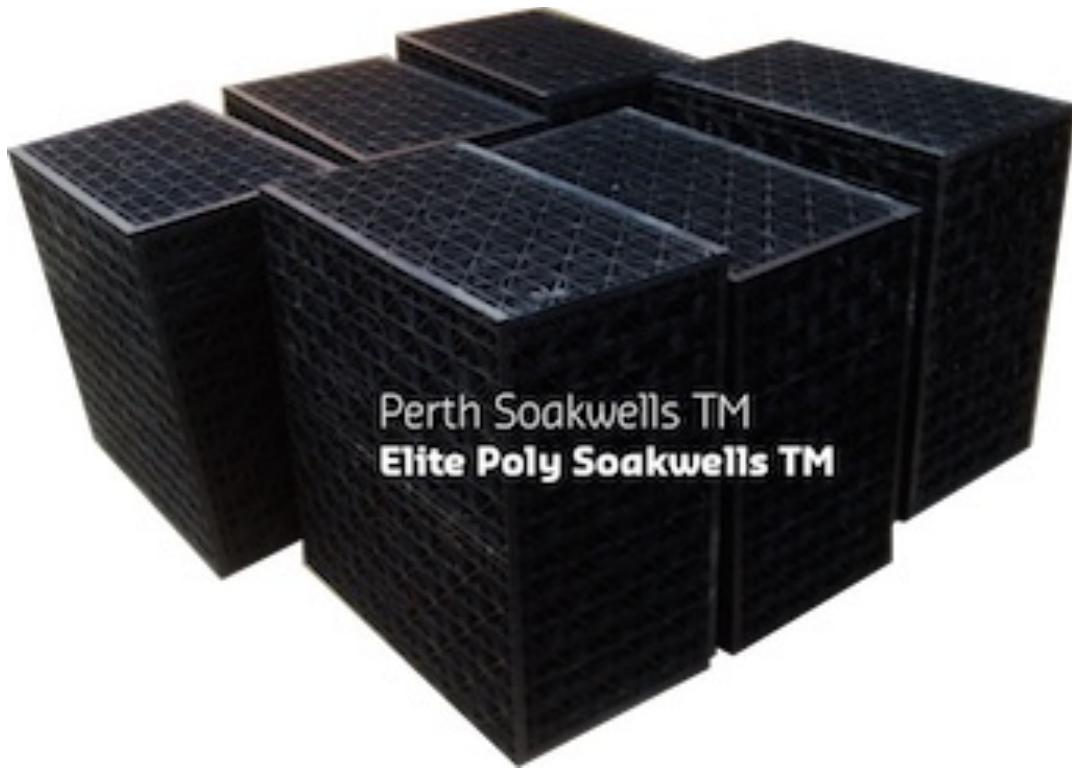


**ELITE™**

POLYPROPYLENE **SOAKWELLS**



**PERTH SOAKWELLS™**

SOAKWELLS PERTH, WESTERN AUSTRALIA

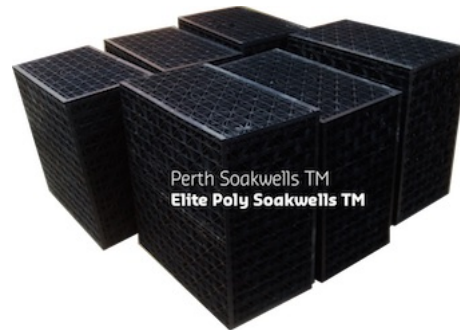
SOAKWELL INSTALLATIONS | STORMWATER DRAINAGE | STORMWATER INSTALLATIONS | STORMWATER PERTH

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# ELITE™ POLYPROPYLENE SOAKWELLS

BY PERTH.SOAKWELLS 6TH MARCH 2016  
#SOAKWELLS #POLYPROPYLENE #STORMWATER #DRAINAGE #PERTH



## Introduction To Polypropylene Soakwells

Over the past three decades, polypropylene soakwells and polypropylene stormwater drainage tanks have gained broader praise for uses where corrosive materials would fail.

Polypropylene in general has excellent performance in in corrosive applications where previously rubber or coated materials had been used. Interestingly, polypropylene has also been the preferred material to replace tanks on marine vessels which had traditionally been fabricated from niche materials such as stainless steel.

Polypropylene offers the benefit of reduced original cost and long term cost savings benefits over the life of the equipment. The same benefits are transferred to stormwater drainage systems consisting of polypropylene soakwells.

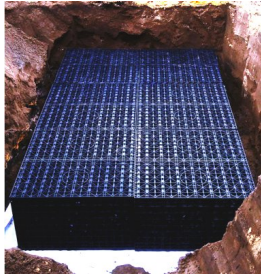
## Characteristics Of Polypropylene Soakwells

Polypropylene soakwells have several advantages over traditional materials previously used:

Table Describing Benefits of Polypropylene Soakwells

Polypropylene soakwells have a high resistance to chemicals and corrosion	Polypropylene soakwells are easily manufactured, formed and cut
Polypropylene soakwells are light wight and rigid	Polypropylene soakwells are easy to maintain and clean
Polypropylene soakwells have a high tensile strength	Polypropylene soakwells have excellent thermal insulating properties
Polypropylene soakwells have excellent abrasion resistance.	Polypropylene soakwells display excellent dielectric properties
Polypropylene soakwells have very low moisture absortion	Polypropylene soakwells have a documented and recorded long life span

## Benefits Of Polypropylene Soakwells



A polypropylene soakwell provides superior stormwater drainage qualities. It is made by far and large by the most versatile and cost effective plastic in comparison to other materials. It has great impact strength, fantastic surface hardness, dimensional stability which keep its rigid form and excellent abrasion resistance. Specifically, our Elite Polypropylene Soakwell is resistant to a wide variety of acids, alkalis and solvent solutions with a temperature range up to 93.3 degrees celsius.

Our polypropylene soakwells are manufactured in Copolymer due to the high impact qualities which are required in traffic areas such as driveway and roadways. It is also common for bobcat services to clear land over soakwells in Western Australia, therefore the high impact strength of the Elite Polypropylene Soakwells enable it to bear industrial traffic. Perth Soakwells™ polypropylene soakwells are issued with black colour pigment which have better UV qualities.



The Elite™ Polypropylene soakwell consists of a homogeneous polypropylene material exhibiting the same corrosion resistance throughout which eliminates the need for additional maintenance.

Handling the polypropylene soakwells, soakwell installations and relocation of polypropylene soakwells are easier because polypropylene is lighter than most other materials used in fabrication. The light weight benefit of polypropylene soakwells allows for cost effective soakwell installations while exhibiting the traffic capacity of heavy duty concrete soakwells when installed according to specification.

Our clients throughout Perth, Western Australia unanimously agree that the polypropylene soakwell options provided by Perth Soakwells™ reduces installation and maintenance cost.

## Polypropylene Soakwells **Benefits**

- Polypropylene Soakwells made from Environmentally selected Recycled Polypropylene
- Polypropylene Soakwells allow Stormwater Management onsite
- Polypropylene Stormwater tanks Recharge Groundwater Table via Filtration and Dispersion
- Reduces the effect of downstream flooding
- Polypropylene Soakwells are configurable with allowing intelligent site space usage
- Allows for minimum site disruption, with above ground available for alternate use
- Soakwells that are Economical
- Polypropylene soakwells are a Modular structure providing design flexibility
- Elite Polypropylene Soakwells are rate for Heavy Duty load carrying capacity 40t/sqm
- Assembled on site by our Professional Perth Soakwells™ installation team
- DIY soakwell option provided in panel kit form for easy transport
- Our Elite Polypropylene soakwells sport a huge 95% High void surface ratio
- Quickest infiltration level of all polypropylene soakwells
- Light Weight soakwells, durable, long life

## Polypropylene Soakwells **Information**

The Elite™ Polypropylene soakwell is designed for subsoil infiltration and dispersion of stormwater runoff from house roofing, driveways, landscaping, turf, carparks and swimming pool backwash. Using recycled polypropylene, our polypropylene soakwells are designed and engineered to be lightweight, structurally sound and rated for heavy duty traffic. Exception stormwater drainage performance can be obtained from subsurface drainage in most Perth soils.

In many applications, polypropylene soakwells are far superior to traditional concrete soak well systems. The Elite™ polypropylene soakwell provides a void space ratio of 95% compared to other systems that have void space ratios as low as 30%. The Elite™ polypropylene soakwell provides a small footprint and higher stormwater drainage flow rate, which significantly reduces the amount of soakwell excavation required, soil removal, and associated earthworks.

Polypropylene soakwells arrive on site in panel packs, being economical and easier to transport than concrete soakwells which usually require excavators and hair deliveries. Polypropylene soakwells provide the benefit of being lightweight allowing saving of machinery costs and assembly in otherwise hard to access areas such as established homes with narrow boundary access.

## Stormwater Drainage

Polypropylene soakwells are an extremely efficient stormwater installation option which manages storm water runoff in both sandy and sen-sandy soils. Surface stormwater is usually intercepted by drainage grills and stormwater points. These drainage points are connected by networks of stormwater pipes which then direct the water toward the polypropylene soakwell system. The polypropylene soakwell, through contact with surrounding permeable soil, discharges the stormwater back into the underground water ways. All polypropylene soakwells are installed with permeable geotextile material or geofabric wrap.

## Modular Soakwells

Polypropylene soakwells are modular in design which allows them to be configurable in layout as well as allowing the soakwells to be stacked vertically while remaining suited to both non-traffic and heavy duty traffic areas, with safety being paramount.

Because polypropylene soakwells are modular it allows us at Perth Soakwells to design and install any size or shape underground stormwater drainage system without disruption if underground services such as power, water, sewer to gas.

Modular soakwells also allow us to access areas only open to foot traffic and assemble large stormwater drainage systems and soakwells which would otherwise be impossible to implement.

## Stormwater Quality

Polypropylene soakwells are installed subsurface or below ground which avoids direct sunlight. Based on the soil filtration and bioremediation principles, the soakwells allow stormwater of far superior quality to be dispersed into the underground water table.

## Soakwell Safety

Soakwells are installed underground which assists in minimising contact with pedestrians and general human interaction. Because the stormwater drainage system is underground, safety and health risks to the public are minimised.

## Further Reading for Polypropylene Soakwells

#perth #soakwells #polypropylene #stormwater #drainage

[Learn more about Polypropylene Soakwells by clicking this link.](#)

[Purchase Polypropylene Soakwells and DIY Soakwells from our Soakwells Shop](#)