MULLALY

# FIBREGLASS PUMP STATION & STORAGE *Solutions*


MULLALY
A TANK SOLUTIONS COMPANY

WATER SERVICES ASSOCIATION OF AUSTRALIA

# *About* MULLALY & TANK SOLUTIONS

MULLALY has been providing waste water product solutions for over 30 years specialising in the manufacture of FRP pump stations and related products. In 2016, Tank Solutions wholly acquired the Mullaly Engineering business and continue to supply FRP product solutions to the exacting standards expected of Mullaly products over many years.

As an Australian owned and operated company, we offer a range of Fibreglass (FRP) systems to assist in managing your waste water issues. Each product is tailored for specific site conditions rather than a “one size fits all” standard solution.

## MULLALY FRP PUMP STATION RANGE

| Product | Dimensions |
|---|---|
| Combo Pump Station with valve pit included | 1.5m – 3.75m diameter 2m – 14m depth |
| Wet Well | 1.5m – 3.75m diameter 2m – 14m depth |
| Valve Pit | 900 x 900mm<br>1200 x 1200mm<br>custom available on request |
| Manhole (access chamber) | 1.5m – 3.75m diameter, 2m – 14m depth |
| Lift Stations with dispersal chambers | Made to project requirements |

## MULLALY WASTE WATER STORAGE TANKS RANGE

| Product | Nominal Capacity |
|---|---|
| Emergency Overflow Storage Tanks | 5000-150,000L |

## BENEFITS OF MULLALY FRP

- ✔ WSAA- Water Services Association of Australia appraised
- ✔ Reduced installation costs – Factory fitted, mechanical Fit out on site not required
- ✔ Improve safety benefits – no confined space entry
- ✔ Abrasion and corrosion resistant with no need for protective coatings or lining systems
- ✔ 100% water tight, solid wall construction - the Mullaly difference

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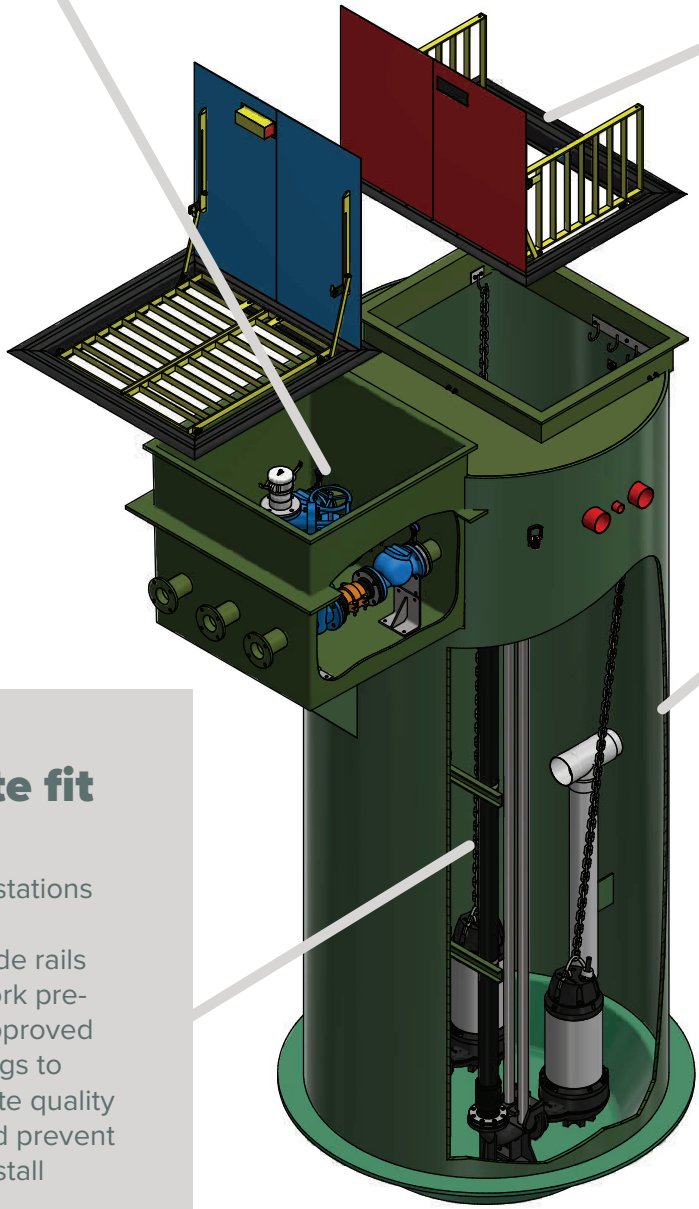
## Integral Valve Chamber (Combo)

Mullaly's integral valve chamber is engineered to prevent differential ground settlement and protect the valves whilst being in close proximity to the wet well facilitating safe access for maintenance personnel.

## Access Covers

Aluminium access covers with lockable hinged lids and polymeric coated safety grates are fabricated in accordance with AS 1664:1979 for highest level of safety. Also available are multi part ductile iron Class B, Class D or Class G solid top or concrete infill access covers.



## The Mullaly difference!

Solid wall construction with a corrosion barrier incorporated as standard provides a robust and highly corrosion resistant structure with no need for protective coatings and minimal ongoing maintenance with smooth walls. Typical pump stations designs have at least 20mm wall thickness with the final design independently verified for the specific project.

## Complete fit out

Mullaly pump stations come with the pedestals, guide rails and all pipework pre-fitted to the approved project drawings to ensure accurate quality installation and prevent the need to install these on site.


# MULLALY COMBO PUMP STATION

A Wet Well with self-contained Valve Pit is referred to as a combo pump station and is used to minimise the risk of rising main damage due to uneven settlement.

Mullaly Fibreglass Pump Stations are manufactured as a one-piece construction to exact project specifications. The integral valve chamber minimises excavation and disruption to local flora and fauna and requires less space in the overall design, resulting in a smaller environmental footprint.

Mullaly Pump Stations are engineered and independently verified to withstand internal and external loadings.

## BENEFITS OF COMBO PUMP STATION:

- ✔ Cost Effective – Reduces installation time and costs due to a smaller excavation footprint
- ✔ More Efficient – Avoids differential settlement between wet wells and valve pits
- ✔ Low Maintenance – The smooth walls mean there is little to no ongoing maintenance
- ✔ Fully fitted out pump station to comply with project drawings

# WET WELLS

A separate wet well containing the submersible pump/pumps for the wastewater system is used where greater flexibility when configuring the waste water management solution.

# VALVE PITS

Valve pits can protect your pipes and valves from normal damage and corrosion that can occur if they are buried directly into the ground and vandalism for above ground pipework. Valve Pits can be installed in conjunction with a stand-alone wet well where transport restrictions prohibit transportation of a combo pump station to site.

## FEATURES:

- ✔ Cast iron or bronze valves
- ✔ Scour lines, if required
- ✔ Bypass lines, if required
- ✔ Dismantling joints for valve removal

# MANHOLES
## ACCESS CHAMBERS

Manholes are used to consolidate multiple waste water sources into a single chamber for distribution through a single outlet. In gravity pipelines it can be used to provide a change in direction or grade.

Mullaly FRP manhole can provide a cost-effective solution in specific project circumstances such as:

- ✔ Replacement of manholes in highly built up areas can be installed where quick installation is critical
- ✔ Restricted ability to excavate ground where a Mullaly FRP and can just drop into a tight hole
- ✔ Deep manholes where it gets difficult to construct in-situ concrete or drop in multiple pre-cast segments

### OTHER BENEFITS OF A MULLALY FRP MANHOLE INCLUDE:

- ✔ Resists penetration by vegetation – lowering long term maintenance requirements
- ✔ Smooth internal channels prevent solids build up within the chamber
- ✔ Lengths to suit site conditions – lengths up to 14M possible
- ✔ Suitable for connection to an off line storage facility
- ✔ No internal coatings or liners required

# MULLALY WATER STORAGE TANKS

Mullaly's storage tanks ensure you meet your environmental requirements by increasing capacity and mitigating overflow risks.

### KEY BENEFITS OF A MULLALY WATER STORAGE TANK ARE AS FOLLOWS:

- ✔ Avoids overflows during pump or power failure
- ✔ With or without flushing systems
- ✔ Unique integral rib design provides a strong robust underground tank
- ✔ Rust and corrosion proof as well as maintenance free
- ✔ Manufactured to the same specification as our FRP fuel tanks

### THESE CAN BE USED FOR APPLICATIONS INCLUDE:

- ✔ Water harvesting
- ✔ Sewage storage & emergency overflow storage
- ✔ Potable water
- ✔ Stormwater detention
- ✔ Water recycling or waste collection

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# THE MULLALY *Difference*

As part of Mullaly's quality control system, its FRP products are designed and certified by a practising Composite Materials Engineer to be suitable for the proposed application and our manufacturing sites are ISO9001 accredited in NSW and WA.

The Fibreglass (FRP) Packaged Pump Stations are manufactured as complete units under controlled conditions in a factory, we believe this results in a superior end product. The quality of the installation of the pipe work, valves and fittings is not subject to excess heat, cold, mud, dust, rain or poor access conditions as is the case with site construction.

Prior to the commencement of manufacture of any FRP components, project specific working drawings are produced for the item. During the drafting process dimensions and clearances are checked to ensure the station will perform as designed. As the units are customized for each project these drawings include all the necessary details for their manufacture.


## MULLALY FRP LIFT STATIONS

Lift stations utilise gravitational forces to move waste water over long flat distances using multiple stations. This reduces overall running costs due to a reduction in the overall size of pumps required.

BENEFITS INCLUDE:

- ✔ Integrated dispersal chamber
- ✔ Built in emergency overflow connection
- ✔ Multiple sizes to suit site locations and waste water flows
- ✔ Reduced complexity in the installation process
- ✔ Single or dual pumps
- ✔ Emergency overflow outlet

# AQUATOR®
## OIL WATER SEPARATOR

Aquator® is a Class 1 Oil-Water Separator is compliant with EN BS 858-1:2002 and has been independently tested by the University of South Australia and University of Newcastle.

The patented design of the Aquator® includes a combination of inlet pipes and baffles that minimise turbulence. Specially designed coelescers with a polyether filtration matrix separate and remove the hydrocarbons from the waste water. The oil and fuel is separated and contained for later removal.

The system also incorporates an automatic shut off valve to close down the Aquator® – ensuring no discharge of pollutants. The system is easily maintained with no need to enter the tank.

- ✔ Capture and store fuel spills
- ✔ Remove hydrocarbons from water runoff
- ✔ Discharge to stormwater
- ✔ Class 1 oil water separator
- ✔ Compliant with EN BS 858-1:2002
- ✔ Different sizes available to suit project needs
- ✔ Oil level alarm probe

# CHEMICAL TANKS

Tank Solutions is one of the few Australian tank manufactures that can provide an FRP storage solution based on the specific chemical specification, factory footprint, hazardous area and volume capacity.

### OUR SHOP BUILT RANGE OF TANKS COVERS ALL MEDIUMS:

- ✔ Fibreglass Reinforced Plastic – FRP
- ✔ Mild Steel and Stainless Steel
- ✔ Both onground or underground options
- ✔ Speciality corrosion barriers and tank linings

### WE HAVE VAST EXPERIENCE WITH TANKS FOR THE STORAGE OF:

- ✔ Caustic solutions
- ✔ Sulphuric Acid
- ✔ Alum
- ✔ Methanol
- ✔ Emulsions
- ✔ Hypochlorites
- ✔ Sodium Hydroxides

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FUEL · CHEMICALS · WATER


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