



CASE STUDY

Monitoring of hydrocarbons at the effluent of a food manufacturing facility

Application Dossier: No. XVII

Application

Monitoring of hydrocarbons at the effluent of a food manufacturing facility

Product

MS1900-01-SYS – Standard version, 4 - 20 mA output, continuous measurement.

MS1200
Oil in Water Monitor



Application

Monitoring the effluent of a food manufacturing plant to detect the presence of hydrocarbons.

Customer

Food manufacturer, Canada.

Problem

Lake water is extracted for the cooling of machinery used in the food manufacturing process. Hydrocarbons from machinery and other oils can contaminate the cooling water which is then returned to the lake, potentially causing pollution.

Product

MS1900-01-SYS – Standard version, 4 - 20 mA output, continuous measurement.

Installation Facts

The instrument measures the effluent water that is returned to the lake on-line and continuously. The effluent sample is circulated through the sample tank by using a submerged pump in the inspection chamber.

As the effluent can reach high temperatures, the sampling system has been enhanced to deal with condensation. When a certain contamination level is reached the analyser triggers an alarm and sends a signal to the user, who can then treat the contaminated water before discharging it back into the lake.

The customer decided to use the MS1900 oil in water analyser in conjunction with other more classical parameters such as TOC, pH and conductivity to be sure to detect any issue well ahead of time.



The MS1900 analyser installed close to the effluent.

Did you know?

Multisensor Systems has designed a range of oil in water monitors for a variety of applications and ranges.

At the time of writing we have developed:

- the MS1200, an oil in water monitor mainly used for the detection of VOCs at water intakes
- the MS1900, an oil in water monitor mainly used for environmental monitoring
- the MS1700, an oil in water monitor mainly used for petrochemical processes and refineries.

Why Multisensor?

The customer was looking for a system that would require little maintenance and that would give a good response to a variety of VOCs, fuels and hydrocarbons.



For more information

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Multisensor Systems is a developer and supplier of Water and Gas Analysers specialising in oil in water and hydrocarbon analysers, oil in water detectors, VOC monitors and THM analysers based in the United Kingdom.

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