

The WaterChek Effluent Water Chemistry programme has been designed as a multi-purpose service for water chemistry 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

Monitoring of municipal wastewater and industry discharges (trade waste) is important to ensure adherence to local bylaws and regulatory requirements including resource consents.

The WaterChek Proficiency Testing scheme has been developed over many years 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 independent Technical Advisory Group ensures relevance to current industry needs

ACCREDITATION

Global Proficiency is accredited to ISO/IEC 17043:2010 Conformity Assessment - General Requirements for Proficiency Testing; our scope includes the WaterChek programme

SAMPLE TYPES

- Trade Waste Effluent (April Round)
- Dairy Waste Effluent (September Round)
- Meat Waste Effluent (December Round)
- Municipal Effluent (All Rounds)

AVAILABLE TESTS

Effluent Water rounds offering the full suite of tests are available three times per year.

Base

Absorbance - filtered (254nm)
 Total Alkalinity (as CaCO₃)
 Ammonia-N
 Boron
 Bromide
 Calcium
 Chloride
 Colour True
 Conductivity @ 25°C
 Fluoride
 Hardness - Total (as CaCO₃)
 Magnesium
 Nitrate-N
 Nitrite-N
 NOx-N
 Nitrogen – Total
 Nitrogen – Total Kjeldahl
 Nitrogen - Organic
 pH @ 25°C
 Phosphorus - Dissolved Reactive
 Phosphorus - Total Dissolved
 Phosphorus - Total
 Potassium
 Silica (as SiO₂)
 Sodium
 Solids - Total
 Solids - Dissolved
 Solids - Suspended
 Solids – Volatile; susp or total
 Sulphate
 Turbidity

Trace Elements

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

Demand (Base)

cBOD
 BOD
 COD
 TOC
 NPOC

Fat, Oil & Grease

Fat, Oil & Grease

Global Proficiency also offers two “Basic Chemistry” rounds per year for our customers whose testing requirements are limited to the basic chemistry tests.

AVAILABLE TESTS

Base

Conductivity @ 25°C
 pH @ 25°C
 Turbidity
 Solids - Suspended

Chlorine (optional)

FAC
 Total Chlorine

FOR MORE INFORMATION PLEASE VISIT OUR WEBSITE

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OR EMAIL

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