

Scope of Accreditation

Accredited body: EKOLAB s.r.o.
Napájadlá 17/2763, 040 01 Košice

Organizational unit performing the activity of the accredited body:
Testing laboratory

Place of performance of the accredited body:
Napájadlá 17/2763, 040 01 Košice

Identification number of the accredited body: 423/S-307

Fixed scope

Item	Object		Established method		Other specifications (scope, uncertainty, purpose, modification/validation, opinions/interpretations, etc.)
	Subject / Matrix / Environment	Property /Parameter /Pointer /Analyte	Principle / Type	Label	
1.1	Liquid samples (waters, aqueous extracts) Solid samples (waste, solid fuels, sediments, raw materials, soils)	Al, As, B, Ba, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Si, Sn, Ti, V, Zn, Al ₂ O ₃ , CaO, MgO, Fe ₂ O ₃ , K ₂ O, MnO, Na ₂ O, SiO ₂ , TiO ₂ , V ₂ O ₅	ICP. AES	IPP 250 (STN EN ISO 11885, EPA 200.7, STN EN 62321, STN EN 15411, STN EN 15410, STN EN 16170)	Field measurements
1.2		As, Cd, Ni, Pb, Sb, Se	AAS	IPP 261 (STN EN ISO 15586, STN EN 16172)	
1.3	Hg	IPP 265 (STN EN 1483 STN EN 16175)			
2.1	Liquid samples (waters)	pH	Potentiometry	IPP 213 (STN EN ISO 10523, STN EN 27888, STN EN ISO 7393-2, STN EN ISO 5814)	
2.2		conductivity	Conductometry		
2.3		chlorine -Free -bound	Spectro- photometry		
2.4		Oxygen dissolved	Electrochemical method		
3.1	Liquid samples (waters, aqueous extracts)	pH	Potentiometry	IPP 001 (STN EN ISO 10523)	
3.2		Conductivity	Conductometry	IPP 002 (STN EN 27888)	
3.3		BOD ₅	Electrochemical method	IPP 005 (STN EN 1899-2, STN EN ISO 5815- 1)	
3.4		Oxygen dissolved		IPP 017 (STN EN ISO 5814)	
3.5		AOX, EOX		Coulometry	IPP 023 (STN EN ISO 9562)
3.6		Total solutes -insoluble -soluble	Gravimetry	IPP 007 (STN EN 872, STN 757373, STN EN 15216)	
3.7		TOC, DOC	NDIR	IPP 021 (STN EN 1484)	
3.8		COD _{Mn}	Volumetric method	IPP 003 (STN EN ISO 8467)	
3.9		Chlorides		IPP 008 (STN ISO 9297)	

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3.10	Liquid samples (waters, aqueous extracts)	Total nitrogen	Chemilumini- scence	IPP 019 (STN EN ISO 20236)	
3.11		Ammonium ions	Volumetric method	IPP 018 (STN ISO 9297)	
			Spectro- photometry	IPP 012 (STN ISO 7150-1)	
3.12		Nitrites	Spectro- photometry	IPP 031 (STN EN 26777)	
3.13		Total phosphorus, phosphates		IPP 029 (STN EN ISO 6878)	
3.14		NEL, EXL		IPP 022 (STN 83 0540-4)	
4.1	Solid samples (waste, sediments, raw materials, soils)	Nitrogen content	Elemental analysis	IPP 153 (STN EN 16 168)	
4.2		Dry matter, loss of ignition	Gravimetry	IPP 110 (STN EN 12880, STN EN 15934, STN EN 15935)	
4.3		TOC, IC, TC, CO ₂	NDIR	IPP 113 (STN EN 13 137)	
4.4		NEL, EXL	Spectro- photometry	IPP 111 (STN 75 7952, TNI/ISO/TR 11 046)	
4.5	Unoccupied				
4.6	Unoccupied				
5.1	Solid fuels	Biomass content and carbon content in biomass	Gravimetry	IPP 158 (STN EN ISO 21644)	
5.2		Water content		(STN 44 1377, STN EN ISO 18134, STN ISO 579, STN P CEN/TS 15414)	
5.3		Ash	Gravimetry	IPP 150 (STN ISO 1171, STN EN ISO 18122, STN EN ISO 21656)	
5.4		Volatile substances		IPP 151 (STN ISO 562, ČSN ISO 5071-1, STN EN ISO 15148, STN EN ISO 22167)	
5.5		C, H, N, S		Elemental analysis	IPP 153 (ISO29541, STN EN ISO 16948, STN EN ISO 21663)
5.6		Solid fuels	Combustion heat and calorific value	Calorimetry	IPP 154 (STN ISO 1928, STN EN ISO 18125, STN EN ISO 21654)



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6.1	Liquid samples (waters, aqueous extracts)	Intestinal enterococci (fecal streptococci)	Cultivation method (quantitative method)	IPP MBR 45 (STN EN ISO 7899-2)	
6.2		Coliform bacteria <i>E. coli</i>		IPP MBR 44 (STN EN ISO 9308-1)	
6.3		Cultivable organisms at 22°C, 36°C mesophilic, psychrophilic bacteria		IPP MBR 48 (STN EN ISO 6222)	
6.4		<i>Legionella</i> sp.		IPP MBR 50 (STN EN ISO 11731-2)	
6.5		<i>Pseudomonas aeruginosa</i>		IPP MBR 47 (STN EN ISO 16266)	
6.6	Unoccupied				
6.7	Liquid samples (waters, aqueous extracts)	<i>Staphylococcus aureus</i>	Cultivation method (quantitative method)	IPP MBR 05 (STN EN ISO 6888-1)	
7.1	Unoccupied				
7.2	Unoccupied				
7.3	Unoccupied				
7.4	Unoccupied				
7.5	Unoccupied				
7.6	Unoccupied				
7.7	Unoccupied				
8.1	Unoccupied				
8.2	Unoccupied				
8.3	Sterilizers (steam, hot air, ethylene oxide)	Evidence of inactivation of <i>Bacillus atropheus</i> and <i>Geobacillus steraothermophilus</i>	Cultivation method (qualitative method))	IPP MBR 04 (STN EN ISO 11138 1,3-5) Vyhl. MZSR č. 553/2007 Z. z.	Bioindicator method (proof of sterilization process efficiency)
9.1	Waters	Producers, consumers, colorless whipworms, living organisms, dead organisms, fibrous bacteria	Microscopy (quantitative analysis)	IPP MBR 51 (STN 75 7711+Z1)	
9.2		Determination of abiosestone, Fe and Mn bacteria	Microscopy (% coverage)	IPP MBR 53 (STN 75 7712)	
10.1	Liquid samples (waters, aqueous extracts)	Mobility inhibition of <i>Daphnia magna</i> Straus	Determination of toxic effect	IPP MBR 27 (STN EN ISO 6341) IPP MBR 24 (STN 83 8303)	
10.2	Liquid samples (waters, aqueous extracts)	Inhibition of freshwater algae growth	Determination of toxic effect	IPP MBR 57 (STN EN ISO 8692) IPP MBR 24 (STN 83 8303)	
10.3		Inhibition of root growth of a higher cultivated plant		IPP MBR 24 (STN 83 8303)	
10.4		Inhibition of light emission by <i>Vibrio fischeri</i>		IPP MBR 52 (STN EN ISO 11348 -3)	



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11.1	Solid samples (fuels, products)	Chlorine, fluorine, sulfur	IC Spectro- photometry	IPP 160 (STN EN ISO 16994, STN EN 15408, STN EN 14582, ASTM D7359-14a, UOP991-13)		
11.2	Liquid samples (Water) Solid samples (waste, soil)	Hydrocarbon index (C ₁₀ – C ₄₀)	GC/FID	IPP 309 (STN EN ISO 9377 – 2) IPP 460 (STN EN 14039, STN EN 16703)		
11.3	Solid samples (solid waste, liquid waste, petroleum products, paints)	VOC Volatile content	GC/FID	IPP 465 (STN EN ISO 11890-2)		
12.1	Air (work environment)	Solid aerosol and respirable solid aerosol fraction	Gravimetry	IPP211 (MDHS 14/4, STN EN 689)	Regulation of the Government of the SR 355/2006 Coll. as amended	
12.2		HCl, HF, HNO ₃ , H ₂ SO ₄	IC	IPP402 (NIOSH 7903)		
12.3		Isocyanates 1,6- hexamethylendizio cyanate (HDI), metylenbisphenyl cyanate (MDI), toluen-2,4- diziocyanate, toluen-2,6- diisocyanate (TDI)	HPLC/FLD	IPP 313 (ISO16702, OSHA 42, OSHA 47)		
13.1	Air (emissions ⁽¹⁾ , working environment)	Al, As, Be, Ca, Cd, Co, Cr, Cu,Fe, Hg, Mg, Mn, Ni, Pb, Sb, Se, Sn, Te, Tl, V, Zn	ICP AES AAS-GK	IPP 253 (EPA 29 STN EN 14385, STN EN 13211, OSHA ID-206, OSHA 125G, NIOSH 6009)	Range	Extended measurement uncertainty (k = 2) [%]
13.2		CN ⁻ a HCN	Spectro- photometry	IPP 108 (CARB, method 426, NIOSH 6010)	(0,0001-0,001) mg* (0,001-0,002) mg* (0,002-0,5) mg* (0,5-1,0) mg*	20 18 15 10
13.3		Fluoride	Spectro- photometry	IPP 101 (STN 83 4752 – 3,4, EPA 13A, EPA 13B, STN ISO 15713)	(0,005-0,05) mg* (0,05-0,5) mg* (0,5-5,0) mg*	15 10 8
13.4		HCl	Spektr- fotometria IC	IPP 109 (STN EN 1911)	(0,005-0,05) mg* (0,05-0,5) mg* (0,5-5,0) mg*	15 10 8
13.5		Hydrogen sulfide	Spectro- photometry Volumetric method	IPP 104 (STN 83 4712 – 4)	(0,005-0,1) mg* (0,1-0,5) mg* (0,5-5,0) mg*	30 20 15
13.6		Ammonia	Spectro- photometry Volumetric method	IPP 106 (STN 83 4728 – 3,4)	(0,005-0,025) mg* (0,025-0,3) mg* (0,3-5,0) mg*	15 10 8
13.7		Cl ₂	Volumetric method	IPP 100 (STN 83 4751 - 4)	(0,005-0,05) mg* (0,05-0,5) mg* (0,5-5,0) mg*	15 10 8

Item	Object		Established method		Other specifications (scope, uncertainty, purpose, modification/validation, opinions/interpretations, etc.)	
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13.8	Air (emissions ⁽¹⁾ , working environment)	Reduced sulfur	Volumetric method	IPP 105 (EPA 16A)	(0,3-3,0) mg* (3,0-60,0) mg* (60,0-120,0) mg*	12 10 8
13.9		SO ₂ , SO ₃ , H ₂ SO ₄ , SO _x	Volumetric method	IPP103 (STN 83 4711 – 4, 5, 6, STN EN 14791)	(0,6-6,0) mg* (6,0-30,0) mg* (30,0-120,0) mg*	12 8 6
13.10		Dimethylamine	HPLC/FLD	IPP 401 (OSHA 34)	(0,001-0,05) mg* (0,05-0,2) mg* (0,2-1,0) mg*	20 18 15
13.11		Chromate (Cr ⁶⁺)	IC	IPP 405 (EPA 0061, OSHA ID 215)	(0,005-0,02) mg* (0,02-0,3) mg*	20 15
13.12	Air (emissions ⁽¹⁾ , working environment)	acenaphthene, acenaphthylene, anthracene, benzo (a)anthracene, benzo (a) pyrene, benzo (b) fluoranthene, benzo (k) fluoranthene, benzo (g, h, i) perylene, dibenzo (a, h) anthracene, phenanthrene, fluoranthene, fluorene, chrysanthemum, indeno (1,2,3, -c, d) pyrene, naphthalene, pyrene	GC/MSD	IPP 415 (NIOSH 5506, STN ISO 11338-2)	(0,00005- 0,0001) mg* (0,0001-0,001) mg*	25 20

Notes:

* mass based on the sample, valid for emissions

(1) Performance of sub-supplies of eligible measurements according to Act 137/2010 Coll. as amended

Explanations of abbreviations:

CARB - California methods of air protection

EPA - US Environmental Protection Agency

JMAKO - Uniform methods for analytical control of waste

MDHS - Methods for the identification of dangerous substances

NIOSH - State Institute for Occupational Safety and Health

OSHA - European Agency for Safety and Health at Work



Flexible scope

Item	Object		Established method		Other specifications (scope, uncertainty, purpose, modification/validation, opinions/inteepretations, etc.)	
	Subject / Matrix / Environment	Property /Parameter /Pointer /Analyte	Principle / Type	Label		
1.1	Fuels Secondary fuels -liquid -solid Waste fuels	Metal ⁽³⁵⁾	ICP AES	IPP 253 (EPA 29, STN EN 14385, STN EN 13211)	Decree of the Ministry of the Environment of the Slovak Republic no. 228/2014 as amended	
1.2	Fuels Solid samples -waste -sediment -raw materials -soil	Element ⁽³⁶⁾	X-ray fluorescence spectrometry	IPP 270 (STN EN ISO 13196, STN EN 15309, EPA 6200)	Decree of the Ministry of the Environment of the Slovak Republic no. 228/2014 as amended	
1.3	Air -emissions ⁽¹⁾ , -working environment	Element ⁽³⁷⁾		IPP 270 (MDHS 91/2 EPA X EPA ZZ)	Range	Extended measurement uncertainty (k = 2) [%]
				(0,001 – 0,05) mg*	30	
				(0,05 – 0,5) mg*	20	
				(0,5 – 50 mg*	15	
2.1	Liquid samples -water	Absorbance	Spectro- photometry	IPP 028 (STN 75 7360)	Applies to water samples only.	
2.2	Solid samples -waste, - soils	Anionic surfactants		IPP 024 (STN EN ISO 16265, STN EN 903)		
2.3	Unoccupied					
2.4		Phenol index	Spectro- photometry	IPP 015 (STN EN ISO 14402, STN ISO 6439)		
2.5	Liquid samples -water	Color		STN EN ISO 7887	Applies to water samples only.	
2.6	Solid samples -waste, - soils	Cyanides -total -easily releasable		IPP 013 (STN EN ISO 14403-2, STN ISO 6703- 1,2)		
2.7		Thiocyanates		IPP 040 (ASTM D4193-08)		
2.8	Liquid samples -waters -water extracts	Sulfane, sulfides	Spectro- photometry	IPP 011 (STN 75 7483)		
2.9		COD _{Cr}	Spectro- photometry Volumetric method	IPP 004 (STN ISO 15705)		
2.10	Liquid samples -waters -water extracts	Acid and base neutralizing capacity	Volumetric method	IPP 009 (STN EN ISO 9963-1) IPP 010 (STN 75 7372)		
2.11	Liquid samples -waters -water extracts	Sulfates	Volumetric method	IPP 016 (Metrohm T-77)		
2.12	Liquid samples - aqueous extracts -waters Solid samples -waste - sediment - soils	Hydrogen sulfide sulphides		IPP 030 (Metrohm T-32)		
2.13	Liquid samples - aqueous extracts -waters	Ammonium ions	Spectro- photometry	IPP 012 (STN EN ISO 11732)		
2.14	Liquid samples - aqueous extracts -waters	BOD ₅	Respirometry	IPP 005 (EPA Method 5210D)		
3.1	Unoccupied					
3.2	Unoccupied					



Item	Object		Established method		Other specifications (scope, uncertainty, purpose, modification/validation, opinions/inteepretations, etc.)	
	Subject / Matrix / Environment	Property /Parameter /Pointer /Analyte	Principle / Type	Label		
3.3	Industrial products	Residual impurities	Gravimetry	IPP 500 (VDA 19.1, ISO 16232)		
4.1	Air -emissions ⁽¹⁾ , -working environment	Inorganic chlorine compounds, expressed as Cl ₂ a ClO ₂	IC	IPP 109 (OSHA ID-202)	Range	Extended measurement uncertainty (k = 2) [%]
					(0,001 – 0,05) mg*	20
					(0,05 – 0,5) mg*	15
					(0,5 – 25) mg*	10
4.2	Secondary fuels -solid	Ions ⁽²⁾		IPP 300 (STN ISO 10304, STN EN ISO 14911)		
4.3	-liquid Liquid samples -water extracts -waters Waste fuels Solid samples -feedingstuffs -Waste - fuels	Sum of PCB ⁽³⁾	GC/MSD calculation	IPP 305 (EPA 3665A, EPA 8270C, EPA 8082A, STN EN 1528, STN EN 61619 STN EN 12766, STN 757921, STN EN 16215)	Decree of the Ministry of the Environment of the Slovak Republic no. 228/2014 as amended	
	- grocery store - sediments - soils	Sum of PAH ⁽⁴⁾				
4.5	Secondary fuels -solid -liquid Liquid samples -water extracts -waters Waste fuels Solid samples -feedingstuffs -Waste - fuels - grocery store - sediments - soils	Polychlorinated dibenzo-p-dioxins and dibenzofurans ⁽⁵⁾	GC/MSD	IPP 367 (EPA 8280B, Nar. Komisie ES č. 152/2009, príloha V, STN EN 16215, STN EN 16190)		
4.6	Liquid samples -waters	Phenols ⁽⁶⁾	GC/MSD	IPP 319 (STN EN ISO 18 857)		
4.7		Phthalates ⁽⁷⁾		IPP 312 (STN EN ISO 18 856)		
4.8	Air -emissions ⁽¹⁾ , - working environment	Polychlorinated dibenzo-p-dioxins and dibenzofurans ⁽⁵⁾	GC/MSD	IPP 464 (STN EN 1948-2,3)	Range	Extended measurement uncertainty (k = 2) [%]
					(0,001 – 0,05) ng*	40
					(0,05 – 0,2) ng*	35
					(0,2 – 5) ng*	30
4.9	Unoccupied					
4.10	Unoccupied					
4.11	Air -emissions -gases	Gases ⁽¹⁰⁾	GC/BID	IPP 418 (STN EN ISO 6974, ASTM D7652-11)		
4.12	Liquid samples -waters Solid samples -waste	Volatile substances ⁽¹¹⁾	GC/MSD	IPP 301 (STN EN ISO 15 680, STN 757550, EPA 5021)		

Item	Object		Established method		Other specifications (scope, uncertainty, purpose, modification/validation, opinions/interpretations, etc.)	
	Subject / Matrix / Environment	Property /Parameter /Pointer /Analyte	Principle / Type	Label		
4.13	Air -emissions ⁽¹⁾ , -working environment	Acetate ⁽¹²⁾ Acrylates ⁽¹³⁾ Aliphatic hydrocarbons ⁽¹⁴⁾ Alcohols ⁽¹⁵⁾ Aromatic hydrocarbons ⁽¹⁶⁾ Ethers ⁽¹⁷⁾ Phenols and cresols ⁽¹⁸⁾ Chlorinated hydrocarbons ⁽¹⁹⁾ Ketones ⁽²⁰⁾ Oxide ⁽²¹⁾	GC/FID/MSD Solvent desorption and thermal desorption	IPP 417 (STN P CEN/TS 13 649, MDHS 96)	Range	Extended measurement uncertainty (k = 2) [%]
					(0,001 – 0,05) mg* (0,05 – 0,2) mg* (0,2 – 5) mg*	25 20 18
4.14	Liquid samples -waters	Pesticides -chlorinated ⁽²²⁾ -organophosphates ⁽²³⁾ -other ⁽²⁴⁾ -triazines ⁽²⁵⁾	GC/MSD	IPP 306 (EPA 525.2, EPA 8270C)		
4.15		Pesticides -carbamates ⁽²⁶⁾ -acid herbicides ⁽²⁷⁾ -neonicotine ⁽²⁸⁾ -other ⁽²⁹⁾ -sulfonylurea ⁽³⁰⁾ triazine ⁽³¹⁾ -uróny ⁽³²⁾	LC/MSD	IPP 308 (STN EN ISO 11 369), EPA 8325)		
4.16	Air -emissions ⁽¹⁾ , -working environment	Aldehyde ⁽³³⁾	LC/DAD	IPP 406 (EPA 0011, NIOSH 2016, NIOSH 2018)	Range	Extended measurement uncertainty (k = 2) [%]
		Organic acids ⁽³⁴⁾			(0,001 – 0,05)mg* (0,05 – 0,25) mg* (0,25 – 5) mg*	20 18 15
4.17	Liquid samples -waters -water extracts		Formaldehyde	IPP 400 (VDI 2457 BI.4)	Range	Extended measurement uncertainty (k = 2) [%]
4.18		(0,01 – 0,05) mg* (0,05 – 0,2) mg* (0,2 – 1) mg*			15 12 10	
4.19	Air -emissions ⁽¹⁾	Ammonia	Spectro- Photometry IC	IPP 106 (STN EN ISO 21877)	Range	Extended measurement uncertainty (k = 2) [%]
					(0,005–0,025) mg (0,025–0,3) mg (0,3–5,0) mg (5,0 – 20) mg	20 18 15 12
4.20	Unoccupied					
4.21	Air - outdoor - emissions	Odour concentration	Dynamic olfactometry	IPP 207 (STN EN 13725)		

NOTES:

mass on the sample, valid for emissions

(1) Performance of sub-supplies of eligible measurements according to Act 137/2010 Coll. as amended

(2) Ions: chlorides, nitrates, nitrites, phosphates, sulphates, fluorides, chromates (Cr⁶⁺), Na, NH₄, K, Ca, Mg²⁺

(3) PCB: PCB 18, 20, 28, 31, 44, 52, 77, 81, 101, 105, 114, 118, 123, 126, 138, 149, 153, 156, 167, 169, 170, 180, 189, 194

(4) PAHs: acenaphthene, acenaphthylene, anthracene, benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, benzo (k) fluoranthene, benzo (g, h, i) perylene, dibenzo (a, h) anthracene, phenanthrene, fluoranthene, fluorene, chrysene, indeno (1,2,3, -c, d) pyrene, naphthalene, pyrene

(5) Polychlorinated dibenzo-p-dioxins and dibenzofurans: 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2, 3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,7,8,9- HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, OCDF, 2,3,7,8-TCDD, 1,2, 3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD

(6) Phenols: 4-tert-octylphenol

- (7) Phthalates: dibutyl phthalate, bis (2-ethylhexyl) phthalate
(10) Gases: methane, ethane, propane, butane, ethylene, propylene, hydrogen, carbon dioxide, carbon monoxide
(11) Volatiles: vinyl chloride, 1,1-dichloroethylene, trans-1,2-DCE, 1,1-Dichloroethane, cis-1,2-DCE, chloroform, 1,2-Dichloroethane, Benzene, TCE, 1, 3-DCB, 1,4-DCB, 1,2-DCB, 1,3,5-TMB, 1,2,4-TMB, 1,2,4-TCB, 1,3,5-TCB, PCE, Chlorobenzene, Toluene, CCl₄, ethylbenzene, m, p-xylene, o-xylene, styrene, bromoform, dibromochloromethane, bromodichloromethane
(12) Acetates: butyl acetate, methyl acetate, vinyl acetate,
(13) Acrylates: ethyl acrylate, methyl acrylate
(14) Aliphatic hydrocarbons: pentane, hexane, nonane
(15) Alcohols: 1-hexanol, 1-methoxy-2-propanol, 2-butanol, 2-propanol, allyl alcohol, cyclohexanol, ethanol, i-amyl alcohol, i-butanol, methanol, n-butanol, n-propanol, t butanol
(16) Aromatic hydrocarbons: benzene, o-xylene, 1,3,5-trimethylbenzene, toluene, m, p-xylene, 1,2,4-trimethylbenzene, ethylbenzene, styrene, 1,2,3-trimethylbenzene
(17) Ethers: dimethyl ether
(18) Phenols and cresols: phenol, o-cresol, m-cresol, p-cresol
(19) Chlorinated hydrocarbons: 1,1-DCE, CH₂Cl₂, PCE, trans-1,2-DCE, CHCl₃, chlorobenzene, 1,2-dichloroethane, 1,1-dichloroethane, TCE, 1,3-DCB, 1, 2-DCB, cis-1,2-DCE, 2-chloroethanol, chloroethane, vinyl chloride
(20) Ketones: acetone, ethyl methyl ketone, methyl isobutyl ketone
(21) Oxides: ethylene oxide, propylene oxide
(22) Chlorinated pesticides: alachlor, aldrin, dieldrin, isodrin, alpha-HCH, beta-HCH, gamma-HCH (lindane), delta-HCH, o, p'-DDD, o, p'-DDE, o, p'-DDT, p, p'-DDD, p, p, DDD, p, p-DDT, HCB, endrin, endosulfan, methoxychlor, heptachlor, heptachlor-endo-epoxide, heptachlor-exo-epoxide
(23) Organophosphate pesticides: mevinphos, dimefox, omethoate, dimethoate, paraoxon-ethyl, disulfoton, parathion-ethyl, fenitrothion, parathion-methyl, formothion, phosalone, iodofenphos, pyrazophos, malaaxon, methamidophos, azinetophos, azin -Methyl, fenchlorphos, bromophos-ethyl, phonophos, bromophos-methyl, malathion, carbophenothion, methacrifos, methidathion, chlorpyrifos, pirimiphos-ethyl, chlorpyrifos-methyl, pirimiphos-methyl, diazinon, propetamphos, dichlofenthion, sulfotep, chlorvinpos, dichlorvos, acephate, bromophos-methyl, bromophos-ethyl, dichlofenthion, chlorfenvinphos, monocrotophos, profenophos
(24) Other pesticides: amitraz, benfluralin, bromacil, carbofuran, crimidine, ciazinone, diflufenican, dichlofluanid, fenmidone, fenarimol, fenvalerate, flumpropisopropyl, folpet, phonophos, hexaconazole, hexazinone, chloromaphylenethenophenolphenone chlorthal-dimethyl, metribuzin, naled, omethoate, phorate, phosalone, pronamide, propanil, propiconazole, quintozone, sulfotep, tecnazene, terbufos, tetradiphone, thiomethon, tricyclazole, acrinathrin, beta-Endosulfan, bromopropylate, butachlor, butachlo cyhalothrin, cypermethrin, cyproconazole, deltamethrin, dicofol, dicrotophos, dichlobenil, dimethachlor, diphenamide, EPTC, ethofumesate, ethoprophos, fenson, flucythrinate, fluridone, fluvalinate, hexachlorobutadiene, methoxylamalazolimat, norflurazon, pebulate, pendimethalin, pentachloroaniline, pethoxamide, phenothrin, phosphamidon, piperonyl-butoxide, pirimicid, procymidone, prometone, propachlor, prothioconazole, pesmethrin, terbacil tetrachlorvinphos, tetrasul, tolyfluanid, trifluralin, vernolate, vinclozolin
(25) Triazine pesticides: atrazine, simazine, cyanazine, propazine, sebutylazine, terbuthylazine, ametryn, prometryn, terbutryn, atratone
(26) Carbamate pesticides: carbaryl, carbofuran, methiocarb, propoxur, furathiocarb, bendiocarb, butocarboxim sul., Butocarboxim, methomyl, aminocarb, dioxacarb, ethiofencarb, isoprocarb, mexacarbamate, fenoxocarb, propenourycarb, prop
(27) Acid herbicides: dicamba, clopyralid, picloram, 2,4-D, mecoprop, dichlorprop, MCPA, MCPB, 2,4-DB, bentazone, triclopyr
(28) Neonicotine pesticides: imidacloprid, thiamethoxam, clothianidin, thiacloprid, dinotefuran, nitenpyran, acetamiprid
(29) Other pesticides: glyphosate, anilazine, desmedipham, diquat, fenoxaprop-ethyl, fenoxaprop-P, haloxyfop, haloxyfop-R-methyl, phenmedipham, pyridaphenthion, quinalphos, terbutmetone, thaibendazole, thiram, triadimefon, triadimenol, triazophos, trichlorfon, vamidothion, allethrin, AMPA, azaconazole, azoxystrobin, boscalid, bromoxynil, bromuconazole, carbendazime, carboxim, carfentrazone-ethyl, clomazone, c-permethol, difyphoconazole, cyproconazole epoxyconazole, fenbuconazole, fenobucarb, phenothiocarb, fenpropidin, fenpropimorph, flumprop-isopropyl, fluazifop, fluazifop-P-butyl, fluquinconazole, fluroxypyr, glufosinate-ammonium, chloridazone-phenylpyrimin-des-chloridazone desbenzyl, ioxynil, lenacil, mefenpyr-diethyl, mepiquat, metamitron, metconazole, methoxyfenozide, metolcarb, napropamide, novaluron, penconazole, quinmerac, simeconazole, spiroxamine, tebuconazole, tetraconazole, thiodicill, thiod
(30) Sulfonylurea: amidosulfuron, azimsulfuron, bensulfuron-methyl, cinosulfuron, cyclosulfuron, ethoxysulfuron, flazasulfuron, fluprimsulfuron-methyl-sodium, foramsulfuron, halosulfuron-methyl, chlorimurosulfuron-ethyl, chlorsazosuron, oxasulfuron, prosulfuron, primisulfuron-methyl, rimsulfuron, sulfometuron-methyl, sulfosulfuron, thiazafurion, thifensulfuron, trifloxysulfuron, tritosulfuron
(31) Triazines: atrazine, simazine, cyanazine, hydroxy-2-atrazine, propazine, sebutylazine, terbuthylazine, ametryn, prometryn, terbutryn, aziprotryn, desmetryn, dimetametryn, methoprotryn, simetryn, desethyl atrazine, desethyl azrazin, desethyl azrazine, simetryn, terbuthylazine-2-hydroxy, terbuthylazine-desethyl-2-hydroxy
(32) Urons: benzthiazuron, monolinuron, chloroxuron, difenoxuron, hexaflumuron, isoproturon-desmethyl, monuron, dimefuron, cycluron, neburon, metoxuron, fenuron, diuron, linuron, lufenuron, isoproturiazon, butotholuronon, butotenzuronon butt, ethidimuron, chlorobormuron, metobromuron, metoxuron, pencycuron, tebuthiuron, teflubenzuron, triflumuron
(33) Aldehydes: acetaldehyde, formaldehyde, furfural
(34) Organic acids: formic acid, acetic acid
(35) Metal: As, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Tl, V, Zn, Hg
(36) Element: Al, As, Ca, Cd, Cl, Co, Cr, Cu, Fe, Mg, Mn, Ni, P, Pb, S, Sb, Si, Zn,
(37) Element: Sb, As, Sn, Cr, Cd, V, Se, Zn, Be, Te, Co, Cu, Mn, Ni, Pb, Hg, Tl

Explanations of abbreviations:

- CARB - California methods of air protection
EPA - US Environmental Protection Agency
JMAKO - Uniform methods for analytical control of waste
MDHS - Methods for the identification of dangerous substances
NIOSH - State Institute for Occupational Safety and Health
OSHA - European Agency for Safety and Health at Work

Notice:

Flexibility does not apply to changing the principle of the methods used in a given flexible scope.

 The laboratory maintains an up-to-date list of all test methods with a flexible scope of accreditation at <http://www.ekolab.sk/-osvedceni>

The principle of flexibility can be used by the laboratory within the framework of:

- objects/matrices/environments
- properties/parameters/indicators/analytes
- measuring ranges and measurement uncertainties
- modifications to the methods and procedures used for testing
- identification of the methods and procedures used for testing

Personnel competent to modify and validate methods/develop new methods during the validity of the accreditation

First and last name, titles	Ability to modify and validate methods/develop new methods – item in activity specification No.
Ing. Eva Jusková	1.1 – 2.2, 2.4 – 2.14, 3.3 – 4.8, 4.11 – 4.19, 4.21
Ing. Katarína Sopková	1.1 – 2.2, 2.4 – 2.14, 3.3 – 4.8, 4.11 – 4.19, 4.21

Sampling**Fixed scope**

Item	object			method		Other specifications sampling point
	subject	attribute	sampling point	Type / principle	label	
1.	waters drinking, surface, waste, underground	<p>Properties listed in items fixed scope of accreditation: 1.1-1.3, 2.1-2.4, 3.1-3.18, 6.1-6.5, 6.7 9.1-9.2, 10.1-10.4, 11.2</p> <p>Properties listed in the flexible scope of accreditation items: 2.1, 2.2, 2.4-2.7, 2.9-2.12, 2.13, 2.14, 4.3-4.7, 4.12, 4.14-4.15, 4.18</p>	<p>Sources and treatment plants for drinking water, rivers, lakes, water supply, sewerage Wastewater treatment plant</p> <p>Groundwater - wells, boreholes</p>	<p>Point samples</p> <p>Point, time-proportional samples and qualified spot samples</p> <p>Pumping test</p>	<p>IPP 200 (STN EN ISO 5667-1, 3, STN ISO 5667 - 5, 10, 11, 14, STN EN ISO 19458)</p> <p>IPP 200 (STN EN ISO 5667-1, 3, , STN ISO 5667-10 STN EN ISO 19458)</p> <p>IPP 200 (STN EN ISO 5667-1, 3 STN ISO 11)</p>	With description of the sample in the field: Color, turbidity, odor
2.	Bathing water	<p>Properties listed in items fixed scope of accreditation: 6.1-6.3, 6.5, 6.7, 9.1</p>	Pools, swimming pools	Point samples	IPP 200 (STN EN ISO 5667-1, 3, 5, 14 STN EN ISO 19458)	
3.	Air (working environment)	<p>Properties listed in items fixed scope of accreditation: 12.1-12.3, 13.1-13.12</p> <p>Properties listed in the flexible scope of accreditation items: 1.3, 4.1, 4.13, 4.16</p>	Work environment	Personal collection	IPP 201 (STN EN 482, STN EN 689, STN EN ISO 10882-1,2)	



Flexible scope

Item	object			method		Other specifications sampling point
	subject	attribute	sampling point	Type / principle	label	
1.	Unoccupied					
2.	Liquid secondary and waste fuels	Properties listed in items fixed scope of accreditation: 1.1, 5.1-5.6, 11.1 Properties listed in the flexible scope of accreditation items: 1.1, 2.8, 4,2-4.5	Producers and holders of fuels	Point sample	IPP 204 (STN EN ISO 3170)	
3.	Solid secondary and waste fuels	Properties listed in items fixed scope of accreditation: 1.1, 5.1-5.6, 11.1 Properties listed in the flexible scope of accreditation items: 1.1, 2.8, 4,2-4.5 POPs	Producers and holders of fuels	Manual and mechanical sampling	IPP 205 (STN EN 15 442)	
4.	Solid waste Liquid waste sludges	Properties listed in items fixed scope of accreditation: 1.1, 4.1-4.6, 10.1-10.4, 11.2-11.4 Properties listed in the flexible scope of accreditation items: 1.2-1.3, 2.12, 4.2-4.5, 4.12	Holders of waste	Manual and mechanical sampling	IPP 200	Decree of the Ministry of the Environment of the Slovak Republic no. 1/2015 on uniform methods for analytical control of waste STN EN ISO 5667-13
5.	Air -outdoor air	Property listed in item 4.21 flexible scope of accreditation	Environment of odour emission sources	Collection in a bag	IPP 207 (STN EN 13725)	

Notice:

Flexibility does not apply to changing the principle of the methods used in a given flexible scope.

The laboratory maintains an up-to-date list of all test methods with a flexible scope of accreditation at <http://www.ekolab.sk/-osvedcenia>

The principle of flexibility can be used by the laboratory within:

- subject/matrix/environment
- properties/parameters/indicators/analytes
- modifications to the methods and procedures used for sampling
- identification of the methods and procedures used for sampling

Personnel competent to modify and validate methods/develop new methods during the validity of the accreditation

First and last name, titles	Ability to modify and validate methods/develop new methods item in activity specification No.
Ing. Katarína Sopková	2 – 5

