Monitoring of a River Water Intake for Petroleum Contaminants

APPLICATION
Monitoring of river water intake to detect hydrocarbon contamination from accidental spills

CUSTOMER
Water Company, North of England

PROBLEM
In early 2013 there was an oil spill into the river from a local petrochemical plant. The water company that abstracts water from the same river was hit with high levels of hydrocarbons and this led to a halt in the production and to high costs due to the replacement of filters, pipes, and cleaning operations.

PRODUCT
MS1200 – Standard version with 4-20 mA output, sampling system, alarm, and fault relays

WHY MULTISENSOR?
The customer needed a reliable way to measure hydrocarbons in a river with changing levels of turbidity. The MS1200's measurement system is immune to high turbidity issues.

INSTALLATION FACTS
The instrument is installed in an outbuilding at around 70 m from the river from where the water is taken. Water is analyzed for hydrocarbons and VOCs every 15 minutes and, if there is an increased level, an alarm is triggered, and action is taken.

Since the installation, the system has protected the water plant on two occasions.

Learn more on the new oil in water monitor and analyzer by clicking on the image

A picture of the unit installed in the outbuilding. The unit is connected to a PLC that records the data and, in case of an accident, triggers an alarm that switches off the intake pumps.

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