



# Proficiency tests and interlaboratory comparisons 2024

ProfTest Syke is accredited proficiency test and interlaboratory comparison organizer. We provide a wide range of interlaboratory comparisons for different sectors, for example related to environmental measurements:

- Chemical, physical and biological measurements of environmental samples (matrices e.g. water, sediment, sludge, and soil).
- Measurements of swimming pool and domestic waters.
- Calorific value measurements in solid fuels.
- Recycled material testing.

We organize interlaboratory comparisons in cooperation with experts from cooperation institutes

- sampling and field measurements of environmental samples.
- indoor air measurements (VOC and PAH compounds).
- asbestos analysis of building material samples.

Interlaboratory comparisons are tests organized in the same way for two or more participants on the same or similar samples and of the predetermined variables. They are used to externally evaluate the performance of the participants and the comparability of the analytical results.

Interlaboratory comparison is a proficiency test (PT) when the performance evaluation is done against predetermined criteria. Participation in interlaboratory comparisons provides external quality assessment of the routine analyses and the laboratories can compare their results with those from other participants.

ProfTest Syke is accredited proficiency testing provider (PT01) by Finnish accreditation service ([www.finas.fi/sites/en](http://www.finas.fi/sites/en)).



ProfTest Syke  
Finnish Environment Institute (Syke)



Suomen ympäristökeskus  
Finlands miljöcentral  
Finnish Environment Institute

## Sustainable use of water resources

Natural water	Natural water analyses I NW 03/2024	Alkalinity, conductivity, $N_{NH_4}$ , $N_{NO_2+NO_3}$ , $N_{tot}$ , $P_{PO_4}$ , $P_{tot}$ , $P_{PO_4, dissolved}$ , $P_{tot, dissolved}$ , pH	Price: 845 €
	Natural water analyses II NW 06/2024	Chlorophyll <i>a</i> , oxygen, $SiO_2$ , TOC, TIC, salinity	Price: 830 €
Wastewater	Wastewater analyses I WW 04/2024	Wastewater: $BOD_{77}$ , $COD_{Cr}$ , $COD_{Mn}$ , Na, suspended solids, TOC Natural water: $BOD_{77}$ , $COD_{Mn}$	Price: 885 €
	Wastewater analyses II WW 14/2024	Alkalinity, conductivity, colour, $N_{NH_4}$ , $N_{NO_2+NO_3}$ , $N_{tot}$ , $P_{PO_4}$ , $P_{tot}$ , pH	Price: 840 €
Drinking water	Drinking water analyses DW 09/2024	$COD_{Mn}$ , fluoride, chloride, conductivity, hardness, pH, $NO_2$ , $NO_3$ , $NH_4$ , Fe, Mn, Ca, K, Mg, Na, sulphate	Price: 950 €
Intercomparison test for field measurements*	KMV 11/2024	Oxygen, temperature, pH, turbidity and conductivity Place: Natural water body, Western Finland Timing: October 2024	Price: 400 € /field meter
Zoobenthos*	ZOO 12/2024	Identification of benthic macroinvertebrates Timing: November 2024	Price announced later

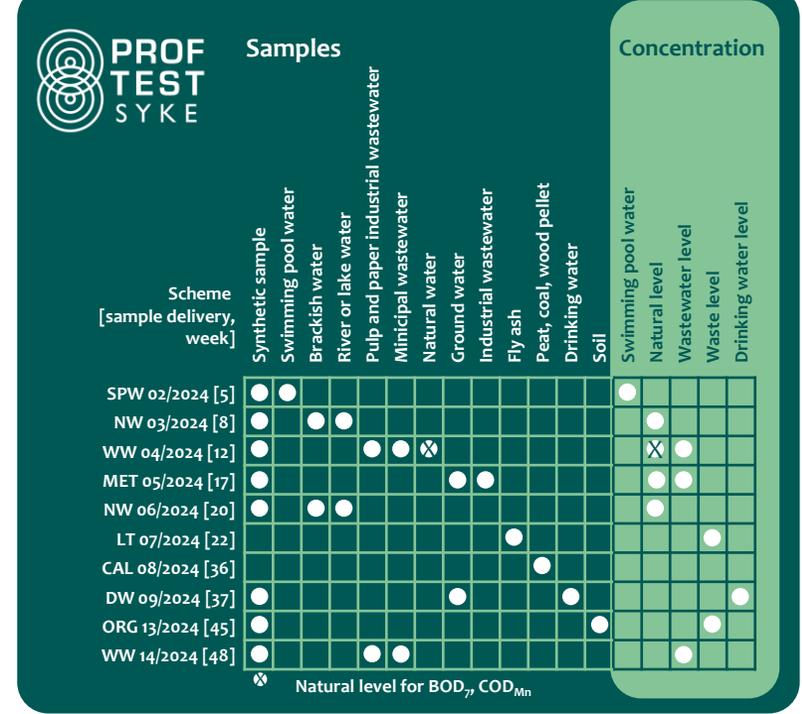
## Built environment

Swimming pool water	Swimming pool water analyses SPW 02/2024	Combined, free and total chlorine, $KMnO_4$ , nitrate, pH, turbidity, urea	Price: 800 €
Gross and net calorific values of solid fuels	CAL 08/2024	Gross and net calorific value, moisture and ash content, volatile compounds, C, H, N, and S, Cl*, F* Cooperation: Eurofins Environment Testing Finland Oy, Jyväskylä	Price: 980 €
Man-made mineral fibres* (development scheme)	MMMF 10/2024	Identification and counting of man-made mineral fibres Cooperation: University of Turku Timing: September-October 2024	Price announced later
Cooperative intercomparison: Microbiological housing health analysis*		Cultivation method, identification of pure cultures, direct microscopy, direct cultivation, qPCR method Provider: THL   Timing: January-February 2024	Price: 450 €

## Hazardous substances and Circular economy

Metal analyses	Metal analyses of waters MET 05/2024	Al, As, B, Ba, Be*, Cd, Co, Cr, Cu, Fe, Hg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl*, U, V, Zn and Ca, K, Mg, Na	Price: 995 €
Leaching behavior test for solid waste material	One stage batch leaching test LT 07/2024	As, Ba, Cd, Cr, Cu, Hg, Mo, Ni, Pb, Sb, Se, V, Zn, Cl, F, $SO_4$ , DOC, pH, conductivity	Price: 800 €
PAH and PCB compounds and oil hydrocarbons from soil	ORG 13/2024	PAH compounds, PCB compounds, oil hydrocarbons >C10-C40	Price: 985 €

Intercomparison or measurements marked with \* are not included in the accreditation scope.



Registration for our proficiency tests and intercomparisons opens 1-2 months before the sample delivery.

More detailed information is available on our website ([syke.fi/proftest/en](https://syke.fi/proftest/en)) as well as from our electronic user interface, [ProftestWEB](https://proftestweb.fi).

Depending on the test, synthetic and/or different matrix samples are provided. The concentration levels of the provided samples are according to the typical levels of sample types.

Prices informed here are preliminary, the final price for the test is informed in the Information letter for the PT/ILC. More information from the Guide for participants ([syke.fi/proftest/en](https://syke.fi/proftest/en)).

### Cooperation with e.g.

