

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:**
 - 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 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.
- Global Proficiency is also accredited to ISO 17034 General requirements for the competence of Reference Material Producers. For information on the range of Reference Materials offered, please visit our website.

AVAILABLE TESTS

Base

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

Demand (Base)

BOD
NPOC

Trace Elements

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

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

www.global-proficiency.com

OR EMAIL

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