WASTEWATER TREATMENT SOLUTIONS FOR THE MEAT AND POULTRY INDUSTRY
Hydroflux Industrial solutions extend from equipment supply though 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.”
One of the keys to the designing and constructing successful wastewater treatment plants is have a thorough understanding of the processes that generate the wastewater.

This is why you need to engage a specialist wastewater company that has extensive experience in the treatment of wastewater from meat processing plants.

At Hydroflux, our engineers are fully conversant with the internal production processes of abattoirs and further processing plants and as such, we understand the sources of the wastewater, along with the fluctuations commonly experienced with flow and load.

Our complete knowledge of your process and understanding of your wastewater will ensure that all Hydroflux Industrial wastewater treatment plant designs are optimised and tailored specifically for your plant.
Intermittent decant extended aeration lagoon at a Queensland saleyard
Primary treatment of wastewater is the removal of pollutants by physical or a combination of physical and chemical means.

Hydroflux Industrial supply a comprehensive range of screens including static, rotary and in-channel with a variety of apertures to suit every meat processing application.

Dissolved air flotation has been widely used in meat processing plants for many years and is still the ideal solution today.

A DAF system can remove up to 80% of BOD from wastewater and reduce oil and grease and solids to minimal levels. Moderate reductions in nutrients can also be achieved with a suitable chemical program.

Hydroflux manufacture the HY-DAF range of flotation systems. These are high performance proven units in meat industry applications.
The most suitable processes for wastewater treatment for the meat sectors 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 10m$^3$ 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.
Biological treatment is specifically designed to treat wastewater and achieve very low levels of organics and nutrients.

Aerobic treatment 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 anaerobic plants, lagoons, conventional activated sludge systems with advanced aeration, sequencing batch reactors, moving bed bio reactors and membrane bioreactors.
With very high levels of nitrogen and phosphorous present in wastewater from meat processing plants, discharge to the environment or reuse almost certainly requires a significant reduction.

Primary treatment processes do assist however, to achieve very low limits of nutrients, the nitrification and denitrification process along with biological or chemical phosphorous removal is necessary.

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.

**Nutrient removal. No problem...**
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.
“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.”
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.
Hydroflux Industrial Pty Ltd

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Hydroflux Industrial is GRS Certified to the following standards:

**OHSAS 18001 & AS/NZS 4801 SAFETY MANAGEMENT SYSTEM**  
Certificate Number: 47718001610008  
Certificate Number: 4774801610008

**ISO 14001 ENVIRONMENTAL MANAGEMENT SYSTEM**  
Certificate Number: 47714001610008