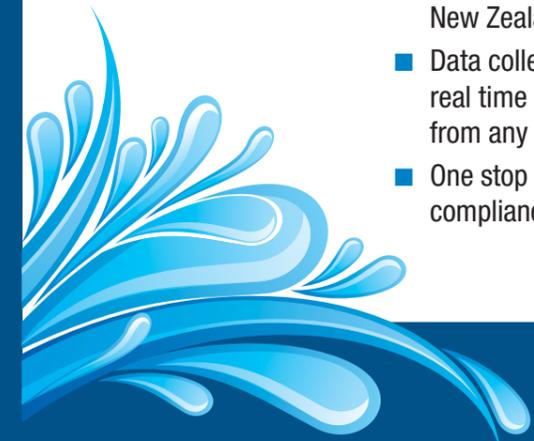


- Used by more than 30% of New Zealand Local Government.
- Data collection and reporting in real time with your data on tap from any device
- One stop shop operational and compliance data with reporting



The Internet of Things

WaterOutlook is a specialist SaaS/IaaS company, providing a platform for managing data in the 'Internet of Things'.

Key features include mobile data entry, cloud-based access and storage with automated compliance reporting and data exchange.

We are the digital mesh tying together the entire ecosystem of data sources and synchs: field technicians, office staff, online instruments, laboratories, contractors, consultants, regulators, software systems and the public.

WaterOutlook is bringing data management into the 21st century, driving gains in efficiency, capability, and transparency for clients by providing a single repository for many data sources and a single source of truth to feed many data receivers.



The Internet of Things

We're the digital mesh. With WaterOutlook, a client can have access to any data that affects its business – both internally and externally.

For a Council, this means that data can be harvested from machines and people using a variety of methods, and can also be collected from third parties such as electricity suppliers, NIWA, Regional Councils and others, to give an holistic data picture.

This means Environmental, Health and other information can be collected to give a meaningful base for both decision making and reporting.

With WaterOutlook's quick look dashboards, this data can be viewed in real time. Using new API technology, data can flow in and out of an organisation – to your own specifications – without you needing to be involved in the data transfer.



Data Flow: SCADA Data

WaterOutlook is SCADA agnostic so we can simultaneously harvest data from different historians with automatic health/integrity checking and 24/7/365 central watchdog monitoring.

When connected @historian, WaterOutlook provides a smooth contractor interface and doesn't interfere with the PLC coding. The historians don't need to be internal and data from external providers can be integrated into WaterOutlook.

Data can be harvested from many SCADA historians simultaneously and can trace more than one PLC tag to single WaterOutlook parameters.

We also collect decommissioned historical data from historians to ensure legacy data is included and mapped.

Compatible Systems Include

- iQuest – Hydrotel
- Schneider Electric – Citect Flat File/Historian
- QTech – DATRAN
- GE Intelligent Systems – Proficy Historian
- Invensys – Wonderware Historian
- Abbey Systems – Powerlink
- Technolog – PMAC (Cello Meters)
- Archestra

Manual Data and WaterOutlook Mobile

Both internal and external agencies can enter and upload data directly via a web portal using a browser, or by an iPhone, iPad, Android or Microsoft device using our own app (from Google Play, iTunes or Windows Store).

Data is automatically analysed on entry and is sanity checked with alerts generated if data entry is outside acceptable parameters. All changes are audited and tracked.

Emails reminds users when key data is required and escalates if data is not received before deadline.

Using GPS the location of data entry can also be recorded.

Quick Entry

WaterOutlook Mobile App deploys QR Code and NFC technology for quick data entry navigation.

Working Alone Module

The WaterOutlook 'Work Alone Module' should be used alongside the clients' own OSH Plans and Procedures with data stored in WaterOutlook for central reporting, alarming, and transmission to other software packages.

LabOnline

Our own LabOnline system meets the requirements of International Accreditation New Zealand (IANZ) and has two components:

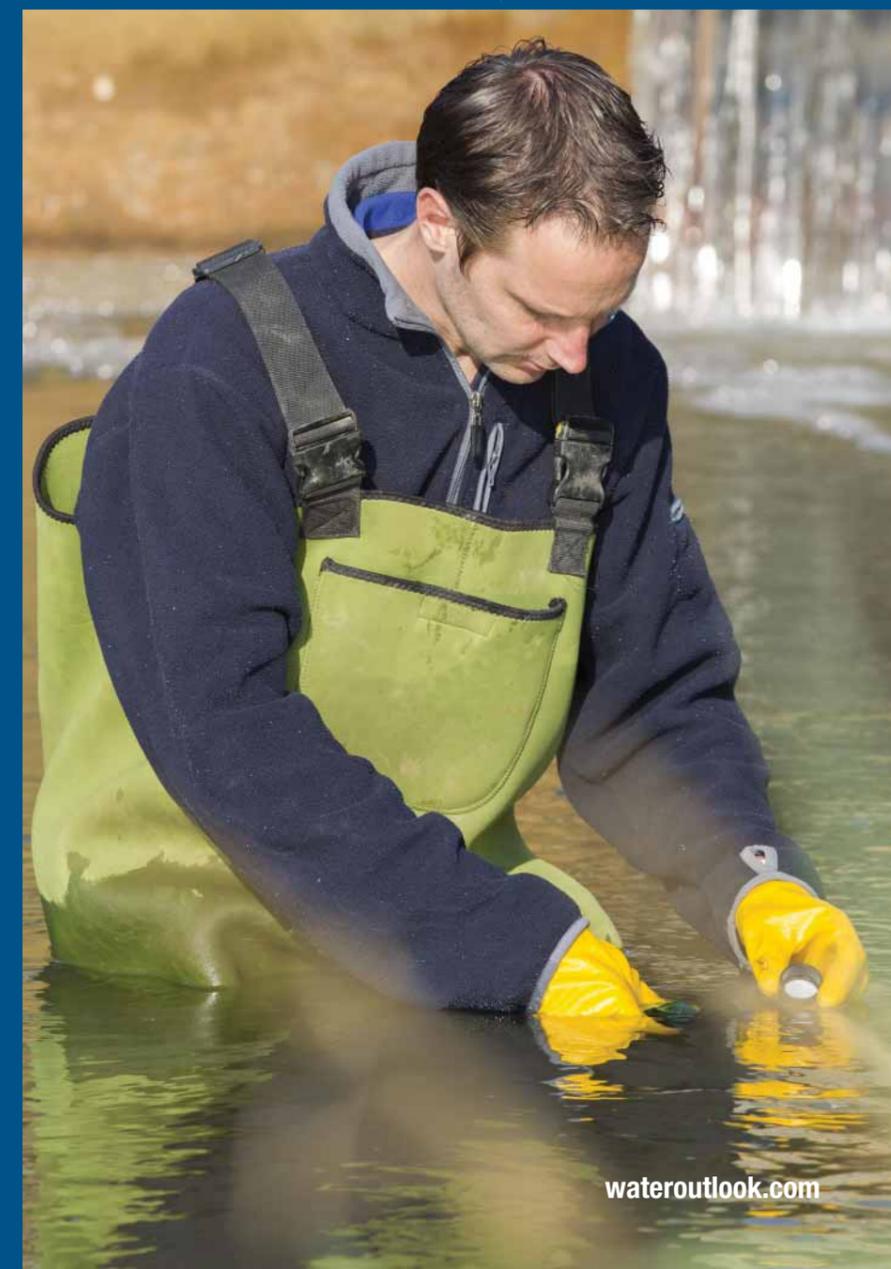
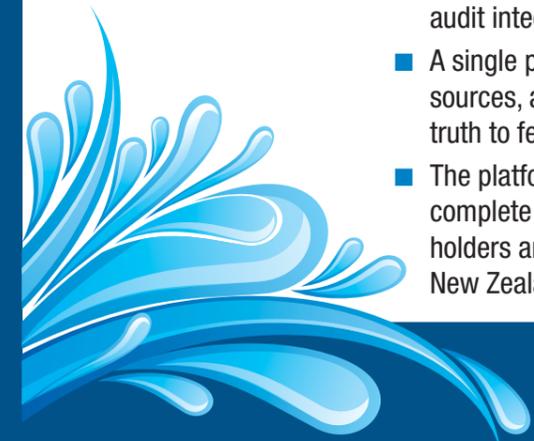
- Integration of WaterOutlook with external lab systems such as Lab-Pro 2000, WinLims, QLims and others
- WaterOutlook LabOnline software which is integrated with WaterOutlook and designed specifically for small Council-sized labs.

LabOnline is fully integrated with the WaterOutlook web portal and WaterOutlook Mobile to enable sample data to be entered in the field or office. LabOnline streamlines the process from sample taking right through to complete analysis, certification and final reporting in real time.

The WaterOutlook Mobile App QR Code/NFC quick entry can be configured for LabOnline samples. The App also reads and records the receiving Lab barcode information.



- No conflict of interest ensuring audit integrity
- A single place for many data sources, and a single source of truth to feed many data receivers
- The platform to integrate the complete ecosystem of data holders and consumers in the New Zealand water industry.



A Single Source of Truth

WaterOutlook is a specialist SaaS/IaaS company that modernises movement of data through organisations by providing a single repository for many data sources, and a single source of truth to feed many data receivers ('many-to-one and one-to-many').

This drastically reduces the lag time between gathering and reporting data leading to enhanced awareness, internally and externally, of what data is and what it means.

We provide a unique audit-grade system and have no vested interest in the data stored.

This means:

- No conflict of interest regarding the meaning of the data. This is vital for ensuring the validity and integrity of audit procedures.
- Many consultants and others who use the stored data adopt WaterOutlook as an official data portal.
- Mission critical data and reporting systems can be leveraged for other business which means tangible savings can be made when tendering large contracts for professional services and hardware.



A Single Source of Truth

Our system comprehensively captures all sources of operational and compliance data and integrates it into a single portal for monitoring and reporting – a single source of truth.

It automates the majority of routine reports with process monitoring and scheduling alerts to ensure data is captured on time.

WaterOutlook is also a web-based portal for direct data exchange with outside bodies: Data can be continuously sent and received between a client and its regulators, consultants, contractors, power companies and others all in near real-time.

Excel is used as the reporting interface for the entire system meaning any stored data can be incorporated into a spreadsheet report.



Regulatory Compliance and Audit

WaterOutlook allows transparent and easy review of underlying raw data and calculations for full audit-grade traceability of data from source to synch.

We are in a unique position to provide highly technical and capable tools for audit procedures on regulations for public health, environment, carbon accounting, service delivery and more.

WaterOutlook helps train the Ministry of Health, Regional Councils and other industry bodies on data management practices and is involved at a high level in helping to define the National Data Standards.

WaterOutlook is the New Zealand market-leader in digital meshing technology. We reduce IT overheads and expand client capability by providing a single, one-to-many interface for connecting to external agencies via internet, and automating data exchange.

And this means that WaterOutlook reliably provides a single source of truth that sits between consumers, industries and regulators.

Data Storage/Security

We handle mission critical information for our clients and our system is therefore designed around the highest standards for diversity and redundancy of storage systems. Because we are independent, WaterOutlook creates a safe and fully auditable system for critical data.

WaterOutlook is simply the custodian of data – our clients own their data. This is why we provide unprecedented data security via four layers of redundancy and diversity:

- Every client is hosted on computer hardware owned by WaterOutlook in tier 4 data facilities in three different locations:
 - ICONZ in Auckland
 - NetSpace in Wellington
 - Solarix in Christchurch
- Each client has a full geographically remote backup.
- Every 24 hours a full comprehensive and complete backup is sent to the client (including MSI of the software) to enable them to independently run their WaterOutlook system in times of emergency.
- Weekly 'unconnected' backups are stored in the WaterOutlook offices.

Sovereign Data

WaterOutlook complies with Local Government Sovereign Data requirements:

- Data is stored on servers within New Zealand borders and on WaterOutlook wholly owned hardware.
- A high level of diversity and redundancy is maintained across ALL WaterOutlook systems.
- There is a diverse upstream supplier base with each supplier having a high level of diversity and redundancy.
- High level of geographic diversity with data centres in Auckland, Wellington and Christchurch.
- A continuous upgrade plan with all operating software patches updated at the first maintenance window opportunity and all the hardware continuously cycled and updated to contemporary standards.

Risk Reduction

WaterOutlook reduces time and risks for operators and management and gives managers the tools and information required to successfully run their utilities and report to their regulatory agencies and communities.

