

- National reference laboratory in the environmental field

Training and expert support for the authorities and other parties within the environmental field

- Proficiency testing services (Proftest SYKE)

Accredited proficiency test provider PT01 by Finnish Accreditation Service, FINAS (SFS-EN ISO/IEC 17043:2010) since 2006

- Chemical and ecotoxicological testing services

Accredited testing laboratory T003 by Finnish Accreditation Service, FINAS (SFS-EN ISO/IEC 17025:2005) since 1992

- Calibration services

Accredited calibration laboratory K054 by Finnish Accreditation Service, FINAS (SFS-EN ISO/IEC 17025:2005) since 2010, a contract laboratory of VTT MIKES metrology and a member of the co-operation network of European national metrology institutes

- Research activities in the fields of sustainable development and metrology

- Certification of qualified sampling personnel (Certi)

Accredited certification body of persons for environmental sampling S022 by Finnish Accreditation Service, FINAS (SFS-EN ISO 17024:2012) since 2004.

- Reliable and comparable results for research and monitoring purposes by Environmental methods standards

Finnish Environment Institute SYKE Laboratory Centre

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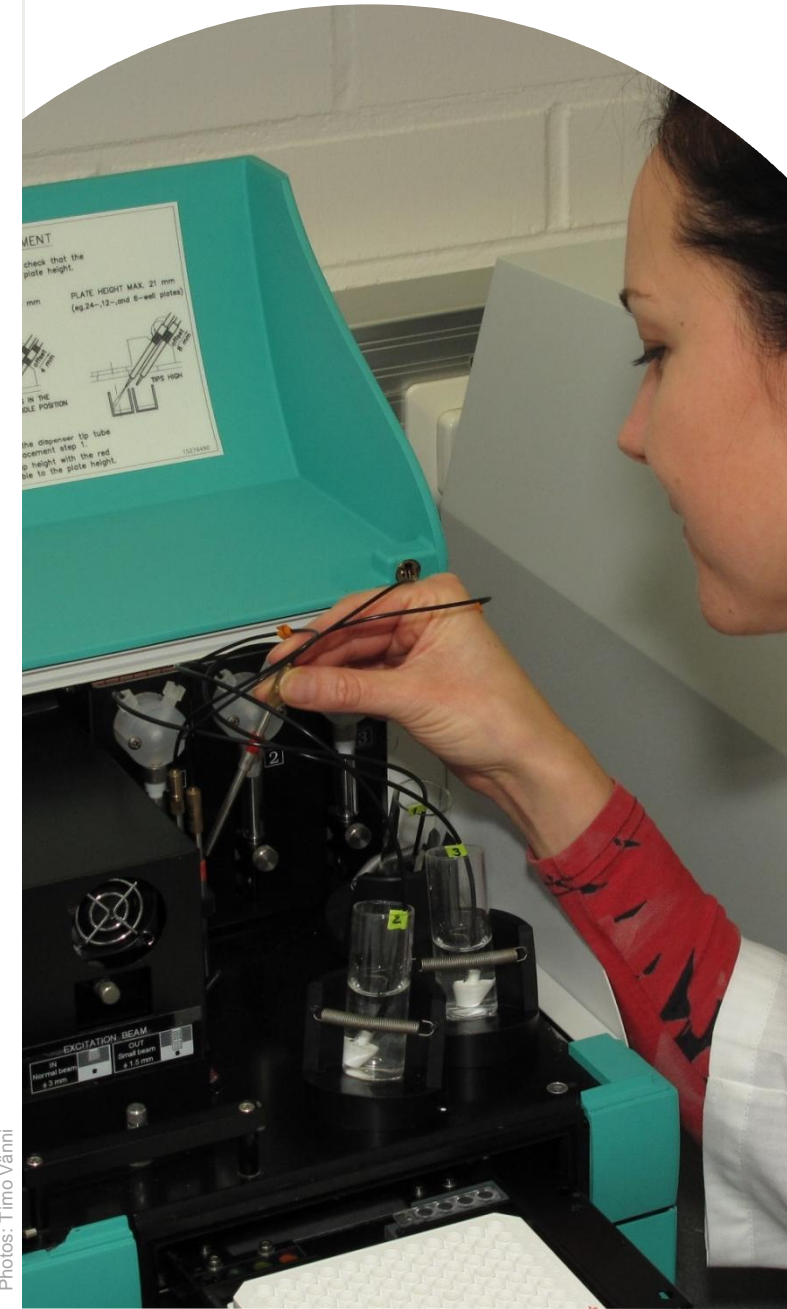
SYKE Laboratory Centre on social media:



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Photos: Timo Vänni

National reference laboratory in the environmental field

SYKE acts as the national reference laboratory in the environmental field in Finland. SYKE Laboratory Centre fulfills most of the tasks and duties of this reference laboratory, including proficiency testing, standardisation of methods, as well as training and expert support for the authorities and other parties within the environmental

Proficiency testing services

As an accredited proficiency test provider, Profitest SYKE, Laboratory Centre provides external quality assessments for chemical and biological testing and sampling services, and supplies training for other institutions within the field.

Proficiency tests are provided for physico-chemical measurements and bioassays conducted in various types of water, sediment, sludge and soil. A wide range of national and international environmental sectors participate in Profitest SYKE proficiency tests.



Analytical services

SYKE Laboratory Centre offers a wide range of chemical and ecotoxicological testing services required for environmental monitoring and research. Most of our analytical methods have accreditation status.

Calibration and contract laboratory

SYKE accredited calibration laboratory produces calibration results with high precision and traceability and is responsible for developing methods based on primary technologies.

As a contract laboratory of VTT MIKES metrology, SYKE calibration laboratory contributes to the conservation and development of the national measurement standard system and is responsible for the maintenance application of the SI system within chemical analysis of the aquatic environment. SYKE calibration laboratory also comprises national and international communication, publication, and training activity in the field of metrology. For example, laboratory arranges customized training in the assessment of measurement uncertainties in chemical analyses or validation of analysis methods.

Research activities

SYKE Laboratory Centre's research activities support the objectives of sustainable development and circular economy.

Our research focus on

- Environmental chemistry and impacts
- Environmental measurements and decision making
- Development of new monitoring techniques and quality assurance measures
- New sensor and sampling technologies
- Remote and field measurement technologies

Methods standardisation

According to the co-agreement with the Finnish Standards Association (SFS), SYKE is responsible for drawing up of methods standards for the environmental field in cooperation with European Committee for Standardisation (CEN) and the International Organization for Standardisation (ISO). At the national level the development work is implemented by the working groups appointed by SYKE. Participation in these groups is open and free of charge for experts interested in developing environmental methods standards.



Certification of environmental sampling personnel

Representative sampling and measurements are essential in environmental research. The skills of the sampling personnel are a major factor behind the reliability of research results.

The national certification system of environmental sampling personnel, Certi, has been designed to ensure that sampling personnel have enough experience and expertise to do their job well even under difficult circumstances. Sampling personnel are able to show their competence in sampling practices by certifying their personal skills.