Structural and Vegetated Stormwater Treatment Infrastructure
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1.0 About Us

**Urban Asset Solutions Pty Ltd** is an internationally focussed group of companies that provides innovative, site specific and affordable stormwater auditing, monitoring, maintenance and rehabilitation services for both soft and hard, stormwater infrastructure.

We do this by providing a turnkey service to our clients that assists them 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 help our clients meet riparian land management, bush regeneration and general water sensitive urban design targets and objectives.

Our unique approach in working closely with our clients to find the best and most cost effective solution is key to our success. We encourage regular consultative meetings with all interested parties to ensure project deliverables are being achieved and to ensure future targets and objectives are clearly defined.

**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 by 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 & EPA Licence No. 50664) 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 nationally and 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 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 a rapidly growing marketplace.

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
International Tel: +61 8 8262 2528
Email: info@urbanassetsolutions.com.au
Web: urbanassetsolutions.com.au

“...experience in stormwater, creeks, estuaries and ecology. Asset monitoring and maintenance is a key component of our service to our clients.”
8.0 Turnkey Service for Vegetated Stormwater Treatment Systems
8.0 Turnkey Service for Vegetated Stormwater Treatment Systems

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

Urban Asset Solutions Pty Ltd has successfully planned and delivered a diverse range of projects using a variety of methods in many different ecosystems from urban bushland to the management of natural and ecologically significant areas.

8.1 Large Scale Re-Vegetation

Urban Asset Solutions Pty Ltd offers a comprehensive re-vegetation design and implementation service, taking into account all environmental and ecological considerations. This includes site preparation works, initial weed control, soil conditioning, planting and ongoing maintenance management services to deliver a sustainable, high-value natural habitat.

8.2 Urban Development, Parklands and Streetscaping

Urban Asset Solutions Pty Ltd has worked with developers, utilities and local government authorities to re-vegetate and manage urban developments following civil works. We provide technical services for bio-retention and detention basins, weed control and maintenance in natural areas and parklands. Works also includes re-vegetation and landscaping, soil stabilisation and civil reinstatement works, drainage and WSUD planting and maintenance. In addition our service includes the installation and maintenance of street trees and turf.
8.3 Noxious Weed Control

Urban Asset Solutions Pty Ltd team provide a comprehensive noxious weed control service and have extensive experience with the targeted removal and control of a diverse range of noxious weed species. Our services include high-volume spraying.

8.4 Asset Auditing Services

Our team is experienced in providing detailed soft infrastructure asset auditing inspections and reporting services. An essential element of any good management program includes regular inspection and monitoring. Urban Asset Solutions Pty Ltd has a dedicated Asset Management Division to help you not only determine how often your infrastructure requires intervention, but also how it is performing.

We undertake Condition Assessment auditing of:
- Swales
- Bio-retention Basins (also known as rain gardens)
- Sedimentation Basins
- Wetlands.

8.5 Reinstatement of Natural Habitat

Habitat values are an essential component of most re-vegetation projects. We have provided services to increase habitat values and improve habitat connectivity on a range of projects.

8.6 Water Sensitive Urban Design and Constructed Wetlands

We provide expert advice and services for the rectification of existing sediment ponds, bio-retention systems and constructed wetlands. We provide ongoing maintenance services including weed mitigation, pollution control, embankment stabilisation and general management services for natural water bodies.

8.7 Creek - Line Rehabilitation

Urban Asset Solutions Pty Ltd undertakes all phases of riparian management and civil drainage system rehabilitation works, including de-silting, bank and channel reshaping, rock armoring, soil stabilisation and re-vegetation works. Our Special Projects Team provides planning and project management at all stages, including management of sub-contractors.
8.8 Asset Rectification Services

Our experienced team have extensive industry know-how and technical proficiency that allows us to provide you with timely advice and practical construction solutions for refurbishing, rehabilitating or rejuvenating your existing stormwater treatment or harvesting and re-use system. We aim to minimise 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 industry experienced team consists of structural landscapers, bush regenerators, horticulturists and environmental scientists. All are passionate about the environment and making a positive contribution to our natural landscape.

Today Urban Asset Solutions Pty Ltd has over 40 staff members located across two countries working in production, construction, administration, accounting, project co-ordination, sales and asset maintenance. Our team has a wealth of experience in the industry and is committed to providing our clients with the highest level of service at all times. Urban Asset Solutions Pty Ltd provides clients with a complete turnkey service, from design and installation to monitoring and maintenance for most WSUD assets.

“Our team is passionately committed to customer service, as well as environmental and social responsibility.”
9.0 Turnkey Service for Hard Infrastructure Stormwater Treatment Systems
9.0 Turnkey Service for Hard Infrastructure Stormwater Treatment Systems

9.1 Asset Auditing Services

Our team is experienced in providing detailed asset auditing, inspections and reporting services for hard stormwater treatment infrastructure. An essential element of any good management program includes regular inspection and monitoring. Urban Asset Solutions Pty Ltd has a dedicated Asset Management Division to help you not only determine how often your infrastructure requires intervention, but also how it is performing.

Services include:

- Asset location mapping
- Structural condition assessment
- System performance specification confirmation
- Inspect and reporting of retained pollution volumes and composition analysis
- Preparation of rectification plans and costings
- Life cycle costing with detailed operation and maintenance plans.

Asset Inspection and Auditing of:

- Trash Racks
- Proprietary and generic Stormwater Quality Improvement Devices (also commonly known as GPTs)
- Net Tech Systems
- Floating Booms
- On site Detention Basins
- Litter Baskets
- Sand Filters
- Tertiary Treatment Systems such as Media Filters and Cartridge Filter Systems
- Rainwater Harvesting and Re-use Systems.
9.2 Asset Cleaning and Maintenance Services

An essential element of any good stormwater management program includes regular inspections, cleaning and maintenance of installed Stormwater Quality Improvement Devices (SQIDs). This ensures they continue to capture and retain pollutants to their designed specification, without premature by-pass and without any adverse impact to the drainage capacity of the stormwater conduit on which it is installed.

Cleaning frequencies, methodologies and even the equipment used to maintain these systems will vary depending on the type of device installed and available access.

At Urban Asset Solutions Pty Ltd we offer:

- A competitive cleaning and maintenance service
- A long-standing record in safe work practices, supported by Quality Assured processes
- In-depth knowledge and experience with all popular types and brands of GPTs
- A complete understanding of pollution removal and disposal regulations and processes, that ensures your unit is cleaned effectively and efficiently without risk of damage; and
- Useful, easy-to-read (cloud based) reports, allowing you to track works completed and system performance.
9.3 High Pressure Washing

Utilising our custom tandem trailers, each complete with 1,200L water tanks, generators, high pressure spray washer unit with hoses and reels, our asset maintenance team also provide cleaning and maintenance services to our valued clients for a wide range of assets including, but not limited to:

- Spillways
- Sedimentation forebays
- Pedestrian and cycle pathways
- Public boat ramps
- Access ramps
- Driveways.

The provision of these services enhances the overall aesthetics of the asset; assists in preserving the life of the resource; and helps to ensure the safety of the public.
9.4 Stormwater Drainage Asset Maintenance Services

Urban Asset Solutions Pty Ltd can provide improved asset management guidance and support for your stormwater drainage infrastructure. Asset maintenance is complex and with the ever-increasing renewal gap the potential consequences of not effectively maintaining your stormwater drainage infrastructure in a planned and timely manner may accelerate deterioration of the asset with it ultimately becoming more expensive to rectify. Additionally this may also pose a potential safety and or environmental risk.

9.5 Asset Refurbishment, Rehabilitation, Rectification and Commissioning Services

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

Furthermore, 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:

- Civil infrastructure site works and construction activities
- On site rectification works
- Risk identification, assessment and management
- Traffic management and controls
- Major dewatering and temporary stormwater diversion
- Fabrication of replacement components
- System commissioning and reporting.
9.6 Stormwater Infrastructure Remedial Minor Works

At Urban Asset Solutions Pty Ltd we have extensive experience in the completion of stormwater infrastructure remedial works. The following two pages provide you with an example of the works we complete. Below are before and after photos of a GPT with poorly fitted access covers. Urban Asset Solutions Pty Ltd, having identified the safety and operational defect as part of our stormwater auditing service, immediately with our client’s support, completed the necessary rectification works.

Access covers to a gross pollutant trap inappropriately fitted, thereby posing as a trip hazard and a maintenance safety issue.

Rectification works completed with access covers appropriately secured and pavement surrounds reinstated to blend with existing surface levels.

Above minor works completed for the City of Melville, WA.
9.6 Stormwater Infrastructure Remedial Minor Works (continued)

No job is too small and our quick response time ensures issues are addressed before they become problematic or a public safety concern.

Dilapidated existing dome grate with blocked drainage pit resulting in localised flooding. *Urban Asset Solutions Pty Ltd* was able to clean out the drain, removing all blockages, expose the concrete apron and replace the dilapidated access cover with a new compliant dome cover.

Above minor works completed for the Redland City Council, QLD.
10.0 Asset Inspection and Maintenance Management Software

An integral element of any asset maintenance service is regular and accurate reporting. Urban Asset Solutions Pty Ltd utilises cloud-based apps, providing live reports and asset data at your fingertips. Cloud-based asset maintenance reporting provides you with user-friendly software for planning, recording and analysis.

Features of the Software include:
• Comprehensive inspection scheduling
• Simple mapping interface with GPS for maintenance crews and inspectors
• Works on Android, iPhone mobiles and tablets
• User-definable reporting with both simple and complex querying
• Digital images and documents are stored within the database
• Simple integration and reporting with MS Excel® and MS Word®
• View recorded data using Google Map®, Google Satellite® Google Street View®
• Comprehensive help desk support
• Allows works to be categorised (general maintenance, inspection, rectification or refurbishment works)
• Provides you with unique user logins and administration privileges.

The app makes recording inspections and maintenance work easy, fast and accurate.
11.0 Manufacturing Capability
11.0 Manufacturing Capability

Urban Asset Solutions Pty Ltd is unique in that it is able to provide its clients with a complete turnkey service from design to installation, commissioning and asset maintenance. Urban Asset Solutions Pty Ltd has a large manufacturing facility with modern plant and equipment and is staffed with first class tradesmen. This enables stormwater treatment asset remedial or rectification works to be undertaken promptly and efficiently for councils in all States and Territories.

Urban Asset Solutions Pty Ltd manufacturing and civil construction capability includes:

11.1 Pre-cast Concrete Manufacturing

Urban Asset Solutions Pty Ltd entered the pre-cast market as a result of increased market demand for its range of stormwater filtrations products. Traditionally, Urban Asset Solutions Pty Ltd relied on a national network of pre-cast concrete suppliers to manufacture its product, however pressure to provide our clients with improved quality, lead times and design flexibility resulted in the establishment of Urban Asset Solutions Pty Ltd pre-cast division.

Since commissioning its plant Urban Asset Solutions Pty Ltd has gone from strength to strength. Now clients not only purchase traditional core stormwater filtrations systems but also other associated pre-cast drainage structures such as junction pits, pump wells, detention tanks and under ground rainwater harvesting systems.
11.2 Stainless Steel Fabrication

Urban Asset Solutions Pty Ltd provides a modern, versatile stainless steel fabrication facility capable of production runs from low to high volume. We design, manufacture, deliver and install various stainless steel components to suit your requirements.

We are able to provide a reliable, quality and very competitive stainless steel engineering and fabrication service. With over 30 years of industry know-how and experience, we can provide specialist services in the design and manufacture of a broad range of products.

11.3 Industrial Sewing and Netting

Urban Asset Solutions Pty Ltd has been actively involved in the environmental industry for many years with its internationally recognised and award-winning stormwater protection products.

As part of our manufacturing capability we also fabricate netting and fabric stormwater treatment products for the industry.

11.4 Civil Design and Construction Capabilities

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 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.
12.0 Case Studies
Rejuvenation of soft WSUD assets is our specialty. The Urban Asset Solutions Pty Ltd team is passionate about modern water sensitive urban design and the longevity of implemented soft stormwater treatment solutions such as bio-retention basins, swales and wetlands. Our team consists of structural landscapers, horticulturists, bush regenerators and environmental scientists. They all enjoy transforming neglected assets to resources in optimal operating condition. Below is an example of a poorly maintained bio-retention basin recently rectified by the Urban Asset Solutions Pty Ltd team.
Urban Asset Solutions Pty Ltd is very pleased to be an approved supplier to the Redland City Council. Currently Urban Asset Solutions Pty Ltd manages over 300 stormwater assets for the Council under a fixed term contract, consisting of both hard and soft WSUD assets including:

- 37 Wetlands;
- 46 Sediment Basins;
- 40 Grassy Swales;
- 42 Bioretention Systems;
- 80 Trash Racks;
- 5 Net Tech Systems; and
- 71 Proprietary GPTs.

We are responsible for regularly monitoring and maintaining these assets (monthly maintenance program) and reporting daily to Council using Asset Edge software. Asset Edge enables us to provide Council with real time reports and photographs of site conditions, inspections and works completed with a simple to use interface for use in both the field and office environment.

Our scope of works consists of general system monitoring, reporting and maintenance services including repairing erosion, unblocking inlets and outlets, removing litter and debris, managing and controlling weeds, algae or moss growth, planting and reporting on rectification works and undertaking scheduled GPT cleans by vacuum or crane truck method to ensure all managed assets are performing to their intended specification and are safe and aesthetically pleasing.

Working together for a positive outcome
Urban Asset Solutions Pty Ltd recently completed rectification works across two bio-detention basins on behalf of Aquila Body Corporate Management Pty Ltd at their premier Villa World residential estate. Works involved the removal of the existing turf, media rejuvenation and extensive planting along with ongoing monitoring and maintenance to rejuvenate these basins to a natural aesthetically pleasing condition.
12.4 Water Body Maintenance

Urban Asset Solutions Pty Ltd recently completed algae bloom eradication works at Sovereign Waters Residential Estate thereby significantly improving the quality and aesthetics of the water body.

Birkdale Road Sovereign Waters

Sedimentation Pond - Algae removal works. Before, during and after photos.
12.5 Swale Rectification Works

Scheduled maintenance of your vegetated stormwater asset is critical to its long term performance. Swales, if appropriately designed and maintained as part of a water sensitive urban design can be an attractive, functional stormwater amenity. However, vegetated stormwater assets are often implemented without maintenance considerations and ultimately this will result in costly rectification works to reinstate the asset to its designed operational condition.

Urban Asset Solutions Pty Ltd was recently engaged to audit and then rectify a poorly performing swale. Terrestrial weeds had overgrown the system reducing its capacity and overall performance. Further, it was aesthetically unpleasing and a risk to public safety.

Extensive rectification works were necessary to rejuvenate the asset and included:

- Extensive weed management;
- Embankment stabilisation and profiling works;
- Inlet scouring protection improvement works;
- Water level management;
- Litter and debris removal;
- Comprehensive planting with appropriate species for the environment.

After the conclusion of the rectification works, Urban Asset Solutions Pty Ltd is undertaking on behalf of its client, regular scheduled maintenance activities. Although the swale is still in its establishment phase following the completion of the works, there is already a noticeable improvement in the appearance and performance of the asset.
Urban Asset Solutions Pty Ltd was engaged to rectify a problematic embankment at the RCC Cricketers Club. The embankment surrounding a constructed wetland was weed infested and unsightly. As it was a high profile site within a well-used public sporting amenity, Council wished to rectify the problem providing a natural, low maintenance aesthetically pleasing environment.