

Temporary pumping and treatment of excessive surface water

FILTRATION & UV DISINFECTION ENSURING ENVIRONMENTAL SAFE DISCHARGE

During the Winter period, increased rainfall often overwhelms pumping stations in the area, thus increasing the quantity of surface water infiltrating the local sewage systems. This can be detrimental to the local rivers and water ways as the untreated wastewater overflow can undoubtedly raise the levels of contamination to the environment.

The same scenario can be applied to pump stations built purely to operate when the sewer is surcharged. When the sewer starts overflowing, it goes into the pump station and then gets level control pumped directly into a water course.

By utilising Xylem's pumping, UV and Ozone disinfection solutions, not only can flood mitigation be addressed, it also ensures an environmentally safe discharge, working within consent levels. Our containerised rental units with compact footprints can be commissioned rapidly to address emergencies and temporarily increased capacity constraints.

The Challenge

Flood mitigation and addressing untreated surface water overflow caused by added pressure on pumping stations to ensure environmental safe discharge.

The Solution

To mitigate the risk of flooding and ensure environmental consent levels are met, Xylem have worked closely with many customers to offer a solution that is both cost effective and kind to the environment.

Xylem's treatment rental solution can adapt to fit the customer solution. Typically this would include: Pumping equipment to feed the desired flow to mitigate flooding, mobile screening plant to filter/remove the solids and dispense into a skip for disposal, washwater pumping system, intermediate pumps to forward the cleaned liquor through the UV unit, Wedeco UV Reactor, Generator to power the solution, control system to operate the solution and remote monitoring where required.

Other methods to address this challenge can be considered such as using diesel pumps, settlement tanks and sacks offerings to filter the solids prior to discharging into the local water course. Many of these are not always deemed environmentally friendly and the risk of pollution can be seen as increasing which the regulatory environmental bodies can reject this approach.

If temporary rental equipment is not planned and in place, often it results in the tankering route which can result of daily costs per pump station of ~£2000.00. The duration of rental equipment required will depend on the amount of rainfall and resulting water table level but this is typically longer during wetter seasons of the year.



XYLEM RENTAL SOLUTIONS:

With flexible operations Xylem's containerised UV and Ozone rental solutions allow you to:

- Try the technology to ensure that they are fit for your needs and allow you to ascertain that the solution works as intended.
- Address production peaks by bridging the gap with our rental solutions while waiting for new equipment to be delivered.
- Respond immediately to combat the threat of microbial outbreaks.
- Bridge the gap during a planned or unplanned outage of your existing treatment and disinfection equipment on site.
- Optimise your OPEX spending profile by leveraging our rental solutions portfolio while also benefiting from our application expertise to go along with our latest treatment technology.

For more information on Xylem Rental:
Call 0845 707 8012 or
Visit www.xylem.com/uk

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