1]	Determination of selected elements by flame AAS method	SOP - 42 (ČSN EN ISO 5961; ČSN ISO 7980; ČSN ISO 8288; ČSN 75 7400; ČSN EN 1233)	Soils, sediments, sludge, solid waste	A, B, D
5.3[1]	Determination of selected elements by flame AAS method	SOP - 43 (ČSN EN ISO 5961; ČSN ISO 7980; ČSN ISO 8288; ČSN 75 7400; ČSN EN 1233; ČSN EN 14385)	Working environment, emissions (absorbate, condensate, filter)	B, D
5.4[1]	Determination of selected elements by AAS/ETA method	SOP - 44 (ČSN EN ISO 5961; ČSN EN ISO 15586)	Water, bathing water, aqueous leachate	A, B, D
5.5[1]	Determination of selected elements by AAS/ETA method	SOP - 45 (ČSN EN ISO 5961; ČSN EN ISO 15586)	Soils, sediments, sludge, solid waste	A, B, D
5.6[1]	Determination of selected elements by AAS/ETA method	SOP - 46 (ČSN EN ISO 5961; ČSN EN ISO 15586; ČSN EN 14385)	Working environment, emissions (absorbate, condensate, filter)	B, D
5.7[1]	Determination of mercury by AMA254 analyzer	SOP - 47 (ČSN 75 7440)	Water, aqueous leachate, soils, sediments, sludge, solid waste, working environment, emissions (absorbate, condensate, filter)	A, D
5.8[1]	Determination of sodium and potassium by flame emission spectrometry and determination of total mineralization by calculation from measured values	SOP - 48 (ČSN ISO 9964-3; ČSN 75 7358)	Water, aqueous leachate	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
5.9[1]	Determination of selected elements by ICP/OES method	SOP - 101 (ČSN EN ISO 11885; Shimadzu ICPE-9000 Manual)	Water, bathing water, aqueous leachate	A, B, D
5.10[1]	Determination of selected elements by ICP/OES method	SOP - 102 (ČSN EN ISO 11885; ČSN EN 13657; Shimadzu ICPE-9000 Manual)	Soils, sediments, sludge, solid waste	A, B, D
5.11[1]	Determination of selected elements by ICP/OES method	SOP - 103 (ČSN EN ISO 11885; Shimadzu ICPE-9000 Manual; ČSN EN 14385)	Working environment, emissions (absorbate, condensate, filter)	B, D
5.12[1]	Determination of selected elements by ICP/MS method	SOP - 113 (ČSN EN ISO 17294-1; ČSN EN ISO 17294-2)	Water, bathing water, aqueous leachate	A, B, D
5.13[1]	Determination of selected elements by ICP/MS method	SOP - 114 (ČSN EN 16171)	Soils, sediments, sludge, solid waste	A, B, D
5.14[1]	Determination of selected elements by ICP/MS method	SOP - 115 (ČSN EN 16171; Shimadzu instrument manual; ČSN EN 14385)	Working environment, emissions (absorbate, condensate, filter)	B, D
5.15[2]	Determination of mass concentration of elements by calculation from measured values[4] (As, Cd, Be, Cr, Co, Ni, Tl, Se, Te, Sb, Sn, Mn, Cu, Pb, V, Zn, Al, Hg, Cr^{VI+})	SOP - 214 (ČSN EN 13211; ČSN EN 14385; EPA Method 29; EPA Method 0061)	Emissions (filter, absorbate)	B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
6	**Chromatographic methods**			
6.1[1]	Determination of volatile organic compounds by static head space GC/MS method and calculation of summary parameters from measured values	SOP - 63 (ČSN EN ISO 10301)	Water, hot water, aqueous leachate	A, B, D
6.2[1]	Determination of volatile organic compounds by static head space GC/MS method and calculation of summary parameters from measured values	SOP - 64 (ČSN EN ISO 22155)	Soils, sediments, sludge, solid waste	A, B, D
6.3[1]	Determination of polycyclic aromatic hydrocarbon by GC/MS method and calculation of summary parameters from measured values	SOP - 65 (ČSN EN 17503)	Soils, sediments, sludge, solid waste, bituminous mixtures	A, B, D
6.4[1]	Determination of hydrocarbons C_{10} to C_{40} by gas chromatography method GC/FID	SOP - 66 (ČSN EN ISO 9377-2)	Water, aqueous leachate	A, D
6.5[1]	Determination of hydrocarbons C_{10} to C_{40} by gas chromatography method GC/FID	SOP - 67 (ČSN EN 14039; ČSN P CEN ISO/TS 16558-2)	Soils, sediments, sludge, solid waste	A, D
6.6[1]	Determination of polychlorinated biphenyls (PCB) by GC/MS method and calculation of summary parameters from measured values	SOP - 68 (ČSN EN ISO 6468)	Water, aqueous leachate	A, B, D
6.7[1]	Determination of polychlorinated biphenyls (PCB) by GC/MS method and calculation of summary parameters from measured values	SOP - 69 (ČSN EN 61619; ČSN EN 17322; DIN 38407-2: 1993)	Soils, sediments, sludge, solid waste, petroleum products	A, B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
6.8[1]	Determination of specified organochlorinated pesticides (OCP) and chlorobenzenes by GC/MS method after liquid/liquid extraction and calculation of summary parameters from measured values	SOP - 70 (ČSN EN ISO 6468)	Water, aqueous leachate	A, B, D
6.9[1]	Determination of selected pesticides by GC/MS method and calculation of summary parameters from measured values	SOP - 71 (DIN 38407-2: 1993; EPA Method 8270C; EPA Method 8141B; EPA Method 3550C)	Soils, sediments, sludge, solid waste	A, B, D
6.10[1]	Determination of methane by gas chromatography GC/FID method	SOP - 72 (ČSN EN 482; Supelco, Application Note 10, 1994)	Soil air	D
6.11[1]	Determination of light volatile hydrocarbons (methane, ethane, ethene) by gas chromatography GC/FID method	SOP - 73 (Determination of Methane in Water – Final Report No. 21/1990)	Ground water	B, D
6.12[1]	Determination of polycyclic aromatic hydrocarbons (PAH) by HPLC method with fluorescence detection and calculation of summary parameters from measured values	SOP - 74 (ČSN EN ISO 17993)	Water, aqueous leachate	A, B, D
6.13[1]	Determination of polycyclic aromatic hydrocarbons (PAH) by HPLC method with fluorescence detection and calculation of summary parameters from measured values	SOP - 75 (Bulletin of the Laboratory Department 2/2003, ÚKZÚZ Brno)	Soils, sediments, sludge, solid waste	A, B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
6.14[1]	Determination of polycyclic aromatic hydrocarbons (PAH) by GC/MS method and calculation of summary parameters from measured values	SOP - 76 (ČSN P ISO/TS 28581)	Water, aqueous leachate	A, B, D
6.15[1]	Determination of selected phenol derivatives by GC / MS method and calculation of summary parameters from measured values	SOP - 82 (ČSN EN 12673)	Drinking water, ground, surface and waste water, aqueous leachate	A, B, D
6.16[1]	Determination of selected phenol derivatives by GC / MS method and calculation of summary parameters from measured values	SOP - 58 (EPA Method 8041 A; EPA Method 3550 C; EPA Method 3650 B)	Soils, sediments, solid waste	A, B, D
6.17[1]	Determination of aniline and its selected derivatives by GC/MS method	SOP - 87 (EPA Method 8270 D; EPA Method 3510 C)	Ground water, surface water, waste water	A, B, D
6.18[1]	Determination of selected pesticides by LC/MS/MS method	SOP - 123 (EPA Method 538)	Drinking water	A, B, D
6.19[1]	Determination of selected alkylphenols by GC/MS/MS method	SOP - 124 (EPA Method 525.3; ČSN EN ISO 18857-2)	Drinking water	A, B, D
6.20[1]	Determination of the mass concentration of volatile organic compounds (VOC) by GC/MS method	SOP - 213 (ČSN P CEN/TS 13649)	Emissions, working, indoor and outdoor air, soil air (sorbent)	B, D
6.21[1]	Determination of carbonyl compounds after catching on a sorbent with bound 2,4-dinitrophenylhydrazíne by HPLC method with UV detection	SOP - 224 (EPA Method TO-5)	Emissions, working, indoor and outdoor air	B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
6.22[1]	Determination of selected per- and polyfluoroalkyl substances (PFAS) by liquid chromatography (LC/MS) method and calculation of summary parameters from measured values	SOP - 127 (ČSN EN 17892)	Drinking water	A, B, D
7	**Other chemical and physicochemical methods**			
7.1*[1]	Determination of temperature	SOP - 01 (ČSN 75 7342)	Water, hot water, bathing water	A
7.2*[2]	Determination of velocity and volume flow rate	SOP - 200 (ČSN ISO 10780; ČSN EN ISO 16911-1; ČSN EN 15259)	Emissions	D
7.3*[2]	Determination of water vapour in ducts (by condensation, condensation adsorption method, capacitance detector)	SOP - 201 (ČSN EN 14790)	Emissions	D
7.4*[2]	Determination of total mass concentration of organic compounds expressed as total organic carbon (TOC) by automatic analyzers (FID)	SOP - 204 (ČSN EN 12619)	Emissions	D
7.5[2]	Determination of the mass concentration of persistent organic compounds (POPs) by calculation from measured values[4] (PCDD/PCDF, PCB, PAH)	SOP - 215 (ČSN EN 1948-3; ČSN EN 1948-4+A1; ISO 11338-1:2003; ISO 11338-2:2003)	Emissions (filter, condensate, absorbate)	D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
7.6[2]	Determination of the mass concentration of gases and vapours[4] taken into liquid by the calculation from measured values	SOP - 216 (ČSN EN 1911; ČSN P CEN/TS 17340; ČSN 83 4728-1; Government Regulation No. 361/2007 Sb.; ČSN EN 482; ČSN EN 689+AC; ČSN EN ISO 16017-1)	Emissions, working and indoor air	D
7.7[2]	Determination of mass concentration of organic compounds[4] by capture on a solid sorbent by calculation from measured values	SOP - 217 (ČSN P CEN/TS 13649; Government Regulation No. 361/2007 Sb.; ČSN EN 482; ČSN EN 689+AC; ČSN EN ISO 16017-1)	Emissions, working and indoor air	D
7.8*[2]	Measurement of microclimatic conditions (resulting temperature of a spherical thermometer, air temperature, relative air humidity, air flow velocity, operating temperature)	SOP - 218 (ČSN EN ISO 7726; MoH Bulletin No. 8/2013; ČSN EN ISO 7730)	Working, indoor and outdoor air	D
7.9*[2]	Semiquantitative determination of analytes by means of detection tubes	SOP - 223 (ČSN EN ISO 17621; Gastec and Dräger manuals)	Emissions, working, indoor and outdoor air, soil air	B, D
8	**Microbiological tests**			
8.1[1]	Detection and enumeration of *Pseudomonas aeruginosa* by membrane filtration method	SOP - 300 (ČSN EN ISO 16266)	Drinking water, hot water, surface water, waste water, bottled water, bathing water, mineral water	A, D
8.2[1]	Detection and enumeration of *Clostridium perfringens* by membrane filtration method	SOP - 301 (Decree No. 252/2004 Sb., Annex No. 6)	Drinking water, surface water, waste water, bathing water	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
8.3[1]	Determination of thermotolerant coliform bacteria by membrane filtration method	SOP - 302 (ČSN 75 7835)	Drinking water, surface water, waste water, bathing water	A, D
8.4[1]	Enumeration of *Staphylococcus aureus* by membrane filtration method	SOP - 303 (ČSN EN ISO 6888-1)	Bathing water, surface water, waste water, hot water	A, D
8.5[1]	Enumeration of indicator microorganisms by direct inoculation method	SOP - 304 (AHEM 1/2008; AHEM 7/2001)	Sludge, sand, sediments, composts	A, D
8.6[1]	Detection and enumeration of *Clostridium perfringens* by membrane filtration method	SOP - 327 (ČSN EN ISO 14189)	Drinking water, ground water, surface water	A, D
8.7[1]	Enumeration of culturable microorganisms at 22 °C and 36 °C by direct inoculation in a nutrient agar culture medium	SOP - 306 (ČSN EN ISO 6222)	Drinking water, bottled water, bathing water, hot water, ground water, surface water, mineral water	A, D
8.8[1]	Detection and enumeration of coliform bacteria by membrane filtration method	SOP - 307 (ČSN 75 7837)	Drinking water, surface water, waste water, bathing water	A, D
8.9[1]	Detection and enumeration of intestinal enterococci by membrane filtration method	SOP - 308 (ČSN EN ISO 7899-2)	Drinking water, bottled water, bathing water, ground water, surface water, waste water, mineral water	A, D
8.10[1]	Detection and enumeration of mesophilic bacteria by direct inoculation in a nutrient agar culture medium	SOP - 309 (ČSN 75 7841)	Surface, ground water	A, D
8.11[1]	Detection and enumeration of psychrophilic bacteria by direct inoculation in a nutrient agar culture medium	SOP - 310 (ČSN 75 7842)	Surface, ground water	A, D
8.12[1]	Detection and enumeration of *Escherichia coli* and coliform bacteria by membrane filtration method	SOP - 311 (ČSN EN ISO 9308-1)	Drinking water, bottled water, water at the outlet of water treatment plants, bathing water, mineral water, hot water	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
8.13[1]	Detection and enumeration of sulfite-reducing anaerobes (clostridia) by membrane filtration method	SOP - 312 (ČSN EN 26461-2)	Bottled water, bathing water, waste water, ground water, mineral water	A, D
8.14[1]	Detection and enumeration of *Legionella spp.* by membrane filtration and direct inoculation method	SOP - 313 (ČSN EN ISO 11731)	Drinking water, hot water, bathing water	A, D
9	**Biological, ecotoxicological, and sensory tests**			
9.1[1]	Determination of abioseston by microscopic method	SOP - 316 (ČSN 75 7713)	Drinking water, surface water, ground water	A, D
9.2[1]	Determination of bioseston by microscopic method	SOP - 317 (ČSN 75 7712)	Drinking water, bottled water, surface water, ground water	A, D
9.3[1]	Determination of the inhibition of the mobility of *Daphnia magna*	SOP - 351 (ČSN EN ISO 6341)	Soils, waste, water, aqueous leachate	A, D
9.4[1]	Fresh water green algal growth inhibition test with *Desmodesmus subspicatus*	SOP - 352 (ČSN EN ISO 8692)	Soils, waste, water, aqueous leachate	A, D
9.5[1]	*Sinapis alba* root growth inhibition test	SOP - 353 (Guideline No. 8, MoE CR Bulletin, XVII, No. 4/2007)	Soils, waste, water, aqueous leachate	A, D
9.6[1]	Test of the inhibitory effect on the light emission of luminescent bacteria *Aliivibrio fischeri*	SOP - 354 (ČSN EN ISO 11348-2; ČSN EN ISO 11348-3; Decree No. 273/2021 Sb.; Decree No. 8/2021 Sb.)	Soils, waste, water, aqueous leachate	A, D
9.7[1]	Test of root growth inhibition in lettuce *Lactuca sativa*	SOP - 355 (ČSN EN ISO 11,269-1; Decree No. 273/2021 Sb.; Decree No. 8/2021 Sb.)	Soils, waste	A, D
9.8*[1]	Determination of odour and flavour – preliminary sensory tests	SOP - 05 (ČSN EN 1622; ČSN 75 7340)	Drinking water, bottled water, hot water	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
9.9*[1]	Determination of transparency	SOP - 08 (ČSN 75 7340)	Bathing water	-
10	**Radiochemical tests**			
10.1[1]	Determination of radon^{222} activity concentration by gamma radiation measurement	SOP - 50 (ČSN 75 7624)	Drinking water, bottled water, ground water	-
10.2[1]	Determination of gross alpha activity concentration by scintillation, corrected gross alpha activity concentration by calculation from measured values and calculation of total indicative dose	SOP - 121 (ČSN 75 7611; Recommendation SÚJB DR-RO-5.1, 2017)	Water	D
10.3[1]	Determination of gross beta activity by the measurement of evaporation residue with proportional detector and gross beta activity with potassium 40 correction by calculation from the measured values	SOP - 122 (ČSN 75 7612; Recommendation SÚJB DR-RO-5.1, 2017)	Water	D
11	**Physical tests**			
11.1*[2]	Measurement of noise	SOP - 220 (MoH Bulletin No. 4/2013; ČSN ISO 1996-1; ČSN EN ISO 9612)	Working environment	D
11.2*[2]	Measurement of noise	SOP - 221 (OVZ-32.0-19.2.2007/6306; TP 189; MoH CR Guideline, Part 14, 2023; ČSN ISO 1996-1; ČSN ISO 1996-2; ČSN ISO 9613-2; ČSN EN ISO 11201; ČSN EN ISO 11202)	Non-working environment	D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
11.3*[2]	Determination of the sound power level	SOP - 222 (ČSN ISO 1996-1; ČSN EN ISO 3744; ČSN EN ISO 3746; ČSN EN ISO 3747)	Noise sources	D
11.4*[2]	Measurement of vibration	SOP - 225 (ČSN EN ISO 5349-1; ČSN EN ISO 5349-2; ČSN ISO 5348; ČSN ISO 2631-1; ČSN EN 14253+A1; ČSN EN ISO 8041-1; MoH Bulletin No. 4/2013)	Working environment	D
11.5*[2]	Measurement of electrical lighting	SOP - 226 (ČSN EN 12665; ČSN 36 0011-1; ČSN 36 0011-3; ČSN 36 0011-4; ČSN EN 12464-1; ČSN EN 12464-2; ČSN EN 12193; ČSN EN 1838 ed. 2; TNI 36 0450; TNI 36 0451)	Indoor environment	D

[1] 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)

[2] 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)

[3] degree of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test.

[4] laboratory determination of the analytes in the sample is carried out by an external test provider within the scope of its accreditation

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
5.1, 5.2, 5.3	Ag, Ca, Co, Cu, Mn, Fe, Ni, Mg, Cr, Zn, Cd, Pb, Na, K
5.4, 5.5, 5.6	As, Sb, Ba, Be, Sn, Cd, Pb, Mo, Se, Tl, V
5.9, 5.10, 5.11, 5.13, 5.14	Ag, Al, As, Ba, Be, Bi, B, Cd, Ca, Cr, Co, Cu, K, Li, Fe, Mg, Mn, Mo, Na, Ni, P, Pb, Rb, Sb, Se, Sn, Sr, Ti, Tl, V, W, Zn
5.12	Ag, Al, As, Ba, Be, Bi, B, Cd, Ca, Cr, Co, Cu, K, Li, Fe, Mg, Mn, Mo, Na, Ni, P, Pb, Rb, Sb, Se, Sn, Sr, Ti, Tl, V, W, Zn, U
6.1	Benzene, toluene, ethylbenzene, xylenes, styrene, chlorobenzene, 1,2-dichlorobenzenene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,1,2-trichloroethene (TCE), 1,1,2,2-tetrachloroethene (PCE), 1,1-dichloroethene, 1,2-cis-dichloroethene, 1,2-trans-dichloroethene, vinylchloride, 1,1-dichloroethane, 1,2-dichloroethane, dichloromethane, trichloromethane, tetrachloromethane, bromodichloromethane, dibromochloromethane, bromoform, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 2-methoxy-2-methylpropane (MTBE), naphthalene
6.2	Benzene, toluene, ethylbenzene, xylenes, styrene, chlorobenzene, 1,2-dichlorobenzenene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,1,2-trichloroethene (TCE), 1,1,2,2-tetrachloroethene (PCE), 1,1-dichloroethene, 1,2-cis-dichloroethene, 1,2-trans-dichloroethene, vinylchloride, 1,1-dichloroethane, 1,2-dichloroethane, dichloromethane, trichloromethane, tetrachloromethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 2-methoxy-2-methylpropane (MTBE), naphthalene
6.3, 6.14	Acenaphthene, acenaphthylene, anthracene, benzo/a/anthracene, benzo/b/fluoranthene, benzo/k/fluoranthene, benzo/ghi/perylene, benzo/a/pyrene, dibenzo/a,h/anthracene, phenanthrene, fluorene, fluoranthene, chrysene, indeno/1,2,3-cd/pyrene, naphthalene, pyrene
6.6, 6.7	PCB-28, PCB-52, PCB-101, PCB-118, PCB-138, PCB-153, PCB-180
6.8	1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, 1,2,5,6-tetrachlorobenzene, 1,2,4,6-tetrachlorobenzene, 1,2,3,4-tetrachlorobenzene, pentachlorobenzene, hexachlorobenzene, alpha-HCH, beta-HCH, gamma-HCH, delta-HCH, heptachlor, heptachlor epoxide, alachlor, aldrin, dieldrin, endrin, isodrin, trifluralin, p,p´-DDE, p,p´-DDD, p,p´-DDT, o,p-DDE, o,p-DDD, o,p-DDT, methoxychlor

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Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
6.9	1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, 1,2,3,5-tetrachlorobenzene, 1,3-butadiene, 1,1,2,3,4,4-hexachloro, pentachlorobenzene, hexachlorobenzene, alpha-HCH, beta-HCH, gamma-HCH, delta-HCH, heptachlor, alachlor, aldrin, dieldrin, isodrin, trifluralin, p,p´-DDE, p,p´-DDD, p,p´-DDT, o,p-DDE, o,p – DDD, o,p – DDT, methoxychlor, isoproturon, chlorotoluron, diuron, metoxuron, desethylatrazine, propazine, methabenzthiazuron, atrazine, monolinuron, terbutylazine, simazine, metobromuron, prometryn, metolachlor, chlorpyrifos, linuron, cyanazine, metazachlor, hexazinone
6.12, 6.13	Acenaphthene, anthracene, benzo/a/anthracene, benzo/b/fluoranthene, benzo/k/fluoranthene, benzo/ghi/perylene, benzo/a/pyrene, dibenzo/a,h/anthracene, phenanthrene, fluorene, fluoranthene, chrysene, indeno/1,2,3-cd/pyrene, naphthalene, pyrene
6.15, 6.16	Phenol, 2-chlorophenol, 3-chlorophenol, 4-chlorophenol, 2,3-dichlorphenol, 2,4-dichlorophenol, 2,5-dichlorophenol, 2,6-dichlorophenol, 3,4-dichlorophenol, 3,5-dichlorophenol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 2,3,4-trichlorophenol, 2,3,5-trichlorophenol, 3,4,5-trichlorophenol, 2,3,4,5-tetrachlorophenol, 2,3,5,6-tetrachlorophenol, 2,3,4,6-tetrachlorophenol, pentachlorophenol, 2-methylphenol, 3-methylphenol, 4-methylphenol, 2,3-dimethylphenol, 2-naphthol
6.17	Anilíne, N-ethylaniline
6.18	Atrazine, atrazine-desethyl, chloridazon, chloridazon-methyl-desphenyl, cyanazine, dimetachlor ESA, diuron, hexazinone, isoproturon, linuron, metazachlor, metazachlor ESA, methabenzthiazuron, metobromuron, metolachlor, monolinuron, propachlor, simazine, terbutylazine, terbutylazine-desethyl
6.19	Bisphenol A
6.20	Benzene, toluene, ethylbenzene, xylenes, styrene, chlorobenzene, 1,2-dichlorobenzenene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,1,2-trichloroethene (TCE), 1,1,2,2-tetrachloroethene (PCE), 1,1-dichloroethene, 1,2-cis-dichloroethene, 1,1-dichloroethane, 1,2-dichloroethane, dichloromethane, trichloromethane, tetrachloromethane, bromodichloromethane, dibromochloromethane, bromoform, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 2-methoxy-2-methylpropane (MTBE), tert-butyl ethylether (ETBE), naphthalene, acetone, 2-butanol, 2-propanol, ethylacetate, butylacetate, propylbenzene, 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, methylethylketon
6.21	Formaldehyde, acetaldehyde, acetone, acrolein

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Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
6.22	Perfluorobutanoic acid (PFBA); perfluoroheptanoic acid (PFHpA); perfluorohexanoic acid (PFHxA); perfluoropentanoic acid (PFPeA); perfluorooctanoic acid (PFOA); perfluorononanoic acid (PFNA); perfluorodecanoic acid (PFDA); perfluoroundecanoic acid (PFUdA); perfluorododecanoic acid (PFDoA); perfluorotridecanoic acid (PFTrDA); perfluorobutane sulfonic acid (PFBS); perfluoroheptane sulfonic acid (PFHpS); perfluorohexane sulfonic acid (PFHxS); perfluoropentane sulfonic acid (PFPS); perfluorooctane sulfonic acid (PFOS); perfluorononane sulfonic acid (PFNS); perfluorodecane sulfonic acid (PFDS); perfluoroundecane sulfonic acid (PFUnS); perfluorododecane sulfonic acid (PFDoS); perfluorotridecane sulfonic acid (PFTrS)
7.6	Emissions: HF, HCl, Cl_2, H^+, HCN, CN^-, NH_3, H_2S, phenols, SO_2; Working and indoor air: CN, Phenol, H_2S, HCl, HF, NH_3, H_2SO_4, HNO_3, H_3PO_4, KOH, NaOH, Cr tot., Cr^{6+}, Cu, Mn, Ni, Zn, Pb, Cd, Sn, Al, Mo, Ag, Se, Mo, Pt, Co, Ti, according to Government Regulation No. 361/2007 Sb.
7.7	Emissions: VOC, carbonyl compounds; Working and indoor air: aliphatic, aromatic, and halogenated hydrocarbons, carbonyl compounds, and isocyanates according to Government Regulation No. 361/2007 Sb.
7.9	NH_3, C_6H_6, Cl_2, HCl, HF, HCHO, HNO_3, NO_2, SO_2, CO, CO_2, NO_x, O_3, H_2S, PCE, TCE

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
1.3, 1.4, 1.5, 2.1, 2.2, 2.3, 2.4, 3.1, 3.2, 3.3, 3.5, 3.6, 3.7, 3.8, 3.9, 3.10, 3.13, 4.2, 4.7, 4.8, 4.9, 4.10, 4.13, 4.14, 4.15, 4.17, 4.19, 4.21, 4.22, 4.25, 4.26, 4.28, 4.32, 4.34, 4.37, 4.47, 5.1, 5.4, 5.7, 5.8, 5.9, 5.12, 6.1, 6.4, 6.6, 6.8, 6.12, 6.14, 7.1, 9.3, 9.4, 9.5, 9.6, 10.2, 10.3	Water: drinking water including water for the production of drinking water and bottled water, surface water, ground water, waste water
1.3, 1.5, 2.1, 2.2, 2.3, 2.4, 3.2, 3.5, 3.8, 3.9, 3.10, 3.13, 4.8, 4.9, 4.10, 4.13, 4.14, 4.15, 4.17, 4.19, 4.21, 4.22, 4.25, 4.26, 4.28, 4.32, 4.34, 4.37, 4.47, 5.1, 5.4, 5.7, 5.8, 5.9, 5.12, 6.1, 6.4, 6.6, 6.8, 6.12, 6.14, 6.15, 9.3, 9.4, 9.5, 9.6	Aqueous leachate: aqueous leachates of waste according to Decree No. 273/2021 Sb. and Decree No. 294/2005 Sb. (cancalled as of 31.12.2020), prepared according to ČSN EN 12457-4
1.6, 3.14, 3.15, 3.16, 4.21, 4.39, 4.41, 4.42, 4.43, 4.48, 5.3, 5.6, 5.7, 5.11, 5.14, 5.15, 6.20, 6.21, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.9	Emissions: waste gas containing pollutants released in a controlled manner or leaking into atmosphere from air pollution sources

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Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
8.1, 8.7, 8.9, 8.12, 8.13	Mineral water: a source of water for filling swimming pools for medical purposes according to Decree No. 423/2001 Sb.
2.7, 2.8, 4.1, 4.3, 4.4, 4.5, 4.6, 4.12, 4.24, 8.1, 8.7, 8.9, 8.12, 8.13, 9.2, 9.8, 10.1	Bottled water: according to Decree No. 13/2024 Sb.
2.1, 2.2, 3.2, 3.3, 4.1, 4.4, 4.5, 4.6, 4.8, 4.9, 4.10, 4.13, 4.14, 4.25, 4.37, 6.1, 7.1, 8.1, 8.4, 8.7, 8.12, 8.14, 9.8	Hot water: definition according to Decree No. 252/2004 Sb., as amended
2.2, 3.1, 3.2, 3.3, 3.7, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.25, 4.26, 4.31, 4.32, 4.37, 5.4, 5.9, 5.12, 7.1, 8.1, 8.2, 8.3, 8.4, 8.7, 8.8, 8.9, 8.12, 8.13, 8.14, 9.9	Bathing water: artificial water reservoirs (swimming and bathing pools, pools for sucklings and toddlers, sauna cooling pools) and natural bathing places and other surface water for bathing
1.1, 1.2, 3.4, 3.11, 3.12, 4.11, 4.16, 4.18, 4.20, 4.23, 4.29, 4.38, 5.2, 5.5, 5.7, 5.10, 5.13, 6.2, 6.3, 6.5, 6.7, 6.9, 6.13, 6.16, 9.3, 9.4, 9.5, 9.6, 9.7	Waste, solid waste: definition according to the Act No. 541/2020 Sb. on Waste
2.9	Treated biowaste: biodegradable waste that has undergone a treatment process, usually composting, and is intended for further use, e.g., as fertilizer.
1.1, 1.2, 2.9, 3.4, 8.5	Compost: organic fertilizer produced by controlled biological decomposition of a mixture of plant and animal residues, used to improve soil and plant growth.
1.1, 1.2, 2.9, 3.4, 3.11, 3.12, 4.11, 4.16, 4.20, 4.23, 4.29, 4.38, 5.2, 5.5, 5.7, 5.10, 5.13, 6.2, 6.3, 6.5, 6.7, 6.9, 6.13, 6.16, 8.5	Sediment: deposits formed by the settling of solid particles at the bottom of a space filled with liquid (e.g., lake, river, retention reservoir, etc.)
1.1, 1.2, 2.9, 3.4, 3.11, 3.12, 4.11, 4.16, 4.23, 4.29, 4.38, 5.2, 5.5, 5.7, 5.10, 5.13, 6.2, 6.3, 6.5, 6.7, 6.9, 6.13, 8.5	Sludge: definition according to Act No. 541/2020 Sb., on waste, sludge, treated sludge, water treatment plant sludge, control of efficiency of water treatment plant sludge sanitation
1.1, 1.2, 2.9, 3.4, 3.11, 3.12, 4.11, 4.16, 4.18, 4.20, 4.23, 4.29, 4.38, 5.2, 5.5, 5.7, 5.10, 5.13, 6.2, 6.3, 6.5, 6.7, 6.9, 6.13, 6.16, 9.3, 9.4, 9.5, 9.6, 9.7	Soils: definition according to ČSN EN ISO 14688-1, soil processed according to Decree No. 8/2021 Sb., Decree No. 257/2009 Sb., Decree No. 273/2021 Sb., Decree No. 294/2005 Sb. (cancelled as of 31/12/2020)

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Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
6.7	Petroleum products: used oils and lubricants, liquid waste consisting mainly of waste oils and lubricants
4.44, 4.45	Building materials: new or unused building materials and raw materials for their production
4.44, 4.45	Materials from construction: demolished material, recyclate, disposed building materials
6.3	Bituminous mixtures: definition according to Decree No. 283/2023 Sb.

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1.1	JPP ÚKZÚZ Brno 2020 - Zbíral J. et al.: Uniform working procedures – Testing of Fertilizers, Procedure No. 20001.1, ÚKZÚZ Brno 2020
1.2	JPP ÚKZÚZ Brno 2020 - Zbíral J. et al.: Uniform working procedures – Testing of Fertilizers, Procedure No. 20010.1, ÚKZÚZ Brno 2020
1.6, 4.46	GR No. 361/2007 Sb. - Government Regulation of December 12, 2007, laying down conditions for occupational health and safety
3.4	JPP ÚKZÚZ Brno 2010 - Zbíral, J. et al.: Uniform working procedures – Analysis of Soils, Procedure No. 30040.1, ÚKZÚZ Brno 2010
4.9	Pitter P. et al.: Hydrochemistry, UCT Prague, 4th Edition, 2009, page 206-209
4.11	JPP ÚKZÚZ Brno 2011 - Zbíral, J., Malý, S., Váňa, M. et al.: Uniform working procedures – Analysis of Soils III, ÚKZÚZ Brno 2011, Procedure No. 30930.1
4.12	Horáková M. et al.: Chemical and Physical Methods for Water Analysis, Prague, 1986, page 226-227
4.16	JPP ÚKZÚZ Brno 2011 - Zbíral, J., Malý, S., Váňa, M. et al.: Uniform working procedures – Analysis of Soils III, ÚKZÚZ Brno 2011, Procedures No. 30930.1, 30936.1
6.11	Determination of Methane in Water - Final Report No. 21/1990 - Lewin,K., Blakey, N.C., Cooke, D.A.: The Validation of Methodology in the Determination of Methane in Water – Final Report No. 21/1990. Water Research Centre, Marlow, Buckinghamshire SL7 2HD
6.13	Bulletin of the Laboratory Department 2/2003, ÚKZÚZ Brno-Plhalová, Š., Veverková I.: Determination of PAH in soils by HPLC method, Laboratory Department Bulletin 2/2003, ÚKZÚZ Brno
7.8	MoH CR Bulletin, No. 8/2013 – Methodological guide for the measurement and evaluation of microclimatic parameters of working environment and indoor areas of buildings

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Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
8.2	Decree No. 252/2004 Sb. laying down the sanitary requirements for drinking and hot water and the frequency and scope of drinking water testing, Annex No. 6
9.5	Guideline No. 8, MoE CR Bulletin, XVII, No. 4/2007 - Guideline of the Waste Department for the determination of waste ecotoxicity
9.6, 9.7	Decree No. 273/2021 Sb., on the details of waste management
9.6, 9.7	Decree No. 8/2021 Sb., on the Waste Catalogue and assessment of waste properties (Waste Catalogue)
10.2, 10.3	Recommendation SÚJB DR-RO-5.1, 2017 – Measurement and assessment of the content of natural radionuclides in drinking water for public use and in bottled water
11.1, 11.4	MoA CR Bulletin No. 4/2013 – Guideline for the measurement and evaluation of noise and vibrations at workplace and vibrations in protected indoor areas of buildings
11.2	OVZ-32.0-19.02.2007/6306 – Methodological guide for the measurement and assessment of noise from air traffic.
11.2	TP 189 – Determination of traffic intensity on urban roads (methodology of the Ministry of Transport of the Czech Republic)
11.2	MoH CR Bulletin, Part 14, 2023 – Methodological guide for the measurement and evaluation of noise in non-working environment;

Sampling:

Ordinal number [2]	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1[1]	Drinking water sampling	SOP-V-01 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-5; ČSN EN ISO 5667-14; ČSN EN ISO 19458; Decree No. 252/2004 Sb.)	Drinking water, bottled water
2[1]	Waste water sampling, manual and by automatic sampler	SOP-V-02 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14)	Industrial and sewage waste water

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Ordinal number [2]	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
3[1]	Manual sampling of sludge from WWTP	SOP-V-03 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-13; ČSN EN ISO 5667-15)	Dewatered sludge from WWTP
4[1]	Sampling of soils and solid waste	SOP-V-04 (TNI CEN/TR 15310-1; TNI CEN/TR 15310-2; TNI CEN/TR 15310-3; TNI CEN/TR 15310-4; TNI CEN/TR 15310-5)	Soils, solid waste
5[1]	Sampling of sediments	SOP-V-05 (ČSN EN ISO 5667-1; ČSN ISO 5667-12; ČSN EN ISO 5667-14; ČSN EN ISO 5667-15)	Sediments
6[1]	Ground water sampling, manual and with pressure pump	SOP-V-06 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-11; ČSN EN ISO 5667-14)	Ground water
7[1]	Manual sampling of surface water	SOP-V-07 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-6; ČSN ISO 5667-4; ČSN EN ISO 5667-14)	Surface water
8[1]	Bathing water sampling	SOP-V-08 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN EN ISO 5667-14; ČSN EN ISO 19458; Decree No. 238/2011 Sb.)	Artificial bathing places

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Ordinal number [2]	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
9[1]	Sampling of water from natural bathing places	SOP-V-09 (ČSN EN ISO 19458; ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN EN ISO 5667-6; ČSN EN ISO 5667-14; ČSN 75 7712; ČSN 75 7717; ČSN 75 7340; Decree No. 238/2011 Sb.)	Natural bathing places
10[2]	Sampling of building materials for qualitative determination of asbestos and other fibres	SOP-V-10 (VDI 3866, Part1)	Construction materials, materials from construction
11[2]	Gas and vapour sampling by absorption into liquid	SOP-V-20 (ČSN EN 1911; ČSN 83 4728-1; ČSN 83 4728-2; ČSN P CEN/TS 17340; ČSN EN 14791; ČSN 83 4711-1; ČSN 83 4711-2; Sanitary Regulation No. 52, page 40; ČSN 83 4712-1; ČSN 83 4712-2; ČSN ISO 6703-2)	Emissions
12[2]	Sampling of gases and vapours by sorption on a solid sorbent	SOP-V-21 (ČSN P CEN/TS 13649)	Emissions
13[2]	Sampling of solid pollutants (isokinetic sampling with automatic isokinetic control)	SOP-V-22 (ČSN EN 13284-1; ČSN EN ISO 16911-1)	Emissions

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Ordinal number [2]	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
14[2]	Sampling of solid pollutants (isokinetic sampling with manual isokinetic control)	SOP-V-23 (ČSN EN 13284-1; ČSN EN ISO 16911-1)	Emissions
15[2]	Sampling for the determination of heavy metals – isokinetic sampling with manual, automatic isokinetic control and absorption into liquid	SOP-V-24 (ČSN EN 13284-1; ČSN EN 14385; ČSN EN 13211; EPA Method 29; EPA Method 0061)	Emissions
16[2]	Sampling for the determination of persistent organic compounds POPs – isokinetic sampling with automatic, manual isokinetic control, filtration condensation method	SOP-V-25 (ČSN EN 13284-1; ČSN EN 1948-1; ČSN EN 1948-4+A1; ISO 11338-1:2003)	Emissions
17[2]	Sampling of air for the determination of gases and vapours	SOP-V-26 (ČSN EN 482; ČSN EN 689+AC; ČSN EN ISO 16000-1; ČSN EN ISO 16000-2; ČSN EN ISO 16000-5; ČSN EN ISO 16000-11; ČSN EN ISO 16017-1; GR No. 361/2007 Sb.; Decree No. 43/2025 Sb.)	Working, indoor and outdoor air
18[2]	Sampling of air for the determination of dust content and aerosols	SOP-V-27 (ČSN EN 481; ČSN EN 482; ČSN EN 689+AC; ČSN EN ISO 16000-1; GR No. 361/2007 Sb.; Decree No. 43/2025 Sb.)	Working, indoor and outdoor air

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Ordinal number [2]	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
19[1]	Soil air sampling	SOP-V-29 (ME Guideline – Sampling in Rehabilitation Geology, chap. III.10 Sampling of air and air mass, 2006)	Soil air
20[2]	Air sampling for the determination of the numerical concentration of mineral fibers, including asbestos	SOP-V-30 (ČSN EN ISO 16000-7; GR No. 361/2007 Sb.; Decree No. 43/2025 Sb.)	Working, indoor and outdoor air

[1] 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 edition of the specified procedure is used (including any changes)

[2] superscript at the sampling ordinal number identifies the number of the location carrying out the sampling (the locations are identified on the first page of the document)

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (subject of sampling)
11, 12, 13, 14, 15, 16	Emissions: waste gas containing pollutants released in a controlled manner or leaking into atmosphere from air pollution sources
10	Construction materials: new or unused building materials and raw materials for their production
10	Materials from construction: demolished material, recyclate, disposed building materials

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1	Decree No. 252/2004 Sb. laying down the sanitary requirements for drinking and hot water and the frequency and scope of drinking water testing
8, 9	Decree No. 238/2011 Sb., laying down hygiene requirements for bathing places, saunas and hygiene limits for sandboxes of outdoor playgrounds
17, 18, 20	Government Regulation No. 361/2007 Sb., laying down conditions for occupational health and safety
17, 18, 20	Decree No. 43/2025 Sb., on the determination of hygienic limits for chemical, physical, and biological indicators for the indoor environment of living spaces in certain buildings

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Explanations:

AAS	Atomic Absorption Spectrometry
AAS/ETA	Atomic Absorption Spectrometry with electrothermal atomization
AHEM	Acta Hygienica, Epidemiologica et Microbiologica, information, methodological and working materials in the field of public health protection, periodical of the National Institute of Public Health
AMA	Advanced Mercury Analyser
DIN	Deutsches Institut für Normung, German national standardization organization
DOC	Dissolved Organic Carbon
EDX	Energy Dispersive X-Ray Spectroscopy
Emissions	Waste gas containing pollutants released in a controlled manner or leaking into atmosphere from stationary sources of pollution.
EPA	United States Envinronmental Agency, standard of the US Environmental Protection Agency
FID	Flame Ionization Detection
GC	Gas chromatography
GC/FID	Gas Chromatography with Flame Ionization Detector
GC/MS	Gas Chromatography with mass spectrometry
GC/MS/MS	Gas Chromatography with tandem mass spectrometry
HPLC	High-Performance Liquid Chromatography
ICP/MS	Atomic emission spectrometry with inductively coupled plasma and mass detection
ICP/OES	Optical Atomic Emission Spectrometry with Inductively Coupled Plasma
ISO	International Organization for Standardization
JPP ÚKZÚZ	Uniform Working Procedure of the Central Institute for Supervising and Testing in Agriculture
LC/MS/MS	Liquid Chromatography with tandem mass spectrometry
MZ:	Ministry of Health of the Czech Republic
MŽP	Ministry of Environment of the Czech Republic
NDIR	Nondispersive Infrared Spectroscopy
NIR	Near Infrared Spectroscopy

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GR	Government Regulation
OCP	Organochlorinated pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PCDD/PCDF	Polychlorinated dibenzo-p-dioxins and dibenzofurans
SEM/EDX	Scanning electron microscopy with energy dispersive X-ray spectroscopy
SOP	Standard operating procedure
SÚJB	State Office for Nuclear Safety
TC	Total Carbon
TIC	Total inorganically bound carbon
TOC	Total organically bound carbon
TNI	Technical Standardization Information
TNV	Research institute technical standard, industry technical standard
TP	Specifications of the Ministry of Transport of the Czech Republic
UV	Ultraviolet detection
VDI	Verein Deutscher Ingenieure – German standard

"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. "