

CASE STUDY: netrix™ and water treatment



Veolia Water Ireland ('VWI'), based in Kilkenny, is a sub-division of international company **Veolia Environmental** which is headquartered in France.

Focused on construction and operation of plant environments for the water and waste-water industries, **VWI** designs, builds, operates and services plant locations throughout the 32 counties in Ireland, typically on long-term service contracts.



Veolia Water office, Kilkenny, Ireland

A key business requirement and differentiator for **VWI** is its ability to provide effective monitoring services of plants located throughout Ireland. These plants are typically sited in remote locations and accessed over difficult terrain. Sending an engineer to a location on a daily basis purely to monitor a site was prohibitively expensive and extremely inefficient.

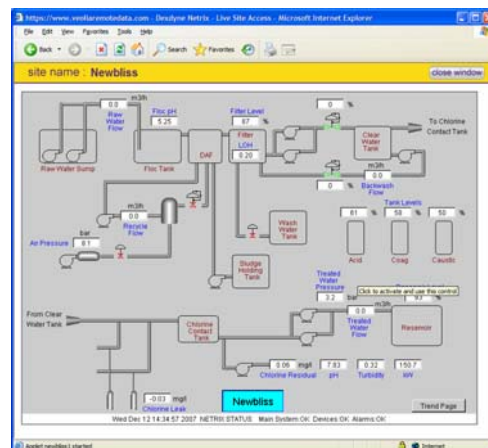
The ability to provide 24/7 'real-time' monitoring, cost effectively from their own monitoring centers, was of critical importance to **VWI's** business.



Dernakesh water treatment plant

VWI needed to identify a solution that was cost effective to deploy, easy to use, inexpensive to operate and reliable in its operation. **netrix™** was identified as meeting these requirements.

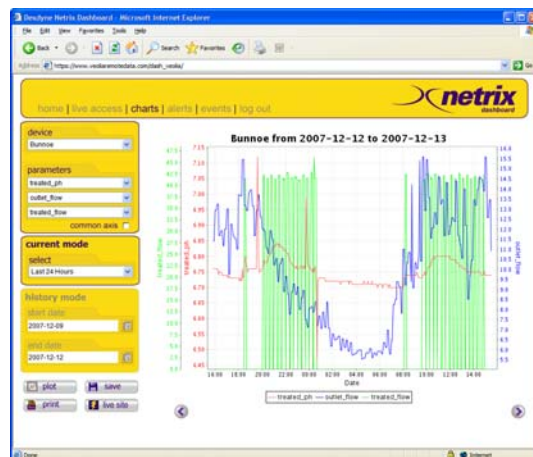
Using the **netrix Developer** package and the included training material, **VWI** was easily able to create a graphical representation of each monitored site at their monitoring station.



Newbliss site webpage created with netrix Developer

Offering a choice of built-in and expandable interfaces, individual items of plant equipment could be easily connected and subsequently monitored. The **netrix Control Centre** (a web-based configuration interface accessible locally or remotely), ensured that equipment could be quickly and correctly installed.

Alarms are sent using a combination of mobile phone SMS messages, email and network connections to nominated individuals and locations, ensuring that problems are quickly identified, automatically notified and escalated to responsible personnel - all whilst minimising downtime.



Charting module for analysis of logged data

Monitored data is logged at the local site where it can be interrogated by local engineers and also periodically transmitted over the internet - via public GPRS network - to the central monitoring site (a **netrix Server** located at **VWI** offices) for analysis and storage.

By leveraging the power of the internet, authorised engineers, operational personnel and end customers can securely access the system from wherever they are located, at any time of the day or night. All that is required is a connection to the internet and a web browser.



This facility has been of great benefit to VWI whose staff are typically deployed throughout Ireland and who may be working from temporary offices or home locations.

As a result of a successful trial, **VWI** has fitted **netrix™** systems to all its operational sites and - as an additional business benefit – has extended its services by offering a monitoring service to other clients who have numerous remote sites.

Seamus Hunt, SCADA/Automation Manager, comments

“The **netrix™** system seemed to fit all our criteria out of the box. The web and open-source tools and software for development and maintenance of the scheme meant we could easily tailor the system to our own requirements, the system was easy to deploy and fewer operators are needed on the ground. Operations Managers can see potential problems before they become critical.”