



## CSO MONITORING

SUPPLY, INSTALLATION & MAINTENANCE



### BACKGROUND

Since implementing a **Combined Sewer Overflow (CSO)** monitoring system, **Yorkshire Water (YWS)** has benefitted from safer and more reliable monitoring of its sewer network. Since 2015, **Metasphere** has supplied, installed and maintained more than **2,300 Point Blue** remote telemetry units (RTUs) and level sensors to YWS as a CSO monitoring solution, generating data and events that have enabled the temporal and geospatial identification of incidents and quicker corrective actions.

Fast and effective response to uncontrolled spillages has reduced the risk of environmental damage and associated financial costs. The data collected and information provided has allowed for greater predictive operation, maintenance and management. The control of assets and processes has been improved, with access to data for both online and offline analysis and modelling.



### STAKEHOLDER

**Yorkshire Water** provides water and wastewater services throughout Yorkshire, and parts of Lincolnshire and Derbyshire in the UK. It serves 2.3 million households and 130,000 business customers, providing 1.24 billion litres of drinking water every single day to its customers.

### BUSINESS NEEDS

**Yorkshire Water** recognised the importance of reliable monitoring and efficient, proactive management of its CSOs. Early detection of potential incidents within the sewer network is of key importance, to reduce the environmental impact of uncontrolled discharge.

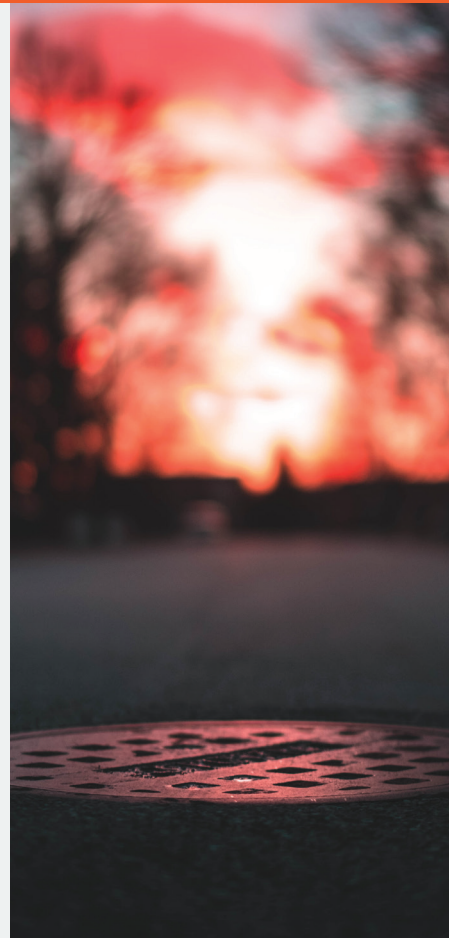


## THE METASPHERE SOLUTION: POINT BLUE

The **Metasphere** CSO monitoring solution monitors various overflow points in the sewer network. Equipment at each monitoring point includes either an intelligent **Ultrasonic Loop-powered Transducer** or pressure transducer and **Metasphere's** battery-powered **Point Blue RTU**, providing the capability to collect level information at sewer overflow locations.

**Point Blue** is an **intrinsically safe ATEX/ IECEx-compliant (Zone 0)** self-contained unit, with internal or external battery pack, IP68 unit enclosure, tri-band 3G modem, with quad band GSM/GPRS fallback, auto switching internal and external antenna options, software configurable AI, CI, DI, Modbus and SDI-12 communication options, integrated submersion sensor, local diagnostic points and intelligent alarm reporting. It communicates with **Metasphere's Master Control System**, DNP3/ WITS DNP3 Masters or FTPS servers.

The measured level values are sampled and stored with time stamps at periodic intervals of 15 minutes. Additionally, **Point Blue** is configured to trend diagnostic information from internal points such as temperature, battery voltage and signal strength.



## BENEFITS

- Proactive management of CSOs has proved highly beneficial to **YWS**: the data and events generated by the **CSO Monitoring System** has allowed early detection of incidents and their location, resulting in earlier, more effective, corrective action when necessary.

### FIND OUT MORE!

If you would like to monitor your sewer system, get in touch to find out how **Point Colour** RTU devices can transform your network:



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