

PROFICIENCY TESTING SCHEME

Annual Programme 2026

PROFICIENCY TESTING PROGRAMME

Edition 1: 10.11.2025

Proficiency Testing plays an important part in the adaptation, standardization and validation of measurement techniques as well as in the assessment of laboratories and the production of reference materials. Accredited laboratories also need it as proof of their technical competence.

The Environment Agency Austria (Umweltbundesamt) offers different interlaboratory comparisons every year. This allows the verification of the validity of your test results by an external quality control programme.

The main facts of the process are:

- All interlaboratory comparisons are performed according to the requirements of EN ISO/IEC 17043. Minimum 15 participants.
- You will receive samples from us. These samples will be analysed in your laboratory.
- Your results will be submitted electronically by entering the test data online. The deadline is usually 4–5 weeks after the sample dispatch date.
- ISO 5725-2 and ISO 13528 will be used as the basis for the statistical analysis.
- The consensus value as the mean value of the results of the participants without outliers is used to evaluate real sample proficiency tests (at least $n=6$ valid data sets must be available). The consensus value is additionally checked for plausibility by comparing the results with a competent laboratory. If necessary, the evaluation of the real sample proficiency tests is done by the consensus value of expert laboratories (accredited participants without outliers). The expanded measurement uncertainty of the assigned value is calculated via the reproducibility standard deviation of the results of participants without outliers ($k=2$).
- The so-called 'z score' will be used as assessment criterion for participant performance.
- The additional informative assessment for the participants using 'En-Scores' for proficiency testing of real water samples considers the expanded measurement uncertainties of the participants results and the expanded uncertainty of the assigned value.
- In case of proficiency testing of real samples control testing can from time to time be subcontracted. This is also clearly stated in the report. When subcontracting occurs, it is placed with a competent subcontractor and the proficiency testing provider is responsible for this work.
- You will receive a final report with the results of all participating laboratories in aggregated and anonymised form and a certificate of participation.

Rules on confidentiality:

- The identity of the participants and all information transmitted by the participants to the proficiency testing provider are treated confidentially. All participants receive a randomly assigned laboratory code to anonymize all results in the report. The laboratory codes of the participants will only be made available after prior consent has been obtained via 'consent declarations', e.g. in the context of legally required participation in quality assurance programs.
- Participants taking part in the nationwide measuring program for monitoring the status of ground and surface waters in Austria (GZÜV) are informed within the framework of the GZÜV program that their laboratory code will be forwarded to the Federal Ministry of Agriculture and Forestry, Climate and Environmental Protection, Regions and Water Management (BMLUK) by

cooperation partners IFA-Tulln and Umweltbundesamt. As all results are shown by anonymized laboratory code in the report published in internet – confidentiality can thus be guaranteed.

- In course of the accreditation procedure of the national accreditation body (Akkreditierung Austria) data may be forwarded to Accreditation Austria as required by law. It is pointed out that the experts commissioned by Accreditation Austria for the assessment within the framework of accreditation to EN ISO 17043 must treat all information received as confidential. All auditors designated for internal audits must also sign the regulation on confidentiality before carrying out the audits.

Dealing with complaints/objections:

- All participants have the opportunity to **report any complaints or objections by e-mail to ringversuche@umweltbundesamt.at within 14 days after receiving the confirmation of participation** (containing information on assessment, on assigned values and criteria) **and after receiving the report**. Furthermore, questions, requests or suggestions by participants can be sent to ringversuche@umweltbundesamt.at.
- All complaints and objections received by the proficiency testing provider **will be handled according to our complaints management**. In the event of a complaint or objection, the staff of the proficiency testing team will contact the participant. The facts of the case are then examined internally and the participant is informed of the investigations carried out and the measures required. Complaints or objections are processed by experts from the proficiency testing team who were not involved in the matter in question. It is ensured that the complaint or objection does not result in any disadvantage to the complainant. The participant will be informed of the end of the processing of the complaint or objection.
- In case of justified complaints or objections, **the participants will be contacted by e-mail and informed about possible editorial or technical changes** including reference to a new edition (e.g. report edition 2).

Accredited Proficiency Testing Provider according to EN ISO/IEC 17043:2023

Within the cooperation between the Department of Agricultural Sciences of BOKU University, Campus IFA Tulln and the Umweltbundesamt since 2021 all described **proficiency tests for synthetic water samples** (IFA-Tulln: initial accreditation in May 2020) **and for real water samples** (Umweltbundesamt: initial accreditation in November 2020) are offered within the scope of accreditation.

If additional substances or parameters are included, these are initially offered outside the scope of accreditation and are marked accordingly in the programme or report.

For any further questions please do not hesitate to contact us:

ringversuche@umweltbundesamt.at

1 HOW TO PARTICIPATE?

Proficiency Testing Scheme for Water Analysis

Since 2013 within the cooperation between IFA-Tulln and the Umweltbundesamt we offer interlaboratory comparisons for real water samples (ground water, surface water, urban waste water and drinking water, partly spiked).

<https://www.umweltbundesamt.at/en/ic-wateranalysis>.

Interlaboratory comparisons for synthetic water samples are provided by IFA-Tulln, a department of the University of Natural Resources and Life Sciences, Vienna. The Umweltbundesamt organizes all real water sample proficiency tests.

Registration and billing of all Proficiency Tests for Water Analysis is handled by the cooperation partner IFA-Tulln:

<https://ifatesten.boku.ac.at/>

Shortly after ordering you will receive a confirmation of order by e-mail, containing all the relevant information (date of dispatch, approximate date of arrival of the samples). Once you have paid the participation fee for Proficiency Tests for Water Analysis, your registration will be completed and you will receive the samples as specified in our catalogue.

Proficiency Testing Scheme for Environmental Analysis

The Umweltbundesamt carries out Proficiency Testing Schemes yearly in a series of substances for in-stance waste, waste eluates, solid samples (e.g. soil) as well as air samples.

Registration for the Proficiency Testing Scheme for Environmental Analysis by:

<https://www.umweltbundesamt.at/en/en-prof-tests-matrices>

Shortly after transmitting the completed registration form, you will receive a confirmation of order by e-mail ringversuche@umweltbundesamt.at, containing all the relevant information. Once you have received our confirmation email your registration will be completed and you will receive the samples as specified in our catalogue.

Billing of all Proficiency Testing Schemes for Environmental Analysis is performed after publishing of the report by the Umweltbundesamt (Environment Agency Austria).

In this catalogue you can find all details and information for proficiency tests which are offered.

We are obliged to charge VAT and reverse charge is applicable.

The prices stated are exclusive of 20 % VAT and shipment costs.

2 LIST OF PROFICIENCY TESTS

Here is a list of all proficiency tests, which will be offered:

Proficiency Testing Scheme for Water Analysis		
Programme	Matrices	Page
Metals and Trace elements – M	water	6
Nutrients/Major ions – N	water	8
Herbicides/Pesticides (expanded scope; 50 substances each) – H	water	10
Pesticides in accordance with the Drinking Water Ordinance incl. optional extended scope pesticides and metabolites – PM	water	12
Polycyclic aromatic hydrocarbons (PAH) – P	water	15
Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners – AZ	water	16
Sum parameters: Hydrocarbon oil index and Phenol index – SP	water	17
<i>BTEX and MTBE – advance notice 2027 – B</i>	<i>water</i>	<i>18</i>
Volatile Halogenated Hydrocarbons (VHH) – C	water	19
Per- and polyfluoroalkyl substances (PFAS) – PF	water	21

Proficiency Testing Scheme for Environmental Analysis		
Programme	Matrices	Page
<i>Waste acc to landfill directive (total contents) – advance notice 2027 – AB</i>	<i>waste</i>	<i>23</i>
Waste acc. to landfill directive (eluate metals) – AB	waste (eluate)	24
Waste acc. to landfill directive (eluate ions) – AB	waste (eluate)	25
Chlorinated hydrocarbons (CHC) – CL	ambient air	26
BTEX & C5–C10 – BL	ambient air	27
Chlorinated hydrocarbons (CHC) and BTEX & C5–C10 – CBL	ambient air	28
<i>Per- and polyfluoroalkyl substances – advance notice 2027 – PFS</i>	<i>solid sample</i>	<i>29</i>
NEW: Per- and polyfluoroalkyl substances (eluate preparation & analysis) – PFL	solid sample for eluate preparation	30
Annex		
Minimum concentrations and performance criterion	water	31

For further information please have a look at our website

<https://www.umweltbundesamt.at/en/proficiency-testing>

3 PROFICIENCY TESTING SCHEME FOR WATER ANALYSIS

Description of Programme

No M180	Metals and trace elements
List of substances:	Al, As, Pb, Cd, Cr, Fe, Cu, Mn, Ni, Hg, Se, U, Zn
Matrix:	natural water
Samples:	2; 1 ground water, 1 surface water (partly fortified)
Sample dispatch:	03 February 2026
Closing date:	03 March 2026
Cost:	EUR 572,-

Technical Information

Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
<i>see minimum concentrations and performance criteria in the annex (page 31)</i>	250 ml and	1 and	plastic container	yes, with HNO ₃	yes
	100 ml (Hg)	1		yes, with HCl (Hg)	

Recommended period to start the sample treatment:

D₀ + 8

D₀ ... Day the samples are sent to all participants.

Additional proficiency tests (synthetic samples) performed by partner IFA-Tulln (registration <https://ifatesten.boku.ac.at/>) Cost: EUR 572,-; **M182 and M184** with additional substances EUR 593,-.

		Sample dispatch	Closing date
No M181	Metals and trace elements	16 March 2026	17 April 2026
No M182	Metals and trace elements (additionally E1: Ag, Ce, Co, Li, V, Be und Gd) Note: For round M182 (3 rd round 2026, metals – synthetic samples), in addition to the normal scope Silver, Cerium, Cobalt, Lithium, Vanadium, Beryllium and Gadolinium are added.	08 June 2026	03 July 2026
No M183	Metals and trace elements	07 September 2026	02 October 2026
No M184	Metals and trace elements (additionally E2: Ba, Sb, Sn, Mo, Sr, no Hg!) Note: For round M184 (5 th round 2026, metals – synthetic samples), in addition to the normal scope excluding mercury, the parameters Barium, Antimony, Tin, Molybdenum and Strontium are observed.	16 November 2026	11 December 2026

Description of Programme

No N180	Nutrients/Major ions
List of substances:	Total hardness, alkalinity $K_{S,4.3}$, electrical conductivity (25°C), HCO_3^- , Ca^{2+} , Mg^{2+} , Na^+ , K^+ , NO_3^- , NO_2^- , NH_4^+ , Cl^- , SO_4^{2-} , $o-PO_4^{3-}$, B, DOC, total-P (dissolved, as PO_4^{3-}); pH, total-N (N180 only)
Matrix:	natural water
Samples:	2; 1 ground water, 1 surface water (partly fortified)
Sample dispatch:	03 February 2026
Closing date:	03 March 2026
Cost:	EUR 572,-

Technical Information

Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
<i>see minimum concentrations and performance criteria in the annex (page 31)</i>	500 ml and	2 and	plastic container	no	yes
	250 ml (DOC)	1		yes, with HCl (DOC)	

Recommended period to start the sample treatment:

For DOC, NO_2^- , NH_4^+ , $o-PO_4^{3-}$ and pH we recommend analysis as soon as possible after receipt of the samples.

$D_0 + 8$

D₀ ... Day the samples are sent to all participants.

Additional proficiency tests (synthetic samples) performed by our partner IFA-Tulln (registration <https://ifatesten.boku.ac.at/>). Cost: EUR 572,-.

		Sample dispatch	Closing date
No N181	Nutrients/major ions (additionally total-Si (dissolved) and fluoride)	16 March 2026	17 April 2026
No N182	Nutrients/major ions (additionally KMnO ₄ -index (as O ₂) acc. to EN ISO 8467 (H5))	08 June 2026	03 July 2026
No N183	Nutrients/major ions (additionally easily liberatable cyanide acc. to DIN 38405-D13 (ISO 14403-2; ISO 6703-2), total-Si (dissolved) and fluoride)	07 September 2026	02 October 2026
No N184	Nutrients/major ions (additionally KMnO ₄ -index (as O ₂) acc. to EN ISO 8467 (H5))	16 November 2026	11 December 2026

Description of Programme

No H003 Herbicides/Pesticides (expanded scope, 50 substances)

List of substances: 2,4,5-Trichlorophenoxyacetic acid, 2,4-D, 2,6-Dichlorobenzamide, Alachlor, Alachlor-ESA, Alachlor-OA, Aminomethylphosphonic acid (AMPA), Atrazine, Atrazine-desethyl, Atrazine-desethyl-desisopropyl, Atrazine-desisopropyl, Bentazone, Chloridazon-desphenyl, Chlorothalonil Metabolites: R417888, R471811, R611965, R611968, SYN507900, SYN548580, SYN548581; Chlorothalonil-4-hydroxy, Clopyralid, Cyanazine, Dicamba, 2,4-DP (Dichlorprop), Dimethachlor Metabolites: Dimethachlor oxalamic acid (CGA 50266), Dimethachlor ethane sulfonic acid (CGA 354742), CGA 369873, CGA 373464 (free acid) - CAS-No. 1196157-87-5 Synonym: [(2,6-Dimethylphenyl)(2-sulfoacetyl)-amino]acetic acid sodium salt, CGA 373464 (acetic acid methyl ester) - IUPAC: [(2,6-dimethyl-phenyl)-methoxycarbonylmethyl-carbamoyl]-methanesulfonic acid sodium salt; Glufosinate, Glyphosate, Metaza-chlor, Metolachlor, S-Metolachlor Metabolites: CGA 368208, NOA 413173; Metribuzin, Glufosinate metabolite MPPA*; Nicosulfurone, Prometryn, Propazine, Sebuthylazine, Simazine, Terbutylazine, Terbutylazine-desethyl, Terbutylazin Metabolites: SYN 546009 (LM3)*, CGA 324007 (LM5)*, SYN 545666 (LM6)*; Terbutryn, Tritosulfuron

** additional substances, not accredited*

Matrix: natural water

Samples: 2; 1 ground water, 1 surface water

Sample dispatch: 24 March 2026

Closing date: 28 April 2026

Cost: EUR 825,-

Technical Information

Parameter to analyse	Bottle/sample			Stabilisation	Refrige-ration
	Volume	Number	Type		
<i>see minimum concentrations and performance criteria in the annex (page 32)</i>	300 ml or	2 or	aluminium container	no	yes
	1000 ml or	2 or			
	1000 ml and	4 and	and		
	1000 ml	1	plastic con- tainer (AMPA, Glufosinate, Glyphosate, MPPA*)		

**additional substances, not accredited.*

Recommended period to start the sample treatment:

D₀ + 8

D₀ ... Day the samples are sent to all participants.

Description of Programme

No H004 Herbicides/Pesticides (expanded scope, 50 substances)

List of substances: 2,6-Dichlorobenzamide, 3,5,6-Trichloro-2-pyridinol, Acetamiprid, Alachlor, Aldrin, Atrazine, Atrazine-desethyl, Atrazine-desethyl-desisopropyl, Atrazine-desisopropyl, Bromacil, Sum Chlordane, Chloridazon, Chloridazon-desphenyl, Chloridazon-methyl-desphenyl, Clothianidin, Cyanazine, Sum DDD, Sum DDE, Sum DDT, Dieldrin, Dimethachlor, Dimethenamid (Dimethenamid-P), Dinotefurane, Diuron, Sum Endosulfan, Endrin, Heptachlor, Hexazinone, Imidacloprid, Lindane, Mecoprop (MCP), Metazachlor oxanilic acid (Metazachlor-OA), Metazachlor ethane sulfonic acid (Metazachlor-ESA), Metolachlor, Metolachlor oxanilic acid (Metolachlor-OA), Metolachlor ethane sulfonic acid (Metolachlor-ESA), Metribuzin-Desamino, N,N-Dimethylsulfamide (DMS), Nitenpyram, Prometryn, Propazine, Quinmerac*, Sebuthylazine, Simazine, Terbuthylazine, Terbuthylazine-2-Hydroxy, Terbuthylazine-desethyl, Terbutryn, Thiacloprid, Thiamethoxam

* additional substance, not accredited

Matrix: natural water

Samples: 2; 1 ground water, 1 surface water

Sample dispatch: 27 October 2026

Closing date: 01 December 2026

Cost: EUR 825,-

Technical Information

Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
<i>see minimum concentrations and performance criteria in the annex (pages 34)</i>	300 ml	2	aluminium container	no	yes
	or	or			
	1000 ml	2			
	or	or			
	1000 ml	4			

Recommended period to start the sample treatment:

D₀ + 8

D₀ ... Day the samples are sent to all participants.

Description of Programme

No PM06 Pesticides in accordance with the Drinking Water Ordinance

incl. relevant and non-relevant metabolites

and option PM06-E Optional: extended scope pesticides and metabolites

List of substances: **Pesticides:** 2,4-D (2,4-Dichlorophenoxyacetic acid), 2,4-DP (Dichloroprop), Alachlor, Aldrin, Atrazine, Azoxystrobin, Bentazone, Bromacil, Chloridazon, Clopyralid, Clothianidin, Dicamba, Dieldrin, Dimethachlor, Dimethenamid-P, Diuron, Ethofumesate, Flufenacet, Glufosinate, Glyphosate, Heptachlor, Heptachlor-epoxide, Hexazinone, Imidacloprid, Iodosulfuron-methyl, Isoproturon, MCPA, MCPB, MCPP (Mecoprop), Mesosulfuron-methyl, Metalaxyl-M, Metamitron, Metazachlor, Metolachlor, Metribuzin, Metsulfuron-methyl, Nicosulfuron, Pethoxamid, Propazine, Propiconazole, Simazine, Terbutylazine, Thiacloprid, Thiamethoxam, Thifensulfuron-methyl, Tolyfluanid, Tribenuron-methyl, Triclopyr, Triflurosulfuronmethyl, Tritosulfuron

Relevant metabolites: 2-Amino-4-methoxy-6-methyl-1,3,5-triazine, 3,5,6-Trichloro-2-pyridinol, 6-Chloro-1,3,5-Triazine-2,4-Diamine (Atrazine-desethyl-desisopropyl), Atrazine-desethyl, Atrazine-desisopropyl, Dimethachlor Metabolite CGA 369873, Dimethachlor Metabolite CGA 373464 (acetic acid methyl ester) - IUPAC: [(2,6-dimethyl-phenyl)-methoxycarbonylmethyl-carbamoyl]-methanesulfonic acid sodium salt; Dimethachlor Metabolite CGA 373464 (free acid) - CAS-No. 1196157-87-5 Synonym: [(2,6-Dimethylphenyl)(2-sulfoacetyl)-amino]acetic acid sodium salt; Dimethachlor oxalamic acid (CGA 50266, Dimethachlor-OA), Dimethachlor ethane sulfonic acid (CGA 354742, Dimethachlor-ESA), Isoproturon-desmethyl, Propazine-2-hydroxy, Terbutylazine-2-hydroxy, Terbutylazine-2-hydroxy-desethyl, Terbutylazine-desethyl

Non-relevant metabolites: 2,6-Dichlorobenzamide, Alachlor-t-acid (Alachlor-OA), Alachlor-t-sulfonic acid (Alachlor-ESA), Aminomethyl-phosphonic acid (AMPA), Atrazine-2-hydroxy, Azoxystrobin-O-demethyl (CyPM), Chloridazon-desphenyl, Chloridazon-methyl-desphenyl, Chlorothalonil-sulphonic acid (R417888), 3-carbamyl-2,4,5-trichlorobenzoic acid (R611965), *Chlorothalonil metabolite R471811, Dimethenamid-P-acid (Dimethenamid-OA), Dimethenamid-P-sulfonic acid (Dimethenamid-ESA), Flufenacet oxanilic acid (Flufenacet-OA), Flufenacet sulfonic acid (Flufenacet-ESA), Metazachlor oxanilic acid (Metazachlor-OA), Metazachlor ethane sulfonic acid (Metazachlor-ESA), Metribuzin-Desamino, N,N-Dimethylsulfamide (DMS), s-Metolachlor Metabolite CGA 368208, s-Metolachlor Metabolite NOA 413173, s-Metolachlor oxanilic acid (Metolachlor-OA), s-Metolachlor ethanesulfonic acid (Metolachlor-ESA)

PM06-E: Optional extended scope pesticides and metabolites:

***Ethidimuron, *Quinmerac, *Bromoxynil, *Flazasulfuron, *Chlorothalonil metabolite SYN 507900, *Nicosulfuron metabolite UCSN, *Terbutylazine metabolite SYN 546009 (LM3), *Terbutylazine metabolite CGA 324007 (LM5), *Terbutylazine metabolite SYN 545666 (LM6), *Desamino-metamitron, *Metazachlor metabolite BH 479-9**

**additional substances, not accredited*

Description of Programme

No PM06 Pesticides in accordance with the Drinking Water Ordinance
incl. relevant and non-relevant metabolites

and option PM06-E Optional: extended scope pesticides and metabolites

Matrix: water

Samples: 2; drinking water (spiked)

Sample dispatch: 29 September 2026

Closing date: 03 November 2026

Cost: EUR 990,-

Optional: additional EUR 145,- (PM06-E extended scope)

Technical Information

Parameter to analyse	Bottle/sample			Stabilisation	Refrige-ration
	Volume	Number	Type		
All mentioned groups of substances at page 12: Pesticides Relevant metabolites Non-relevant metabolites Optional: PM06-E extended scope for pesticides and metabolites <i>see minimum concentrations and performance criteria in the annex (pages 35–39)</i>	1000 ml	2 or 4 and	aluminium container and	no	yes
		1 or 2	plastic con- tainer (AMPA, Glyphosate, Glufosinate)		

The proficiency test covers pesticides, relevant and non-relevant metabolites of the drinking water ordinance and is taking into account Codex chapter B1/drinking water.

Supplements to codex B1 are published by the Federal Ministry of Labour, Social Affairs, Health, Care and Consumer Protection based on the resolution of the commission to issue the Austrian Food Code. <https://www.lebensmittelbuch.at/lebensmittelbuch/b-1-trinkwasser/anhang-9-ueberwachung-von-pestiziden-gemaess-twv-und-nicht-relevanter-metaboliten-in-trinkwasser>

Pesticides and metabolites as stipulated in the drinking water ordinance are listed in tabular form in **Codex Chapter B1/drinking water, Annex 9** of the Austrian Food Code.

<https://www.lebensmittelbuch.at/lebensmittelbuch/b-1-trinkwasser>

Note: Each pesticide/metabolite is present in at least one sample (concentration: range ~1/4 up to 10-fold of parameter value/ action value for metabolites acc. to codex chapter B1/drinking water, Annex 9 of the Austrian Food Code).

Recommended period to start the sample treatment:

D₀ + 8

D₀ ... Day the samples are sent to all participants.

This proficiency test is offered every two years.

PM06-E: extended scope pesticides and metabolites:

By request of our customers, there is the option to order the extended scope for pesticides and metabolites in addition to PM06 (not accredited scope).

Please note that all results of the participating laboratories will be evaluated and presented in the report in anonymous form. However, if less than six measurement results are submitted for a parameter, the statistical evaluation is only possible to a limited extent. When only a few laboratories submit values for new parameters, no assigned value can be defined. In this case, we recommend comparing your results with the results of the control laboratory and the valid results provided by the participating laboratories.

Description of Programme

No P27	Polycyclic aromatic hydrocarbons (PAH)
List of substances:	Naphthalene, Acenaphthene, Acenaphthylene, Fluorene, Anthracene, Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Dibenzo(ah)anthracene, Benzo(ghi)perylene, Indeno(1,2,3-cd)pyrene
Matrix:	natural water
Samples:	2; 1 drinking water (spiked), 1 ground water
Sample dispatch:	17 February 2026
Closing date:	17 March 2026
Cost:	EUR 635,-

Technical Information

Parameter to analyse	Bottle/sample			Stabilisation	Refrige-ration
	Volume	Number	Type		
<i>see minimum concentrations and performance criteria in the annex (page 39)</i>	1000 ml	2	brown glass	no	yes

Recommended period to start the sample treatment: D₀ + 2

D₀ ... Day the samples are sent to all participants.

Description of Programme**No AZ13** **Pharmaceuticals, industrial chemicals and artificial sweeteners**

List of substances: 4-Acetylaminoantipyrine, Amidotrizoic acid, Atenolol, Bisoprolol, Carbamazepine, Diazepam, Diclofenac, 10,11-Dihydro-10,11-Dihydroxycarbamazepine, 4-Formylaminoantipyrine, Ibuprofen, Iopamidol, Metoprolol, Sotalol, Sulfamethoxazole, Benzotriazole, Acesulfame, Cyclamate, Saccharin, Sucralose

Matrix: natural water

Samples: 2; 1 municipal waste water, 1 surface water

Sample dispatch: 10 March 2026

Closing date: 14 April 2026

Cost: EUR 625,-

Technical Information

Parameter to analyse	Bottle/sample			Stabilisation	Refrige-ration
	Volume	Num-ber	Type		
<i>see minimum concentrations and performance criteria in the annex (page 39)</i>	1000 ml	2	aluminium container	yes (approx. 10 mg sodium azide)	yes

Recommended period to start the sample treatment:D₀ + 8*D₀ ... Day the samples are sent to all participants.*

Description of Programme

No SP11	Sum parameters
List of sum parameters:	Hydrocarbon oil index and phenol index Optional: only hydrocarbon oil index possible
Matrix:	natural water
Samples:	2; 1 drinking water (spiked), 1 ground water
Sample dispatch:	05 May 2026
Closing date:	02 June 2026
Cost:	EUR 595,- (for hydrocarbon oil index and phenol index) EUR 362,- (for hydrocarbon oil index only)

Technical Information

Parameter to analyse	Bottle/sample			Stabilisation	Refrige-ration
	Volume	Number	Type		
Hydrocarbon oil index	1000 ml	2	glass	no	yes
Phenol index	1000 ml	2	glass	yes, pH < 4 with H ₃ PO ₄ and CuSO ₄ x 5 H ₂ O 1 g/l	yes
<i>see minimum concentrations and performance criteria in the annex (page 40)</i>					

Recommended period to start the sample treatment: D₀ + 2

D₀ ... Day the samples are sent to all participants.

For **SP11**, you can choose proficiency test for hydrocarbon oil index **and** phenol index or hydrocarbon oil index only. The selection of phenol index only is not possible. The evaluation data of both sum parameters are presented in a joint report.

Description of Programme

Advance notice 2027: BTEX/MTBE

No B15

List of substances:	BTEX: Benzene, Toluene, Ethylbenzene, o-Xylene, sum of m-Xylene and p-Xylene; Methyl-tertiary-butylether (MTBE)
Matrix:	natural water
Samples:	2; 1 surface water, 1 ground water (partly fortified)
Sample dispatch:	Note: The next round for BTEX/MTBE in real water samples will take place in 2027.
Closing date:	4 weeks after sample dispatch
Cost:	

Technical Information

Parameter to analyse	Bottle/sample			Stabilisation	Refrige-ration
	Volume	Number	Type		
<i>see minimum concentrations and performance criteria in the annex (page 41)</i>	600 ml	1	aluminium container	no	yes

Recommended period to start the sample treatment: D₀ + 8

D₀ ... Day the samples are sent to all participants.

The proficiency tests VHH and BTEX&MTBE in real water samples will be offered in an alternating mode. A proficiency test for BTEX&MTBE for real water samples will take place in 2027.

Additional proficiency tests (synthetic samples) performed by the cooperation partner IFA-Tulln (registration <https://ifatesten.boku.ac.at/>). The single price for BTEX/MTBE is EUR 588,- or EUR 630,- for VHH. The price for VHH and BTEX/MTBE is EUR 1 118,-.

No		Sample dispatch	Closing date
B-CB13	BTEX/MTBE BTEX: Benzene, Toluene, Ethylbenzene, o-Xylene, sum of m-Xylene and p-Xylene; Methyl tertiary-butyl ether (MTBE)	19 October 2026	20 November 2026

In round **CB13** the extent of participation is selectable (BTEX/MTBE, VHH or both). Evaluation of the round will be carried out in a joint report.

Description of Programme

No C75

Volatile Halogenated Hydrocarbons (VHH)

List of substances:	VHH: Bromodichloromethane, Dibromochloromethane, 1,2-Dichloroethane, 1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Dichloromethane, Tetrachloroethene, Tetrachloromethane, Tribromomethane, 1,1,1-Trichloroethane, Trichloroethene, Trichloromethane
Matrix:	natural water
Samples:	2; 1 surface water, 1 ground water (partly fortified)
Sample dispatch:	21 April 2026
Closing date:	19 May 2026
Cost:	EUR 630,-

Technical Information

Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
<i>see minimum concentrations and performance criteria in the annex (page 40)</i>	600 ml	1	aluminium container	no	yes

Recommended period to start the sample treatment:

D₀ + 8

D₀ ... Day the samples are sent to all participants.

Additional proficiency tests (synthetic samples) will be performed by the cooperation partner IFA-Tulln (registration <https://ifatesten.boku.ac.at/>). The single price is EUR 630,- for VHH or EUR 588,- for BTEX/MTBE. The price for VHH and BTEX/MTBE is EUR 1 118,-.

		Sample dispatch	Closing date
No C74	Volatile halogenated hydrocarbons (VHH) VHH: Bromodichloromethane, Dibromochloromethane, 1,2-Dichloroethane, 1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Dichloromethane, Tetrachloroethene, Tetrachloromethane, Tribromomethane, 1,1,1-Trichloroethane, Trichloroethene, Trichloromethane	23 February 2026	20 March 2026
No C-CB13	Volatile halogenated hydrocarbons (VHH) VHH: Bromodichloromethane, Dibromochloromethane, 1,2-Dichloroethane, 1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Dichloromethane, Tetrachloroethene, Tetrachloromethane, Tribromomethane, 1,1,1-Trichloroethane, Trichloroethene, Trichloromethane	19 October 2026	20 November 2026
No B-CB13	BTEX/MTBE BTEX: Benzene, Toluene, Ethylbenzene, o-Xylene, sum of m-Xylene and p-Xylene; Methyl tertiary-butyl ether (MTBE)	19 October 2026	20 November 2026

In round **CB13** the extent of participation is selectable (VHH, BTEX/MTBE or both). Evaluation of the round will be carried out in a joint report.

Description of Programme

No PF05	Per- and polyfluoroalkyl substances *(PFAS)
List of substances:	<p>*Perfluorobutanoic acid (PFBA) – PF4C; *Perfluoropentanoic acid (PFPeA) – PF5C; *Perfluorohexanoic acid (PFHxA) – PF6C; *Perfluoroheptanoic acid (PFHpA) – PF7C; *Perfluorooctanoic acid (PFOA) – PF8C; *Perfluorononanoic acid (PFNA) – PF9C; *Perfluorodecanoic acid (PFDA) – PF10C; *Perfluoroundecanoic acid (PFUnDA) – PF11C; *Perfluorododecanoic acid (PFDoDA) – PF12C; *Perfluorotridecanoic acid (PFTTrDA) – PF13C; *Perfluorotetradecanoic acid (PFTeDA) – PF14C; *Perfluorobutane sulfonic acid (PFBS) – PF4S; *Perfluoropentane sulfonic acid (PFPeS) – PF5S; *Perfluorohexane sulfonic acid (PFHxS) – PF6S; *Perfluoroheptane sulfonic acid (PFHpS) – PF7S; *Perfluorooctane sulfonic acid (PFOS) – PF8S; *Perfluorononane sulfonic acid (PFNS) – PF9S; *Perfluorodecane sulfonic acid (PFDS) – PF10S; *Perfluoroundecane sulfonic acid (PFUnDS) – PF11S; *Perfluorododecane sulfonic acid (PFDoS) – PF12S; *Perfluorotridecane sulfonic acid (PFTTrDS) – PF13S; *N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA); *4:2 Fluorotelomer sulfonate (4:2 FTS); *6:2 Fluorotelomer sulfonate (6:2 FTS); *8:2 Fluorotelomer sulfonate (8:2 FTS); *Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA); *2,3,3-Tetrafluoro-2-(heptafluoro-propoxy)propanoic acid (GenX); *9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B); since 2023: *Perfluorohexane sulfonic acid (PFHxS) as sum of branched PFHxS (br-PFHxS) plus the linear isomer (n-PFHxS) (Total PFHxS); *linear Perfluorohexane sulfonic acid (n-PFHxS); *branched Perfluorohexane sulfonic acid isomers (br-PFHxS (sum)); *Perfluorooctane sulfonic acid (PFOS) as sum of branched PFOS (br-PFOS) plus the linear isomer (n-PFOS) (Total PFOS); *linear Perfluorooctane sulfonic acid (n-PFOS); *branched Perfluorooctane sulfonic acid isomers PFOS (br-PFOS (sum))</p> <p><i>* not accredited</i></p>
Matrix:	natural water
Samples:	2; 1 drinking water, 1 ground water (partly fortified)
Sample dispatch:	20 October 2026
Closing date:	17 November 2026
Cost:	EUR 819,-

Technical Information

Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
<p><i>see minimum concentrations and performance criteria in the annex (page 41)</i></p> <p>PFAS in aqueous phase (dissolved, no addition of methanol within vessel)</p>	1000 ml	1	HDPE	no	yes
total concentration of adsorbed and dissolved PFAS (addition of methanol; EN 17892:2024)	50 ml	2	100 ml HDPE	no	yes

Recommended period to start the sample treatment:

D₀ + 8

D₀ ... Day the samples are sent to all participants.

The proficiency test for PFAS in real water samples (drinking water and ground water) is offered since 2022 (*not accredited according to EN ISO/IEC 17043).

Registration and ordering of PF05 is possible via <https://ifatesten.boku.ac.at/>.

4 PROFICIENCY TESTING SCHEME ENVIRONMENTAL ANALYSIS

Description of Programme

Advance notice 2027: Waste acc. to landfill directive (Austria) (total contents)

No AB19

List of substances:	Total content in solid sample: Sb, As, Ba, Pb, Cd, Cr, Co, Cu, Mo, Ni, Hg, Se, Ag, V, Zn, Sn, TOC, hydrocarbon oil index, PAH (sum of 16 polycyclic aromatic hydrocarbons acc. to EPA), Benzo(a)pyrene, dry mass, loss of ignition (550°C); optional: TOC according to ÖNORM L1080
Matrix:	waste
Samples:	1 homogenized solid sample
Sample dispatch:	Note: The next round for total contents sample will be organized in 2027
Closing date:	4 weeks after sample dispatch
Cost excl. VAT:	

Technical Information

Parameter to analyse	Vessel/sample			Stabilisation	Refrige-ration
	Volume	Number	Type		
Total content in solid sample: Sb, As, Ba, Pb, Cd, Cr, Co, Cu, Mo, Ni, Hg, Se, Ag, V, Zn, Sn, TOC, hydrocarbon oil index, sum of PAHs (EPA), Benzo(a)pyrene; dry mass, loss of ignition (550°C); optional: TOC_ON L1080	approx. 0.3 kg	1	plastic container	no	no

Recommended period to start the sample treatment:

D₀ + 8

D₀ ... Day the samples are sent to all participants.

Description of Programme

No AB17	Waste acc. to landfill directive (Austria) (eluate metals only)
List of substances:	In eluate: Al, Sb, As, Ba, Pb, B, Cd, Cr, Co, Fe, Cu, Mo, Ni, Hg, Se, Ag, V, Zn, Sn
Matrix:	waste
Samples:	1 eluate sample
Sample dispatch:	01 September 2026
Closing date:	29 September 2026
Cost excl. VAT:	EUR 630,-

Technical Information

Parameter to analyse	Bottle/sample			Stabilisation	Refrige-ration
	Volume	Num-ber	Type		
In eluate: Al, Sb, As, Ba, Pb, B, Cd, Cr, Co, Fe, Cu, Mo, Ni, Hg, Se, Ag, V, Zn, Sn	100 ml and	1 and	plastic container	yes, with HNO ₃ and	yes
	100 ml	1		yes, with HCl (Hg)	

Recommended period to start the sample treatment: D₀ + 8

D₀ ... Day the samples are sent to all participants.

Description of Programme

No AB18	Waste acc. to landfill directive (Austria) (eluate ions only)
List of substances:	In eluate: pH, electrical conductivity, evaporation residue, NH_4^+ (as N), Cl^- , F^- , NO_3^- (as N), NO_2^- (as N), PO_4^{3-} (as P), SO_4^{2-} , TOC (as C)
Matrix:	waste
Samples:	1 eluate sample
Sample dispatch:	01 September 2026
Closing date:	29 September 2026
Cost excl. VAT:	EUR 630,-

Technical Information

Parameter to analyse	Bottle/sample			Stabilisation	Refrige-ration
	Volume	Number	Type		
In eluate: pH, electrical conductivity, evaporation residue, NH_4^+ (as N), Cl^- , F^- , NO_3^- (as N), NO_2^- (as N), PO_4^{3-} (as P), SO_4^{2-} , TOC (as C)	500 ml	1	plastic container	no	yes
	and 100 ml	and 1		yes, with HCl (TOC)	

Recommended period to start the sample treatment: $D_0 + 8$

D₀ ... Day the samples are sent to all participants.

Description of Programme

No CL13	Chlorinated hydrocarbons (CHC)
List of substances:	Trichloromethane, 1,1,1-Trichloroethane, Trichloroethene, Tetrachloro-methane, Tetrachloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene
Matrix:	ambient air
Samples:	1 (+ 1 unloaded tube)
Sample dispatch:	19 May 2026
Closing date:	16 June 2026
Cost excl. VAT:	EUR 630,-

Technical Information

Parameter to analyse	Tube/sample			Stabilisation	Refrige-ration
	Volume	Number	Type		
Trichloromethane, 1,1,1-Trichloroethane, Trichloroethene, Tetrachloro-methane, Tetrachloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene	-	1 (and 1 unloaded tube)	activated charcoal tube (Orbo 32 S, Supelco)	no	no

Recommended period to start the sample treatment: D₀ + 8

D₀ ... Day the samples are sent to all participants.

Description of Programme

No BL14	BTEX & C5-C10
List of substances:	BTEX: Benzene, Toluene, Ethylbenzene, sum of m-Xylene and p-Xylene, o-Xylene; C5-C10: n-Pentane, n-Hexane, n-Heptane, n-Octane, n-Nonane, n-Decane
Matrix:	ambient air
Samples:	1 (+ 1 unloaded tube)
Sample dispatch:	19 May 2026
Closing date:	16 June 2026
Cost excl. VAT:	EUR 630,-

Technical Information

Parameter to analyse	Tube/sample			Stabilisation	Refrige-ration
	Volume	Number	Type		
BTEX: Benzene, Toluene, Ethylbenzene, sum of m-Xylene and p-Xylene, o-Xylene; C5-C10: n-Pentane, n-Hexane, n-Heptane, n-Octane, n-Nonane, n-Decane	-	1 (and 1 unloaded tube)	activated charcoal tube (Orbo 32 S, Supelco)	no	no

Recommended period to start the sample treatment: D₀ + 8

D₀ ... Day the samples are sent to all participants.

Description of Programme

No CBL12	Chlorinated hydrocarbons (CHC) and BTEX & C5-C10
List of substances:	<p>CHC: Trichloromethane, 1,1,1-Trichloroethane, Trichloroethene, Tetrachloromethane, Tetrachloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene;</p> <p>BTEX: Benzene, Toluene, Ethylbenzene, sum of m-Xylene and p-Xylene, o-Xylene;</p> <p>C5-C10: n-Pentane, n-Hexane, n-Heptane, n-Octane, n-Nonane, n-Decane</p>
Matrix:	ambient air
Samples:	2 (+ 1 unloaded tube each)
Sample dispatch:	19 May 2026
Closing date:	16 June 2026
Cost excl. VAT:	EUR 1 110,-

Technical Information

Parameter to analyse	Tube/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
<p>CHC: Trichloromethane, 1,1,1-Trichloroethane, Trichloroethene, Tetrachloromethane, Tetrachloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene;</p> <p>BTEX: Benzene, Toluene, Ethylbenzene, sum of m-xylene and p-xylene, o-xylene;</p> <p>C5-C10: n-Pentane, n-Hexane, n-Heptane, n-Octane, n-Nonane, n-Decane</p>	-	1 (and 1 unloaded tube)	activated charcoal tube (Orbo 32 S, Supelco)	no	no

Recommended period to start the sample treatment: D₀ + 8

D₀ ... Day the samples are sent to all participants.

Description of Programme

**Advance notice 2027: Per- and polyfluoroalkyl substances in solid samples
No PFS02**

List of substances:	PF4C–PF13C: PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFNA, PFDA, PFUnDA, PFDoDA, PFTrDA; PF4S–PF13S: PFBS, PFPeS, PFHxS, PFHpS, PFOS, PFNS, PFDS, PFUnDS, PFDoS, PFTrDS, Sum PFAS (calculated sum of 20 parameters PF4C–PF13C and PF4S–PF13S), dry mass
Matrix:	homogenized solid sample (e.g. soil, solid waste sample)
Samples:	2
Sample dispatch:	Note: The next round for PFAS (total contents) will be organized in 2027
Closing date:	4 weeks after sample dispatch
Cost excl. VAT:	

Technical Information

Parameter to analyse	Vessel/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
PF4C–PF13C, PF4S–PF13S, dry mass	approx. 0.1 kg	1	plastic container	no	no

Recommended period to start the sample treatment: D₀ + 8

D₀ ... Day the samples are sent to all participants.

Description of Programme

No PFL01	NEW: Per- and polyfluoroalkyl substances – eluate preparation and analysis
List of substances:	Dry mass; in eluate: PF4C–PF13C: PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFNA, PFDA, PFUnDA, PFDoDA, PFTrDA; PF4S–PF13S: PFBS, PFPeS, PFHxS, PFHpS, PFOS, PFNS, PFDS, PFUnDS, PFDoS, PFTrDS; Sum PFAS (calculated sum of 20 parameters PF4C–PF13C and PF4S–PF13S)
Matrix:	homogenized solid sample (e.g. soil, sewage sludge/compost or solid waste); an aqueous eluate (L/S=10 l/kg dm and L/S=2 l/kg dm) must be prepared and analyzed for each sample by participants
Samples:	2
Sample dispatch:	15 September 2026
Closing date:	13 October 2026
Cost excl. VAT:	EUR 820,- (introductory price)

Technical Information

Parameter to analyse	Vessel/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
PF4C–PF13C, PF4S–PF13S	approx. 0.7 kg	1	plastic container	no	no

Recommended period to start the sample treatment: D₀ + 2

D₀ ... Day the samples are sent to all participants.

Electronic registration

Proficiency Testing Scheme for Water Analysis:

<https://ifatesten.boku.ac.at/>

Proficiency Testing Scheme for Environmental Analysis:

<https://www.umweltbundesamt.at/en/proficiency-testing>

5 ANNEX

Minimum concentrations and performance criterion

The concentrations are at levels typical for natural water samples (ground water, surface water). The pesticides, relevant and non-relevant metabolites of the drinking water ordinance are in a concentration range from $\sim\frac{1}{4}$ up to 10-fold of the parameter or action value according to Codex chapter B1/drinking water <https://www.lebensmittelbuch.at/lebensmittelbuch/b-1-trinkwasser>.

The lower concentration limits are given in the tables below (quantification is required at least from these concentrations). All data obtained during the proficiency testing round are evaluated and presented in the report.

The criterion used to evaluate the participants' performance is the reproducibility standard deviation calculated from previous rounds of proficiency testing with real water samples (more than 6 rounds, since 2013, see tables below). As an alternative criterion, the reproducibility standard deviation vR is calculated from the participants' results after removal of outliers in the current round.

Please find additional information on synthetic water samples at our partner IFA-Tulln website (www.ifatest.eu).

Metals and Trace elements M			
Parameter	Unit	Lower limit	Criterion
Aluminium	$\mu\text{g/l}$	10	10 %
Arsenic	$\mu\text{g/l}$	0.5	13 %
Cadmium	$\mu\text{g/l}$	0.01	10 %
Chromium	$\mu\text{g/l}$	0.15	8.5 %
Copper	$\mu\text{g/l}$	1	9 %
Iron	$\mu\text{g/l}$	10	11 %
Lead	$\mu\text{g/l}$	0.1	10 %
Manganese	$\mu\text{g/l}$	1	7.2 %
Mercury	$\mu\text{g/l}$	0.1	14 %
Nickel	$\mu\text{g/l}$	0.5	12 %
Selenium	$\mu\text{g/l}$	0.3	12 %
Uranium	$\mu\text{g/l}$	0.5	6.6 %
Zinc	$\mu\text{g/l}$	5	9 %

Nutrients and Major ions N			
Parameter	Unit	Lower limit	Criterion
Alkalinity $K_{S4.3}$	mmol/l	0.4	2.0 %
Ammonium (as NH_4^+)	mg/l	0.01	12 %
Boron	mg/l	0.015	11 %

Nutrients and Major ions N			
Parameter	Unit	Lower limit	Criterion
Calcium	mg/l	10	3.1 %
Chloride	mg/l	1	4.0 %
DOC dissolved organic carbon (as C)	mg/l	0.5	10 %
Electrical conductivity (25 °C)	µS/cm	100	1.3 %
Hydrogen carbonate	mg/l	20	2.0 %
K (Potassium)	mg/l	1	5.2 %
Mg (Magnesium)	mg/l	1	4.0 %
Na (Sodium)	mg/l	1	3.4 %
Nitrate (as NO ₃ ⁻)	mg/l	1	5.0 %
Nitrite (as NO ₂ ⁻)	mg/l	0.01	5.3 %
Ortho-Phosphate (as PO ₄ ³⁻)	mg/l	0.02	9.0 %
pH	-	5	2.0 %
Sulfate SO ₄ ²⁻	mg/l	1	3.3 %
Total hardness	mmol/l	0.02	3.0 %
Total N (total Nitrogen)	mg/l	0.5	8.3 %
Total P (dissolved as PO ₄ ³⁻)	mg/l	0.02	7.5 %

Herbicides/Pesticides – H003			
Parameter	Unit	Lower limit	Criterion
2,4,5-Trichlorophenoxyacetic acid	µg/l	0.05	18 %
2,4-D	µg/l	0.05	14 %
2,6-Dichlorobenzamide	µg/l	0.03	15 %
Alachlor	µg/l	0.03	12 %
Alachlor-ESA	µg/l	0.05	13 %
Alachlor-OA	µg/l	0.05	15 %
Aminomethylphosphonic acid (AMPA)	µg/l	0.06	13 %
Atrazine	µg/l	0.03	11 %
Atrazine-desethyl	µg/l	0.05	12 %
Atrazine-desethyl-desisopropyl	µg/l	0.05	31 %
Atrazine-desisopropyl	µg/l	0.05	14 %
Bentazone	µg/l	0.03	15 %
Chloridazon-desphenyl	µg/l	0.05	11 %
Chlorothalonil Metabolite R417888 (Chlorothalonil-ESA)	µg/l	0.05	20 %
Chlorothalonil Metabolite R471811	µg/l	0.07	15 %
Chlorothalonil Metabolite R611965	µg/l	0.03	15 %

Herbicides/Pesticides – H003

Parameter	Unit	Lower limit	Criterion
Chlorothalonil Metabolite R611968	µg/l	0.03	vR
Chlorothalonil Metabolite SYN507900	µg/l	0.03	vR
Chlorothalonil Metabolite SYN548580	µg/l	0.03	vR
Chlorothalonil Metabolite SYN548581	µg/l	0.03	vR
Chlorothalonil-4-hydroxy	µg/l	0.03	vR
Clopyralid	µg/l	0.05	20 %
Cyanazine	µg/l	0.03	14 %
Dicamba	µg/l	0.05	20 %
2,4-DP (Dichlorprop)	µg/l	0.05	12 %
Dimethachlor oxalamic acid (CGA 50266)	µg/l	0.025	20 %
Dimethachlor ethane sulfonic acid (CGA 354742)	µg/l	0.025	20 %
Dimethachlor Metabolite CGA 369873	µg/l	0.03	20 %
Dimethachlor Metabolite CGA 373464 (free acid)	µg/l	0.025	vR
Dimethachlor Metabolite CGA 373464 (acetic acid methyl ester)	µg/l	0.025	vR
Dimethachlor Metabolite	µg/l	0.06	34 %
Glyphosate	µg/l	0.06	20 %
Metazachlor	µg/l	0.03	12 %
Metolachlor	µg/l	0.03	15 %
S-Metolachlor Metabolite CGA 368208	µg/l	0.075	vR
S-Metolachlor Metabolite NOA 413173	µg/l	0.075	vR
Metribuzin	µg/l	0.025	vR
*Glufosinate metabolite MPPA	µg/l	0.10	vR
Nicosulfurone	µg/l	0.05	25 %
Prometryn	µg/l	0.03	13 %
Propazine	µg/l	0.03	13 %
Sebuthylazine	µg/l	0.03	9.3 %
Simazine	µg/l	0.03	11 %
Terbuthylazine	µg/l	0.03	11 %
Terbuthylazine-desethyl	µg/l	0.05	11 %
*Terbuthylazin Metabolite SYN 546009 (LM3)	µg/l	0.025	vR
*Terbuthylazin Metabolite CGA 324007 (LM5)	µg/l	0.025	vR
*Terbuthylazin Metabolite SYN 545666 (LM6)	µg/l	0.025	vR
Terbutryn	µg/l	0.03	10 %
Tritosulfuron	µg/l	0.025	vR

*additional substances, not accredited

Herbicides/Pesticides – H004			
Parameter	Unit	Lower limit	Criterion
2,6-Dichlorobenzamide	µg/l	0.03	15 %
3,5,6-Trichloro-2-pyridinol	µg/l	0.025	vR
Acetamiprid	µg/l	0.03	10 %
Alachlor	µg/l	0.03	12 %
Aldrin	µg/l	0.02	30 %
Atrazine	µg/l	0.03	11 %
Atrazine-desethyl	µg/l	0.05	12 %
Atrazine-desethyl-desisopropyl	µg/l	0.05	31 %
Atrazine-desisopropyl	µg/l	0.05	14 %
Bromacil	µg/l	0.03	14 %
Sum Chlordane	µg/l	0.02	25 %
Chloridazon	µg/l	0.03	13 %
Chloridazon-desphenyl	µg/l	0.05	11 %
Chloridazon-methyl-desphenyl	µg/l	0.03	13 %
Clothianidin	µg/l	0.03	11 %
Cyanazine	µg/l	0.03	14 %
Sum DDD	µg/l	0.02	30 %
Sum DDE	µg/l	0.02	25 %
Sum DDT	µg/l	0.02	39 %
Dieldrin	µg/l	0.02	20 %
Dimethachlor	µg/l	0.025	vR
Dimethenamid (Dimethenamid-P)	µg/l	0.03	10 %
Dinotefurane	µg/l	0.05	vR
Diuron	µg/l	0.03	13 %
Sum Endosulfan	µg/l	0.02	35 %
Endrin	µg/l	0.02	18 %
Heptachlor	µg/l	0.02	40 %
Hexazinone	µg/l	0.025	13 %
Imidacloprid	µg/l	0.03	15 %
Lindane	µg/l	0.01	20 %
Mecoprop (MCP)	µg/l	0.05	13 %
Metazachlor oxanilic acid (Metazachlor-OA)	µg/l	0.05	21 %
Metazachlor ethane sulfonic acid (Metazachlor-ESA)	µg/l	0.05	19 %
Metolachlor	µg/l	0.03	15 %
Metolachlor oxanilic acid (Metolachlor-OA)	µg/l	0.05	14 %
Metolachlor ethane sulfonic acid (Metolachlor-ESA)	µg/l	0.05	18 %
Metribuzin-Desamino	µg/l	0.075	vR

Herbicides/Pesticides – H004

Parameter	Unit	Lower limit	Criterion
N,N-Dimethylsulfamide (DMS)	µg/l	0.05	15 %
Nitenpyram	µg/l	0.05	vR
Prometryn	µg/l	0.03	13 %
Propazine	µg/l	0.03	13 %
*Quinmerac	µg/l	0.025	vR
Sebuthylazine	µg/l	0.03	9.3 %
Simazine	µg/l	0.03	11 %
Terbuthylazine	µg/l	0.03	11 %
Terbuthylazine-2-Hydroxy	µg/l	0.025	18 %
Terbuthylazine-desethyl	µg/l	0.05	11 %
Terbutryn	µg/l	0.03	10 %
Thiacloprid	µg/l	0.05	14 %
Thiamethoxam	µg/l	0.05	17 %

* additional substance, not accredited

Pesticides in accordance with the Drinking Water Ordinance PM**Pesticides**

Parameter	Unit	Lower limit	Criterion
2,4-D (2,4-Dichlorophenoxyaceticacid)	µg/l	0.025	14 %
2,4-DP (Dichlorprop)	µg/l	0.025	12 %
Alachlor	µg/l	0.025	12 %
Aldrin	µg/l	0.0075	30 %
Atrazine	µg/l	0.025	11 %
Azoxystrobin	µg/l	0.025	15 %
Bentazone	µg/l	0.025	15 %
Bromacil	µg/l	0.025	14 %
Chloridazon	µg/l	0.025	13 %
Clopyralid	µg/l	0.025	20 %
Clothianidin	µg/l	0.025	11 %
Dicamba	µg/l	0.025	20 %
Dieldrin	µg/l	0.0075	20 %
Dimethachlor	µg/l	0.025	vR
Dimethenamid-P	µg/l	0.025	10 %
Diuron	µg/l	0.025	13 %
Ethofumesat	µg/l	0.025	vR
Flufenacet	µg/l	0.025	vR

Pesticides in accordance with the Drinking Water Ordinance PM

Pesticides				
Parameter	Unit	Lower limit	Criterion	
Glufosinate	µg/l	0.025	34 %	
Glyphosate	µg/l	0.025	20 %	
Heptachlor	µg/l	0.0075	40 %	
Heptachlorepoxyde	µg/l	0.0075	vR	
Hexazinone	µg/l	0.025	13 %	
Imidacloprid	µg/l	0.025	15 %	
Iodosulfuron-methyl	µg/l	0.025	13 %	
Isoproturon	µg/l	0.025	vR	
MCPA	µg/l	0.025	15 %	
MCPB	µg/l	0.025	13 %	
MCPP (Mecoprop)	µg/l	0.025	13 %	
Mesosulfuron-methyl	µg/l	0.025	vR	
Metalaxyl-M	µg/l	0.025	10 %	
Metamitron	µg/l	0.025	13 %	
Metazachlor	µg/l	0.025	12 %	
Metolachlor	µg/l	0.025	15 %	
Metribuzin	µg/l	0.025	vR	
Metsulfuron-methyl	µg/l	0.025	13 %	
Nicosulfuron	µg/l	0.025	25 %	
Pethoxamid	µg/l	0.025	13 %	
Propazine	µg/l	0.025	13 %	
Propiconazole	µg/l	0.025	11 %	
Simazine	µg/l	0.025	11 %	
Terbutylazine	µg/l	0.025	11 %	
Thiacloprid	µg/l	0.025	14 %	
Thiamethoxam	µg/l	0.025	17 %	
Thifensulfuron-methyl	µg/l	0.025	13 %	
Tolylfluanid	µg/l	0.025	vR	
Tribenuron-methyl	µg/l	0.025	vR	
Triclopyr	µg/l	0.025	13 %	
Triflursulfuron-methyl	µg/l	0.025	vR	
Tritosulfuron	µg/l	0.025	vR	

Pesticides in accordance with the Drinking Water Ordinance PM**Relevant metabolites**

Parameter	Unit	Lower limit	Criterion
2-Amino-4-Methoxy-6-Methyl-1,3,5-Triazine	µg/l	0.025	vR
3,5,6-Trichloro-2-Pyridinol	µg/l	0.025	vR
6-Chloro-1,3,5-Triazine-2,4-Diamine (Atrazine-Desethyl-Desisopropyl)	µg/l	0.025	31 %
Atrazine-Desethyl	µg/l	0.025	12 %
Atrazine-Desisopropyl	µg/l	0.025	14 %
Dimethachlor ethane sulfonic acid (CGA 354742, Dimethachlor-ESA)	µg/l	0.025	20 %
Dimethachlor oxalamic acid (CGA 50266, Dimethachlor-OA)	µg/l	0.025	20 %
Dimethachlor Metabolite – CGA 373464 (free acid)	µg/l	0.025	vR
Dimethachlor Metabolite – CGA 373464 (acetic acid methyl ester)	µg/l	0.025	vR
Dimethachlor Metabolite – CGA 369873	µg/l	0.025	20 %
Isoproturon-Desmethyl	µg/l	0.025	13 %
Propazine-2-Hydroxy	µg/l	0.025	vR
Terbuthylazine-Desethyl	µg/l	0.025	11 %
Terbuthylazine-2-Hydroxy	µg/l	0.025	18 %
Terbuthylazine-2-Hydroxy-Desethyl	µg/l	0.025	18 %

Pesticides in accordance with the Drinking Water Ordinance PM**Non-relevant metabolites**

Parameter	Unit	Lower limit	Criterion
2,6-Dichlorobenzamide	µg/l	0.75	15 %
Alachlor-t-acid (Alachlor-OA)	µg/l	0.75	15 %
Alachlor-t-sulfonic acid (Alachlor-ESA)	µg/l	0.75	13 %
Aminomethyl-phosphonic acid (AMPA)	µg/l	0.75	13 %
Atrazine-2-Hydroxy	µg/l	0.75	vR
Azoxystrobin-O-Demethyl (CyPM)	µg/l	0.25	vR
Chloridazon-Desphenyl	µg/l	0.75	11 %
Chloridazon-Methyl-Desphenyl	µg/l	0.75	13 %
Chlorothalonil-sulphonic acid (R417888)	µg/l	0.75	20 %
Chlorothalonil metabolite R611965 (3-carbamyl-2,4,5-trichlorobenzoic acid)	µg/l	0.75	15 %
*Chlorothalonil metabolite R471811	µg/l	0.75	15 %
Dimethenamid-P-sulfonic acid (Dimethenamid-ESA)	µg/l	0.125	20 %
Dimethenamid-P-acid (Dimethenamid-OA)	µg/l	0.125	vR
Flufenacet sulfonic acid (Flufenacet-ESA)	µg/l	0.25	25 %

Pesticides in accordance with the Drinking Water Ordinance PM
Relevant metabolites

Parameter	Unit	Lower limit	Criterion
Flufenacet oxanilic acid (Flufenacet-OA)	µg/l	0.075	30 %
Metazachlor ethane sulfonic acid (Metazachlor-ESA)	µg/l	0.75	19 %
Metazachlor oxanilic acid (Metazachlor-OA)	µg/l	0.75	21 %
Metribuzin-Desamino	µg/l	0.075	vR
N,N-Dimethylsulfamide (DMS)	µg/l	0.25	15 %
s-Metolachlor ethanesulfonic acid (Metolachlor-ESA)	µg/l	0.75	18 %
s-Metolachlor oxanilic acid (Metolachlor-OA)	µg/l	0.75	14 %
s-Metolachlor Metabolite NOA 413173	µg/l	0.075	vR
s-Metolachlor Metabolite CGA 368208	µg/l	0.075	vR

*additional substance, not accredited

PM05-E Option – extended scope pesticides and metabolites**Pesticides**

Parameter	Unit	Lower limit	Criterion
*Ethidimuron	µg/l	0.025	vR
*Quinmerac	µg/l	0.025	vR
*Bromoxynil	µg/l	0.025	vR
*Flazasulfuron	µg/l	0.025	vR

Metabolites

Parameter	Unit	Lower limit	Criterion
*Chlorothalonil metabolite SYN 507900	µg/l	0.025	vR
*Nicosulfuron metabolite UCSN	µg/l	0.025	vR
*Terbutylazine metabolite SYN 546009 (LM3)	µg/l	0.025	vR
*Terbutylazine metabolite CGA 324007 (LM5)	µg/l	0.025	vR
*Terbutylazine metabolite SYN 545666 (LM6)	µg/l	0.025	vR
*Desaminometamitron	µg/l	0.025	vR
*Metazachlor metabolite BH 479-9	µg/l	0.025	vR

*additional substances, not accredited

Polycyclic aromatic hydrocarbons (PAH) P

Parameter	Unit	Lower limit	Criterion
Acenaphthene	ng/l	5	19 %
Acenaphthylene	ng/l	5	24 %
Anthracene	ng/l	5	21 %
Benzo(a)anthracene	ng/l	5	21 %
Benzo(a)pyrene	ng/l	5	24 %
Benzo(b)fluoranthene	ng/l	5	17 %
Benzo(g,h,i)perylene	ng/l	5	25 %
Benzo(k)fluoranthene	ng/l	5	21 %
Chrysene	ng/l	5	22 %
Dibenzo(a,h)anthracene	ng/l	5	30 %
Fluoranthene	ng/l	5	18 %
Fluorene	ng/l	5	14 %
Indeno(1,2,3-cd)pyrene	ng/l	5	25 %
Naphthalene	ng/l	5	21 %
Phenanthrene	ng/l	5	15 %
Pyrene	ng/l	5	16 %

Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners AZ

Parameter	Unit	Lower limit	Criterion
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	0.05	20 %
4-Acetylaminoantipyrine	µg/l	0.05	13 %
4-Formylaminoantipyrine	µg/l	0.05	12 %
Acesulfame	µg/l	0.05	17 %
Amidotrizoic acid	µg/l	0.05	20 %
Atenolol	µg/l	0.05	20 %
Benzotriazole	µg/l	0.05	12 %
Bisoprolol	µg/l	0.05	19 %
Carbamazepine	µg/l	0.03	13 %
Cyclamate	µg/l	0.03	20 %
Diazepam	µg/l	0.05	15 %
Diclofenac	µg/l	0.05	14 %
Ibuprofen	µg/l	0.05	12 %
Iopamidol	µg/l	0.05	20 %
Metoprolol	µg/l	0.05	17 %
Saccharin	µg/l	0.05	15 %
Sotalol	µg/l	0.05	22 %
Sucralose	µg/l	0.05	25 %
Sulfamethoxazole	µg/l	0.05	12 %

Sum parameters: Hydrocarbon oil index and Phenol index SP

Parameter	Unit	Lower limit	Criterion
Hydrocarbon oil index	mg/l	0.1	40 %
Phenol index	mg/l	0.01	11 %

Volatile Halogenated Hydrocarbons (VHH) C

Parameter	Unit	Lower limit	Criterion
1,1,1-Trichloroethane	µg/l	0.15	15 %
1,1-Dichloroethene	µg/l	0.5	17 %
1,2-Dichloroethane	µg/l	0.5	13 %
Bromodichloromethane	µg/l	0.15	10 %
cis-1,2-Dichloroethene	µg/l	0.15	14 %
Dibromochloromethane	µg/l	0.15	12 %
Dichloromethane	µg/l	1	13 %

Volatile Halogenated Hydrocarbons (VHH) C

Parameter	Unit	Lower limit	Criterion
Tetrachloroethene	µg/l	0.15	17 %
Tetrachloromethane	µg/l	0.15	16 %
trans-1,2-Dichloroethene	µg/l	0.15	20 %
Tribromomethane	µg/l	0.15	12 %
Trichloroethene	µg/l	0.15	15 %
Trichloromethane	µg/l	0.25	13 %

BTEX and MTBE B

Parameter	Unit	Lower limit	Criterion
Benzene	µg/l	0.5	16 %
Ethylbenzene	µg/l	0.5	20 %
o-Xylene	µg/l	0.5	15 %
Sum of m-Xylene and p-Xylene	µg/l	1	20 %
Toluene	µg/l	0.5	22 %
Methyl-tert-butylether (MTBE)	µg/l	0.5	13 %

PFAS per- and polyfluoroalkyl substances (linear and branched PFHxS, PFOS) PF

Parameter	Unit	Lower limit	Criterion
*Perfluorobutanoic acid (PFBA) – PF4C	µg/l	0.005	vR
*Perfluoropentanoic acid (PFPeA) – PF5C	µg/l	0.005	vR
*Perfluorohexanoic acid (PFHxA) – PF6C	µg/l	0.005	vR
*Perfluoroheptanoic acid (PFHpA) – PF7C	µg/l	0.005	vR
*Perfluorooctanoic acid (PFOA) – PF8C	µg/l	0.005	vR
*Perfluorononanoic acid (PFNA) – PF9C	µg/l	0.005	vR
*Perfluorodecanoic acid (PFDA) – PF10C	µg/l	0.005	vR
*Perfluoroundecanoic acid (PFUnDA) – PF11C	µg/l	0.005	vR
*Perfluorododecanoic acid (PFDoDA) – PF12C	µg/l	0.005	vR
*Perfluorotridecanoic acid (PFTrDA) – PF13C	µg/l	0.005	vR
*Perfluorotetradecanoic acid (PFTeDA) – PF14C	µg/l	0.005	vR
*Perfluorobutane sulfonic acid (PFBS) – PF4S	µg/l	0.005	vR
*Perfluoropentane sulfonic acid (PFPeS) – PF5S	µg/l	0.005	vR
*Perfluorohexane sulfonic acid (Total PFHxS)	µg/l	0.005	vR

PFAS per- and polyfluoroalkyl substances (linear and branched PFHxS, PFOS) PF			
Parameter	Unit	Lower limit	Criterion
*linear Perfluorohexane sulfonic acid (n-PFHxS)	µg/l	0.004	vR
*branched Perfluorohexane sulfonic acid isomers (br-PFHxS (sum))	µg/l	0.001	vR
*Perfluoroheptane sulfonic acid (PFHpS) – PF7S	µg/l	0.005	vR
*Perfluorooctane sulfonic acid (Total PFOS)	µg/l	0.005	vR
*linear Perfluorooctane sulfonic acid (n-PFOS)	µg/l	0.004	vR
*branched Perfluorooctane sulfonic acid isomers (br-PFOS (sum))	µg/l	0.001	vR
*Perfluorononane sulfonic acid (PFNS) – PF9S	µg/l	0.005	vR
*Perfluorodecane sulfonic acid (PFDS) – PF10S	µg/l	0.005	vR
*Perfluoroundecane sulfonic acid (PFUnDS) – PF11S	µg/l	0.010	vR
*Perfluorododecane sulfonic acid (PFDoS) – PF12S	µg/l	0.010	vR
*Perfluorotridecane sulfonic acid (PFTrDS) – PF13S	µg/l	0.010	vR
*N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.005	vR
*4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.005	vR
*6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.005	vR
*8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.005	vR
*Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.005	vR
*2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.005	vR
*9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.005	vR

*not accredited



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