



▼ WASTEWATER TREATMENT SOLUTIONS FOR INDUSTRY

- ▼ PROCESS DESIGN
- ▼ PLANT CONSTRUCTION
- ▼ PROJECT MANAGEMENT
- ▼ CONSULTING
- ▼ EQUIPMENT SUPPLY
- ▼ SERVICE AND OPERATION



Hy-DAF and sludge dewatering equipment at a meat processing plant in Sydney

- ▼ Hydroflux Industrial solutions extend from equipment supply through to installation, service and support. This integration of complete systems combines the best technologies available in our industries today.

- ▶ “Hydroflux Industrial understands your industry. For all aspects of wastewater treatment and sustainability, Hydroflux Industrial sets an example for others to follow.”



A Hy-DAF and clarifier upgrade at a Queensland abattoir

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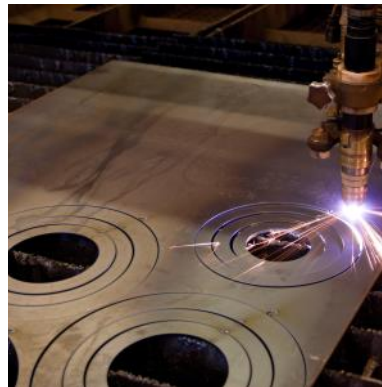
Industries we serve

- There are not many companies who can claim to have expertise in wastewater treatment from virtually all industrial sectors.

At Hydroflux, our engineers have a wealth of experience in designing and building wastewater treatment plants in many different sectors.

For wastewater generating industries, we understand the sources of the wastewater, how the wastewater is generated, the nature of the pollutants and the fluctuations commonly experienced with flow and load.

Armed with this knowledge , our designs are guaranteed to meet compliance under all conditions.



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Intermittent decant extended aeration lagoon at a Queensland saleyard



- Industrial wastewater treatment can comprise one or a number of process stages.

Hydroflux Industrial have a range of wastewater treatment products and processes to suit any industrial application, so whether you are discharging wastewater to sewer, a natural water course or irrigating, we have a solution for you.

We have a comprehensive range of primary treatment equipment such as screens and DAF systems plus a comprehensive range of secondary biological systems including MBR, MBBR, SBR, conventional activated sludge or fixed film reactors.

In addition our product range and expertise extends to all aspects of sludge dewatering systems.



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A Hy-DAF system removing virtually all solids and grease from a wastewater stream

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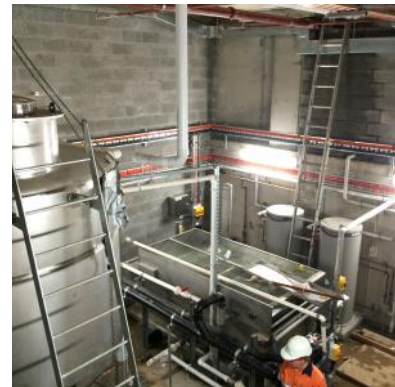
Primary Treatment

- ▶ Primary treatment of wastewater is the removal of pollutants by physical or a combination of physical and chemical means and is usually required prior to a biological treatment process. or the sole means of treatment when discharging wastewater to sewer.

Hydroflux Industrial supply a comprehensive range of screens including static, rotary and in-channel with a variety of apertures.

Dissolved air flotation has been widely used for industrial wastewater treatment and the Hydroflux HyDAF system is one the most compact and efficient DAF systems on the market today.

We also manufacture a range of oil separator, clarifiers and high rate lamella systems.



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We know that every plant is different...

- ▶ The most suitable processes for industrial wastewater treatment will not only depend on the internal processing operations but where the wastewater is being discharged to.

Hydroflux Industrial has the experience and an extensive product range to design any industrial wastewater treatment plant from 10m³ to over 10ML per day. We will cover all aspects of the design and construction of primary and biological treatment plants and the associated sludge management systems.

We will always ensure full compliance for environmental discharge, or reuse.



A HyDAF treatment plant at a dairy in Victoria

- ▶ Biological treatment is specifically designed to treat wastewater and achieve very low levels of organics and nutrients and can allow wastewater to be discharged to the environment, or with tertiary treatment allow for reuse.

Hydroflux Industrial can design and build many types of biological systems including:

- ◆ High rate anaerobic plants
- ◆ Aerobic and anaerobic lagoons
- ◆ Conventional activated sludge systems with advanced aeration
- ◆ Sequencing batch reactors (SBR)
- ◆ moving bed bio reactors (MBBR)
- ◆ membrane bioreactors (MBR)
- ◆ Fixed film reactors



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The decanter of an IDEAL secondary treatment system in Queensland

- ▼ Virtually all of Hydroflux Industrial's biological processes can be adapted to removing nitrogen and phosphorus to very low concentrations and meet the most stringent of regulations.

- ▶ Sludge is generated from both primary and secondary biological treatment plants.

Typically in meat processing plants, DAF systems can achieve up to 12% dry solids depending on the chemical program, whereas biological sludge will normally only contain a few percent DS.

Sludge from primary and secondary plants is not spadable and requires dewatering to enable lower cost disposal as a solid waste.

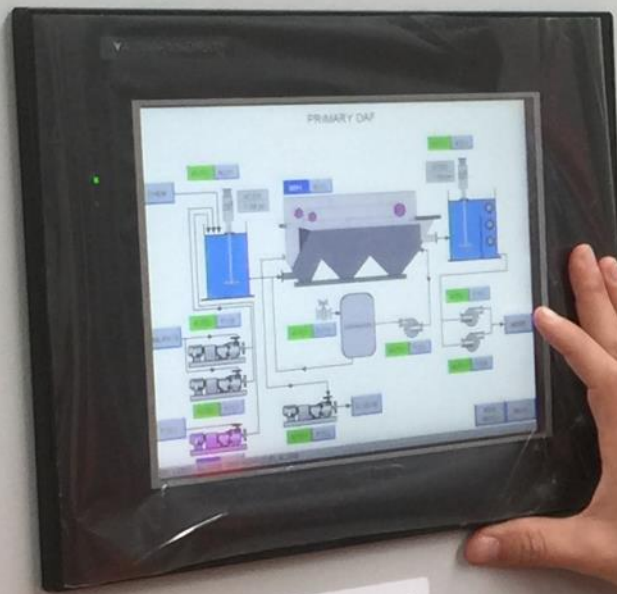
Hydroflux Industrial has experience in the design and application of all types of sludge dewatering systems including screw presses, single and three phase decanters and belt presses along with the associated conveying and handling processes.



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HyCONNECT keeps Hydroflux permanently in touch with our customers treatment plants

PLC



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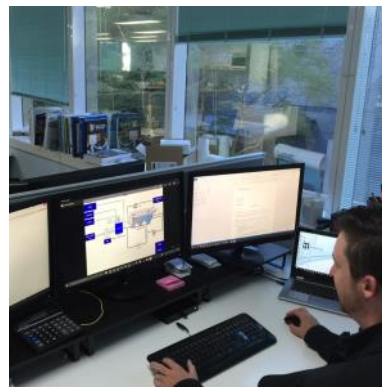
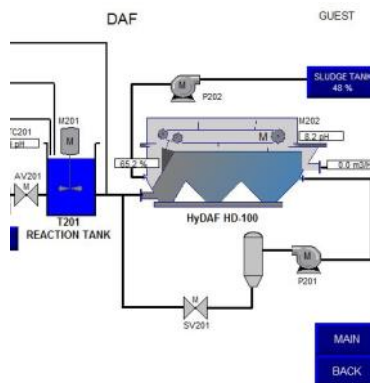


HyCONNECT is a remote connection facility utilised by the Hydroflux Group to provide advanced support to our clients.

This facility provides our experienced wastewater technicians and engineers 24/7 real time access to our client's treatment plant control system.

The features of the HyCONNECT system include a Secure Remote Login to HMI screens or SCADA for complete operation and monitoring including:

- WWTP operation by Hydroflux or client staff.
- Plant operational assistance.
- Fault diagnosis and correction.
- Compliance monitoring.
- Secure remote login to PLC for program changes (after commissioning these are managed via our change control system).
- SMS alarm notification to Hydroflux service technicians.



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- ▶ “Our extensive experience has acquired a vast well of intellectual property, and is transferrable via products, services and processes.

The ongoing product improvement and innovation sees our IP in a constant state of evolution.”



Our Services

- Engaging a professional wastewater treatment company to look after the entire wastewater project is a convenient, economical and hassle free option for industry.

Hydroflux Industrial can provide all process design works, manufacture and fabrication, construction and even complete operation of your wastewater treatment plant.

When Hydroflux Industrial provides complete solutions, we can either undertake a contract on a turnkey basis or work together with building services engineers and other construction professionals to ensure that the project is delivered smoothly, without interruption and on time.



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A member of the Hydroflux Group of Companies

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Building wastewater treatment plants for industry

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