

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 waste water and industry discharges (trade wastes) 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:**
 - 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
- Used by MPI (Ministry for Primary Industries), as the provider of Inter-Laboratory Comparison Programmes for the meat and food testing industries
- Accredited to ISO/IEC 17043:2010 Conformity Assessment - General Requirements for Proficiency Testing

SAMPLE TYPES

- Municipal Effluent
- Dairy Effluent
- Meat Effluent

AVAILABLE TESTS:

Base

Absorbance (254 & 270nm)
 Total Alkalinity (as CaCO₃)
 Boron
 Bromide
 Calcium
 Chloride
 Colour
 Conductivity @ 25°C
 Fat, Oil & Grease
 Fluoride
 Hardness - Total (as CaCO₃)
 Magnesium
 Ammonia-N
 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

Demand (Base)

cBOD
 BOD
 COD
 TOC
 NPOC

Trace Elements

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

Global Proficiency also offers other WaterChek proficiency programmes including **Potable Water**, **Sea Water** and **Disinfection by-products** – please request a copy of the Programme Description if you are interested.

CONTACT US TO DISCUSS YOUR REQUIREMENTS

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