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Urban Asset Solutions Pty Ltd is an internationally-focused group of companies that provides innovative, site specific, high-performance, affordable stormwater treatment, harvesting and re-use solutions to assist in improving the quality of water draining from urban developments to our natural waterways.

We do this by providing a turnkey service that assists you achieve current Best Practice Environmental Management Guidelines. Backed by experienced staff and extensive industry know-how, we are able to provide a range of services to meet your riparian land management, bush regeneration and general water sensitive urban design targets and objectives.

Our unique approach to work closely with our clients to find the best and most cost-effective solution is key to our success.

Our Values

• Our team is passionately committed to customer service, as well as environmental and social responsibility.
• We take our duty of care for people seriously and uphold our commitment to safety and risk management.
• We strive to continually exceed our client’s expectations and seek to foster a collaborative environment working together to enhance project outcomes for all parties.

OUR VISION

“To be a leading provider of quality services that sustain and enhance the environment in which we live and the communities in which we operate.”
2.0 Licenced Contractor

Urban Asset Solutions Pty Ltd is a licenced contractor (Building Licence BLD 292854) to the civil construction and structural landscaping industry specialising in environmental management services.

3.0 Approved Local Government Supplier

Urban Asset Solutions Pty Ltd is also pleased to be an approved contractor and supplier with:

- WALGA - Local Government in Western Australia, Preferred Supplier (Contract No. CO17/18) for the provision of Road Building Materials and Related Services within the following categories - Drainage Pipe Supply and Drainage Services.

- LOCAL BUY - Local Government Association of Queensland (LGAO) Contract Number BUS256-0416 approved supplier for the provision of Pipes, Pipe Relining, Pumps, Water Meters, Pre-cast Concrete and Fibre Reinforced Products.

4.0 Accreditation

Urban Asset Solutions Pty Ltd is accredited to ISO 14001 (Environment) and ISO 9001 (Quality). Our commitment to continuously improve our products and services is demonstrated by our ongoing accreditation for Quality and Environmental Management. Urban Asset Solutions Pty Ltd is also committed to a safe environment for its employees. We are fully third-party accredited to AS/NZS 4801 & OHSAS 18001.
5.0 Professional Membership

Urban Asset solutions Pty Ltd is proud to be a member, often a founding member, of several associations and institutions committed to improved water management practices in Australia and internationally.

6.0 Urban Asset Solutions Pty Ltd Portfolio

Urban Asset Solutions Pty Ltd has extensive experience in the delivery of stormwater environmental management and services internationally. Being an early entrant into the environmental industry, Urban Asset Solutions Pty Ltd is now an acknowledged leader with plans to expand further internationally.

World-wide, we have installed more than 20,000 Stormwater Quality Improvement Devices and nationally currently manage over 2,000 environmental assets for many councils. Our wide-ranging industry experience and expertise in providing high-quality project management and stormwater management environmental services to our clients, has enabled us to successfully obtain preferred supplier status in most states domestically as well as overseas.

For all projects Urban Asset Solutions Pty Ltd provides a dedicated management team capable of liaising with you and all other interested third parties. Our staff are fully trained and accredited and work within strict legislative and WH&S guidelines. All staff working on the project are trained and experienced to perform the work involved to ensure a successful outcome for all interested parties.

7.0 Service Provider Contact Details

For any technical, design, consulting, product or maintenance enquiries please contact Urban Asset Solutions Pty Ltd on:
Tel: 1300 706 624
Fax: 1300 706 634
Email: info@urbanassetsolutions.com.au
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"The company has extensive experience in design, construction and commissioning of site specific stormwater treatment and harvesting systems."
8.0 Turnkey Civil Stormwater Construction Services
8.0 Turnkey Civil Stormwater Construction Services

The Urban Asset Solutions Pty Ltd team has a wealth of experience in the stormwater industry and has a strong commitment to identifying and developing the right stormwater treatment solution in close consultation with you to achieve a sustainable, successful project outcome. Our services include:

- **Asset Modelling** - Our team can provide comprehensive hydraulic, hydrology, MUSIC and Computation Fluid Dynamics modeling for your project;

- **Asset Engineering** - We provide comprehensive, civil, structural and environmental engineering services for your project;

- **Asset Manufacturing** - We can provide in-house manufacturing of all pre-cast concrete, stainless and structural steel elements including netting and industrial sewing services;

- **Asset Installation** – With extensive civil construction, creek rehabilitation and landscaping experience we can provide a complete project management, installation or remedial works service ensuring project works programs and deliverables are achieved on time and within budget;

- **Asset Commissioning** - Our team are experienced in providing project as built drawings, surveys and product commissioning testing services;

- **Asset Operation** – An integral element to any stormwater treatment infrastructure project is the ongoing operation of the designed system to ensure it continues to perform to its designed specification. Urban Asset Solutions are experienced in the auditing and monitoring of stormwater infrastructure systems;

- **Asset Maintenance** - Urban Asset Solutions Pty Ltd has a very competitive cleaning service using well maintained crane trucks or vacuum trucks for the removal of all captured pollutants. After each clean we provide a full report detailing the volume and type of pollutants removed and details on any proposed remedial works required.
8.1 Civil and Structural Design Services for Bespoke Stormwater Treatment Solutions

Our engineering service and expertise in stormwater treatment and re-use systems enables us to provide you with timely advice and practical construction solutions for your site.

Our services include:

• Preparation of site specific civil and structural stormwater treatment design drawings
• Geo-technical investigations
• Site surveying
• Preparation of conceptual bespoke stormwater treatment designs specific to your site and preferred maintenance requirements
• Preparation of construction engineered drawings
• As built drawings and system commissioning reporting.

Acknowledging that proprietary stormwater treatment systems don’t always meet client needs we specialise in the design of customised:

• Pollutant Traps
• Trash Racks
• Bio-filtration Systems
• Sand Filters
• Pollution Boom Systems

8.2 Hydrology and MUSIC Modelling Design Service

As the stormwater industry continues to change, and new WSUD policies are implemented, Urban Asset Solutions Pty Ltd is pleased to provide its clients with a high quality civil engineering hydrology, hydraulic and MUSIC modelling design service to assist you achieve Water Sensitive Urban Design objectives for your next project.

Our service includes:

• Site investigation and auditing of the existing drainage network and modelling of the proposed stormwater treatment infrastructure;
• Stormwater treatment, harvesting and re-use design specific to the site conditions and expected outcomes
• Site specific hydrology, hydraulic and MUSIC modelling to confirm the suitability of the proposed stormwater treatment device.
8.3 Civil Construction Services for Stormwater

An integral element of any stormwater treatment infrastructure design is the implementation, construction and commissioning of the system. At Urban Asset Solutions Pty Ltd we not only work with you to develop the most appropriate design solution for your site but we also provide a comprehensive installation and construction service.

Our experienced team have extensive know-how and construction knowledge that allows us to provide you with timely advice and practical construction solutions minimising construction costs to achieve the best project outcomes for all interested parties. Our unique turnkey service enables us to manage all elements of the project.

Our extensive in-house manufacturing experience in pre-cast concrete, stainless steel fabrication and industrial netting and sewing enables us to control all facets of the process.

Our services include:

• Civil infrastructure site works and construction activities
• Risk identification, assessment and management
• Traffic management and controls
• Major de-watering and temporary stormwater diversion
• Bulk earthworks and excavation
• System commissioning and reporting.

All of our site staff are trained and accredited in:

• General Construction Industry WH&S Inducted (White Card)
• Confined Space
• Senior First Aid
• Working at Heights
• Licenced to Perform High Risk Work
• Traffic Management and Control
8.4 Design and Construction of Street Scale WSUD Treatment Systems

Bio-filters and tree pits also known as rain gardens are an integral part of a total treatment train approach and are able to be applied at street scale to capture and treat stormwater runoff close to its source.

Urban Asset Solutions Pty Ltd designs, manufactures, installs and maintains bespoke bio-filters to enhance local urban street scapes.

The Ecosol™ Bio Filter is a fully self-contained modular system supplied to site ready to install thereby reducing on site construction lead-times and disruption to the general public. The product is unique in that it provides not only conventional tertiary bio-filtration treatment of fine suspended solids and dissolved pollutants conveyed in stormwater flows but it also incorporates a primary treatment chamber to capture and retain the larger gross litter loadings that often impede the performance of the bio-filter.
8.5 Design and Construction of Customised Trash Rack Systems

Urban Asset Solutions Pty Ltd specialises in the design and construction of customised trash rack systems modelled to site specific conditions and our client’s preferred maintenance method. Working in close consultation with you our team offers a full range of engineered services including hydraulic modelling, site survey, construction and as built drawings to ensure an optimal outcome for all invested stakeholders.

Backed by our in-house stainless steel fabrication and pre-cast concrete factories and experienced construction team we are able to efficiently manage construction lead-times to minimise disruption to the general public with the execution of the works.

Our trash rack designs include:

- Tangential static trash racks
- Direct screens
- Louvered, graduated trash racks
- Basket trash rack systems
- Modular net trash racks
- Exclusion bars for stormwater outlets.
8.6 Proprietary Stormwater Treatment Device, Design and Construction Services

At Urban Asset Solutions Pty Ltd we provide our clients with a safe and efficient construction program to achieve key project deliverables in a timely manner. Careful planning and preparation of construction methodologies, works programs, site specific traffic management, environmental and safety plans along with safe work method statements and regular site tool box meetings ensure a successful outcome for all parties.

Our team is experienced in the design and construction of:

- Gross pollution traps
- Sediment basins
- Stormwater harvesting systems
- Stormwater / drainage infrastructure
- Access roads
- Culverts and headwalls
- Swales and bio-filtration basins
- Floating pollution booms
8.7 Stormwater Minor Works

The team at Urban Asset Solutions Pty Ltd specialises in the upgrading, refurbishment and rectification of stormwater assets.

Our experienced team have extensive industry knowledge that allows us to provide you with timely advice and practical construction solutions for refurbishing, rehabilitating or rejuvenating your existing stormwater treatment or harvesting system thereby minimising construction costs to achieve best project outcomes for all interested parties. Our unique turnkey service enables us to manage all elements of the project.

Further, our extensive in-house manufacturing experience in pre-cast concrete products, stainless steel fabrication and industrial netting and sewing enables us to control all facets of the process.

Our services include:

- On site rectification works
- Risk identification, assessment and management
- Fabrication of replacement components
- GPT refurbishment and commissioning works
- Replacement netting works
- Access cover and grate repairs and replacement works
- Bio-retention basin, swale and sediment basin rectification works
- Creek-line rehabilitation works.
9.1 Harry Gapes Reserve Stormwater Drain

Bespoke Trash Rack Design for Parramatta City Council

Pre-construction

Post construction
9.2 Floodvale Drain and Trash Rack Upgrade

Pre-construction photos of the problematic site

Post construction
The Old Port Road median strip consists of wetlands and Aquifer Storage Recovery (or ASR) which comprises a multi-objective stormwater scheme with water reuse, water quality improvement, and environmental enhancements all whilst reducing flood risk.

As part of this project Urban Asset Solutions Pty Ltd were pleased to provide a customisable primary treatment solution. After detailed consultation with Aurecon (Project Engineer), Bardavcol Pty Ltd (Principal Contractor) and the City of Charles Sturt (Asset Owner) and in particular their asset management division, Urban Asset Solutions Pty Ltd designed a nine module stainless steel trash rack, incorporating into the design a fiberglass access walkway and removable fall protection barriers for ease of maintenance, whilst ensuring all of councils occupational health and safety concerns were met.
9.4 Wetland Overflow Exclusion Bars and Trash Rack

Urban Asset Solutions Pty Ltd recently designed, installed and commissioned a wetland overflow trash rack that also acts as an exclusion bar preventing child access to the system. Urban Asset Solutions Pty Ltd was engaged by council as they required a complete turnkey service and Urban Asset Solutions Pty Ltd ability to site measure, survey, remove the existing system, fabricate and install a new system with trained and accredited staff enabled Council to award the project to a single contractor.

Urban Asset Solutions Pty Ltd specialises in remote, customised engineered solution for stormwater treatment and rain water harvesting. With experienced staff and its large stainless steel fabrication workshop, no job is too difficult or too remote.
9.5 Gas Works Creek Restoration

Council engaged the services of Urban Asset Solutions Pty Ltd to assist them with the restoration of Gas Works Creek, a small degraded waterway which receives stormwater from Ballina Road and Girrards Hill. Poor water quality due to road runoff, litter and weed infestation, detract from both aesthetics and habitat quality of the creek.

The aim was to provide a custom designed and constructed Stormwater Quality Improvement System that would improve the quality of water in the creek and could be easily maintained by Council. Working in close consultation with Council, Urban Asset Solutions Pty Ltd designed, installed and commissioned a modular trash rack basket system that efficiently prevents significant volumes of gross litter form entering the creek. The design needed to be robust, child safe, efficient at capturing and retaining large volumes of gross litter at high flow velocities and also easily maintainable. The final installed stainless steel system proved efficient within only a few days of its installation.
9.6 Goolwa Waste & Recycling Depot

In October 2014 the Alexandrina Council approached Urban Asset Solutions Pty Ltd to help design and supply a cost effective and easy to maintain filtration solution for their newly extended composting facility adjacent to their existing waste & recycling depot. The purpose of the unit is to prevent gross pollutants (>3mm) especially vegetation conveyed in stormwater runoff entering the drainage network.

After considering a range of possible filtration solutions Urban Asset Solutions Pty Ltd in consultation with council decided the Ecosol™ Drop Trap as the most appropriate unit for the site in question.

Some of the design considerations that were taken into account included:

- The system needed to be easily cleaned using Council’s own crane truck;
- All gross pollutants larger than 3mm needed to be captured and retained; and
- All captured pollutants needed to be retained in a dry self-draining sump thereby reducing the potential for leaching nutrients from organic material captured.