

STOPPING SEWER SPILLS IN AUCKLAND

5,000 smart monitors delivered as a Data-as-a-Service [DaaS] model, protecting the environment and public health.

The Challenge

Watercare, New Zealand's largest water utility, needed a faster way to detect and stop sewer spills before they impacted streets, waterways, or beaches.

Ageing pipes, flood-prone areas, and population growth were increasing risks, while older monitoring methods often identified problems only after overflows had occurred.

1.7M

People served by
Watercare's wastewater
network

The Solution

- 5,000 Spectra radar sensors deployed at high-risk points across Auckland
- Designed for harsh sewer conditions and resistant to gas, corrosion, submersion, and interference
- Delivered as a DaaS model, avoiding the need for Watercare to build and manage internal systems
- Long-life, swappable battery to maximise device lifespan and reduce maintenance trips
- Quick install, typically fitted and online in 15 minutes
- Edge-based processing filters false alerts and prioritises critical events
- Dual SIM LTE ensures reliable underground connectivity
- Managed in real time through Kallipr Kloud Fleet for full network visibility and control

Results

- ✓ Early detection of blockages and I&I before spills
- ✓ Targeted maintenance where it delivers most value
- ✓ Reduced risk to public health and the environment
- ✓ Faster decisions with live, reliable data



We're getting real insight into how our network behaves in the field. It's helping us respond faster, target our investment, and give our teams the clarity they need to act.

Dave Moore, Smart Systems Manager, Watercare



READY TO STOP SPILLS BEFORE THEY HAPPEN?



Spectra

Rugged, intelligent radar sensor designed for harsh sewer conditions.



Kallipr Kloud Fleet

Secure IoT management platform for full network control.



Install

Delivered as DaaS with installation managed by Citycare Water for fast, consistent rollout.

