

The WaterChek Sea Water Chemistry programme has been designed for laboratories engaged in research, industry, environmental and public health testing. WaterChek provides independent verification of test performance across a wide range of tests and sample matrices.



## PROGRAMME OBJECTIVE

Regular monitoring of Sea (Marine) Waters via sampling and testing is important to ensure the health of the public using the water (bathing and water sports); to monitor pollution, and to ascertain the quality of aquatic ecosystems.

The WaterChek Sea Water Proficiency Testing scheme has been developed to provide a system for laboratories to validate their testing capability and benchmark their results. Sample preparation has been designed to cover a range of concentrations for major analytes – ensuring sample properties are representative of samples most often tested in participating laboratories.

## BENEFITS OF PARTICIPATING IN WATERCHEK

### ➤ Confidence in Results

Measurement of performance in comparison with other laboratories provides:

- Confidence that Precision and Accuracy of test results are within expected limits.
- Confirmation of differences between methods where this may be expected.

### ➤ Credibility

Test performance can be demonstrated to:

- Customers
- Regulatory Authorities
- Accreditation Agencies

### ➤ Compliance with

- Laboratory Standards (e.g., ISO 17025)
- Regulatory, environmental and customer requirements

### ➤ Training

- Test performance from individual analysts can be monitored and reported over time.

## PROGRAMME FEATURES

- Comprehensive range of proven sample formats covering a wide range of tests in each round.
- Participation by many accredited laboratories gives high quality, robust data sets with low variation.
- Guidance from the independent Technical Advisory Group ensures relevance to current industry needs.

## ACCREDITATION

Global Proficiency is accredited to ISO/IEC 17043 Conformity Assessment - General Requirements for Proficiency Testing; our scope includes the WaterChek programme however the Sea Water categories are not currently included.

## AVAILABLE TESTS

### Base

Absorbance-filtered (254nm)  
Alkalinity  
Ammonia-N  
Calcium  
Chloride  
Colour True  
Conductivity @ 25°C  
Fluoride  
Hardness - Total  
Magnesium  
Nitrate-N  
Nitrite-N  
NOx-N  
Nitrogen – Total  
Nitrogen – Total Kjeldahl  
Orthophosphate as P  
pH @ 25°C  
Phosphorus - Dissolved Reactive  
Phosphorus - Total  
Potassium  
Salinity  
Sodium  
Silica  
Sulphate  
Turbidity

### Demand (Base)

cBOD  
BOD  
NPOC  
TOC

### Trace Elements

Aluminium  
Antimony  
Arsenic  
Barium  
Boron  
Bromine  
Cadmium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Manganese  
Mercury  
Molybdenum  
Nickel  
Selenium  
Strontium  
Vanadium  
Zinc

### Solids (Base)

Solids – Total  
Solids - Dissolved  
Solids - Suspended

Global Proficiency also offers other WaterChek proficiency programmes including **Effluent Water**, **Potable Water** and **Basic Chem**. Please request a copy of the Programme Description if you are interested.

**FOR MORE INFORMATION PLEASE VISIT OUR WEBSITE**

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