The Appendix is an integral part of
Certificate of Accreditation No. 684/2023 of 19/12/2023

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

VODÁRENSKÁ AKCIOVÁ SPOLEČNOST, a.s.

CAB number 1249, Water Laboratories

Soběšická 151, Lesná, 638 00 Brno

Testing laboratory locations:

1. **Workplace Brno** — **Soběšická 151, Lesná, 638 00 Brno**
2. **Workplace Boskovice** — **Podlesí, 680 01, Boskovice**
3. **Workplace Jihlava** — **Žižkova 93, 586 01, Jihlava**
4. **Workplace Třebíč** — **Kubišova 1172, 674 11, Třebíč**
   - Drinking Water Laboratory
5. **Workplace Třebíč** — **Brněnská, 674 01, Třebíč**
   - Waste Water Laboratory
6. **Workplace Znojmo** — **Pražská 2801/119, 669 02, Znojmo**
   - Drinking Water Laboratory
7. **Workplace Znojmo** — **Dyjská 241, 671 82, Dobšice**
   - Waste Water Laboratory
8. **Workplace Žďár nad Sázavou** — **Studentská 1133, 591 21, Žďár nad Sázavou**

The laboratory applies a flexible approach to the scope of accreditation.

The current list of activities carried out within the flexible scope is publicly available on the laboratory's website www.vodarenska.cz/laboratore in the form „List of activities within the flexible scope of accreditation".

The laboratory is qualified to carry out standalone sampling.

Detailed information on activities within the scope of accreditation (determined analytes/ tested subject/ source literature) is given in the section „Specification of the scope of accreditation".

1. **Workplace Brno**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1*	Determination of pH by potentiometry	SOP No.3/2013/III (ČSN ISO 10523)	Water drinking, ground, surface and waste, bathing, aqueous extracts of waste	-
2	Determination of pH by potentiometry	SOP No.1B (ČSN EN ISO 10390)	Sludge	-
3	Determination of electrical conductivity	SOP No. 8/2013/III (ČSN EN 27888)	Water drinking, ground, surface and waste, aqueous extracts of waste	-
4	Determination of fluoride by ion-selective electrode	SOP No.3 (ČSN ISO 10359-1)	Water drinking, ground, surface and waste, aqueous extracts of waste	-
5	Determination of absorbance at 254 nm by photometry	SOP No.39/2015/III (ČSN 75 7360)	Water drinking, ground and surface, waste	-
6	Determination of dissolved and total solids, loss on	SOP No.21/2014/III (ČSN 75 7346; ČSN 75 7347)	Water drinking, ground, surface and waste, aqueous extracts of waste	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
	ignition and RAS by gravimetry			
7	Determination of suspended solids and loss on ignition by gravimetry	SOP No.22/2014/III (ČSN EN 872; ČSN 75 7350)	Water drinking, ground, surface and waste, aqueous extracts of waste	-
8	Determination of total substances – dry matter and water content by gravimetry	SOP No. 71 (ČSN EN 15934)	Sludge	-
9	Determination of the loss on ignition by gravimetry	SOP No.72 (ČSN EN 15935)	Sludge	-
10	Titrimetric determination of chemical oxygen demand using permanganate (COD_{Mn})	SOP No.40/2015/III (ČSN EN ISO 8467)	Water drinking, ground and surface, bathing	-
11	Determination of chemical oxygen demand with dichromate (COD_{Cr}) by spectrophotometry using KAS – HACH	SOP No.8B (ČSN ISO 15705; HACH/MERCK manual)	Water drinking, ground, surface and waste, aqueous extracts of waste	-
12	Determination of biochemical oxygen demand after 5 days (BOD_5) by LDO probe	SOP No.9/2013/III (ČSN EN ISO 5815-1; ČSN EN 1899-2)	Water drinking, ground surface and waste	-
13	Determination of ammonium and ammonia nitrogen by spectrophotometry	SOP No.23/2014/III (ČSN ISO 7150-1)	Water drinking, ground, surface and waste, bathing	-
14	Determination of nitrite and nitrite nitrogen by spectrophotometry	SOP No.24/2014/III (ČSN EN 26 777)	Water drinking, ground, surface and waste, aqueous extracts of waste	-
15	Determination of nitrate and nitrate nitrogen by spectrophotometry and inorganic nitrogen by calculation from measured values	SOP No.25/2014/III (ČSN ISO 7890-3)	Water drinking, ground, surface and waste, bathing	-
16	Determination of organic nitrogen by spectrophotometry according to Kjeldahl	SOP No.16B (ČSN EN 13342)	Sludge	-
17	Determination of chloride - Silver nitrate titration	SOP No.18 (ČSN ISO 9297)	Water drinking, ground, surface, waste, aqueous extracts of waste	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
18	Determination of sulphate by spectrophotometry using KAS – HACH	SOP No.53/2017/III (HACH manual)	Water waste, aqueous extracts of waste	-
19	Determination of nitrate nitrogen by spectrophotometric method using KAS – HACH and nitrate by calculation from measured values	SOP No.51/2017/III (HACH manual)	Water surface and waste	-
20	Determination of nitrite nitrogen by spectrophotometric method using KAS – HACH and nitrite by calculation from measured values	SOP No.52/2017/III (HACH manual)	Water surface and waste	-
21	Determination of dissolved sulphide by spectrophotometry using KAS – HACH	SOP No.57/2023/III (ČSN ISO 10530; HACH manual)	Water drinking, ground, surface, waste	-
22	Determination of acid neutralizing capacity (ANC) by titration	SOP No.41/2015/III (ČSN EN ISO 9963-1)	Water drinking, ground and surface	-
23	Determination of base neutralizing capacity (BNC) by titration	SOP No.42/2015/III (ČSN 75 7372)	Water drinking, ground and surface	-
24	Determination of turbidity by nephelometry	SOP No.44/2015/III (ČSN EN ISO 7027-1)	Water drinking, ground and surface, bathing	-
25	Photometric determination of colour by the determination of absorption at 410 nm wavelength	SOP No.10/2013/III (ČSN EN ISO 7887; Method C)	Water drinking, ground and surface	-
26*	Determination of free and total chlorine by spectrophotometry using KAS - HACH and bound chlorine by calculation from measured values	SOP No.4/2013/III (ČSN EN ISO 7393-2; HACH manual)	Water drinking and waste, bathing	-
27*	Determination of water temperature	SOP No.7/2013/III (ČSN 75 7342)	Water drinking, ground, surface and waste, bathing	-
28*	Preliminary sensory determination of odour and taste	SOP No.5/2013/III (ČSN EN 1622; ČSN 75 7340)	Water drinking, surface and ground	-
29*	Determination of dissolved oxygen by luminescence method by LDO probe	SOP No.6B/2013/III (ČSN ISO 17289; HACH manual)	Water drinking, ground, surface and waste, bathing	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
30	Determination of total nitrogen after oxidation to nitrogen oxides by analyzer TOC/TN	SOP No.66 (ČSN EN ISO 20236)	Water drinking, ground, surface and waste, aqueous extracts of waste	-
31	Determination of phenols by spectrophotometry	SOP No.23 (ČSN ISO 6439)	Water drinking, ground, surface, waste, aqueous extracts of waste	-
32	Determination of cyanide by spectrophotometry	SOP No.24 (ČSN 75 7415)	Water drinking, ground, surface and waste, aqueous extracts of waste	-
33	Determination of humic substances by spectrophotometry	SOP No.43/2015/III (ČSN 75 7536)	Water drinking, ground and surface	-
34	Determination of anionic surfactants by spectrophotometry.	SOP No.26 (ČSN EN 903)	Water drinking, ground, surface and waste, aqueous extracts of waste	-
35	Determination of EL by gravimetry	SOP No.76 (ČSN 75 7508)	Water ground, surface and waste	-
36	Determination of dissolved anions by ion chromatography method with conductivity detector	SOP No.2/2012/III (ČSN EN ISO 10304-1; ČSN EN ISO 10304-4; ČSN EN ISO 15061)	Water drinking, ground and surface, bathing	B
37	Determination of pH by potentiometry using automatic analyser Gallery	SOP No.27/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
38	Determination of electric conductivity using automatic analyser Gallery	SOP No.28/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
39	Determination of ammonium by photometry using automatic analyser Gallery	SOP No.29/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
40	Determination of nitrate by photometry using automatic analyser Gallery	SOP No.30/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
41	Determination of nitrite by photometry using automatic analyser Gallery	SOP No.31/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
42	Determination of phosphate by photometry using automatic analyser Gallery	SOP No.32/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
43	Determination of chlorides by photometry using automatic analyser Gallery	SOP No.33/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
44	Determination of sulphate by photometry using automatic analyser Gallery	SOP No.34/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
45	Determination of acid neutralizing capacity (ANC) by photometry using automatic analyser Gallery	SOP No.35/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
46	Determination of colour by photometry using automatic analyser Gallery	SOP No.36/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
47	Determination of calcium by photometry using automatic analyzer Gallery and the sum of calcium and magnesium by calculation from measured values	SOP No.45/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
48	Determination of magnesium by photometry using automatic analyser Gallery and the sum of calcium and magnesium by calculation	SOP No.46/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
49	Determination of iron by photometry using automatic analyzer Gallery	SOP No.47/2016/III (Thermo Scientific manual)	Water drinking, ground and surface	-
50	Determination of manganese by photometry using automatic analyser Gallery	SOP No.48/2016/III (Thermo Scientific manual)	Water drinking, ground and surface	-
51	Determination of aluminium by photometry using automatic analyser Gallery	SOP No.49/2016/III (Thermo Scientific manual)	Water: drinking, ground, surface	-
52-85	Reserved			
86	Determination of nitrate and nitrate nitrogen by spectrophotometry	SOP No.14 (ČSN EN 12457-4; ČSN ISO 7890-3)	Aqueous extracts of waste	-
87	Determination of ammonium and ammonia nitrogen by spectrophotometry	SOP No.11 (ČSN EN 12457-4; ČSN ISO 7150-1)	Aqueous extracts of waste	-
88-100	Reserved			
101	Determination of abioseston by microscopic method	SOP No.19/2014/III (ČSN 75 7713)	Water drinking, ground and surface	-
102	Determination of bioseston by microscopic method	SOP No.20/2014/III (ČSN 75 7712)	Water drinking, ground and surface	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
103	Detection and enumeration of *Escherichia coli* and coliform bacteria by membrane filtration method	SOP No.13/2013/III (ČSN EN ISO 9308-1)	Water drinking, ground and surface, bathing	-
104	Detection and enumeration of thermotolerant coliform bacteria and *Escherichia coli* by membrane filtration method	SOP No.12/2013/III (ČSN 75 7835)	Water drinking, ground and surface	-
105	Detection and enumeration of intestinal enterococci by membrane filtration method	SOP No.15/2013/III (ČSN EN ISO 7899-2)	Water drinking, ground and surface, bathing	-
106	Enumeration of culturable microorganisms – Colony count by inoculation in or on a nutrient agar culture medium at 36 °C and at 22 °C	SOP No.16/2013/III (ČSN EN ISO 6222)	Water drinking, ground and surface, bathing	-
107	Enumeration of *Clostridium perfringens* by membrane filtration method	SOP No. 17/2013/III (Regulation No. 252/2004 Coll., Annex No.6)	Water drinking, ground and surface	-
108	Detection and enumeration of *Escherichia coli* and coliform bacteria by the most probable number method with a commercial kit	SOP No.63 (ČSN EN ISO 9308-2; IDEXX, Xebios manufacturer's manual)	Water drinking, ground and surface, bathing	-
109	Detection of *Salmonella* by culture method	SOP No.55 (ČSN ISO 19250)	Water drinking, ground, surface and waste	-
110	Detection and enumeration of thermotolerant coliform bacteria by culture	SOP No.37/2015/III (ČSN 75 7835; AHEM No. 7/2001; AHEM No. 1/2008)	Sludge	-
111	Detection and enumeration of intestinal enterococci by culture method	SOP No.38/2015/III (ČSN EN ISO 7899-2; AHEM No. 7/2001; AHEM No. 1/2008)	Sludge	-
112	Detection of *Salmonella* by culture method	SOP No.69C (ČSN EN ISO 6579-1; AHEM No. 7/2001; AHEM No. 1/2008)	Sludge	-
113	Detection and enumeration of *Legionella* by membrane filtration method	SOP No.60 (ČSN EN ISO 11731 Matrix A, Procedure 7, Medium GVPC)	Water drinking, bathing	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
114	Enumeration of *Staphylococcus aureus* by membrane filtration method	SOP No.53 (ČSN EN ISO 6888-1)	Water drinking, ground and surface, bathing	-
115	Detection and enumeration of *Pseudomonas aeruginosa* by membrane filtration method	SOP No.54 (ČSN EN ISO 16266)	Water drinking, ground and surface, bathing	-
116-117	Reserved			
118	Enumeration of *Clostridium perfringens* - Method using membrane filtration	SOP No. 55/2018/III (ČSN EN ISO 14189)	Water drinking, ground and surface	-
119-125	Reserved			
126	Determination of polychlorinated biphenyls (PCB) by gas chromatography (GC/ECD) and the sum of PCB by calculation from measured values	SOP No.34 A (ČSN EN ISO 6468)	Water drinking, ground, surface and waste, aqueous extracts of waste	B
127	Determination of polychlorinated biphenyls (PCB) by gas chromatography (GC/ECD) and the sum of PCB by calculation from measured values	SOP No.34B (DIN 38414-20; ČSN EN 17322)	Sludge	A, B
128	Determination of organochlorinated pesticides (OCP) by gas chromatography (GC/ECD) and the sum of pesticides by calculation from measured values	SOP No.35 (ČSN EN ISO 6468)	Water drinking, ground, surface and waste	B
129	Determination of volatile organic compounds (TOL) by Purge&Trap method and gas chromatography (GC/FID+ECD) and calculation of the sum of trihalomethanes (THM) from measured values	SOP No.36 (ČSN EN ISO 10301; ČSN EN ISO 15680)	Water drinking, ground, surface and waste, aqueous extracts of waste	B

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
130	Determination of volatile organic compounds (TOL) by Purge&Trap method and gas chromatography (GC/FID + ECD) and calculation of the sum of BTEX from measured values	SOP No.36A (ČSN EN ISO 15009)	Sludge, waste, soils	A, B
131	Determination of polycyclic aromatic hydrocarbons (PAH) by HPLC method with FLU and DAD detection and calculation of the sum of PAH from measured values	SOP No.37A (ČSN EN ISO 17993)	Water drinking, ground, surface and waste, aqueous extracts of waste	B
132	Determination of polycyclic aromatic hydrocarbons (PAH) by HPLC method with FLU and DAD detection and calculation of the sum of PAH	SOP No.37B (ČSN EN 17503)	Sludge	A, B
133	Determination of specified analytes by liquid chromatography (MS/MS) (negative/positive mode) and the sum of pesticides by calculation from measured values	SOP No.54/2018/III (EPA Method 535; EPA Method 536; Agilent Technologies application notes)	Water drinking, ground and surface	A, B
134	Determination of glyphosate and AMPA by liquid chromatography (MS/MS)	SOP No. 55/2019/III (ČSN ISO 21458; EPA Method 535; EPA Method 536)	Water drinking, ground and surface	A
135	Determination of hydrocarbons C_{10} to C_{40} by gas chromatography (GC/FID)	SOP No.56A (ČSN EN ISO 9377-2)	Water drinking, ground, surface and waste, aqueous extracts of waste	-
136	Determination of hydrocarbons C_{10} to C_{40} by gas chromatography (GC/FID)	SOP No.56B (ČSN EN 14039)	Sludge	A
137	Determination of mycrocystin LR by liquid chromatography (MS/MS)	SOP No. 68 (ČSN ISO 20179, Annex A)	Water drinking and surface	A, B

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
138	Determination of organic carbon by analyzer (TOC, DOC)	SOP No. 40 (ČSN EN 1484)	Water drinking, ground, surface and waste, bathing, aqueous extracts of waste	-
139	Determination of the content of adsorbable organically bound halogens (AOX) by coulometric method after thermal decomposition	SOP No.78A (ČSN EN ISO 9562)	Water drinking, ground, surface and waste	-
140	Determination of the content of adsorbable organically bound halogens (AOX) by coulometric method after thermal decomposition	SOP No.78B (DIN 38 414 - 18; ČSN EN 16166)	Sludge	A
141	Determination of haloacetic acids by liquid chromatography (MS/MS) and the sum of haloacetic acids by calculation from measured values	SOP No.56/2023/III (EPA Method 557)	Water drinking, ground, surface	A, B
142-145	Reserved			
146	Determination of metals and non-metals by ICP-MS method, determination of hardness by calculation from measured values	SOP No.18A/2013/III (ČSN EN ISO 17294-2)	Water drinking, ground, surface and waste, aqueous extracts of waste	B
147	Determination of metals and non-metals by ICP-MS method	SOP No.18B/2013/III (ČSN EN ISO 17294-2; ČSN EN 16171)	Sludge	A, B
148	Determination of total mercury by analyser AMA 254	SOP No.29 (ČSN 75 7440)	Water drinking, ground, surface, waste, aqueous extracts of waste, sludge	A
149	Determination of hexavalent chromium by spectrophotometry	SOP No.15 (ČSN ISO 11083)	Drinking, ground and surface water	A
150-155	Reserved			
156	Determination of gross beta activity by proportional detector	SOP No.30 (ČSN 75 7612)	Water drinking, ground, surface, waste and process	-
157	Determination of gross alpha activity by proportional detector	SOP No.77 (ČSN 75 7611)	Water: drinking, ground, surface, waste, process	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
158	Determination of gross alpha activity by scintillation	SOP No.50 (ČSN 75 7611)	Water: drinking, ground, surface, process	-
159	Determination of radium 226 by precipitation method using a scintillation counter	SOP No.31 (ČSN 75 7611)	Water: drinking, ground, surface	-
160	Determination of radon 222 activity concentration by gamma radiation measurement	SOP No.33 (ČSN 75 7624)	Water: drinking, ground, surface	-

[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] degrees 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.

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
36	fluorides, chlorides, nitrites, nitrates, sulphates, phosphates, chlorites, chlorates, bromates, sum of chlorites and chlorates by calculation
126, 127	PCB congeners 28, 52, 101, 118, 138, 153, 180, sum of PCB by calculation
128	endrin, endosulfan, heptachlor, aldrin, dieldrin, methoxychlor, trifluralin, lindan, hexachlorobenzene, p,p – DDE, p,p – DDT, p,p – DDD, HTCH -Epoxide, α,β,γ,δ - HCH, sum of pesticides by calculation
129	1,1, -dichloroethene, o,m,p- dichlorobenzenes, 1,2 – dichloroethane, cis – 1,2- dichloroethene, trans –1,2 dichloroethene, benzene, toluene, o,m,p – xylenes, styrene, ethylbenzene, chlorobenzene, bromodichloromethane, dibromochloromethane, chloroform, bromoform, dichloromethane, trichloroethene, tetrachloroethene, tetrachloromethane, 1,1 – dichloroethane, 1,1,1- trichloroethane, 1,2 – dichloropropane, 1,1,2,- trichloroethane, 1,1,2,2,-tetrachloroethane, sum of trihalomethanes by calculation
130	benzene, ethylbenzene, toluene, m+p xylene, o –xylene, sum of BTEX by calculation

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Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
131 132	naphthalene, fluoranthene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, benzo(g,h,i)perylene, indeno(1,2,3-c,d)pyrene, phenanthrene, anthracene, pyrene, chrysene, benzo(a)anthracene, acenaphthylene, sum of PAH by calculation
133	2,4D (2,4-dichlorophenoxyacetic acid), acetochlor, acetochlor ESA, acetochlor OA, alachlor, alachlor ESA, alachlor OA, aminopyralid, atrazin, atrazin–2–hydroxy, atrazin-desethyl, atrazin-desisopropyl, azoxystrobin, bentazon, bentazon–methyl, boscalid, bromacil, carbendazim, carbetamide, carboxim, chloridazon, chloroxuron, chlorpropham, chlorpyrifos, chlortoluron, chlortoluron-desmethyl, clomazon (=dimethazon), clopyralid, cyanazin, cyproconazole, cyprodinil, desmedipham, dicamba, dichlormid, dichlorprop, difenoconazol, diflufenican, dimefuron, dimethachlor, dimethenamid-P, dimethoate, diuron, epoxiconazol, ethidimuron, ethofumesate, fenpropimorf, fluazifop-P-butyl, fluroxypyr, flusilazol, haloxyfop-methyl, hexazinon, iprovalicarb, isoproturon, isoproturon-desmethyl, kresoxim-methyl, lenacil, linuron, MCPA, MCPB, MCPP, mefenpyr-diethyl, mesotrion, metamitron, metazachlor, metazachlor ESA, metazachlor OA, methabenzthiazuron, methoxyfenozid, metconazole, metobromuron, metolachlor, metolachlor ESA, metolachlor OA, metoxuron, monolinuron, napropamid, pendimethalin, pethoxamid, phenmedipham, prochloraz, prometryne, propazine, propiconazole, prothioconazole, quinmerac, quinoxyfen, sebuthylazine, simazine-2-hydroxy, simazine, spiroxamine, tebuconazole, terbuthylazine, terbuthylazine-desethyl, terbutryn, terbuthylazine-desethyl-2-hydroxy, terbuthylazine-hydroxy, thiacloprid, thiophanate-methyl 2,6 – dichlorobenzamide (BAM), atrazine-desethyl-desisopropyl, dichlorvos, dimethachlor ESA, dimethachlor OA, dimethomorph, dimoxystrobin, fenpropidin, fenuron, chlorfenvinphos, chloridazon-desphenyl, chloridazon-methyl-desphenyl, isoproturon-monodesmethyl, metribuzin, metribuzin-desamino, picoxystrobin, propaquizafop, pyrimethanil, quizalofop-p-ethyl, trifloxystrobin, trinexapac-ethyl, bisphenol A, sum of pesticides by calculation
141	Bromoacetic acid (MBAA), dibromoacetic acid (DBAA), chloroacetic acid (MCAA), dichloroacetic acid (DCAA), trichloroacetic acid (TCAA), sum of haloacetic acids by calculation
146, 147	Ba, Be, B, Ca, Mg, K, Na, Fe, Mn, Al, V, Co, Cu, Pb, Zn, Cd, Cr, Ni, As, Se, Mo, Ag, Sb, Tl, Sn, P, U

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
28	determination of taste of carried out in drinking water matrix only
1, 3, 4, 5, 6, 7, 10, 11, 12, 13, 14, 15, 17, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 101, 102, 103, 104, 105, 106, 107, 108, 109, 113, 114, 115, 118, 126, 128, 129, 131, 133, 134, 135, 137, 138, 139, 141, 146, 148, 149, 156, 157, 158, 159, 160	Drinking water – water in reservoirs, water from water treatment plants (raw and treated), water from hydrants, water supply networks, water supplied by tankers, bottled, hot and process water

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CAB number 1249, Water Laboratories

Soběšická 151, Lesná, 638 00 Brno

Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
1, 3, 4, 5, 6, 7, 10, 11, 12, 13, 14, 15, 17, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 101, 102, 103, 104, 105, 106, 107, 108, 109, 114, 115, 118, 126, 128, 129, 131, 133, 134, 135, 138, 139, 141, 146, 148, 149, 156, 157, 158, 159, 160	Ground water – water in wells, boreholes, water coming from springs
1, 3, 4, 5, 6, 7, 10, 11, 12, 13, 14, 15, 17, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 101, 102, 103, 104, 105, 106, 107, 108, 109, 114, 115, 118, 126, 128, 129, 131, 133, 134, 135, 137, 138, 139, 141, 146, 148, 149, 156, 157, 158, 159, 160	Surface water - flowing watercourses (rivers and streams), stagnant lakes, reservoirs, ponds
1, 3, 4, 6, 7, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 26, 27, 29, 30, 31, 32, 34, 35, 109, 126, 128, 129, 131, 135, 138, 139, 146, 148, 156, 157, 158, 159	Waste water – water from waste water treatment plants, grease or oil separators, drainage, sewage, cooling, process, rinse, industrial water
1, 10, 13, 15, 24, 26, 27, 29, 36, 103, 105, 106, 108, 113, 114, 115, 138	Bathing water – water in natural bathing places, water in swimming pools, spa pools, whirlpool, paddling pool, cooling waters in sauna
1, 3, 4, 6, 7, 11, 13, 14, 15, 17, 18, 30, 31, 32, 34, 86, 87, 126, 129, 131, 135, 138, 146, 148	Extracts – aqueous extracts of soils, sediments and waste in accordance with applicable legislation
2, 8, 9, 16, 110, 111, 112, 127, 130, 132, 136, 140, 147, 148	Sludge – sewage and water treatment sludge, sands, scrapes, floatings, river sediments

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1, 3, 4, 6, 7, 11, 13, 14, 15, 17, 18, 30, 31, 32, 34, 86, 87, 126, 129, 131, 135, 138, 146, 148	Aqueous extracts of waste are prepared according to EN 12457-4

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Manual sampling of drinking water	SP No.1 (ČSN EN ISO 5667-3; ČSN ISO 5667-5; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458; Regulation No. 252/2004 Sb.)	Drinking, hot and bottled water
2	Waste water sampling - manual and by automatic sampler	SP No.2 (ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14; ČSN 75 7315)	Waste water
3	Static sampling of ground water	SP No.3 (ČSN EN ISO 5667-3; ČSN ISO 5667-11; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458)	Ground water
4	Manual sampling of surface water	SP No.4 (ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN EN ISO 5667-6; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458)	Surface water
5	Manual sampling of bathing water	SP No.9 (Regulation No. 238/2011 Sb.; ČSN EN ISO 19458)	Bathing water
6	Manual sludge sampling	SP No.8 (ČSN ISO 5667-12; ČSN EN ISO 5667-13; ČSN EN ISO 5667-15)	Water purification and water treatment sludge, sands, screenings, suspended load, river sediments

[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)

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Soběšická 151, Lesná, 638 00 Brno

2. Workplace Boskovice

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1*	Determination of pH by potentiometry	SOP No.3/2013/III (ČSN ISO 10523)	Water drinking, ground, surface and waste, bathing	-
2	Reserved			
3	Determination of electrical conductivity	SOP No.8/2013/III (ČSN EN 27888)	Water drinking, ground, and surface	-
4-5	Reserved			
6	Determination of dissolved and total solids, loss on ignition and RAS by gravimetry	SOP No.21/2014/III (ČSN 75 7346; ČSN 75 7347)	Water surface and waste	-
7	Determination of suspended solids and loss on ignition by gravimetry	SOP No.22/2014/III (ČSN EN 872; ČSN 75 7350)	Water surface and waste	-
8-9	Reserved			
10	Titrimetric determination of chemical oxygen demand using permanganate (COD_{Mn})	SOP No.40/2015/III (ČSN EN ISO 8467)	Water drinking, ground, and surface	-
11	Determination of chemical oxygen demand with dichromate (COD_{Cr}) by spectrophotometry using KAS - HACH	SOP No.8B (ČSN ISO 15705; HACH manual)	Water waste	-
12	Determination of biochemical oxygen demand after 5 days (BOD_5) by LDO probe	SOP No.9/2013/III (ČSN EN ISO 5815-1; ČSN EN 1899-2)	Water ground surface and waste	-
13	Determination of ammonium and ammonia nitrogen by spectrophotometry	SOP No.23/2014/III (ČSN ISO 7150-1)	Water drinking, ground, surface and waste	-
14	Determination of nitrite and nitrite nitrogen by spectrophotometry	SOP No.24/2014/III (ČSN EN 26777)	Water drinking, ground, surface and waste	-
15	Determination of nitrate and nitrate nitrogen by spectrophotometry and inorganic nitrogen by calculation from measured values	SOP No.25/2014/III (ČSN ISO 7890-3)	Water drinking, ground, surface and waste, bathing	-
16-18	Reserved			

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Soběšická 151, Lesná, 638 00 Brno

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
19	Determination of nitrate nitrogen by spectrophotometric method using KAS – HACH and nitrate by calculation from measured values	SOP No.51/2017/III (HACH manual)	Water drinking, ground, surface and waste	-
20	Determination of nitrite nitrogen by spectrophotometric method using KAS – HACH and nitrite by calculation from measured values	SOP No.52/2017/III (HACH manual)	Water drinking, ground, surface and waste	-
21	Reserved			
22	Determination of acid neutralizing capacity (ANC) by titration	SOP No.41/2015/III (ČSN EN ISO 9963-1)	Water drinking, ground and surface	-
23	Reserved			
24	Determination of turbidity by nephelometry	SOP No.44/2015/III (ČSN EN ISO 7027-1)	Water drinking, ground and surface, bathing	-
25	Photometric determination of colour by the determination of absorption at 410 nm wavelength	SOP No.10/2013/III (ČSN EN ISO 7887; Method C)	Water drinking, ground and surface, bathing	-
26*	Determination of free and total chlorine by spectrophotometry using KAS - HACH and bound chlorine by calculation from measured values	SOP No.4/2013/III (ČSN EN ISO 7393-2; HACH manual)	Water drinking, bathing	-
27*	Determination of temperature	SOP No.7/2013/III (ČSN 75 7342)	Water drinking, ground, surface and waste, bathing	-
28*	Preliminary sensory determination of odour and taste	SOP No.5/2013/III (ČSN EN 1622; ČSN 75 7340)	Water: drinking, ground and surface	-
29*	Determination of dissolved oxygen by luminescence method by LDO probe	SOP No.6B/2013/III (ČSN ISO 17289; HACH manual)	Water drinking, ground, surface and waste	-
30-51	Reserved			
52	Determination of the sum of calcium and magnesium (Ca+Mg) by complexometric titration and magnesium by calculation from measured values	SOP No.5 (ČSN ISO 6059)	Water drinking, ground, and surface	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
53	Determination of manganese by spectrophotometry	SOP No.6	Water drinking, ground and surface	-
54	Determination of iron by spectrophotometry	SOP No.7 (ČSN ISO 6332)	Water drinking, ground and surface	-
55	Determination of calcium by complexometric titration	SOP No.8 (ČSN ISO 6058)	Water drinking, ground and surface	-
56	Determination of aluminium by spectrophotometry	SOP No.9 (ČSN ISO 10566)	Water drinking, ground and surface	-
57	Determination of sulphate by titrimetric method with lead nitrate	SOP No.12 (ČSN 75 7477)	Water drinking, ground and surface	-
58	Determination of chloride - Silver nitrate titration	SOP No.13 (ČSN ISO 9297)	Water drinking, ground and surface	-
59	Determination of phosphate and total phosphorus by spectrophotometry	SOP No.26/2014/III (ČSN EN ISO 6878; MERCK/ HACH manual)	Water drinking, ground, surface and waste	-
60-61	Reserved			
62	Determination of total solids and loss on ignition by gravimetry	SOP No.20B (ČSN EN 15934; ČSN EN 15935)	Sludge	-
63-67	Reserved			
68	Determination of total nitrogen by spectrophotometry using KAS - HACH	SOP No.50/2016/III (ČSN EN ISO 11905-1; HACH manual)	Water waste	A
69-100	Reserved			
101	Determination of abioseston by microscopic method	SOP No.19/2014/III (ČSN 75 7713)	Water drinking, ground and surface	-
102	Determination of bioseston by microscopic method	SOP No.20/2014/III (ČSN 75 7712)	Water drinking, ground and surface	-
103	Detection and enumeration of Escherichia coli and coliform bacteria by membrane filtration method	SOP No.13/2013/III (ČSN EN ISO 9308-1)	Water drinking, ground, and surface, bathing	-
104	Reserved			
105	Detection and enumeration of intestinal enterococci by membrane filtration method	SOP No.15/2013/III (ČSN EN ISO 7899-2)	Water drinking, ground and surface, bathing	-
106	Enumeration of culturable microorganisms – Colony count by inoculation in or on a nutrient agar culture medium at 36 °C and at 22 °C	SOP No.16/2013/III (ČSN EN ISO 6222)	Water drinking, ground and surface, bathing	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
107	Enumeration of *Clostridium perfringens* by membrane filtration method	SOP No.17/2013/III (Regulation No.252/2004 Sb., Annex No.6)	Water drinking, ground and surface	-
108	Detection and enumeration of *Escherichia coli* and coliform bacteria by the most probable number method with a commercial kit	SOP No.63 (ČSN EN ISO 9308-2; IDEXX, Xebios manufacturer's manual)	Water drinking, ground and surface, bathing	-
109-112	Reserved			
113	Detection and enumeration of Legionella by membrane filtration method	SOP No.60 (ČSN EN ISO 11731, Matrix A, Procedure 7, Medium GVPC)	Water drinking, bathing	-
114	Enumeration of Staphylococcus aureus by membrane filtration method	SOP No.53 (ČSN EN ISO 6888-1)	Water drinking, ground and surface, bathing	-
115	Detection and enumeration of Pseudomonas aeruginosa by membrane filtration method	SOP No.54 (ČSN EN ISO 16266)	Water drinking, ground and surface, bathing	-
116-117	Reserved			
118	Enumeration of Clostridium perfringens - Method using membrane filtration	SOP No.55/2018/III (ČSN EN ISO 14189)	Water drinking, ground and surface	-

[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

[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] degrees 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.

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
28	determination of taste of carried out in drinking water matrix only

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
1, 3, 10, 13, 14, 15, 19, 20, 22, 24, 25, 26, 27, 28, 29, 52, 53, 54, 55, 56, 57, 58, 59, 101, 102, 103, 105, 106, 107, 108, 113, 114, 115, 118	Drinking water – water in reservoirs, water from water treatment plants (raw and treated), water from hydrants, water supply networks, water supplied by tankers, bottled, hot and process water
1, 3, 10, 12, 13, 14, 15, 19, 20, 22, 24, 25, 27, 28, 29, 52, 53, 54, 55, 56, 57, 58, 59, 101, 102, 103, 105, 106, 107, 108, 114, 115, 118	Ground water – water in wells, boreholes, water coming from springs
1, 3, 6, 7, 10, 12, 13, 14, 15, 19, 20, 22, 24, 25, 27, 28, 29, 52, 53, 54, 55, 56, 57, 58, 59, 101, 102, 103, 105, 106, 107, 108, 114, 115, 118	Surface water - flowing watercourses (rivers and streams), stagnant lakes, reservoirs, ponds
1, 6, 7, 11, 12, 13, 14, 15, 19, 20, 27, 29, 59, 68	Waste water – water from waste water treatment plants, grease or oil separators, drainage, sewage, cooling, process, rinse, industrial water
1, 15, 24, 25, 26, 27, 103, 105, 106, 108, 113, 114, 115	Bathing water – water in natural bathing places, water in swimming pools, spa pools, whirlpool, paddling pool, cooling waters in sauna
62	Sludge – sewage and water treatment sludge, sands, scrapes, floatings, river sediments

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
53	Ing. Marta Horáková, CSc. et al., Water analysis

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Manual sampling of drinking water	SP No.1 (ČSN EN ISO 5667-3; ČSN ISO 5667-5; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458; Regulation No. 252/2004 Sb.)	Drinking, hot and bottled water
2	Waste water sampling - manual and by automatic sampler	SP No.2 (ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14; ČSN 75 7315)	Waste water
3	Static sampling of ground water	SP No.3 (ČSN EN ISO 5667-3; ČSN ISO 5667-11; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458)	Ground water
4	Manual sampling of surface water	SP No.4 (ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN EN ISO 5667-6; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458)	Surface water
5	Manual sampling of bathing water	SP No.9 (Regulation No. 238/2011 Coll.; ČSN EN ISO 19458)	Bathing water
6	Manual sludge sampling	SP No.8 (ČSN ISO 5667-12; ČSN EN ISO 5667-13; ČSN EN ISO 5667-15)	Water purification and water treatment sludge, sands, screenings, suspended load, river sediments

[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)

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3. Workplace Jihlava

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1*	Determination of pH by potentiometry	SOP No.3/2013/III (ČSN ISO 10523)	Water drinking, ground, surface and waste	-
2	Reserved			
3	Determination of electrical conductivity	SOP No.8/2013/III (ČSN EN 27888)	Water drinking, ground and surface	-
4	Reserved			
5	Determination of absorbance at 254 nm by photometry	SOP No.39/2015/III (ČSN 75 7360)	Water drinking, ground and surface	-
6	Determination of dissolved and total solids, loss on ignition and RAS by gravimetry	SOP No.21/2014/III (ČSN 75 7346; ČSN 75 7347)	Water ground, surface and waste	-
7	Determination of suspended solids and loss on ignition by gravimetry	SOP No.22/2014/III (ČSN EN 872; ČSN 75 7350)	Water ground, surface and waste	-
8-9	Reserved			
10	Titrimetric determination of chemical oxygen demand using permanganate (COD_{Mn})	SOP No.40/2015/III (ČSN EN ISO 8467)	Water drinking, ground and surface	-
11	Determination of chemical oxygen demand with dichromate (COD_{Cr}) by spectrophotometry using KAS – MERCK	SOP No.8B (ČSN ISO 15705; HACH manual)	Water drinking, ground, surface and waste	-
12	Determination of biochemical oxygen demand after 5 days (BOD_5) by LDO probe	SOP No.9/2013/III (ČSN EN ISO 5815-1; ČSN EN 1899-2)	Water ground, surface and waste	
13	Determination of ammonium and ammonia nitrogen by spectrophotometry	SOP No.23/2014/III (ČSN ISO 7150-1)	Water drinking, ground and surface	-
14	Determination of nitrite and nitrite nitrogen by spectrophotometry	SOP No.24/2014/III (ČSN EN 26777)	Water drinking, ground, surface and waste	-
15	Determination of nitrate and nitrate nitrogen by spectrophotometry and inorganic nitrogen by calculation from measured values	SOP No.25/2014/III (ČSN ISO 7890-3)	Water drinking, ground, surface and waste	-
16-18	Reserved			

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
19	Determination of nitrate nitrogen by spectrophotometric method using KAS – MERCK and nitrate by calculation from measured values	SOP No.51/2017/III (MERCK manual)	Water ground, surface and waste	-
20-21	Reserved			
22	Determination of acid neutralizing capacity (ANC) by titration	SOP No.41/2015/III (ČSN EN ISO 9963-1)	Water drinking, ground and surface	-
23*	Determination of base neutralizing capacity (BNC) by titration	SOP No.42/2015/III (ČSN 757372)	Water drinking, ground and surface	-
24	Determination of turbidity by nephelometry	SOP No.44/2015/III (ČSN EN ISO 7027-1)	Water drinking, ground and surface	-
25	Determination of colour photometric determination of absorbance at 410 nm wavelength	SOP No.10/2013/III (ČSN EN ISO 7887; Method C)	Water drinking, ground and surface	-
26*	Determination of free and total chlorine by spectrophotometry using KAS - HACH and bound chlorine by calculation from measured values	SOP No.4/2013/III (ČSN EN ISO 7393-2; HACH manual)	Water drinking	-
27*	Determination of water temperature	SOP No.7/2013/III (ČSN 75 7342)	Water drinking, ground, surface and waste	-
28*	Preliminary sensory determination of odour and taste	SOP No.5/2013/III (ČSN EN 1622; ČSN 75 7340)	Water drinking, ground and surface	-
29*	Determination of dissolved oxygen by luminescence method by LDO probe	SOP No.6B/2013/III (ČSN ISO 17289; HACH manual)	Water drinking, ground, surface and waste	-
30-32	Reserved			
33	Determination of humic substances by spectrophotometry	SOP No.43/2015/III (ČSN 75 7536)	Water drinking, ground and surface	-
34	Reserved			
35	Determination of EL by gravimetry	SOP No.76 (ČSN 75 7508)	Water ground, surface and waste	-
36-58	Reserved			
59	Determination of phosphate and total phosphorus by spectrophotometry	SOP No.26/2014/III (ČSN EN ISO 6878; MERCK manual)	Water drinking, ground, surface and waste	-
60-63	Reserved			

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
64	Determination of iron by spectrophotometry	SOP 02/03 (ČSN ISO 6332)	Water drinking, ground and surface	-
65	Determination of manganese by spectrophotometry	SOP 12/99	Water drinking, ground and surface	-
66	Determination of ammonium by titration, ammonia nitrogen and inorganic nitrogen by calculation from measured values	SOP 20/99 (ČSN ISO 5664)	Water ground, surface and waste	-
67	Reserved			
68	Determination of total nitrogen by spectrophotometry by KAS – MERCK	SOP No.50/2016/III (ČSN EN ISO 11905-1; MERCK manual)	Water drinking, ground, surface and waste	-
69	Determination of total phosphorus by spectrophotometry using KAS – MERCK	SOP No.17C (MERCK manual)	Water drinking, ground, surface and waste	-
70	Reserved			
71	Determination of nitrate by UV spectrometry	SOP No.5/A/III	Water drinking, ground and surface	-
72-100	Reserved			
101	Determination of abioseston by microscopic method	SOP No.19/2014/III (ČSN 75 7713)	Water drinking, ground and surface	-
102	Determination of bioseston by microscopic method	SOP No.20/2014/III (ČSN 75 7712)	Water drinking, ground and surface	-
103	Detection and enumeration of Escherichia coli and coliform bacteria by membrane filtration method	SOP No.13/2013/III (ČSN EN ISO 9308-1)	Water drinking, ground and surface	-
104	Detection and enumeration of thermotolerant coliform bacteria and Escherichia coli by membrane filtration method	SOP No.12/2013/III (ČSN 75 7835)	Water drinking, ground and surface	-
105	Detection and enumeration of intestinal enterococci by membrane filtration method	SOP No.15/2013/III (ČSN EN ISO 7899-2)	Water drinking, ground and surface	-
106	Enumeration of culturable microorganisms – Colony count by inoculation in or on a nutrient agar culture medium at 36 °C and at 22 °C	SOP No.16/2013/III (ČSN EN ISO 6222)	Water drinking, ground and surface	-
107	Enumeration of Clostridium perfringens by membrane filtration method	SOP No.17/2013/III (Regulation No. 252/2004 Coll., Annex No. 6)	Water drinking, ground and surface	-

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

VODÁRENSKÁ AKCIOVÁ SPOLEČNOST, a.s.

CAB number 1249, Water Laboratories

Soběšická 151, Lesná, 638 00 Brno

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
108	Detection and enumeration of *Escherichia coli* and coliform bacteria by the most probable number method with a commercial kit	SOP No.63 (ČSN EN ISO 9308-2; IDEXX, Xebios manufacturer's manual)	Water drinking, ground and surface	-
109-115	Reserved			
116	Enumeration of coliform bacteria in non-disinfected water by membrane filtration method	SOP No. 14/2013/III (ČSN 75 7837)	Water drinking, ground and surface	-
117	Reserved			
118	Enumeration of *Clostridium perfringens* - Method using membrane filtration	SOP No.55/2018/III (ČSN EN ISO 14189)	Water drinking, ground and surface	-

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

[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] 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)
28	determination of taste of carried out in drinking water matrix only

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
1, 3, 5, 10, 11, 13, 14, 15, 22, 23, 24, 25, 26, 27, 28, 29, 33, 59, 64, 65, 68, 69, 71, 101, 102, 103, 104, 105, 106, 107, 108, 116, 118	Drinking water – water in reservoirs, water from water treatment plants (raw and treated), water from hydrants, water supply networks, water supplied by tankers, bottled, hot and process water
1, 3, 5, 6, 7, 10, 11, 12, 13, 14, 15, 19, 22, 23, 24, 25, 27, 28, 29, 33, 35, 59, 64, 65, 66, 68, 69, 71, 101, 102, 103, 104, 105, 106, 107, 108, 116, 118	Ground water – water in wells, boreholes, water coming from springs
1, 3, 5, 6, 7, 10, 11, 12, 13, 14, 15, 19, 22, 23, 24, 25, 27, 28, 29, 33, 35, 59, 64, 65, 66, 68, 69, 71, 101, 102, 103, 104, 105, 106, 107, 108, 116, 118	Surface water - flowing watercourses (rivers and streams), stagnant lakes, reservoirs, ponds
1, 6, 7, 11, 12, 14, 15, 19, 27, 29, 35, 59, 66, 68, 69	Waste water – water from waste water treatment plants, grease or oil separators, drainage, sewage, cooling, process, rinse, industrial water

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
65, 71	Ing. Marta Horáková, CSc. et al., Water analysis

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Manual sampling of drinking water	SP No.1 (ČSN EN ISO 5667-3; ČSN ISO 5667-5; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458; Regulation No. 252/2004 Sb.)	Drinking, hot and bottled water
2	Waste water sampling - manual and by automatic sampler	SP No.2 (ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14; ČSN 75 7315)	Waste water
3	Static sampling of ground water	SP No.3 (ČSN EN ISO 5667-3; ČSN ISO 5667-11; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458)	Ground water
4	Manual sampling of surface water	SP No.4 (ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN EN ISO 5667-6; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458)	Surface water
5	Reserved		
6	Manual sludge sampling	SP No.8 (ČSN ISO 5667-12; ČSN EN ISO 5667-13; ČSN EN ISO 5667-15)	Water purification and water treatment sludge, sands, screenings, suspended load, river sediments

[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)

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4. Workplace Třebíč – Drinking Water Laboratory

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1*	Determination of pH by potentiometry	SOP No.3/2013/III (ČSN ISO 10523)	Water drinking, ground, surface	-
2	Reserved			
3	Determination of electrical conductivity	SOP No.8/2013/III (ČSN EN 27888)	Water drinking, ground and surface	-
4	Reserved			
5	Determination of absorbance at 254 nm by photometry	SOP No.39/2015/III (ČSN 75 7360)	Water drinking, ground and surface	-
6-9	Reserved			
10	Titrimetric determination of chemical oxygen demand using permanganate (COD_{Mn})	SOP No.40/2015/III (ČSN EN ISO 8467)	Water drinking, ground and surface	-
11-23	Reserved			
24	Determination of turbidity by nephelometry	SOP No.44/2015/III (ČSN EN ISO 7027-1)	Water drinking, ground and surface	-
25	Reserved			
26*	Determination of free and total chlorine by spectrophotometry using KAS - HACH and bound chlorine by calculation from measured values	SOP No.4/2013/III (ČSN EN ISO 7393-2; HACH manual)	Water drinking	-
27*	Determination of water temperature	SOP No.7/2013/III (ČSN 75 7342)	Water drinking, ground and surface	-
28*	Preliminary sensory determination of odour and taste	SOP No.5/2013/III (ČSN EN 1622; ČSN 75 7340)	Water drinking, ground and surface	-
29*	Determination of dissolved oxygen by luminescence method by LDO probe	SOP No.6B/2013/III (ČSN ISO 17289, HACH manual)	Water drinking, ground and surface	-
30-32	Reserved			
33	Determination of humic substances by spectrophotometry	SOP No.43/2015/III (ČSN 75 7536)	Water drinking, ground and surface	-
34-36	Reserved			
37	Determination of pH by potentiometry using automatic analyser Gallery	SOP No.27/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
38	Determination of electric conductivity using automatic analyser Gallery	SOP No.28/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
39	Determination of ammonium by photometry using automatic analyser Gallery	SOP No.29/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
40	Determination of nitrate by photometry using automatic analyser Gallery	SOP No.30/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
41	Determination of nitrite by photometry using automatic analyser Gallery	SOP No.31/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
42	Determination of phosphate by photometry using automatic analyser Gallery	SOP No.32/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
43	Determination of chlorides by photometry using automatic analyser Gallery	SOP No.33/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
44	Determination of sulphate by photometry using automatic analyser Gallery	SOP No.34/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
45	Determination of acid neutralizing capacity (ANC) by photometry using automatic analyser Gallery	SOP No.35/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
46	Determination of colour by photometry using automatic analyser Gallery	SOP No.36/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
47	Determination of calcium by photometry using automatic analyzer Gallery and the sum of calcium and magnesium by calculation from measured values	SOP No.45/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
48	Determination of magnesium by photometry using automatic analyzer Gallery and the sum of calcium and magnesium by calculation from measured values	SOP No.46/2015/III (Thermo Scientific manual)	Water drinking, ground and surface	-
49	Determination of iron by photometry using automatic analyser Gallery	SOP No. 47/2016/III (Thermo Scientific manual)	Water drinking, ground and surface	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
50	Determination of manganese by photometry using automatic analyser Gallery	SOP No. 48/2016/III (Thermo Scientific manual)	Water drinking, ground and surface	-
51	Determination of aluminium by photometry using automatic analyser Gallery	SOP No. 49/2016/III (Thermo Scientific manual)	Water drinking, ground and surface	-
52-70	Reserved			
71	Determination of nitrate by UV spectrometry	SOP No.5/A/III	Water drinking, ground and surface	-
72-100	Reserved			
101	Determination of abioseston by microscopic method	SOP No.19/2014/III (ČSN 75 7713)	Water drinking, ground and surface	-
102	Determination of bioseston by microscopic method	SOP No.20/2014/III (ČSN 75 7712)	Water drinking, ground and surface	-
103	Detection and enumeration of *Escherichia coli* and coliform bacteria by membrane filtration method	SOP No.13/2013/III (ČSN EN ISO 9308-1)	Water drinking, ground and surface	-
104	Detection and enumeration of thermotolerant coliform bacteria and *Escherichia coli* by membrane filtration method	SOP No.12/2013/III (ČSN 75 7835)	Water drinking, ground and surface	-
105	Detection and enumeration of intestinal enterococci by membrane filtration method	SOP No.15/2013/III (ČSN EN ISO 7899-2)	Water drinking, ground and surface	-
106	Enumeration of culturable microorganisms – Colony count by inoculation in or on a nutrient agar culture medium at 36 °C and at 22 °C	SOP No.16/2013/III (ČSN EN ISO 6222)	Water drinking, ground and surface	-
107	Enumeration of *Clostridium perfringens* by membrane filtration method	SOP No.17/2013/III (Regulation No. 252/2004 Sb., Coll., Annex No. 6)	Water drinking, ground and surface	-
108	Detection and enumeration of *Escherichia coli* and coliform bacteria by the most probable number method with a commercial kit	SOP No.63 (ČSN EN ISO 9308-2; IDEXX, Xebios manufacturer's manual)	Water drinking, ground and surface	-
109-115	Reserved			

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
116	Enumeration of coliform bacteria in non-disinfected water by membrane filtration method	SOP No. 14/2013/III (ČSN 75 7837)	Water drinking, ground and surface	-
117	Reserved			
118	Enumeration of *Clostridium perfringens* - Method using membrane filtration	SOP No.55/2018/III (ČSN EN ISO 14189)	Water drinking, ground and surface	-

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

[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] 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)
28	determination of taste of carried out in drinking water matrix only

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
1, 3, 5, 10, 24, 26, 27, 28, 29, 33, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 71, 101, 102, 103, 104, 105, 106, 107, 108, 116, 118	Drinking water – water in reservoirs, water from water treatment plants (raw and treated), water from hydrants, water supply networks, water supplied by tankers, bottled, hot and process water
1, 3, 5, 10, 24, 27, 28, 29, 33, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 71, 101, 102, 103, 104, 105, 106, 107, 108, 116, 118	Ground water – water in wells, boreholes, water coming from springs
1, 3, 5, 10, 24, 27, 28, 29, 33, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 71, 101, 102, 103, 104, 105, 106, 107, 108, 116, 118	Surface water - flowing watercourses (rivers and streams), stagnant lakes, reservoirs, ponds

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
71	Ing. Marta Horáková, CSc. et al., Water analysis

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Manual sampling of drinking water	SP No.1 (ČSN EN ISO 5667-3; ČSN ISO 5667-5; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458; Regulation No. 252/2004 Sb.)	Drinking, hot and bottled water
2	Reserved		
3	Static sampling of ground water	SP No.3 (ČSN EN ISO 5667-3; ČSN ISO 5667-11; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458)	Ground water
4	Manual sampling of surface water	SP No.4 (ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN EN ISO 5667-6; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458)	Surface water

[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)

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5. Workplace Třebíč – Drinking Water Laboratory

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1*	Determination of pH by potentiometry	SOP No.3/2013/III (ČSN ISO 10523)	Water surface and waste	-
2-5	Reserved			
6	Determination of dissolved and total solids, loss on ignition and RAS by gravimetry	SOP No.21/2014/III (ČSN 75 7346; ČSN 75 7347)	Water surface and waste	-
7	Determination of suspended solids and loss on ignition by gravimetry	SOP No.22/2014/III (ČSN EN 872; ČSN 75 7350)	Water drinking, ground, surface and waste	-
8-10	Reserved			
11	Determination of chemical oxygen demand with dichromate (COD_{Cr}) by spectrophotometry using KAS - HACH	SOP No.8B (ČSN ISO 15705; HACH manual)	Water drinking, ground, surface and waste	-
12	Determination of biochemical oxygen demand after 5 days (BOD_5) by LDO probe	SOP No.9/2013/III (ČSN EN ISO 5815-1; ČSN EN 1899-2)	Water drinking, ground, surface and waste	-
13-18	Reserved			
19	Determination of nitrate nitrogen by spectrophotometric method using KAS – HACH and nitrate by calculation from measured values	SOP No.51/2017/III (HACH manual)	Water surface and waste	-
20	Determination of nitrite nitrogen by spectrophotometric method using KAS – HACH and nitrite by calculation from measured values	SOP č.52/2017/III (HACH manual)	Water surface and waste	-
21-26	Reserved			
27*	Determination of temperature	SOP No.7/2013/III (ČSN 75 7342)	Water surface and waste	-
28	Reserved			
29*	Determination of dissolved oxygen by luminescence method by LDO probe	SOP No.6B/2013/III (ČSN ISO 17289; HACH manual)	Water drinking, ground, surface and waste	-
30-67	Reserved			

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
68	Determination of total nitrogen by spectrophotometry by KAS – HACH	SOP No.50/2016/III (ČSN EN ISO 11905-1; HACH manual)	Water drinking, ground, surface and waste	-
69	Determination of total phosphorus by spectrophotometry by KAS – HACH	SOP No.17C (HACH manual)	Water surface and waste	-
70	Determination of ammonium by titration and ammonia nitrogen by calculation from measured values	SOP No.27/A/III (ČSN ISO 5664)	Water surface and waste	-

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

[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] 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 (tested subject)
7, 11, 12, 29, 68	Drinking water – water in reservoirs, water from water treatment plants (raw and treated), water from hydrants, water supply networks, water supplied by tankers, bottled, hot and process water
7, 11, 12, 29, 68	Ground water – water in wells, boreholes, water coming from springs
1, 6, 7, 11, 12, 19, 20, 27, 29, 68, 69, 70	Surface water - flowing watercourses (rivers and streams), stagnant lakes, reservoirs, ponds
1, 6, 7, 11, 12, 19, 20, 27, 29, 68, 69, 70	Waste water – water from waste water treatment plants, grease or oil separators, drainage, sewage, cooling, process, rinse, industrial water

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Reserved		
2	Waste water sampling - manual and by automatic sampler	SP No.2 (ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14; ČSN 75 7315)	Waste water
3	Reserved		
4	Manual sampling of surface water	SP No.4 (ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN EN ISO 5667-6; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458)	Surface water
5	Reserved		
6	Manual sludge sampling	SP No.8 (ČSN ISO 5667-12; ČSN EN ISO 5667-13; ČSN EN ISO 5667-15)	Water purification and water treatment sludge, sands, screenings, suspended load, river sediments

[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)

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6. Workplace Znojmo – Drinking Water Laboratory

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1*	Determination of pH by potentiometry	SOP No.3/2013/III (ČSN ISO 10523)	Water drinking, ground and surface, bathing	-
2	Reserved			
3	Determination of electrical conductivity	SOP No.8/2013/III (ČSN EN 27888)	Water drinking, ground and surface	-
4	Reserved			
5	Determination of absorbance at 254 nm by photometry	SOP No.39/2015/III (ČSN 75 7360)	Water drinking, ground and surface	-
6-9	Reserved			
10	Titrimetric determination of chemical oxygen demand using permanganate (COD_{Mn})	SOP No.40/2015/III (ČSN EN ISO 8467)	Water drinking, ground and surface, bathing	-
11-12	Reserved			
13	Determination of ammonium and ammonia nitrogen by spectrophotometry	SOP No.23/2014/III (ČSN ISO 7150-1)	Water drinking, ground and surface, bathing	-
14	Determination of nitrite and nitrite nitrogen by spectrophotometry	SOP No.24/2014/III (ČSN EN 26777)	Water drinking, ground and surface	-
15-21	Reserved			
22	Determination of acid neutralizing capacity (ANC) by titration	SOP No.41/2015/III (ČSN EN ISO 9963-1)	Water drinking, ground and surface	-
23	Determination of base neutralizing capacity (BNC) by titration	SOP No.42/2015/III (ČSN 75 7372)	Water drinking, ground and surface	-
24	Determination of turbidity by nephelometry	SOP No.44/2015/III (ČSN EN ISO 7027-1)	Water drinking, ground and surface, bathing	-
25	Photometric determination of colour by the determination of absorption at 410 nm wavelength	SOP No. 10/2013/III (ČSN EN ISO 7887; Method C)	Water drinking, ground and surface	-
26*	Determination of free and total chlorine by spectrophotometry using KAS - HACH and bound chlorine by calculation from measured values	SOP No.4/2013/III (ČSN EN ISO 7393-2; HACH manual)	Water drinking, bathing	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
27*	Determination of temperature	SOP No.7/2013/III (ČSN 75 7342)	Water drinking, ground and surface and bathing	-
28*	Preliminary sensory determination of odour and taste	SOP No.5/2013/III (ČSN EN 1622; ČSN 75 7340)	Water drinking, ground and surface	-
29*	Determination of dissolved oxygen by luminescence method by LDO probe	SOP No.6B/2013/III (ČSN ISO 17289; HACH manual)	Water drinking, ground and surface, bathing	-
30-32	Reserved			
33	Determination of humic substances by spectrophotometry	SOP No.43/2015/III (ČSN 75 7536)	Water drinking, ground and surface	-
34-70	Reserved			
71	Determination of nitrate by UV spectrometry	SOP No.5/A/III	Water drinking, ground and surface, bathing	-
72	Determination of the sum of calcium and magnesium (Ca+Mg) by complexometric titration and magnesium by calculation from measured values	SOP No.10 (ČSN ISO 6059)	Water drinking, ground and surface	-
73	Determination of iron by spectrophotometry	SOP No.60 (ČSN ISO 6332)	Water drinking, ground and surface	-
74	Determination of manganese by spectrophotometry	SOP No.02/99 (ČSN ISO 6333; MACHEREY NAGEL manual)	Water drinking, ground and surface	-
75	Determination of calcium by complexometric titration	SOP No.36 ZN	Water drinking, ground and surface	-
76-84	Reserved			
85*	Determination of ozone by spectrophotometry using the HACH kit	SOP No.58/2023/III (HACH manual)	Water drinking, bathing	-
86-100	Reserved			
101	Determination of abioseston by microscopic method	SOP No.19/2014/III (ČSN 75 7713)	Water drinking, ground and surface	-
102	Determination of bioseston by microscopic method	SOP No.20/2014/III (ČSN 75 7712)	Water drinking, ground and surface	-

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

VODÁRENSKÁ AKCIOVÁ SPOLEČNOST, a.s.

CAB number 1249, Water Laboratories

Soběšická 151, Lesná, 638 00 Brno

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
103	Detection and enumeration of *Escherichia coli* and coliform bacteria by membrane filtration method	SOP No.13/2013/III (ČSN EN ISO 9308-1)	Water drinking, ground and surface, bathing	-
104	Detection and enumeration of thermotolerant coliform bacteria and *Escherichia coli* by membrane filtration method	SOP No.12/2013/III (ČSN 75 7835)	Water drinking, ground and surface	-
105	Detection and enumeration of intestinal enterococci by membrane filtration method	SOP No.15/2013/III (ČSN EN ISO 7899-2)	Water drinking, ground and surface	-
106	Enumeration of culturable microorganisms – Colony count by inoculation in or on a nutrient agar culture medium at 36 ° and at 22 °C	SOP No.16/2013/III (ČSN EN ISO 6222)	Water drinking, ground and surface, bathing	-
107	Enumeration of *Clostridium perfringens* by membrane filtration method	SOP No.17/2013/III (Regulation No. 252/2004 Coll., Annex No. 6)	Water drinking, ground and surface	-
108	Detection and enumeration of *Escherichia coli* and coliform bacteria by the most probable number method with a commercial kit	SOP No.63 (ČSN EN ISO 9308-2; IDEXX, Xebios manufacturer's manual)	Water drinking, ground and surface, bathing	-
109-112	Reserved			
113	Detection and enumeration of *Legionella* by membrane filtration method	SOP No.60 (ČSN EN ISO 11731, Matrice A, Procedure 7, Medium GVPC)	Water drinking, bathing	-
114	Enumeration of *Staphylococcus aureus* by membrane filtration method	SOP No.53 (ČSN EN ISO 6888-1)	Water drinking, ground and surface, bathing	-
115	Detection and enumeration of *Pseudomonas aeruginosa* by membrane filtration method	SOP No.54 (ČSN EN ISO 16266)	Water drinking, ground and surface, bathing	-
116	Reserved			
117	Examination of biological indicators by culture	SOP No.1/2012/III (ČSN EN ISO 11737-2; Regulation No. 306/2012 Coll., Annex No. 4; AHEM No. 1/2014)	Biological indicators	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
118	Enumeration of *Clostridium perfringens* - Method using membrane filtration	SOP No.55/2018/III (ČSN EN ISO 14189)	Water drinking, ground and surface	-

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

[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] 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)
28	determination of taste of carried out in drinking water matrix only

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
1, 3, 5, 10, 13, 14, 22, 23, 24, 25, 26, 27, 28, 29, 33, 71, 72, 73, 74, 75, 85, 101, 102, 103, 104, 105, 106, 107, 108, 113, 114, 115, 116, 118	Drinking water – water in reservoirs, water from water treatment plants (raw and treated), water from hydrants, water supply networks, water supplied by tankers, bottled, hot and process water
1, 3, 5, 10, 13, 14, 22, 23, 24, 25, 27, 28, 29, 33, 71, 72, 73, 74, 75, 101, 102, 103, 104, 105, 106, 107, 108, 114, 115, 116, 118	Ground water – water in wells, boreholes, water coming from springs
1, 3, 5, 10, 13, 14, 22, 23, 24, 25, 27, 28, 29, 33, 71, 72, 73, 74, 75, 101, 102, 103, 104, 105, 106, 107, 108, 114, 115, 116, 118	Surface water - flowing watercourses (rivers and streams), stagnant lakes, reservoirs, ponds
1, 10, 13, 24, 26, 27, 29, 71, 85, 103, 113, 114, 115	Bathing water – water in natural bathing places, water in swimming pools, spa pools, whirlpool, paddling pool, cooling waters in sauna

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
71, 75	Ing. Marta Horáková, CSc. et al., Water analysis
117	AHEM No.1/2014 Guideline for the inspection of the effectiveness of sterilizers

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Manual sampling of drinking water	SP No.1 (ČSN EN ISO 5667-3; ČSN ISO 5667-5; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458; Regulation No. 252/2004 Sb.)	Drinking, hot and bottled water
2	Reserved		
3	Static sampling of ground water	SP No.3 (ČSN EN ISO 5667-3; ČSN ISO 5667-11; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458)	Ground water
4	Manual sampling of surface water	SP No.4 (ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN EN ISO 5667-6; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458)	Surface water
5	Manual sampling of bathing water	SP No.9 (Regulation No. 238/2011 Coll.; ČSN EN ISO 19458)	Bathing water
6	Reserved		
7	Sampling of biological and non-biological indicators for the check of efficiency of sterilization	SP No.14 (Regulation No.306/2012 Sb., Annex No. 4; AHEM 1/2014)	Steam and hot-air sterilizers

[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)

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7. Workplace Znojmo – Waste Water Laboratory

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1*	Determination of pH by potentiometry	SOP No.3/2013/III (ČSN ISO 10523)	Water drinking, ground, surface and waste	-
2-5	Reserved			
6	Determination of dissolved and total solids, loss on ignition and RAS by gravimetry	SOP No.21/2014/III (ČSN 75 7346; ČSN 75 7347)	Water drinking, ground, surface and waste	-
7	Determination of suspended solids and loss on ignition by gravimetry	SOP No.22/2014/III (ČSN EN 872; ČSN 75 7350)	Water surface and waste	-
8-10	Reserved			
11	Determination of chemical oxygen demand with dichromate (COD_{Cr}) by spectrophotometry using KAS - HACH	SOP No.8 B (ČSN ISO 15705; HACH manual)	Water drinking, ground, surface and waste	-
12	Determination of biochemical oxygen demand after 5 days (BOD_5) by LDO probe	SOP No.9/2013/III (ČSN EN ISO 5815-1; ČSN EN 1899-2)	Water drinking, surface and waste	-
13	Determination of ammonium and ammonia nitrogen by spectrophotometry	SOP No.23/2014/III (ČSN ISO 7150-1)	Water surface and waste	-
14	Determination of nitrite and nitrite nitrogen by spectrophotometry	SOP No.24/2014/III (ČSN EN 26777)	Water surface and waste	-
15-18	Reserved			
19	Determination of nitrate nitrogen by spectrophotometric method using KAS – HACH and nitrate by calculation from measured values	SOP No.51/2017/III (HACH manual)	Water surface and waste	-
20	Determination of nitrite nitrogen by spectrophotometric method using KAS – HACH and nitrite by calculation from measured values	SOP No.52/2017/III (HACH manual)	Water surface and waste	-
21-26	Reserved			

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
27*	Determination of temperature	SOP No.7/2013/III (ČSN 75 7342)	Water drinking, ground, surface and waste	-
28	Reserved			
29*	Determination of dissolved oxygen by luminescence method by LDO probe	SOP No.6B/2013/III (ČSN ISO 17289; HACH manual)	Water drinking, ground, surface and waste	-
30-67	Reserved			
68	Determination of total nitrogen by spectrophotometry by KAS – HACH	SOP No.50/2016/III (ČSN EN ISO 11905-1; HACH manual)	Water surface and waste	-
69	Determination of total phosphorus by spectrophotometry by KAS – HACH	SOP No.17 C (HACH manual)	Water surface and waste	-

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

[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] 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 (tested subject)
1, 6, 11, 12, 27, 29	Drinking water – water in reservoirs, water from water treatment plants (raw and treated), water from hydrants, water supply networks, water supplied by tankers, bottled, hot and process water
1, 6, 11, 27, 29	Ground water – water in wells, boreholes, water coming from springs
1, 6, 7, 11, 12, 13, 14, 19, 20, 27, 29, 68, 69	Surface water - flowing watercourses (rivers and streams), stagnant lakes, reservoirs, ponds
1, 6, 7, 11, 12, 13, 14, 19, 20, 27, 29, 68, 69	Waste water – water from waste water treatment plants, grease or oil separators, drainage, sewage, cooling, process, rinse, industrial water

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Soběšická 151, Lesná, 638 00 Brno

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Reserved		
2	Waste water sampling - manual and by automatic sampler	SP No.2 (ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14; ČSN 75 7315)	Waste water
3-5	Reserved		
6	Manual sludge sampling	SP No.8 (ČSN ISO 5667-12; ČSN EN ISO 5667-13; ČSN EN ISO 5667-15)	Water purification and water treatment sludge, sands, screenings, suspended load, river sediments

[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)

8. Workplace Žďár nad Sázavou

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1*	Determination of pH by potentiometry	SOP No.3/2013/III (ČSN ISO 10523)	Water drinking, ground, surface and waste	-
2	Reserved			
3	Determination of electrical conductivity	SOP No.8/2013/III (ČSN EN 27888)	Water drinking, ground, surface and waste	-
4-5	Reserved			
6	Determination of dissolved and total solids, loss on ignition and RAS by gravimetry	SOP No.21/2014/III (ČSN 75 7346; ČSN 75 7347)	Water drinking, ground, surface and waste	-
7	Determination of suspended solids and loss on ignition by gravimetry	SOP No.22/2014/III (ČSN EN 872; ČSN 75 7350)	Water drinking, ground, surface and waste	-
8-9	Reserved			
10	Titrimetric determination of chemical oxygen demand using permanganate (COD_{Mn})	SOP No.40/2015/III (ČSN EN ISO 8467)	Water drinking, ground and surface	-
11	Determination of chemical oxygen demand with dichromate (COD_{Cr}) by spectrophotometry using KAS – MERCK	SOP No.8 B (ČSN ISO 15705; MERCK manual)	Water drinking, ground, surface and waste	-

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CAB number 1249, Water Laboratories

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
12	Determination of biochemical oxygen demand after 5 days (BOD_5) by LDO probe	SOP No.9/2013/III (ČSN EN ISO 5815-1; ČSN EN 1899-2)	Water surface and waste	-
13	Determination of ammonium and ammonia nitrogen by spectrophotometry	SOP No.23/2014/III (ČSN ISO 7150-1)	Water drinking, ground and surface	-
14	Determination of nitrite and nitrite nitrogen by spectrophotometry	SOP No.24/2014/III (ČSN EN 26777)	Water drinking, ground, surface and waste	-
15	Determination of nitrate and nitrate nitrogen by spectrophotometry and inorganic nitrogen by calculation from measured values	SOP No.25/2014/III (ČSN ISO 7890-3)	Water drinking, ground, surface and waste	-
16-21	Reserved			
22	Determination of acid neutralizing capacity (ANC) by titration	SOP No.41/2015/III (ČSN EN ISO 9963-1)	Water drinking, ground and surface	-
23	Determination of base neutralizing capacity (BNC) by titration	SOP No.42/2015/III (ČSN 757372)	Water drinking, ground, surface and waste	-
24	Determination of turbidity by nephelometry	SOP No.44/2015/III (ČSN EN ISO 7027-1)	Water drinking, ground and surface	-
25	Photometric determination of colour by the determination of absorption at 410 nm wavelength	SOP č.10/2013/III (ČSN EN ISO 7887; Method C)	Water drinking, ground and surface	-
26*	Determination of free and total chlorine by spectrophotometry using KAS - HACH and bound chlorine by calculation from measured values	SOP No.4/2013/III (ČSN EN ISO 7393-2; HACH manual)	Water drinking	-
27*	Determination of temperature	SOP No.7/2013/III (ČSN 75 7342)	Water drinking, ground, surface and waste	-
28*	Preliminary sensory determination of odour and taste	SOP No.5/2013/III (ČSN EN 1622; ČSN 75 7340)	Water drinking, ground and surface	-
29*	Determination of dissolved oxygen by luminescence method by LDO probe	SOP No.6B/2013/III (ČSN ISO 17289; HACH manual)	Water drinking, ground, surface and waste	-
30-58	Reserved			

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
59	Determination of phosphate and total phosphorus by spectrophotometry	SOP No.26/2014/III (ČSN EN ISO 6878; MERCK manual)	Water drinking, ground, surface and waste	-
60-67	Reserved			
68	Determination of total nitrogen by spectrophotometry by KAS – MERCK	SOP No.50/2016/III (ČSN EN ISO 11905-1; MERCK manual)	Water drinking, ground, surface and waste	-
69-75	Reserved			
76	Determination of chloride - Silver nitrate titration	SOP 07 (ČSN ISO 9297)	Water drinking, ground and surface	-
77	Determination of iron by spectrophotometry	SOP 09 (ČSN ISO 6332)	Water drinking, ground and surface	-
78	Determination of manganese by spectrophotometry	SOP 10 (ČSN ISO 6333)	Water drinking, ground and surface	-
79	Determination of aluminium by spectrophotometry	SOP 11 (ČSN ISO 10566)	Water drinking, ground and surface	-
80	Determination of calcium and the sum of calcium and magnesium (Ca+Mg) by complexometric titration and magnesium by calculation from measured values	SOP 12 (ČSN ISO 6058; ČSN ISO 6059)	Water drinking, ground and surface	-
81	Determination of sulphate by titrimetric method with lead nitrate	SOP 13 (ČSN 75 7447)	Water drinking, ground and surface	-
82	Determination of ammonium by distillation and ammonia nitrogen by calculation from measured values	SOP 14 (ČSN ISO 5664)	Water waste	-
83	Determination of chemical oxygen demand with dichromate (COD_{Cr}) by titration	SOP 17 (ČSN ISO 6060)	Water surface and waste	-
84	Determination of total solids (dry matter) and loss on ignition by gravimetry	SOP 19/B (ČSN EN 15934; ČSN EN 15935)	Sludge	-
85-100	Reserved			
101	Determination of abioseston by microscopic method	SOP No.19/2014/III (ČSN 75 7713)	Water drinking, ground and surface	-
102	Determination of bioseston by microscopic method	SOP No.20/2014/III (ČSN 75 7712)	Water drinking, ground and surface	-

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Soběšická 151, Lesná, 638 00 Brno

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
103	Detection and enumeration of *Escherichia coli* and coliform bacteria by membrane filtration method	SOP No.13/2013/III (ČSN EN ISO 9308-1)	Water drinking, ground and surface	-
104	Detection and enumeration of thermotolerant coliform bacteria and *Escherichia coli* by membrane filtration method	SOP No.12/2013/III (ČSN 75 7835)	Water drinking, ground and surface	-
105	Detection and enumeration of intestinal enterococci by membrane filtration method	SOP No.15/2013/III (ČSN EN ISO 7899-2)	Water drinking, ground, surface	-
106	Enumeration of culturable microorganisms – Colony count by inoculation in or on a nutrient agar culture medium at 36 °C and at 22 °C	SOP No.16/2013/III (ČSN EN ISO 6222)	Water drinking, ground and surface	-
107	Enumeration of *Clostridium perfringens* by membrane filtration method	SOP No.17/2013/III (Regulation No. 252/2004 Coll., Annex No. 6)	Water drinking, ground and surface	-
108	Detection and enumeration of *Escherichia coli* and coliform bacteria by the most probable number method with a commercial kit	SOP No.63 (ČSN EN ISO 9308-2; IDEXX, Xebios manufacturer's manual)	Water drinking, ground and surface	-
109	Reserved			
110	Detection and enumeration of thermotolerant coliform bacteria by culture	SOP No.37/2015/III (ČSN 75 7835; AHEM No. 7/2001; AHEM No. 1/2008)	Sludge	-
111	Detection and enumeration of intestinal enterococci by culture method	SOP No.38/2015/III (ČSN EN ISO 7899-2; AHEM No. 7/2001; AHEM No. 1/2008)	Sludge	-
112-115	Reserved			
116	Enumeration of coliform bacteria in non-disinfected water by membrane filtration method	SOP No. 14/2013/III (ČSN 75 7837)	Water drinking, ground and surface	-
117	Reserved			

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
118	Enumeration of *Clostridium perfringens* - Method using membrane filtration	SOP No.55/2018/III (ČSN EN ISO 14189)	Water drinking, ground and surface	-

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

[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] 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 (tested subject)
28	determination of taste of carried out in drinking water matrix only

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
1, 3, 6, 7, 10, 11, 13, 14, 15, 22, 23, 24, 25, 26, 27, 28, 29, 59, 68, 76, 77, 78, 79, 80, 81, 101, 102, 103, 104, 105, 106, 107, 108, 116, 118	Drinking water – water in reservoirs, water from water treatment plants (raw and treated), water from hydrants, water supply networks, water supplied by tankers, bottled, hot and process water
1, 3, 6, 7, 10, 11, 13, 14, 15, 22, 23, 24, 25, 27, 28, 29, 59, 68, 76, 77, 78, 79, 80, 81, 101, 102, 103, 104, 105, 106, 107, 108, 116, 118	Ground water – water in wells, boreholes, water coming from springs
1, 3, 6, 7, 10, 11, 12, 13, 14, 15, 22, 23, 24, 25, 27, 28, 29, 59, 68, 76, 77, 78, 79, 80, 81, 83, 101, 102, 103, 104, 105, 106, 107, 108, 116, 118	Surface water - flowing watercourses (rivers and streams), stagnant lakes, reservoirs, ponds
1, 6, 7, 11, 12, 14, 15, 23, 27, 29, 59, 68, 82, 83	Waste water – water from waste water treatment plants, grease or oil separators, drainage, sewage, cooling, process, rinse, industrial water
84, 110, 111	Sludge – sewage and water treatment sludge, sands, scrapes, floatings, river sediments

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Manual sampling of drinking water	SP No.1 (ČSN EN ISO 5667-3; ČSN ISO 5667-5; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458; Regulation No. 252/2004 Coll.)	Drinking, hot and bottled water
2	Waste water sampling - manual and by automatic sampler	SP No.2 (ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14; ČSN 75 7315)	Waste water
3	Static sampling of ground water	SP No.3 (ČSN EN ISO 5667-3; ČSN ISO 5667-11; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458)	Ground water
4	Manual sampling of surface water	SP No.4 (ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN EN ISO 5667-6; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 19458)	Surface water
5	Reserved		
6	Manual sludge sampling	SP No.8 (ČSN ISO 5667-12; ČSN EN ISO 5667-13; ČSN EN ISO 5667-15)	Water purification and water treatment sludge, sands, screenings, suspended load, river sediments

[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)

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Abbreviations:

SOP	Standard Operating Procedure
SP	Related laboratory procedure
DIS	Dissolved Inorganic Salts
RL	Dissolved Solids
NL	Suspended Solids
EL	Extractives
FID	Flame Ionization Detector
ECD	Electron Capture Detector
NPD	Nitrogen-Phosphorus Detector
DAD	Diode Array Detector
FLU	Fluorescence Detector
GC	Gas Chromatography
HPLC	High-Performance Liquid Chromatography
LDO	Luminescent Dissolved Oxygen
MS	Mass Spectrometry
	ICP-MS Inductively Coupled Plasma Mass Spectrometry
	(Inductively coupled plasma mass spectrometer)
KAS	Commercial Analytical Set
AHEM	Specialized Literature (Acta hygienica Epidemiologica et Microbiologica)
	TOC/TN analyzer – analyzer for the determination of the content of total organic carbon (TOC) using NDIR detector and total nitrogen (TN) using electrochemical detector
NDIR	detector - NonDispersive InfraRed absorption detector
AMPA	Aminomethylphosphonic acid
TOC	Total Organic Carbon
DOC	Dissolved Organic Carbon
AMA 254	Single-Purpose Atomic Absorption Spectrometer