FW-5	Charge and general parameters in wastewater (heffing- en algemene parameters in afvalwater)
Year: 2023	Participants: 20 laboratories expected
Number of rounds: 1 per year	Period exercise: 2 October – 30 October
Number of materials: 3 per round	Sample size: 500-1150 ml

Timetable | PT Scheme | Costs

This study covers the determination of general parameters in wastewater test materials. Participation of acidified samples is open for world-wide laboratories. Participation of determinands where conservation is 'completely filled' is only applicable for local laboratories as analysis needs to be performed on fresh samples. A request to participate can be made by sending an e-mail to wepalquasimeme@wur.nl.

Test Materials

The test materials are prepared in bulk from filtered (1 mm) freshwater. Homogeneity of the test materials is assumed, as they were prepared in bulk and thoroughly mixed, before being dispensed into glass or plastic bottles for distribution. Acidified samples with conservation 'H_2SO_4 pH<2' are stable for the purpose of the exercise and can be send worldwide. Samples with conservation 'completely filled' are freshly prepared a day in advance to the pre-determined date and sent cooled by courier with same-day delivery. Samples need to be kept cooled until analysis. **The pre-determined date of analysis of the BOD-5 samples is 4th October 2023.** Therefore, these samples cannot be distributed worldwide.

Determinands and Concentration Ranges

Determinand*	Unit	Concentration Range	Conservation	Sample size	Error	
					Const	Prop
Mineral oil (Minerale olie)	mg/l	1-20	H_2SO_4 pH<2	750 ml		
BOD-5 (BZV-5)	mg/l	10-50	Completely filled	~550 ml		
COD (CZV)	mg/l	100-1000	H_2SO_4 pH<2	500 ml		
TOC	mg/l	4-20				
Kj-N (Kjeldahl nitrogen)	mg/l	10-20				
NH4 (ammonium)	mg/l	5-10				
tP (total phosphorus)	mg/l	5-10				
tN (total nitrogen)	mg/l	10-20				
F (fluoride)	mg/l	1-50	Completely filled	~1150 ml		
Br (bromide)	mg/l	1-50				
Cl (chloride)	mg/L	>50				
NO2 (nitrite)	mg/l	1-5				
NO3 (nitrate)	mg/l	1-25				
o-PO4 (ortho-phosphate)	mg/l	1-10				
SO4 (sulfate)	mg/l	10-200				
pH	-					
EC (EGV) (25°C)	mS/m					

* This exercise is not in the scope of accreditation.

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Organisation and Structure WEPAL-QUASIMEME

Roles and responsibilities of the WEPAL-QUASIMEME team are outlined in the table below. The contact details for the WEPAL-QUASIMEME Project Office are given on the first page of this document.

Name	Role	Responsibilities
Mrs. Winnie van Vark	Manager WEPAL-QUASIMEME, Coordinator WEPAL	Manager of the WEPAL-QUASIMEME team Data assessment and statistics WEPAL
Mr Wim Cofino	Project advisor	Scientific responsibility of the QUASIMEME Laboratory Performance studies. Chairman of the Scientific Advisory Board Statistics QUASIMEME
Mr. Steven Crum	Coordinator QUASIMEME	Coordination and organisation of the QUASIMEME Laboratory Performance studies Preparation of Aquatic test materials Homogeneity and stability testing Aquatic samples Test material dispatch QUASIMEME Data assessment and statistics QUASIMEME Dispatch of QUASIMEME samples
Mr. Jan Groenwold	Project assistant	Database and statistics WEPAL-QUASIMEME
Mr. Pieter Hazenberg	Quality Assurance Officer	Quality Assurance
Mrs. Nina Jansen	Project assistant	QUASIMEME Front Office (secretariat and subscription) Communications QUASIMEME Help desk QUASIMEME
Mrs. Minke van Veldhuizen	Project assistant	WEPAL Front Office (secretariat and subscription) WEPAL-QUASIMEME Finances Help desk WEPAL
Mrs. Laura Buijse	Project assistant	Preparation of aquatic test materials and homogeneity testing sediment and biota for organic parameters
Mrs. Arrienne Matser	Project assistant	Preparation of aquatic test materials and homogeneity testing sediment and biota for organic parameters
Mr. Peter Pellen	Project assistant	Preparation of test materials Processing of submitted data WEPAL Dispatch of samples
Mr. Fred Bransen	Project assistant	Preparation of test materials
Mrs. Andrea Sneekes	Project advisor	Scientific advise, communications, website, LinkedIn