

Company: United Utilities
Application: Water Treatment



Scope:

Tap Water: 40,000 km of water mains

Sewer: 30,000 km of sewers

Customers: 7 million domestic users
200,000 commercial



Background:

As one of the largest multi-utility companies in the United Kingdom, United Utilities has a geographical coverage of over 14,000 square kilometers, serving over 7 million domestic and 200,000 commercial customers with a reliable supply of good quality water. United Utilities is obliged to comply with the United Kingdom water regulatory authority – the Drinking Water Inspectorate (DWI). In one of the most advanced laboratories in Europe, scientists use state of the art automation and technology to test the quality of the drinking water and wastewater it returns to rivers and the sea.



Challenges:

- Maintain high degree of operations flexibility to meet hanging regulations
- Simplify operations to maintain and meet compliance demands
- Improve productivity to increase sample throughput
- Integrate LIMS, CDS and Sample Planning Software to optimize automation of procedures

Solution Components:

Thermo Scientific ATLAS CDS

- Client/server architecture delivers faster processing times
- Fully integrated with Thermo Scientific Nautilus LIMS

Thermo Scientific Nautilus LIMS

- Automated workflow improves productivity
- Integrated with instruments and United Utilities Sample Planning System

Thermo Scientific iCAP 6000 Series ICP Emissions Spectrometer

- Fully integrated with Nautilus LIMS

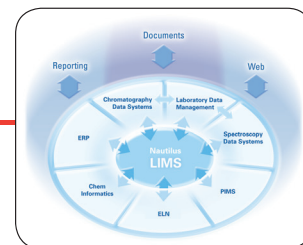
Thermo Scientific LC/MS

- Enables access to lab results across the organization for reporting to regulatory authorities
- Allows end-user consumers to check on quality of drinking water in their area

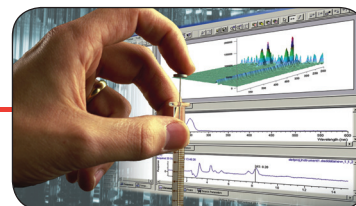
Results:

United Utilities engages in 24-hour testing of drinking and wastewater and takes continuous environmental samples. Integration of the LIMS with the CDS, Instruments and the TAPS (Trilogy Advanced Planning System) enabled United Utilities to improve productivity and efficiencies in the laboratories and also optimize the automation of laboratory procedures. Common interfaces amongst the integration components result in operational efficiencies and simplified systems administration. Automated reporting on a shared system delivers time savings and eliminates manual errors, which provides more reliable compliance reporting to the DWI. User-friendly and intuitive applications reduce time demands.

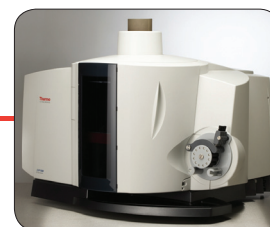
CONNECTS Integration



Thermo Scientific Nautilus LIMS



Thermo Scientific ATLAS CDS



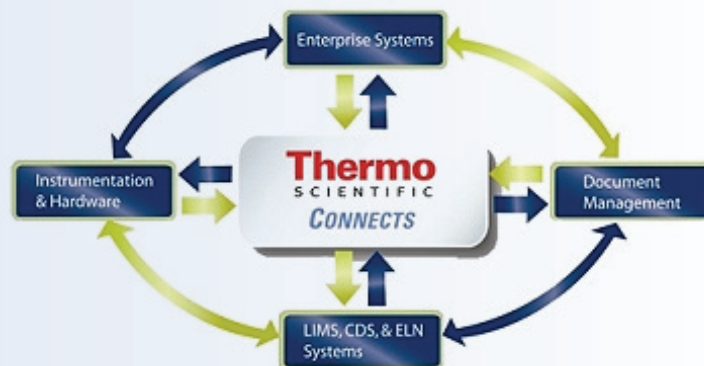
Thermo Scientific iCAP 6000 Series ICP Emissions Spectrometer



Thermo Scientific LC/MS

About Thermo Scientific CONNECTS

Thermo Scientific CONNECTS is aimed at bridging the gaps between laboratory generated data and the enterprise level information that is required for mission critical management decisions. A broad product offering allows us to help our customers expand the business of science from the laboratory throughout the enterprise, providing both the integration of instruments and systems, and interoperability necessary to transforming data into relevant business drivers for companies across the broadest spectrum of industries.



For more information, visit www.thermoscientific.com/connects