

**The Appendix is an integral part of
Certificate of Accreditation No. 203/2021 of 30. 3. 2021**

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

Povodí Labe, státní podnik
Water Management Laboratories Department, Ústí nad Labem Laboratory
Pražská 49/35, 400 01 Ústí nad Labem

The Laboratory is qualified to carry out independent sampling.

Tests:

Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
1	Determination of ammonium (NH ₄) and ammonia nitrogen (N-NH ₄) by CFA with spectrophotometric detection	SPP AA13 (ČSN EN ISO 11732)	Water, aqueous extracts ³
2	Determination of nitrite (NO ₂), nitrite nitrogen (N-NO ₂), nitrate (NO ₃), nitrate nitrogen (N-NO ₃) and total nitrogen (N total) by CFA with spectrophotometric detection and inorganic (N inorg.) and organic (N org.) nitrogen by calculation from measured values	SPP AA12 (ČSN ISO 29,441, ČSN EN ISO 13395)	Water, aqueous extracts ³
3	Determination of phosphate (PO ₄), phosphate phosphorus (P-PO ₄) and total phosphorus (P total) by CFA with spectrophotometric detection	SPP AA14 (ČSN EN ISO 15681-2)	Water, aqueous extracts ³
4	Determination of sulphate (SO ₄) and fluoride (F) by isotachophoretic method	SPP AA06 (STN 757430)	Water, aqueous extracts ³
5	Determination of chlorides (Cl) by titration	SPP AA08 (ČSN ISO 9297)	Water, aqueous extracts ³
6	Determination of total (CN total) and easily liberatable cyanides (CN tox.) by spectrophotometry	SPP AA09 (ČSN 75 7415, ČSN ISO 6703-2)	Water, aqueous extracts ³
7 - 9	Reserved		

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
10	Determination of hexavalent chromium (Cr ^{VI}) by spectrophotometry	SPP AK05 (ČSN ISO 11083)	Water, aqueous extracts ³
11	Determination of calcium (Ca) by titration	SPP AK06 (ČSN ISO 6058)	Water, aqueous extracts ³
12	Determination of anionic surfactants (PAL-A) by spectrophotometry	SPP AO01 (ČSN EN 903)	Water, aqueous extracts ³
13	Determination of adsorbable organic halogens (AOX) by coulometry	SPP AO02 (ČSN EN ISO 9562)	Water, aqueous extracts ³
14	Determination of phenols by spectrophotometry	SPP AO03 (ČSN 830530-33B:1980)	Water, aqueous extracts ³
15	Determination of extractable matters (extract. I.) and non-polar extractable matters (NEM) by infrared spectrometry method	SPP AO04 (ČSN 75 7505:1998, ČSN 75 7506)	Water, aqueous extracts ³
16	Determination of extractable matters (extract. I.) and non-polar extractable matters (NEM) by infrared spectrometry method	SPP AO05 (TNV 75 8052:1998)	Soils, sediments, solid waste
17	Determination of biochemical oxygen demand (BOD 5) and biochemical oxygen demand with nitrification suppression (BOD 5 NS) by optical sensor method	SPP AS01 (ČSN EN ISO 5815-1, ČSN EN 1899-2)	Water, aqueous extracts ³
18	Reserved		
19	Determination of chemical oxygen demand with permanganate (COD-Mn) by titration	SPP AS03 (ČSN EN ISO 8467)	Water, aqueous extracts ³

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
20	Determination of acid neutralizing capacity (ANC) by titration	SPP AZ02 (ČSN EN ISO 9963-1)	Water, aqueous extracts ³
21	Determination of suspended solids (susp.s.) and suspended annealed solids (susp.an.) by gravimetry	SPP AZ03 (ČSN EN 872, ČSN 75 7350)	Water, aqueous extracts ³
22*	Determination of pH by potentiometry	SPP AZ04 (ČSN ISO 10523)	Water, aqueous extracts ³
23	Determination of dissolved solids (diss. s.) and dissolved annealed solids (diss an.) by gravimetry	SPP AZ05 (ČSN 75 7346, ČSN 75 7347)	Water, aqueous extracts ³
24*	Determination of dissolved oxygen (diss. O ₂) by optical sensor method	SPP AZ06 (ČSN ISO 17289)	Water, aqueous extracts ³
25	Determination of the sum of calcium and magnesium (Ca+Mg) by titration and magnesium (Mg) by calculation	SPP AZ07 (ČSN ISO 6059, ČSN ISO 6058)	Water, aqueous extracts ³
26	Determination of electrical conductivity	SPP AZ08 (ČSN EN 27888)	Water, aqueous extracts ³
27	Determination of turbidity by turbidimetry	SPP AZ09 (ČSN EN ISO 7027)	Water, aqueous extracts ³
28	Determination of base neutralizing capacity (BNC) by titration	SPP AZ10 (ČSN 75 7372)	Water, aqueous extracts ³
29	Determination of hydrocarbons C ₁₀ to C ₄₀ by GC/FID method	SPP AO06 (ČSN EN ISO 9377-2)	Water, aqueous extracts ³
30	Determination of hydrocarbons C ₁₀ to C ₄₀ by GC/FID method	SPP AO07 (ČSN EN 14039)	Soils, sediments, solid waste
31	Determination of extractable organically bound halogens (EOX) by coulometry	SPP AO08 (DIN 38414-17)	Soils, sediments, solid waste

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
32	Determination of chemical oxygen demand (COD _{Cr}) by spectrophotometry – tube method	SPP AS04 (ČSN ISO 15705)	Water, aqueous extracts ³
33*	Determination of free (Cl ₂ free) and total (Cl ₂ total) chlorine by spectrophotometry (commercial Hach set)	SPP AZ15 (ČSN ISO 7393-2, Hach method)	Drinking and surface Water
34*	Determination of temperature	SPP T01 (ČSN 75 7342)	Water ³

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 edition of the specified procedure is used (including any changes).

³ Water – drinking, surface, ground, waste and process Water, aqueous extracts – according to valid legislation

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Sampled object
1	Taking of a simple waste water sample (manual and by automatic sampler)	SPP V01 (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-10, ČSN ISO 5667-14)	Waste water
2	Taking of a mixed time-dependent waste water sample (manual and by automatic sampler)	SPP V02 (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-10, ČSN ISO 5667-14)	Waste water
3	Taking of a mixed flow-dependent waste water sample (sampling by an automatic sampler)	SPP V03 (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-10, ČSN ISO 5667-14)	Waste water

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Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Sampled object
4	Taking of river and stream water samples (manual and by automatic sampler)	SPP V05 (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-6, ČSN ISO 5667-14)	Surface water
5	Taking of samples from water reservoirs (manual sampling)	SPP V06 (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-4, ČSN ISO 5667-14)	Surface water
6	Sampling of drinking water	SPP V07 (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-5, ČSN ISO 5667-14, ČSN EN ISO 19 458)	Drinking water
7	Sampling of ground water (static sampling)	SPP V08 (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-11, ČSN ISO 5667-14)	Ground water
8	Sampling of sediments (manual sampling)	SPP V09 (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN EN ISO 5667- 15, ČSN ISO 5667-12)	Sediments, soils

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Explanations and abbreviations:

STN – Slovak Technical Standard

TNV – Branch Technical Standard of Water Management

DIN – German Technical Standard

SPP – Standard Working Procedure

AA – Ion Analysis

AK – Metal Analysis

AO – Organic Compounds Analysis

AS – Group Parameters Analysis

AZ – Basic Parameters Analysis

T – Field Measurement

V – Sampling

CFA – Continuous Flow Analysis

GC/FID – Gas Chromatography with Flame Ionization Detector