

Industrial Water Treatment

Raw Water Treatment
Water Reuse
Wastewater / Trade Effluent Treatment



1. Who we are

We are a global company who provide advanced products, services and expertise to help municipal, industrial and construction customers to improve their water management processes, increase operational performance and reduce environmental impact.

With over 40 years of experience and a reputation for engineering excellence, Hydro International's solutions have proven themselves consistently in the most challenging environments, removing solids and other contaminants to deliver treated water that can be recycled and reused.

The Industrial Water Challenge

Water scarcity, increasingly stringent effluent discharge regulations and operational efficiency drivers represent real challenges for water-intensive industrial businesses, with process water use, treatment and discharge generating both cost and risk. Water is used in many aspects of an industrial organisation's operation and each process has its own opportunities for re-use and cost savings.

Consumers today look for more from their retailers/suppliers than just a good product at a competitive price. Research has shown that purchasers expect businesses to operate responsibly to address social or environmental issues, and this can include water use, wastage/reuse and pollution.

Reducing water use, recycling water and treating trade effluent before discharge can all be shown as part of a company's environmental commitment whilst greatly reducing supply and discharge costs.

The Solution

Our industrial treatment products help businesses to use water more efficiently, recover valuable processing products and byproducts, meet regulations and protect the environment—saving money and reducing financial and legal risks.

Hydro International are experts in liquid-solid separation devices, and we understand the challenges facing many businesses with regards to management of process waters, including competing demands for space within a given facility. Our devices have been engineered to be highly effective in a small footprint, to minimise the loss of production space.

Our services team can also install MCERTS compliant flow monitoring and provide MCERTS inspection reports for your site. And our service teams provide immediate and ongoing support to enable better decision making, maintenance, upgrade and repair activities.

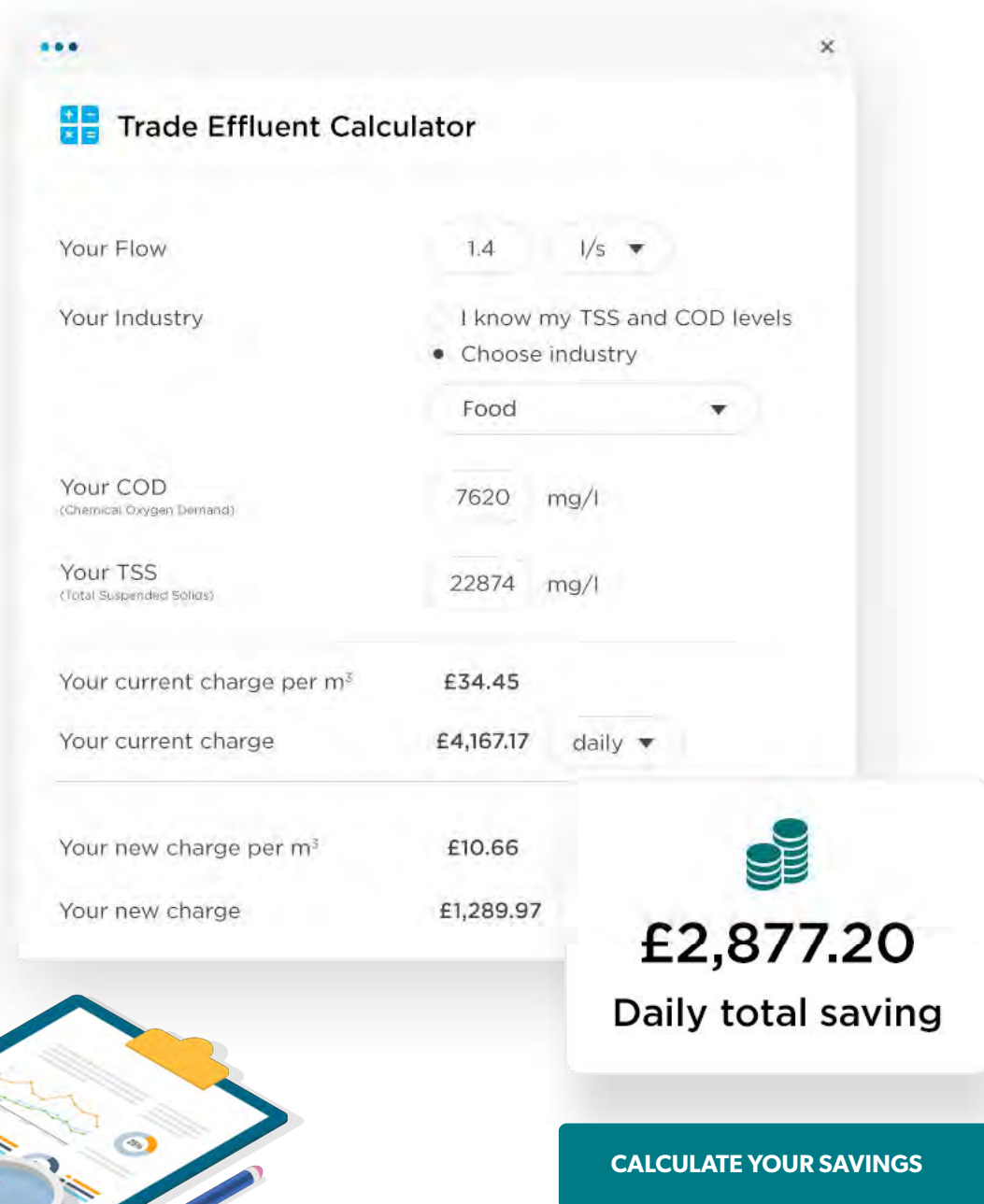
2. How much could you save?

The Mogden Formula is a calculation used by water companies in the UK to calculate charges made to collect, treat and dispose of industrial trade effluent.

Hydro International uses this formula to identify elements in an industrial process which can be improved in order to reduce pollutants and environmental impact, therefore reducing costs for manufacturers.

Try our free calculator and see how much you could save on trade effluent charges at:

hydro-int.com/trade-effluent



Trade Effluent Calculator

Your Flow: 1.4 l/s

Your Industry: I know my TSS and COD levels
• Choose industry: Food

Your COD (Chemical Oxygen Demand): 7620 mg/l

Your TSS (Total Suspended Solids): 22874 mg/l

Your current charge per m³: £34.45

Your current charge: £4,167.17 daily

Your new charge per m³: £10.66

Your new charge: £1,289.97

£2,877.20
Daily total saving

CALCULATE YOUR SAVINGS



We can help you save money on trade effluent charges by removing pollutants and reducing waste volume.

Trade effluent is water which is left after product manufacturing or processing. It is generally considered to be waste and disposed of into the sewers or recycled.

Businesses that discharge trade effluent to the sewer network are given discharge limits and charged by the water authority for volume and pollutants based on either industry guidelines or individual circumstances. Generally speaking, the more there is and the "dirtier" it is, the greater the cost. If you can improve the cleanliness of your effluent then you can reduce your discharge costs.

Usually, limits for Total Suspended Solids (TSS) and Biological and Chemical Oxygen Demand (BOD and COD) are based either on the restrictions of the wastewater network or the capability and capacity of the local treatment works. Passing too much trade effluent to the treatment works can cause sewer overflows and potentially cause a pollution event in a river or watercourse. Not only can this be costly, with fines and remediation costs potentially unlimited, it could also result in bad publicity for your business.

Should you exceed your discharge conditions, you may lose the right to dispose of your effluent into the sewers at all. You would then need to tanker away liquid waste to a wastewater treatment works that can deal with it, and these costs could be prohibitively expensive.

When recycling effluent water, captured waste material may also be re-purposed and could even become a potential revenue stream for the business. The captured solids typically need to be reasonably dry to reduce volume and weight, which, in turn, will reduce the transportation cost.

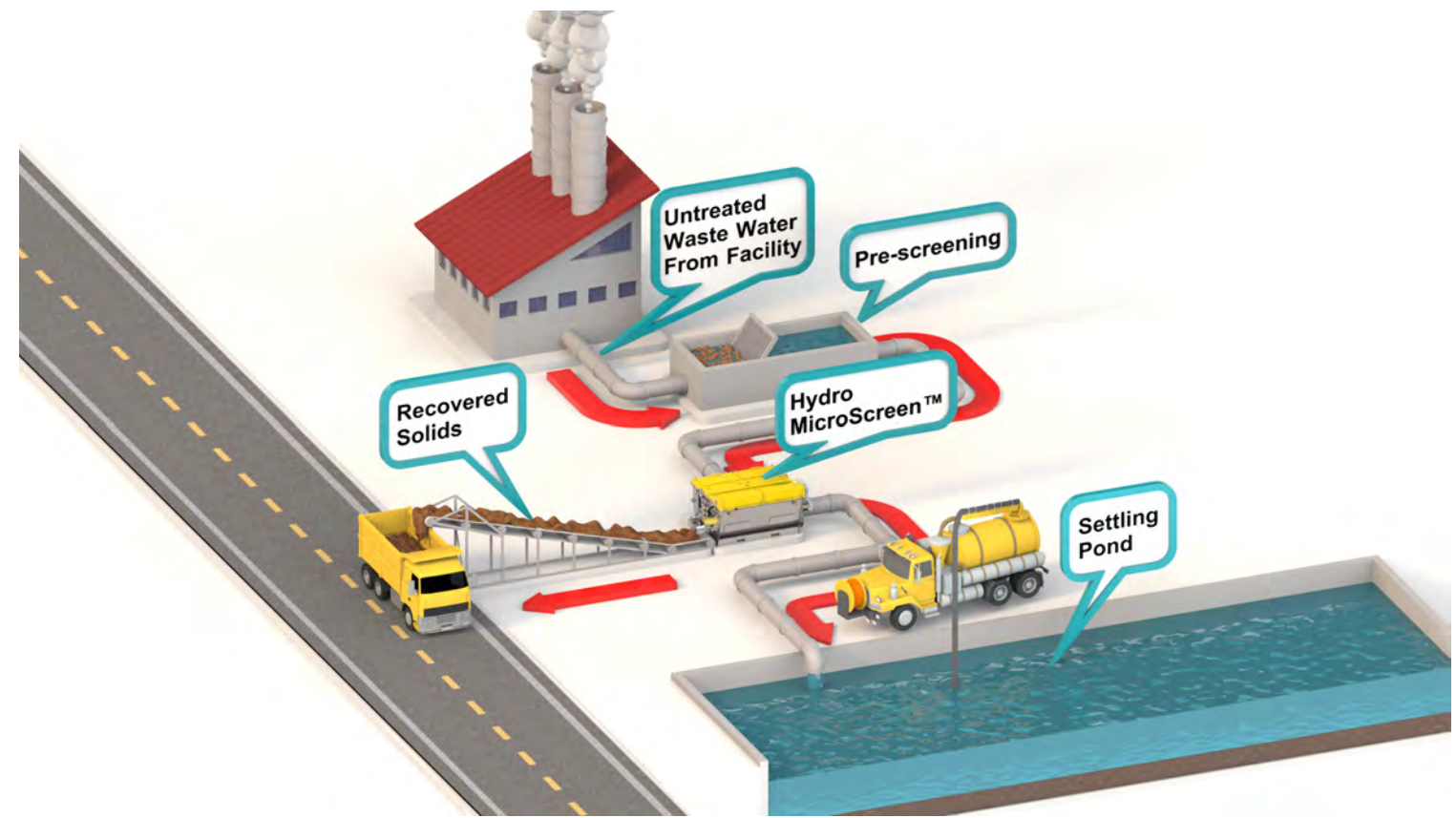
Some trade wastes can be used as soil conditioners and spread back on to the land, some sold for animal feed, and many sent for anaerobic digestion, incineration or other methods of Waste to Energy generation.



3. Product Overview

Our highly knowledgeable sales team can offer a broad range of solid-liquid separators:

- Inlet Screens, including the patented MicroScreen rotating belt screen
- Grit Removal Equipment
- Sludge Dewatering Equipment
- Archimedeian Screw Pumps & Hydro Power Generators
- Wash & Screw Presses
- Screw Classifiers
- Conveyors



1. Screening

2. Advanced Primary Treatment

3. Solids Separation (Organics)

4. Sludge Screening and dewatering

5. Services



FSM Centre Flow Screen



FSM Escalator Screen



Hydro MicroScreen™



Grit King®



Hydro GritCleanse™

Process water and wastewater

- Screening
- Advanced primary treatment
- Solids separation
- Sludge screening and dewatering
- Maintenance, repair and rental



Hydro-Sludge® Screen



SpiraSnail®



Grit Snail®



Repair & Refurbishment



Servicing & Maintenance




Equipment Hire




We can help you improve your water management.
Search **Hydro International** online or visit: hydro-int.com.



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Turning Water Around ...[®]

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