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

issues

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

CERTIFICATE OF ACCREDITATION

No. **123/2026**

VZ lab s.r.o.
with registered office Jindřicha Plachty 535/16, 150 00 Praha 5 - Smíchov
Company Registration No. 27639991

for the Testing Laboratory No. **1402**
VZ lab

Scope of accreditation:

Chemical and microbiological analysis of water, soil, sludge, sediments, waste and soil air, collection of samples to the extent as specified in the appendix to this Certificate.

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

ČSN EN ISO/IEC 17025:2018

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

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 121/2025 of 13/03/2025, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **12/03/2031**

Prague: 12/03/2026

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

Signed in the Czech original:
Zdeňka Drdová on 12/03/2026

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

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

The Appendix is an integral part of
Certificate of Accreditation No. 123/2026 of 12/03/2026

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

VZ lab s.r.o.
CAB number 1402, VZ lab
Jindřicha Plachty 535/16, 150 00 Prague 5 – Smíchov

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

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Chemical tests			
1.1*	Determination of pH by potentiometry	SOP 1 (ČSN ISO 10523)	Drinking, surface, ground, bottled, waste, process, hot, and bathing water, leachates	-
1.2	Determination of conductivity	SOP 2 (ČSN EN 27888)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.3	Determination of colour by spectrophotometry	SOP 5 (ČSN EN ISO 7887)	Drinking, surface, ground, bottled, process, waste water	-
1.4	Determination of turbidity by spectrophotometry	SOP 6 (ČSN EN ISO 7027-1)	Drinking, surface, ground, bottled, process, waste, and bathing water	-
1.5	Preliminary sensory determination of odour and flavour	SOP 43 (ČSN 75 7340)	Drinking, bottled water	-
1.6	Determination of $ANC_{4,5}$ a $ANC_{8,3}$ by titrimetric method, hydrogen carbonate and carbonate by calculation	SOP 3 (ČSN EN ISO 9963-1; ČSN 75 7373)	Drinking, surface, process, ground water	-
1.7	Determination of BNC by titrimetric method, free and aggressive CO_2 by calculation	SOP 4 (ČSN 75 7372; ČSN 75 7373)	Drinking, surface, process, ground water	-
1.8	Determination of anions by ion chromatography method, N-inorganic, $N\text{-}NO_3$, $N\text{-}NO_2$ by calculation	SOP 7 (ČSN EN ISO 10304-4)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.9	Determination of ammonium by spectrophotometry, $N\text{-}NH_4$, NH_3 by calculation	SOP 8 (ČSN ISO 7150-1)	Drinking, surface, ground, bottled, process, waste, and bathing water, leachates	-
1.10	Determination of nitrate by spectrophotometry, $N\text{-}NO_2$ by calculation	SOP 9 (ČSN EN 26777)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.11	Determination of nitrate by spectrophotometry, $N\text{-}NO_3$ by calculation	SOP 10 (ČSN ISO 7890-3)	Drinking, surface, ground, bottled, waste, and bathing water, leachates	-
1.12	Determination of sulphate by turbidimetry	SOP 11 (ASTM D 516-88)	Drinking, surface, ground, bottled, process, waste water, leachates	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1.13	Determination of chloride by titrimetric method	SOP 12 (ČSN ISO 9297)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.14	Determination of total phosphorus and orthophosphate by spectrophotometry, P-PO_4 by calculation	SOP 13 (ČSN EN ISO 6878)	Drinking, surface, ground, process, waste water, leachates	-
1.15	Determination of bivalent iron by spectrophotometry and trivalent iron by calculation	SOP 15 (ČSN ISO 6332)	Drinking, surface, process, ground water	-
1.16	Determination of COD_{Mn} by titrimetric method	SOP 16 (ČSN EN ISO 8467)	Drinking, surface, ground, bottled, process, waste, hot and bathing water, leachates	-
1.17	Determination of COD_{Cr} by spectrophotometry	SOP 17 (ČSN ISO 15705)	Drinking, surface, ground, process, waste water, leachates	-
1.18	Determination of BOD_5 by titrimetric method	SOP 18 (ČSN EN ISO 5815-1)	Surface, ground, process, waste water	-
1.19	Determination of dried dissolved solids, dissolved inorganic salts (DIS) by gravimetry and total mineralization by calculation	SOP 19 (ČSN 75 7346; ČSN 75 7347; ČSN 75 7358; ČSN EN 15216)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.20	Determination of suspended solids by gravimetry	SOP 20 (ČSN EN 872)	Drinking, surface, process, ground water	-
1.21	Determination of total nitrogen after oxidative mineralization by spectrophotometry and organic nitrogen by calculation	SOP 21 (ČSN EN ISO 11905-1)	Surface, ground, waste water, leachates	-
1.22	Determination of total solids (dry matter), water content (moisture content) and loss on ignition by gravimetry	SOP 22 (ČSN EN 12880; ČSN EN 75 7350)	Soils, sludge, sediment, waste, compost	-
1.23	Determination of anionic surfactants by spectrophotometry	SOP 23 (ČSN EN 903)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.24	Determination of total and free cyanides after distillation by spectrophotometry	SOP 24A (ČSN 6703-2; ČSN 75 7415)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.25	Determination of total and free cyanides after distillation by spectrophotometry	SOP 24B (ČSN 6703-2; ČSN 75 7415)	Soils, sludge, sediment, waste	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1.26	Determination of phenols after distillation by spectrophotometry	SOP 25A (ČSN ISO 6439)	Drinking, surface, ground, waste water, leachates	-
1.27	Determination of phenols after distillation by spectrophotometry	SOP 25B (ČSN ISO 6439)	Soils, sludge, sediment, waste	-
1.28	Determination of boron by spectrophotometry	SOP 27A (ČSN ISO 9390)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.29	Determination of boron by spectrophotometry	SOP 27B (ČSN ISO 9390)	Soils, sludge, sediment, waste	-
1.30	Determination of metals by flame AAS, hardness (Ca + Mg) by calculation	SOP 28A (ČSN ISO 8288; ČSN EN 1233; ČSN 75 7400; ČSN ISO 9964-1; ČSN ISO 9964-3; ČSN ISO 7980; ČSN EN ISO 5961; ČSN EN ISO 12020)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.31	Determination of metals by flame AAS method	SOP 28B (ČSN ISO 8288; ČSN EN 1233; ČSN 75 7400; ČSN ISO 9964-1; ČSN ISO 9964-3; ČSN ISO 7980; ČSN EN ISO 5961; ČSN EN ISO 12020)	Soils, sludge, sediment, waste, compost	-
1.32	Determination of metals by AAS method with graphite furnace	SOP 29A (ČSN EN ISO 15586; ČSN EN ISO 5961; ČSN EN 1233)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.33	Determination of metals by AAS method with graphite furnace	SOP 29B (ČSN EN ISO 15586; ČSN EN ISO 5961; ČSN EN 1233)	Soils, sludge, sediment, waste, compost	-
1.34	Determination of nonpolar extractives, extractives, hydrocarbons C_{10}-C_{40} and identification of oil contamination by GC/FID method	SOP 31A (ČSN EN ISO 9377-2)	Drinking, surface, ground, bottled, process, waste water, leachates	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1.35	Determination of nonpolar extractives, extractives, hydrocarbons C_{10}-C_{40} and identification of oil contamination by GC/FID method	SOP 31B (ČSN EN 14039)	Soils, sludge, sediment, waste, compost	-
1.36	Determination of PAH, PCB, OCP and other pesticides by GC/MS method and their sums by calculation	SOP 32A (ČSN ISO 28540; ČSN EN ISO 6468)	Drinking, surface, ground, bottled, waste water, leachates	-
1.37	Determination of PAH, PCB, OCP and other pesticides by GC/MS method and their sums by calculation	SOP 32B (ČSN ISO 28540; ČSN EN ISO 6468)	Soils, sludge, sediment, waste, compost, bitumen	-
1.38	Determination of triazine and organophosphorous pesticides by GC/MS method	SOP 35A (ČSN EN ISO 10695)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.39	Determination of triazine and organophosphorous pesticides by GC/MS method	SOP 35B (ČSN EN ISO 10695)	Soils, sludge, sediment, waste, compost	-
1.40	Determination of volatile organic compounds by GC/MS method, sum of THM and BTEX by calculation	SOP 33A (ČSN EN ISO 10301)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.41	Determination of volatile organic compounds by GC/MS method, sum of THM and BTEX by calculation	SOP 33B (ČSN EN ISO 10301)	Soils, sludge, sediment, waste, compost	-
1.42	Determination of volatile organic compounds by GC/FID method	SOP 30 (ČSN EN ISO 10301)	Soil air	-
1.43	Determination of methane, ethane, and ethene (ethylene) by GC/FID method	SOP 36 (HSE Contract Research Report No. 21/1990)	Surface, ground water	-
1.44	Determination of TOC, DOC, and TC by thermal decomposition method using an NDIR analyzer and TIC by calculation	SOP 34A (ČSN EN 1484)	Drinking, surface, ground, bottled, waste water, leachates	-
1.45	Determination of TC, TIC by thermal decomposition method using an NDIR analyzer and TOC by calculation	SOP 34B (ČSN EN 1484)	Soils, sludge, sediment, waste, compost	-
1.46	Determination of EOX by coulometric titration	SOP 37A (DIN 38414-17:2017-01)	Drinking, surface, ground, bottled, waste water, leachates	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1.47	Determination of EOX by coulometric titration	SOP 37B (DIN 38414-17:2017-01)	Soils, sludge, sediment, waste, compost	-
1.48	Determination of AOX by coulometric titration	SOP 38A (ČSN EN ISO 9562)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.49	Determination of AOX by coulometric titration	SOP 38B (ČSN EN 16166)	Soils, sludge, sediment, waste, compost	-
1.50*	Determination of redox potential by electrochemical method	SOP 39 (ČSN 75 7367)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.51*	Determination of free and total chlorine by colorimetry using Hanna set and bound chlorine by calculation	SOP 40 (ČSN EN ISO 7393-2; Hanna manual)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.52*	Determination of dissolved oxygen by electrochemical probe method	SOP 41 (ČSN EN ISO 5814)	Drinking, surface, ground, bottled, process, waste water, leachates	-
1.53*	Determination of temperature	SOP 42 (ČSN 75 7342)	Drinking, surface, ground, bottled, process, waste, hot and bathing water, leachates	-
2	Microbiological tests			
2.1	Detection and enumeration of thermotolerant coliform bacteria and *Escherichia coli* by membrane filtration method	SOP 46 (ČSN 75 7835)	Drinking, surface, ground, bottled, waste, hot and bathing water	-
2.2	Detection and enumeration of coliform bacteria by membrane filtration method	SOP 47 (ČSN 75 7837)	Process and waste water	-
2.3	Detection and enumeration of *Escherichia coli* and coliform bacteria by Colilert – 18/Quanti – Tray method	SOP 48 (ČSN EN ISO 9308-2)	Drinking, surface, ground, bottled, hot and bathing water	-
2.4	Detection and enumeration of intestinal enterococci by membrane filtration method	SOP 49 (ČSN EN ISO 7899-2)	Drinking, surface, ground, bottled, waste, hot and bathing water	-
2.5	Detection and enumeration of *Clostridium perfringens* by membrane filtration method	SOP 50 (Regulation No. 252/2004 Coll.)	Drinking and underground water	-
2.6	Detection and enumeration of *Pseudomonas aeruginosa* by membrane filtration method	SOP 51 (ČSN EN ISO 16266)	Drinking, surface, ground, bottled, hot and bathing water	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
2.7	Enumeration of coagulase-positive staphylococci by membrane filtration method	SOP 52 (ČSN EN ISO 6888-1)	Drinking, surface, ground, bottled, hot and bathing water	-
2.8	Enumeration of culturable microorganisms at 22 °C and 36 °C by inoculation in a nutrient agar culture medium	SOP 53 (ČSN EN ISO 6222)	Drinking, surface, ground, bottled, waste, hot and bathing water	-
2.9	Detection and enumeration of *Legionella spp.* by culture method	SOP 54 (ČSN EN ISO 11731)	Drinking and underground water	-
2.10	Detection and enumeration of *Escherichia coli* and coliform bacteria by membrane filtration method	SOP 55 (ČSN EN ISO 9308-1)	Drinking, surface, ground, bottled, process, hot and bathing water	-
2.11	Detection and enumeration of thermotolerant coliform bacteria and *Escherichia coli* by direct inoculation onto the surface of media	SOP 56 (ČSN 75 7835; AHEM No. 1/2008)	Soils, sludge, sediment, waste, sand, compost, sand	-
2.12	Enumeration of enterococci by direct inoculation onto the surface of media	SOP 57 (ČSN ISO 7899-2; AHEM No. 1/2008)	Soils, sludge, sediment, waste, sand, compost, sand	-

[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)
1.8	fluorides, chlorides, chlorites, bromates, chlorates, nitrites, nitrates, phosphates, sulfates, bromides
1.30	Fe, Mn, Cu, Ni, Co, Cd, Pb, Zn, Na, K, Ca, Mg, Cr, Cr^{6} , Ba, Li, Sr, Al, Ag,Ti
1.31	Fe, Mn, Cu, Ni, Co, Cd, Pb, Zn, Na, K, Ca, Mg, Cr, Cr^{6+}, Ba, Li, Sr, Al, V, Be, Ag, As, Ti
1.32	Cd, Pb, Cr, Cr^{6}, Ni, Co, As, Se, Sb, Be, V, Mo, Tl, Ba, Al, Ti
1.33	As, Se, Sn, Sb, Be, V, Mo, Tl, Ti
1.36, 1.37	PAH: acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, pyrene PCB: PCB congeners: 28, 52, 101, 105, 114, 118, 123, 138, 153, 156, 157, 167, 180, 189, Delor 103, 106, Aroclor 1242, 1260 OCP: DDE, DDT, DDD, heptachlor, α,β,δ- HCH, χ-HCH (lindane), methoxychlor, aldrin, eldrin, dieldrin, endosulfan, and hexachlorobenzene

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Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
1.38, 1.39	ametryn, atrazine, desetylatrazine, prometryn, propazine, simazine, terbutylazine, terbutryn, azinphos methyl, azinphos ethyl, diazinon, chlorpyrifos, malathion, parathion methyl, parathion ethyl, alachlor, metolachlor, molinate, pendimethalin, primicarb, trifluralin
1.40, 1.41	dichloromethane, trichloromethane (chloroform), tetrachloromethane, bromochloromethane, dibromomethane, dichlorobromomethane, chlorodibromomethane, tribromomethane (bromoform), 1,1 -dichloroethane, 1,2-dichloroethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,2-dibromomethane (EDB), chloroethene (vinyl chloride), 1,1 -dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, trichloroethene, tetrachloroethene, benzene, ethylbenzene, toluene, xylenes, styrene, isopropylbenzene, chlorobenzene, dichlorobenzene, trichlorobenzene, n-propylbenzene, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, bromobenzene, trimethylbenzenes, 2-chlorotoluene, 4-chlorotoluene, 4-isopropylbenzene, C5-C16 alkanes, 1,2-dichloropropane, 2,2-dichloropropane, 1,3-dichloropropane, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,1-dichloropropene, cis-1,3-dichloropropene, trans -1,3-dichloropropene, hexachlorobutadiene, naphthalene, MTBE, methyl ethyl ketone, butyl acetate
1.40, 1.41	Sum of THM (trihalomethanes): trichloromethane (chloroform), bromodichloromethane, dibromochloromethane, tribromomethane Sum of BTEX: Benzene, toluene, ethylbenzene, xylenes
1.42	cis-1,2-dichloroethene, trichloroethene, tetrachloroethene, benzene, toluene, ethylbenzene, xylenes

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
1.1-1.4, 1.6-1.17, 1.19-1.21, 1.23-1.24, 1.26, 1.28, 1.30-1.32, 1.34, 1.36, 1.38, 1.40, 1.44, 1.46, 1.48, 1.50-1.53	Leachate: aqueous leachate of waste in accordance with ČSN EN 12457-4 and Decree No. 273/2021 Sb. on waste management conditions, leachate from sludge, leachate from construction materials
1.1-1.20, 1.23-1.24, 1.28, 1.30, 1.32, 1.34, 1.38, 1.40, 1.48, 1.50, 1.51, 1.52, 1.53, 2.2, 2.10	Process water: rinse, wash, process demineralized, cooling, feed, remediation water, condensates
1.22, 1.25, 1.27, 1.29, 1.31, 1.33, 1.35, 1.37, 1.39, 1.41, 1.45, 1.47, 1.49	Waste - definition according to Act No. 541/2020 Sb., on waste, waste processed according to Decree No. 273/2021 Sb., Decree No. 283/2023 Sb., Decree No. 8/2021 Sb., Decree No. 169/2023 Sb.
1.37	Bitumen: bitumen recyclates, bitumen mixtures, penetrating macadams according to Decree 283/2023 Sb.
2.11, 2.12	Sand: sand in sandboxes in outdoor playgrounds according to Decree No. 238/2011 Sb.

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Sampling of waste water and liquid sludge (manual sampling and sampling using an automatic sampler)	SOP V1 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN ISO 5667-14)	Waste water, liquid sludge

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Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
2	Drinking water sampling	SOP V2 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-5; ČSN ISO 5667-14; ČSN ISO 19458; Decree No. 252/04 Sb.)	Drinking, hot, process, and ground water
3	Sampling of surface water	SOP V3 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN ISO 5667-6; ČSN ISO 5667-14; ČSN ISO 19458)	Surface water
4	Soil sampling	SOP V4 (ČSN EN ISO 5667-1; ČSN ISO 5667-14; Decree No. 275/98 Sb.)	Soils
5	Sampling of water from artificial bathing places	SOP V5 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-14; ČSN ISO 19458; Decree No. 238/11 Sb.)	Bathing water
6	Waste sampling	SOP V6 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-13; ČSN ISO 5667-14; ČSN EN 14899; ČSN 46 5735; Guideline MŽP No. 4/08; Guideline MŽP No. 2/07)	Solid, pasty and liquid wastes, soils, sludge, sediments, fly ash, composts and input materials for composts, biowaste
7	Sampling of sediments and sludge	SOP V7 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-13; ČSN ISO 5667-14; ČSN EN ISO 5667-15; Decree No. 437/16 Sb.)	Sediments, sludge

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

Explanations of abbreviations:

AAS	Atomic Absorption Spectrometry
AOX	Adsorbable Organically Bound Halogens
ASTM	The American Society for Testing and Materials

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BOD_5	Biological Oxygen Demand
BTEX	benzene, toluene, m+p-xylenes, o-xylene
DOC	Dissolved Organic Carbon
EOX	Extractable Organically Bound Halogens
GC	Gas Chromatography
GC/FID	Gas Chromatography with Flame Ionization Detector
GC/MS	Gas Chromatography with Mass Detector
HSE	Health and Safety Executive
COD_{Mn}	Chemical Oxygen Demand by potassium permanganate
COD_{Cr}	Chemical Oxygen Demand by potassium dichromate
ANC	Acid Neutralizing Capacity
NEL	Nonpolar Extractives
NDIR	Nondispersive Infrared Detector
OCP	Organochlorine Pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
DIS	Dissolved Inorganic Salts
SOP	Standard Operating Procedure
TOC	Total Organic Carbon
TC	Total Carbon
TIC	Total Inorganic Carbon
THM	trihalomethanes: trichloromethane (chloroform), bromodichloromethane, dibromochloromethane, tribromomethane
BNC	Base Neutralizing Capacity

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