

**The Appendix is an integral part of
Certificate of Accreditation No. 419/2023 of 07/08/2023**

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

MND a.s.

CAB number 1328, Testing Laboratory
Velkomoravská 900/405, 696 18 Lužice

The Laboratory provides opinions and interprets test results.

The Laboratory is qualified to carry out independent sampling.

Detailed information on activities within the scope of accreditation (determined analytes, subject of testing) 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 object	Degrees of freedom ³
1*	Determination of pH by potentiometry	SOP 02/01 (ČSN ISO 10523; ČSN EN ISO 10390; JPP ÚKZÚZ AP I procedure 30040.1; ČSN 65 6071:1986; Stewart M.: Surface Production Operations: Vol 2, 2014, část 8.2.3)	Water, extracts, liquids	-
2*	Determination of electrical conductivity and specific resistance by electrometric method	SOP 03/01 (ČSN EN 27888; JPP ÚKZÚZ AP I procedure 30060.1)	Water, extracts, liquids	-
3	Determination of suspended solids and annealed suspended solids by gravimetry and calculation of loss on ignition of suspended solids	SOP 04/01 (ČSN EN 872; ČSN 75 7350)	Water, extracts	-
4	Determination of COD _{Cr} using dichromate by titration	SOP 05/01 (ČSN ISO 6060)	Water, extracts	-
5	Determination of BOD ₅ by incubation method by electrochemical method	SOP 06/01 (ČSN EN ISO 5815-1; ČSN EN 1899-2)	Water, extracts	-
6	Determination of phosphorus and phosphate by spectrophotometry and calculation of phosphorus pentaoxide	SOP 07/01, part A (ČSN EN ISO 6878)	Water, extracts,	-
7	Determination of ammonium by titrimetric method after distillation and calculation of ammonia nitrogen and free ammonia	SOP 08/01, part A (ČSN ISO 5664)	Water, extracts	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested object	Degrees of freedom ³
8	Determination of ammonium by spectrophotometry and calculation of ammonia nitrogen and free ammonia	SOP 08/01, part B (ČSN ISO 7150-1)	Water, extracts	-
9	Determination of sulphate by gravimetry and calculation of total sulphur	SOP 09/01, part A (TNV 75 7476)	Water, extracts	-
10	Determination of nitrate by spectrophotometry and calculation of nitrate nitrogen and inorganic nitrogen	SOP 10/01, part A (ČSN ISO 7890-3)	Water, extracts	-
11	Determination of nitrite by spectrophotometry and calculation of nitrite nitrogen	SOP 11/01 (ČSN EN 26777)	Water, extracts	-
12	Determination of calcium by EDTA titrimetric method	SOP 12/01, part A (ČSN ISO 6058)	Water, extracts	-
13	Determination of hardness by EDTA titrimetric method and calculation of magnesium	SOP 12/01, part B (ČSN ISO 6059)	Water, extracts	-
14	Determination of ANC by titration and calculation of HCO ₃ ⁻ , CO ₃ ²⁻ , OH ⁻ and aggressive CO ₂	SOP 14/01, part A (ČSN EN ISO 9963-1; ČSN EN 13577; ČSN 75 7373; ČSN EN 206+A2; ČSN 65 6071:1986)	Water, extracts, aqueous extracts of petroleum	-
15	Determination of dissolved oxygen electrochemically	SOP 15/01, part A (ČSN EN ISO 5814)	Water	-
16	Determination of metals by flame AAS method and stoichiometric calculations of the content of compounds from the measured values ³	SOP 16/01, part A (ČSN ISO 8288; ČSN EN ISO 5961; ČSN 75 7400; ČSN EN 1233; ČSN ISO 7980; TNV 75 7408; ČSN 75 7385; ČSN ISO 9964-1; ČSN ISO 9964-2;	Water, extracts	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested object	Degrees of freedom ³
		ČSN EN ISO 12020)		
17	Determination of metals by flame AAS method and stoichiometric calculations of the content of compounds from the measured values ³	SOP 16/01, part B (JPP ÚKZÚZ AP II procedure 30400.1, 30410.1, 30420.1, 30430.1)	Solid materials	-
18	Determination of the composition of natural gas by gas chromatography with FID and TCD and calculation of physical parameters	SOP 17/01 (ČSN EN ISO 6974-6; ČSN EN ISO 6976; ČSN EN ISO 6975; ČSN EN ISO 15403-1)	Natural gas and other heating gases	-
19	Determination of density of liquids – by oscillating U-tube method and calculation of API gravity index and ethanol	SOP 18/01 (ČSN EN ISO 12185; Manual Density meter DMA 48; MP SR Bulletin, 2/2004, Part 4 ⁴)	Liquids, water	-
20	Reserved			
21	Determination of distillation characteristics at atmospheric pressure and calculation of cetane index	SOP 20/01 (ČSN EN ISO 3405; ČSN EN ISO 4264)	Liquids	-
22	Determination of dissolved substances (RL, TDS) and RAS by gravimetry and calculation of loss on ignition	SOP 21/01 (ČSN 75 7346; ČSN 75 7347; ČSN EN 15216)	Water, extracts	-
23	Determination of chlorides by argentometry and calculation of total mineralization, ion balance and NaCl	SOP 22/02, part A (ČSN ISO 9297; Vláčil, F. et al.: Instrumental methods of chemical analysis, 1972; ČSN 75 7358; ČSN 65 6030)	Water, extracts, aqueous extracts of petroleum	-
24	Determination of chlorides by argentometry and calculation of NaCl	SOP 22/02, part B (ČSN ISO 9297; JPP ÚKZÚZ AP I procedure 30010.1 and 30060.1)	Solid materials	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested object	Degrees of freedom ³
25	Determination of water content by KF method by volumetry	SOP 23/02 (ČSN ISO 760)	Liquids	-
26	Determination of dry matter and water content by gravimetry	SOP 27/02 (ČSN ISO 11465; ČSN EN 12880; ČSN EN 15934)	Solid materials	-
27	Determination of flash point – Pensky-Martens closed cup	SOP 25/02 (ČSN EN ISO 2719 procedure A, C)	Liquids	-
28	Determination of dynamic viscosity by falling-ball viscometer and calculation of kinematic viscosity and viscosity index	SOP 29/03 (ČSN EN ISO 3104; ČSN ISO 2909; DIN 51 757; Manual – ball viscometer MINIVIS II)	Liquids, water	-
29	Reserved			
30	Determination of acid value by potentiometry and calculation of acetic acid	SOP 31/03 (ČSN EN 12634)	Liquids	-
31	Determination of NEL and EL by IR method	SOP 26/02, part A (ČSN 75 7505:1998; ČSN 75 7506)	Water, extracts	-
32	Determination of NEL and EL by IR method	SOP 26/02, part B (TNV 75 8052; TNI ISO/TR 11046:2003)	Solid materials	-
33	Analysis of LPG by gas chromatography with FID and calculation of physical parameters	SOP 32/04 (ČSN EN 27941; ČSN EN ISO 8973; ČSN EN 589+A1)	Liquid petroleum gases	-
34	Determination of anionic surfactants (MBAS, PAL-A) by spectrophotometry	SOP 28/03 (ČSN EN 903)	Water, extracts	-
35	Determination of mercury by AAS method using AMA 254 analyzer	SOP 52/14	Water, extracts, solid materials	-

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		(ČSN 75 7440; JPP ÚKZÚZ AP II procedure 30460.1)		
36	Titrimetric determination of COD _{Mn} using permanganate	SOP 34/05 (ČSN EN ISO 8467)	Water expect waste water, extracts	-
37	Determination of univalent phenols by spectrophotometry	SOP 35/05, part A (ČSN ISO 6439)	Water, extracts	-
38	Determination of total and toxic cyanides by spectrophotometry	SOP 37/06, part A (ČSN 75 7415; ČSN ISO 6703-2)	Water, extracts	-
39	Determination of polycyclic aromatic hydrocarbons by HPLC method with DAD and FLD and calculation of the sum of PAH	SOP 38/06, část A (ČSN EN ISO 17993; Application method Macherey-Nagel No. 302170 a 301250; EPA Methods 8310; EPA Methods 610)	Water, extracts	-
40	Determination of polycyclic aromatic hydrocarbons by HPLC method with DAD and calculation of the sum of PAH	SOP 38/06, part B (ČSN EN 17503; EPA Methods 8310)	Solid materials	-
41	Determination of adsorbable organically bound chlorine AOX (Cl) by coulometry	SOP 39/07, part A (ČSN EN ISO 9562)	Liquids, water, extracts	-
42	Determination of adsorbable organically bound chlorine AOX (Cl) by coulometry	SOP 39/07, part B (ČSN EN 16166)	Solid materials	-
43	Determination of organically bound chlorine, EOX (Cl), total chlorine by coulometry	SOP 39/07, part C (ASTM D4929; GOST P 52247-2004)	Liquids	-
44	Determination of organically bound chlorine EOX (Cl) by coulometry	SOP 39/07, part D (DIN 38 414-17)	Solid materials	-
45	Determination of inorganic chlorine and chlorides by coulometry and calculation of NaCl	SOP 39/07, part E (ČSN 65 6030)	Liquids, water, extracts	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested object	Degrees of freedom ³
46	Determination of metals by AAS with graphite furnace and stoichiometric calculations of compound contents from measured values	SOP 40/08, part A (ČSN EN ISO 15586)	Water, extracts	-
47	Determination of metals by AAS with graphite furnace and stoichiometric calculations of compound contents from measured values	SOP 40/08, part B (JPP ÚKZÚZ AP II Procedure 30400.1, 30410.1, 30430.1)	Solid materials	-
48*	Determination of free and total chlorine by spectrophotometry using Hach Lange set and calculation of bound chlorine	SOP 41/08, part B (ČSN EN ISO 7393-2; Hach Lange manual)	Water except waste water	-
49	Determination of the content of mechanical impurities by gravimetry	SOP 42/08 (ČSN 65 6080; ČSN EN 12662; ČSN 65 6219; ČSN 65 6220)	Liquids	-
50	Determination of water content by distillation method	SOP 43/08 (ČSN EN ISO 9029)	Petroleum and petroleum products	-
51	Determination of hydrocarbons C ₁₀ – C ₄₀ by gas chromatography with FID	SOP 44/08, part A (ČSN EN ISO 9377-2)	Water, extracts	-
52	Determination of hydrocarbons C ₁₀ – C ₄₀ by gas chromatography with FID	SOP 44/08, part B (ČSN EN 14039; ČSN EN ISO 16703)	Solid materials	-
53	Determination of volatile organic compounds by GCMS in conjunction with the SPME method and calculation of the sum of TOL	SOP 45/10 (ČSN EN ISO 15680; ČSN EN ISO 10301; ČSN EN ISO 17943)	Water, liquids	-
54	Determination of nitrate by direct photometry in UV range, calculation of nitrate nitrogen and inorganic nitrogen	SOP 46/10, part A (Horáková, M., Lischke, P., Grünwald, A.: Chemical and Physical	Water except waste water	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested object	Degrees of freedom ³
		Methods for Water Analysis, 1986)		
55	Determination of TOC and DOC by Hach Lange cuvette tests and calculation of POC	SOP 47/11 (Hach Lange manual; ČSN EN 1484)	Water, extracts	-
56	Reserved			
57	Determination of humic substances by spectrophotometry	SOP 49/13 (ČSN 75 7536)	Water, extracts	-
58	Determination of fats and oils by gravimetry	SOP 50/13 (ČSN 75 7509)	Water, extracts	-
59	Determination of fluorides by electrochemical method (ISE)	SOP 51/13 (ČSN ISO 10359-1)	Water, extracts	-
60	Determination of total nitrogen by spectrophotometry and calculation of organic nitrogen	SOP 53/15 (ČSN EN ISO 11905-1; Berghof Products Application sheet)	Water, extracts	-
61	Determination of COD _{Cr} Hach Lange cuvette set	SOP 54/16 (Hach Lange manual; ČSN ISO 15705)	Water, extracts	-
62	Determination of hexavalent chromium by Hach Lange cuvette set	SOP 55/16 (Hach Lange manual)	Water, extracts	-
63*	Determination of water dew point and hydrocarbons and calculation of water content and dew point at 4 MPa	SOP 56/17 (ČSN EN ISO 6327; ČSN EN ISO 11541; ČSN EN ISO 18453)	Natural gas, heating gases, compressed gases	-
64*	Determination of temperature	SOP 57/17 (ČSN 75 7342)	Water, extracts, liquids, air, soil	-
65	Determination of BNC by titration and calculation of the forms of CO ₂	SOP 58/18 (ČSN 75 7372; ČSN 75 7373)	Water, extracts	-
66	Determination of the loss on ignition (LOI, combustibles) and annealing residue (ash) by gravimetry	SOP 59/19 (ČSN EN 15935; JPP ÚKZÚZ AP III procedure 30900.1)	Solid materials	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested object	Degrees of freedom ³
67	Determination of elements by ED XRF	SOP 60/19 (ČSN EN ISO 8754; ČSN EN ISO 20847; ČSN EN ISO 13032; ASTM D8252; ElvaX Pro spectrometer application)	Liquids	-
68	Determination of PCB by gas chromatography with ECD	SOP 61/20, part A (ČSN EN ISO 6468)	Water, extracts	-
69	Determination of PCB by gas chromatography with ECD	SOP 61/20, part B (ČSN EN 17322)	Solid materials	-
70	Determination of boron by Hach Lange cuvette set	SOP 62/22 (Hach Lange manual; ČSN ISO 9390)	Water, extracts	-
71	Determination of easily liberatable cyanides by Spectroquant cuvette test	SOP 63/22 (Merck Supelco Spectroquant manual; ČSN ISO 6703-2)	Water, extracts	-
72	Determination of turbidity by nephelometric method	SOP 64/22 (ČSN EN ISO 7027-1)	Water, extracts	-

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 the laboratory does not apply a flexible approach to the scope of accreditation

⁴ Bulletin of the Ministry of Agriculture of the Slovak Republic 2004, Part 4 Decree of the Ministry of Agriculture of the Slovak Republic of 4 November 2003 No 2915/2003-100 on the alcohol loss standards permissible in the operation of distilleries and other alcohol processing plants, the use of alcohol loss standards and alcohol tables

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)

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16, 17	Ag, Al, Ba, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Rb, Sn, Sr, V, Zn and calculation of hardness
18	Methane, ethane, propane, 2-methylpropane, 2-methylbutane, butane, pentane, hexanes, oxygen, nitrogen, carbon dioxides, helium, hydrogen, 2,2-dimethylpropane, gross calorific value, net calorific value, Wobbe index, molecular weight, compressibility factor, density, relative density, methane number MN, motor octane number MON
33	Ethane, propane, 2-methylpropane, 2-methylbutane, n-butane, n-pentane, propene, 1,2-butadiene, 1,3-butadiene, cis-2-butene, trans-2-butene, 1-butene, 2-methylpropene, octane number, density at 15° C, absolute vapour pressure at 37.8°C, absolute vapour pressure at 40°C, absolute vapour pressure at 50°C, absolute vapour pressure at 70°C, gauge pressure of vapours at -10°C, gauge pressure of vapours at -5°C, gauge pressure of vapours at 0°C, gauge pressure of vapours at 10°C, gauge pressure of vapours at 20°C, gauge pressure of vapours at 40°C
39, 40	Acenaphthylene (water and extract only), acenaphthene (water and extracts only), anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene (water and extracts only), phenanthrene, fluoranthene, fluorene (water and extracts only), indeno(1,2,3-cd)pyrene, naphthalene, pyrene
46, 47	Ag, As, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Sn, V
53	Benzene, toluene, o-xylene, m-xylene, p-xylene, ethylbenzene, chloromethane, chloroform, tetrachloromethane, bromodichloromethane, dibromochloromethane, tribromomethane, 1,1,-dichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, 1,1,2-trichloroethylene, tetrachloroethylene, 1,1-dichloroethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane, sum of chlorinated hydrocarbons, sum of trihalomethanes, sum of BTEX, methanol, ethanol, isopropanol
67	Sulphur, Chlorine, Ca, Cr, Cu, Fe, Mo, Ni, Pb, Sn, V, Zn
68, 69	PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180, PCB (7) sum

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (subject of testing)
1-16, 19, 22, 23, 28, 31, 34-39, 41, 45, 46, 48, 51, 53-55, 57-62, 64, 65, 68, 70-72	Water – drinking, surface, ground, mineral, bathing, layer, waste, process
1-14, 16, 22, 23, 31, 34-39, 41, 45, 46, 51, 55, 57-62, 64, 65, 68, 70-72	Extracts – extracts of soil, sludge, waste and sediments (aqueous extract of waste prepared according to ČSN EN 12457-4, extract from other matrix according to the client's requirement)
17, 24, 26, 32, 35, 40, 42, 44, 47, 52, 66, 69	Solid materials – soils, sludge, waste, sediments, technological materials
1, 2, 19, 21, 25, 27, 28, 30, 41, 43, 45, 49, 53, 64, 67, 73	Liquids – petroleum, petroleum products, oils, organic solvents, their mixtures including aqueous, spirits

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Ordinal test number	Detailed information on activities within the scope of accreditation (subject of testing)
18, 63	Heating gases – biogas, landfill and soil gas

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Sampled object
1	Sampling of sludge and sediments	SOP 01/01, part A 1 (ČSN ISO 5667-12; ČSN EN ISO 5667-13)	Sludge and sediments
2	Sampling of gases	SOP 01/01, part B (ČSN 38 5520:1965; ČSN 01 5113; ČSN EN ISO 10715)	Gases from air and utility facilities
3	Drinking water sampling	SOP 01/01, part C (ČSN ISO 5667-5; ČSN EN ISO 19458)	Drinking water
4	Dynamic and static sampling of ground water	SOP 01/01, part D (ČSN ISO 5667-11; ČSN EN ISO 19458)	Ground water
5	Sampling of surface water	SOP 01/01, part E (ČSN ISO 5667-4; ČSN EN ISO 5667-6; ČSN EN ISO 19458)	Surface water
6	Manual sampling of waste and process water	SOP 01/01, part F (ČSN ISO 5667-7; ČSN ISO 5667-10 except cl. 7.2.2 and 8.2; ČSN EN ISO 5667-13; ČSN 75 7315; Regulation 431/2001 Coll.)	Waste and process water
7	Waste sampling	SOP 01/01, part A 2 (ČSN EN ISO 5667-13; ČSN EN 14899; MoE Bulletin No. 4/2008)	Waste
8	Soil sampling	SOP 01/01, part A 3	Soils

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Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Sampled object
		(ČSN EN ISO 5667-13; ČSN 01 5111; ČSN ISO 11464; JPP ÚKZÚZ AP I, procedure 30010.1; Regulation 275/1998)	

¹ if the document identifying the sampling procedure is dated, only these specific procedures are used. If the document identifying the sampling procedure is not dated, the latest edition of the specified procedure is used (including any changes)

² MoE Bulletin No. 4, April 2008 - Ministry of Environment Guideline for Waste Sampling

Explanations:

AAS	Atomic Absorption Spectrometry
AMA	Advanced Mercury Analyser
AOX (Cl)	Adsorbable organically bound chlorine
AP	Soil analysis
API gravity	American Petroleum Institute gravity (density according to API)
BNC	Base Neutralizing capacity
BOD	Biochemical Oxygen Demand
BTEX	benzene, toluene, ethylbenzene, xylenes
DAD	Diode - Array Detection (variable wavelength detector)
Density	Density
DOC	Dissolved Organic Carbon
ECD	Electron Capture Detector
ED XRF	Energy Dispersive X-Ray Fluorescence Spectrometry
EDTA	Ethylenediaminetetraacetic Acid
EL	Extractives
EOX (Cl)	Extractable organically bound chlorine
EPA	Environmental Protection Agency
FID	Flame Ionisation Detector
FLD	Fluorescence detection (fluorescence detector)
GCMS	Gas Chromatography/Mass Spectrometry
HPLC	High Performance Liquid Chromatography
COD _{Cr}	Chemical Oxygen Demand with dichromate
COD _{Mn}	Chemical Oxygen Demand with permanganate
IR	Infrared Spectrometry
ISE	Ion Selective Electrode
JPP ÚKZÚZ	Uniform working procedures of the Central Institute for Supervising and Testing in Agriculture (Soil analysis I Brno 2016, Soil analysis II Brno 2019, Soil analysis III Brno 2011)

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KF	Karl Fischer
ANC	Acid Neutralizing Capacity
LOI	Loss on Ignition
LPG	Liquefied Petroleum Gases
MBAS	Methylene Blue Active Substance
MN	Methane Number
MON	Motor Octane Number
NEL	Nonpolar Extractives
PAL-A	Anionic Surfactants
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
POC	Particulate Organic Carbon
DIS	Dissolved Inorganic Salts, dissolved solids - annealed
SOP	Standard Operating Procedure based on normative documents
SPME	Solid Phase Microextraction
TCD	Thermal Conductivity Detector
TDS	Total Dissolved Solids
TOC	Total Organic Carbon
VOC	Volatile Organic Compounds
UV	Ultra Violet
BNC	Base Neutralizing capacity