



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. 455/2026

Česká geologická služba
with registered office Klárov 131/3, Malá Strana, 118 00 Praha
Company Registration No. 00025798

for the Testing Laboratory No. **1049.1**
Central Laboratory

Scope of accreditation:

Inorganic and organic analysis of geological materials, inorganic analysis of natural water and chemical analysis of gases, including sampling to the extent as specified in the appendix to this Certificate.

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

ČSN EN ISO/IEC 17025:2018

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

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 131/2024 of 20/03/2024, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **11/11/2027**

Prague: 06/10/2026



Signed in the Czech original:
Gor Petrosjan on 06/10/2026

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

This translation of the Czech original has been issued by: Martina Petrová

**The Appendix is an integral part of
Certificate of Accreditation No: 455/2026 of 06/10/2026**

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

Česká geologická služba
CAB number 1049.1, Central Laboratory
Geologická 6, 152 00 Praha 5

Testing laboratory locations:

- | | |
|------------------|------------------------------|
| 1. Prague | Geologická 6, 152 00 Praha 5 |
| 2. Brno | Leitnerova 22, 658 69 Brno |

The laboratory is qualified to carry out standalone sampling.

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

1. Prague

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Determination of SiO ₂ by titrimetry	SOP A1 (MŽP methodology – parts 1.1.2 and 1.1.3)	Rock, soil, mineral, mineral raw material	-
2-12	Reserved			
13	Determination of FeO by titrimetry	SOP A14 (MŽP methodology – part 1.1.7.6; ČSN 72 0111)	Rock, soil, mineral, mineral raw material	-
14	Determination of CO ₂ by CS analyzer equipped with IR detector	SOP A15 (ČSN EN 15936, method A; Eltra analyzer manual)	Rock, soil, mineral, mineral raw material	-
15	Determination of S(tot.) and C(tot.) by combustion method using CS analyzer with IR detection, calculation of C(ost.) and S(ekv)	SOP A16 (ISO 15178; ČSN EN 15936, method A; Eltra analyzer manual)	Rock, soil, mineral, mineral raw material	-
16-18	Reserved			
19	Determination of loss on drying and annealing by gravimetric analysis, and calculation of H ₂ O(+)	SOP A20 (MŽP methodology – part 1.1.1.1; MŽP methodology – part 1.1.1.3; ČSN 72 0102; ČSN 72 0103)	Rock, soil, mineral, mineral raw material	-
20-22	Reserved			
23	Determination of Hg by single-purpose atomic absorption spectrometer AMA 254	SOP A61 (AMA 254 manual)	Rock, soil, mineral, mineral raw material	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
24	Determination of rare soil elements by ICP-MS method	SOP A62 (ČSN EN ISO 17294-2; ICP-MS manual)	Rock, soil, mineral, mineral raw material	-
25	Determination of oxides of major elements by ICP-OES method	SOP A78 (MŽP methodology – part 1.1.2; ČSN EN ISO 22036; ICP-OES manual)	Rock, soil, mineral, mineral raw material	-
26	Determination of conductivity at 25°C	SOP B2 (ČSN EN 27888; MŽP methodology – part 1.5)	Natural water (surface, underground and precipitation)	-
27	Determination of total and evident acid neutralizing capacity (ANC) by titrimetry	SOP B3 (ČSN EN ISO 9963-1; MŽP methodology – part 1.7)	Natural water (surface, underground and precipitation)	-
28	Determination of anions by IC method equipped with conductivity detector	SOP B4 (ČSN EN ISO 10304-1)	Natural water (surface, underground and precipitation)	-
29	Determination of Hg by single-purpose atomic absorption spectrometer AMA 254	SOP B61 (ČSN 75 7440; AMA 254 manual)	Natural water (surface, underground and precipitation)	-
30	Determination of major and trace elements by FAAS method	SOP B11 (ČSN ISO 9964-1; ČSN ISO 9964-2; ČSN ISO 7980; ČSN 75 7385; ČSN EN ISO 12020; ČSN ISO 8288; MŽP methodology – part 2.7.2, part 3.12.1, part 2.9.1, part 3.13.1, part 3.25.1; FAAS manual)	Natural water (surface, underground and precipitation)	-
31	Determination of trace elements by ET-AAS method	SOP B19 (ČSN EN ISO 15586; MŽP methodology – part 3.26.2, part 3.1.2, part 3.8.1, part 3.24.1; ET-AAS manual)	Natural water (surface, underground and precipitation)	-
32	Determination of major and trace elements by ICP-OES method	SOP B73 (ČSN EN ISO 11885; ICP-OES manual)	Natural water (surface, underground and precipitation)	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
33	Spectrometric determination of ammonium	SOP B74 (ČSN ISO 7150-1; spectrophotometer manual)	Natural water (surface, underground and precipitation)	-

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 accreditation is not granted with a flexible scope

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
24	Elements: La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu
25	Oxides: TiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , MnO, MgO, CaO, Na ₂ O, K ₂ O, P ₂ O ₅ , Li ₂ O, SrO, BaO
28	Anions: F ⁻ , Cl ⁻ , NO ₃ ⁻ , SO ₄ ²⁻
30, 32	Elements: Na, K, Mg, Ca, Li, Fe, Al, SiO ₂ , Mn, Zn
31	Elements: Al, As, Be, Cd, Co, Cr, Cu, Mo, Ni, Pb, V

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1, 13, 19, 25	MŽP methodology: Dalibor Weiss et al.: Methods for the Chemical Examination of Mineral Raw Materials. Part 1-3, ÚÚG, Prague 1983.
26, 27, 30, 31	MŽP methodology: Milena Kobrová et al.: Methods for the Chemical Examination of Natural Water. ÚÚG, Prague 1983.

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2. Brno

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Determination of gases by gas chromatography method GC/TCD/FID	SOP PL1 (ČSN EN ISO 6974-6; ČSN EN ISO 6975; ČSN EN ISO 6976)	Natural, mining, waste dump and soil gas	-
2	Reserved			
3	Determination of total organic carbon, total inorganic carbon, and total carbon (TOC, TIC, TC) and total sulphur (TS) by analyzer equipped with IR detectors	SOP H-CS (ČSN EN 15936, method A,B; ČSN ISO 10694; ČSN EN 13639; ISO 15178)	Rock, earth, sediment and sludge	-
4*	Determination of methane and carbon dioxide concentrations in the field using an analyser with IR detection	SOP PLT (ISO 20951)	Natural, mining, waste dump and soil gas	-

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)

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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	TCD: He, H ₂ , CO ₂ , Ar, O ₂ , N ₂ , CH ₄ , CO FID: methane, ethene, ethane, propene, propane, iso-butane, n-butane, 2,2-dimethylpropane, 2-methylbutane, n-pentane, cyclopentane, sum i-C ₆ , n-hexane

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
1	Sampling of natural, mining, waste dump and soil gas to sampling containers	SOP PLV (ČSN 01 5113; ČSN EN ISO 10715)	Natural, mining, waste dump and soil gas

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)

Abbreviations:

AMA:	advanced mercury analyzer
C(ost.):	carbon content calculated from the results of the C(tot.) and CO ₂ determination
C(tot.):	total carbon
FAAS:	flame atomic absorption spectrometry
FID:	flame ionization detector
ET-AAS:	electrothermal atomic absorption spectrometry
GC:	gas chromatography
GC/MS:	gas chromatography/mass spectrometry
H ₂ O(+):	chemically bound water
IC:	ion chromatography
ICP-MS:	inductively coupled plasma-mass spectrometry/spectrometer
ICP-OES:	inductively coupled plasma optical emission spectrometry
IR:	infrared
S(ekv):	oxygen equivalent of sulphur
SOP:	standard operating procedure
S(tot.):	total sulphur
TC:	total carbon
TCD:	thermal conductivity detector
TIC:	total inorganic carbon
TOC:	total organic carbon
TS:	total sulphur

"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."