

Stormwater Management Plan

Adaptive Reuse of the Former Berrima Gaol: 2 - 4 Argyle Street, Berrima
NSW



Final Report

P2410244JR02V01

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Prepared for Blue Sox Group

environmental science & engineering

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1 Introduction

1.1 Overview and Scope

Martens & Associates Pty Ltd (**MA**) have prepared this Stormwater Management Plan (**SMP**) to support a State Significant Development Application (**SSDA**) for a proposed hotel and tourist facility at 2 – 4 Argle Street, Berrima NSW (the **site**). The site is located within the Wingecarribee Shire Council (**WSC**) Local Government Area (**LGA**).

MA was engaged to provide an assessment of the effects of the proposed development in relation to stormwater quality and quantity, and to prepare a stormwater management plan to mitigate any potential adverse impacts.

1.2 Planning Secretary's Environmental Assessment Requirements

The SMP addresses part of Key Issues 13 and 14 of the Planning Secretary's Environmental Assessment Requirements (**SEARS**) for SSD-66876472.

The relevant requirements of each Key Issue discussed in the report are provided below:

Key Issue 13: Ground and Water Conditions

- Provide of a Surface Water Impact Assessment that assesses potential impacts on:
 - Surface water resources (quality and quantity) including related infrastructure, hydrology, dependent ecosystems, drainage lines, downstream assets, and water courses.

Key Issue 14: Water Management

- Provide an Integrated Water Management Plan for the development that:
 - Is prepared in consultation with the local council and any other relevant drainage or water authority.
 - Details the proposed drainage design (stormwater) for the site including any reuse, detention facilities and water quality management measures and nominated discharge points.
 - Demonstrates compliance with the local council or other drainage or water authority requirements and avoids adverse downstream impacts.
- Where water and drainage infrastructure works are required that would be handed over to the local Council, or other drainage or water authority, provide full hydraulic details and detailed plans and specification of proposed works that have been prepared in consultation with, and comply with the relevant standards of, the local council or other drainage or water authority.

1.3 Site Description

A brief description of the site is provided in Table 1.

Table 1: Site description summary.

Item	Description
Address	2 - 4 Argyle Street, Berrima, NSW
Lot / DP	Lot 102 DP1283819
Site Area	Approximately 18,969 m ²
Local Government Area (LGA)	Wingecarribee Shire Council
Current Land Use	Vacant Correctional Centre
Current Zoning	SP1 Correctional Centre
Site Description	A former gaol covers a large portion of the site adjacent the north boundary. Ancillary structures also remain onsite, including two cottages adjacent to the east boundary and a shed adjacent to the northwest boundary. The remainder of the site is primarily grassed with several small sheds and structures on the site along with two driveways.
Surrounding Land Uses	Low density residential to the north and south, mixed use to the east and Wingecarribee River to the west.
Topography	Site generally slopes towards the Wingecarribee River to the west. The average grade of the site is 7%, with site elevations of approximately 647 mAHD at the southwestern boundary rising to approximately 661 mAHD at the northeast site boundary.
Existing Site Drainage	The site generally drains via overland flow to the west. There are existing pipe and pipe networks and constructed overland flow channels which traverse the site which have largely fallen into disrepair.

1.4 Proposed Development

The proposed development includes:

- A hotel within the former gaol site, featuring parking, a function centre, restaurant, café, bar, and other tourism-related facilities.
- The two existing dwellings located at the front of the gaol site will be repurposed to support hotel operations.
- Provision of stormwater quality treatment devices, rainwater collection tanks, and a below ground tank for onsite storage.
- Provision of a stormwater conveyance network by way of a pit and pipe system.
- Upgrades to Wingecarribee Street will include road widening, formalised swales on verges, and the establishment of a designated discharge location for stormwater runoff.

1.5 Relevant Guidelines

This report has been prepared in accordance with the following guidelines and policies:

1. State Environmental Planning Policy (Biodiversity and Conservation) 2021 (**SEPP BC**).
2. WaterNSW, Using MUSIC in Sydney Drinking Water Catchment 2023 (**UMSDW**)
3. Wingecarribee Shire Council, Berrima Village Development Control Plan 2021 (**DCP**).
4. Wingecarribee Shire Council, Engineering Design Specification D09 Stormwater Drainage (design) 2021 (**EDSD**).

2 Stormwater Quantity Assessment

2.1 Stormwater Management Requirements

Section A4.5 of the Berrima DCP requires the SMP to demonstrate that that post development flows do not exceed pre development flows.

2.2 Stormwater Quantity Modelling Methodology

2.2.1 Overview

DRAINS hydrological and hydraulic modelling package was used with the ILSAX engine to determine onsite detention (**OSD**) requirements for the proposed development to ensure peak post development discharge is less than or equal to peak pre development discharge for the site.

2.2.2 Approach

Sizing of the OSD was completed through iterative modelling to achieve compliance with site requirements. Modelling was undertaken for the following storms to ensure the critical discharge for each storm did not exceed the pre development site discharge (for durations ranging from 5 minutes to 4.5 hours):

- 20% AEP
- 10% AEP
- 5% AEP
- 2% AEP
- 1% AEP

2.2.3 Rainfall data

Intensity Frequency Duration (**IFD**) parameters were obtained from the Bureau of Meteorology (**BOM**) and storm temporal patterns from the AR&R 2019 datahub.

2.2.4 Inputs Parameters

ILSAX parameters for all catchments as shown in Table 2.

Table 2: DRAINS hydrological parameters.

Parameter	Element	Value
ILSAX parameters	Impervious area depression storage (mm)	1.0
	Supplementary area depression storage (mm)	1.0
	Grassed area depression storage (mm)	5.0
	Soil Type	3
	Antecedent Moisture Condition (AMC)	3

2.2.5 Catchments Area

2.2.5.1 Pre development catchment

The existing catchment for the site was delineated based on the site survey conducted by SDG Ptd Ltd.

2.2.5.2 Post development catchment

The post development catchment breakdown was delineated using the site layout produced by Turner and the concept civil works by MA (refer to drawing PS01-E600 in Appendix A).

2.3 Water Quantity Results

An onsite detention tank, with a storage volume of 200 m³, has been modelled to limit post development peak discharge to pre development levels (for storms from the 20% AEP to the 1% AEP). A summary of the results is provided in drawing PS01-E600 in Appendix A.

2.4 Conclusion

DRAINS modelling confirms that the proposed OSD system is sufficient to meet the adopted stormwater quantity objectives. For details on the sizing, location, and cross section of the proposed system, refer to sheets PS01-E100 and PS01-E200 in Appendix A.

Further refinement of the models at the detailed design stage may alter the size and locations of the proposed OSD system. However, compliance with requirements documented in this report should be maintained.

3 Stormwater Quality Assessment

3.1 Water Quality Requirements

Clause 6.61 of SEPP BC requires that development within the Sydney Water Drinking Water Catchment must have a neutral or beneficial (**NorBE**) impact on water quality.

In accordance with Section 2.4.2 of Using MUSIC in Sydney Drinking Water Catchment (2023) guideline, the following criteria must be satisfied to demonstrate NorBE:

1. Minimum 10% improvement in Total Suspended Solids (**TSS**), Total Phosphorous (**TP**), and Total Nitrogen (**TN**) loads compare to pre development conditions.
2. For Gross Pollutants (**GP**), maintain pollutant loads equal to or less than the pre development case.
3. Ensure pollutant concentration for TP and TN are equal to or better than the pre development case in the 50th and 98th percentiles.

3.2 Water Quality Modelling Methodology

3.2.1 Overview

The Model for Urban Stormwater Improvement Conceptualisation (**MUSIC**, Version 6.3), developed by the CRC for Catchment Hydrology, was used to evaluate the pre and post development pollutant generation from the site.

3.2.2 Approach

To determine whether the proposed development is able to achieve the NorBE requirements, the following modelling scenarios were considered:

- **Pre development:** The existing site was modelled to determine baseline pollutants generation rates for TSS, TN, TP and GP.
- **Post development (treated):** The developed site with water quality improvement devices to achieved stormwater quality requirements.

An iterative approach was used to determine appropriate types, sizes and locations of stormwater treatment devices to achieve water quality requirements. The following scenarios were considered:

3.2.3 Climate Data

Rainfall data was determined based on the zones specified in Figure 3.1 of the UMSDW. The site is located within Zone 3 and the meteorological template file for this area was adopted.

3.2.4 Input Parameters

Input parameters for source nodes are consistent with the UMSDWC guideline, these being summarised in Appendix B. All pollutant generation was modelled using stochastic estimation method.

3.2.5 Catchments Area

3.2.5.1 Pre development catchment

The existing catchment for the site was delineated based on the site survey conducted by SDG Ptd Ltd.

3.2.5.2 Post development catchment

The post development catchment breakdown was delineated using the site layout produced by Turner and the concept civil works by MA (refer to drawing PS01-E700 in Appendix A).

3.3 Treatment Train Philosophy

The stormwater quality treatment strategy uses a combination of at source and end of line treatments to achieve stormwater quality requirements. Individual stormwater quality improvement devices are outlined in the following section and include:

1. **Atlan Ecoceptor GPT:** Proposed to provide primary treatment removing large debris and sediments, through physical screening, hydrodynamic separation, and sedimentation.
2. **AtlanFilters:** Proposed to provide tertiary stormwater treatment. The system provides treatment through sedimentation, filtration, absorption, and chemical filtration to remove nutrients, dissolved heavy metals, and fine particulates.
3. **Rainwater tanks:** Proposed for the capture, storage, and reuse of roof runoff for irrigation of landscaped areas. Expected reuse requirements are approximately 1750 kL/year, as calculated and advised by ADP Consulting.

The modelled efficiency of all stormwater quality improvement devices is based on the manufacturer's specifications for WaterNSW. Refer to drawings PS01-E100 (in Appendix A) for the location of the proposed treatment measures.

3.4 MUSIC Results

The proposed treatment train has been modelled to ensure the development has a neutral or beneficial outcome on the receiving environment. A summary of the results demonstrating that the NorBE criteria are met is provided in drawing PS01-E701 in Appendix A.

3.5 Conclusion

The MUSIC modelling confirms that adopted stormwater quantity objectives will be met by the proposed treatment train, which includes:

1. Rainwater tanks.
2. Gross pollutant traps.
3. Atlan filter units.

For details on the sizing and location of the proposed system, refer to sheets PS01-E100 and PS01-E200 in Appendix A.

Further refinement of the model at detailed design stage may alter the size and/or location of treatment devices. However, compliance with requirements documented in this report should be maintained.

4 Stormwater Operational Management Plan

The inspection and maintenance works summarised in Table 3 below are recommended to maintain serviceability of stormwater drainage infrastructure across the site.

Inspection and maintenance works are to be carried out when rainfall is neither forecast nor expected. Rainfall can cause drainage systems (especially OSD structures) to quickly become inundated and hazardous. If rainfall occurs it is recommended inspection and maintenance works be ceased.

Separate operation and maintenance manuals for the proposed AtlanFilter and Atlan Ecoceptor are included in Appendix C.

Table 3: Maintenance Schedule

Maintenance Action	Frequency	Procedure
OSD Discharge Control Pit		
Inspect & remove blockage of orifice	Six monthly	Remove grate & screen to inspect orifice.
Check attachment of orifice plate to wall of pit (gaps less than 5 mm)	Annually	Remove grate & screen. Ensure plate is mounted securely, tighten fixings if required. Seal gaps as needed.
Check orifice diameter correct and retains sharp edge	Annually	Compare diameter to design (see Work-as-Executed) and ensure edge is not pitted or damaged.
Inspect screen and clean	Six monthly	Remove grate and screen if required to clean it.
Check attachment of screen to pit wall	Annually	Remove grate and screen. Ensure screen fixings are secure. Repair as required.
Check screen for corrosion	Annually	Remove grate and examine screen for rust or corrosion, especially at corners or welds.
Inspect overflow weir & remove any blockage	Six monthly	Remove grate and open cover to ventilate storage. Ensure weir is clear of blockages.
Inspect DCP walls (internal and external, if appropriate) for cracks or spalling	Annually	Remove grate to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as needed.
Inspect DCP sump & remove any sediment/sludge	Six monthly	Remove grate and screen. Remove sediment/sludge build-up and check orifice and flap valve are clear.
Inspect grate for damage/blockage	Six monthly	Check both sides of the grate for corrosion, (especially corners and welds) damage or blockage.
Inspect return pipe from storage & remove blockage	Six monthly	Remove grate and screen. Ventilate storage. Open flap valve and remove any blockage. Check for debris/sludge on upstream side of return line.
Inspect outlet pipe & remove blockage	Six monthly	Remove grate and screen. Ventilate storage. Check orifice and remove any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for sludge/debris on upstream side of return line.
Check step irons for corrosion	Annually	Remove grate. Examine step irons for corrosion or damage.
Check fixing of step irons is secure	Six monthly	Remove grate and ensure fixings are secure before placing weight on step iron.
OSD Storage		
Inspect return pit & remove sediment/sludge in pit	Six monthly	Remove grate and screen. Remove sediment/sludge build-up.

Maintenance Action	Frequency	Procedure
Inspect internal walls of return pit for return pit (and external, if appropriate) for cracks or spalling	Annually	Remove grate to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as needed.
Inspect & remove any debris/litter blocking grates of return pit	Six monthly	Remove blockages from grate and check if pit is blocked.
Inspect storage areas & remove debris/mulch/litter etc likely to block screens/grates	Six monthly	Remove debris and floatable material likely to be carried to grates.
Inspect storages for subsidence near pits	Annually	Check drainage lines and pits for subsidence indicating leakages.
Pit, Pipe & Gutter System		
Inspect gutters and remove any debris/sludge	Annually	Remove any leaves or debris and sludge from gutters of building and flush downpipes of building to remove any blockages. Pits downstream of downpipes to be cleaned of flushed debris.
Check that all grates and covers are in sound condition and are undamaged.	Annually	Any signs of deterioration should be noted. Allow for replacement if required.
Check all piped drainage system.	Annually	Removal of foreign material to be undertaken in stages: 1. Open all grates and covers to ensure clear access is gained to upstream and downstream pipes. 2. Using a timber board or similar means, block off the outlet pipe from the downstream pit to prevent sediment from discharging further down the system. 3. Flush the accumulated material from upstream pits and pipes to the downstream end. 4. Collect associated debris and foreign material. 5. At the completion of the work the access grates and covers should be closed ensuring that all locking devices are securely in place.
Rainwater Tank		
Inlet screen cleaned	6 monthly	Remove leaf litter, dirt, and other debris from the inlet screen. Ensures unblocked flow and prevents sediment build-up inside the tank.
First flush diverter checked and flushed	6 monthly	Inspect the first flush system for sediment and clogs. Remove and flush out accumulated debris. Replace any worn or faulty parts where required
Tank integrity checked	Annually	Check external and internal surfaces of the tank for signs of rust, cracks and leaks. Make repairs where required.

Maintenance Action	Frequency	Procedure
Pump tested and electricals checked	6 monthly	Turn on pump to ensure it activates and maintains consistent pressure. Inspect for noise, leaks, or faults in wiring or connections. Service or replace as necessary.
Clean overflow weir	6 monthly	Check that water can freely overtop the weir unobstructed. Remove any debris from weir.
Sediment level checked and removed	6 monthly	Inspect the bottom of the tank for sediment build up. If sediment depth is excessive, arrange for professional cleaning (typically every 2–3 years).

Appendix A – Concept Civil Works

Refer to concept civil engineering drawings by Martens and Associates (document reference: P2410244PS01).

Appendix B – Summary of MUSIC input parameters

Table 4: MUSIC modelling parameters.

Parameter	Description	Input	Reference
Setup	Climate File	Zone 3	Using MUSIC in Sydney Drinking Water Catchment (2023)
Source Nodes	Node Type	Site modelled as roof, mixed and road land uses.	Using MUSIC in Sydney Drinking Water Catchment (2023)
	Rainfall Threshold	0.3-1.5 mm depending on source node land use.	Using MUSIC in Sydney Drinking Water Catchment (2023)
	Pervious Area Properties	Consistent with Table 4.4 and Table 4.5 from Using MUSIC in Sydney Drinking Water Catchment (2023)	Using MUSIC in Sydney Drinking Water Catchment (2023)
	Base & Storm flow Parameter	Consistent with Table 4.6 and Table 4.7 from Using MUSIC in Sydney Drinking Water Catchment (2023)	Using MUSIC in Sydney Drinking Water Catchment (2023)
	Estimation Method	Stochastically generated	Using MUSIC in Sydney Drinking Water Catchment (2023)
Rainwater Tank	Low Flow Bypass	0 m ³ /s	By design
	High Flow Bypass	100 m ³ /s	By design
	Surface Area	7.5 m ²	By design
	Depth Above Overflow	0.20 m	By design
	Volume Below Pipe	15 kL	By design
	Initial Volume	0 kL	By design
	Overflow Pipe Diameter	300 mm	By design
	Reuse	1750 kL/yr	As advised by ADP Consulting.
Atlan Ecoceptor GPT (Series 4000)	Low Flow Bypass	0 m ³ /s	Manufacturer specifications
	High Flow Bypass	60 L/s	Manufacturer specifications
	Pollutant reduction	Per manufacturer's specifications	Manufacturer specifications
Atlan Filter Vault	Low Flow Bypass	0 m ³ /s	Manufacturer specifications
	High Flow Bypass	100 L/s	Manufacturer specifications
	Surface area	15.0 m ²	Manufacturer specifications
	Extended detention depth	0.85 m	Manufacturer specifications
	Exfiltration rate	0 mm/hr	Manufacturer specifications
	Evaporative loss as % of PET	0%	Manufacturer specifications

Parameter	Description	Input	Reference
	Low flow pipe diameter	153 mm	Manufacturer specifications
	Overflow weir width	2 m	Manufacturer specifications
Atlan Filter Cartridges (x15)	Low Flow By-Pass	0 m ³ /s	Manufacturer specifications
	High Flow By-Pass	45 L/s	Manufacturer specifications
	Pollutant reduction	Per manufacturer's specifications	Manufacturer specifications

Appendix C – Operation and Maintenance Manuals

OPERATION & MAINTENANCE MANUAL

Ecoceptor



atlan.com.au

Atlan
STORMWATER



INTRODUCTION

The Atlan Ecoceptor is a hydrodynamic in-line Gross Pollutant Trap (GPT) that has a unique treatment action producing low velocity conditions producing discharge water quality outcomes complying to statutory guidelines across Australia.

It separates and captures sediments, silt, total suspended solids, and oil and grease. Oil & grease rise to the “oil-capture” zone of the treatment chamber and are contained in all flow events.

Areas with a high fraction of impervious surfaces, including car parks, ports, streetscapes, roads, subdivisions and industrial estates that require stormwater treatment are ideal for the Atlan Ecoceptor. MUSIC node is available on request.

The one-piece, self-contained fibreglass construction, is lightweight and yet robust in strength making it simple and cost-effective when performing installations.

The Atlan Ecoceptor is delivered to site fully assembled saving on installation time and crane costs. The Atlan Ecoceptor fibreglass GPT can be installed in all types of trafficable zones, including vehicular truck (Class D).

The cylindrical shape of the Atlan Ecoceptor with its sloped cone-configured base ensures sediment accretes at the centre of the Ecoceptor’s base facilitating easy and simple cleaning.

The poly/fibreglass construction ensures that oil and grease are removed without sticking to the sides of the internal walls.

Flow rates on standard units of up to 1400 LPS and can fit pipe sizes from 225mm to 1200mm (other sizes available on request).

MAINTENANCE



INSPECTION AND CLEANING

The regularity of inspections of the Atlan Ecoceptor is contingent on the features and properties of the catchment area.

Atlan recommends inspection of the Ecoceptor one month after installation to determine the volume of trapped silt and pollutants.

Information sourced can be useful in factoring the frequency of on-going inspections or cleaning operations.

In the event of excessive rain or an oil spill, an inspection is recommended immediately.

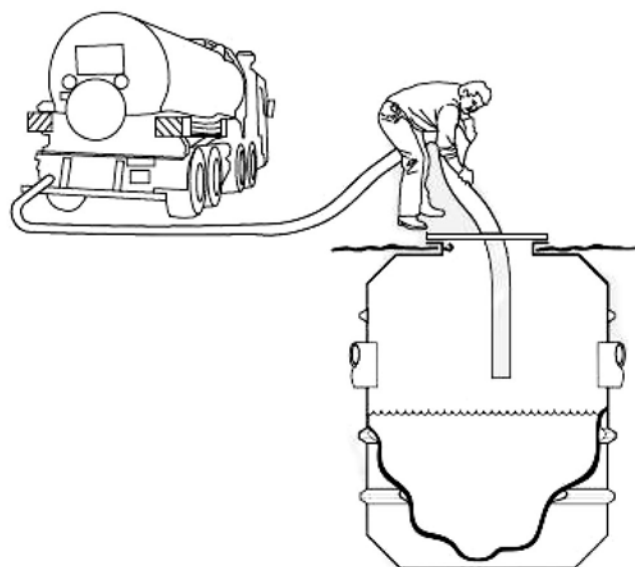
Ascertain silt depth and if build-up is evident, then a vacuum-loader truck should be engaged for the cleaning of the tank.

Atlan Ecoceptor cleaning procedure is simple, by simply lifting the external lid (two persons may be required), resting it securely in a safe manner and then inserting suction hose into the chamber.

Ensure that the chamber is thoroughly cleaned of all refuse and debris before accessing the chamber - if required.

The chamber is cleaned by inserting the suction hose through the manhole at ground level.

Always commence cleaning from the inlet side of the chamber and ensure on completion of the cleaning operation that the lid is secured to its normal position (and locked if necessary) before departing the site.



IMPORTANT

Atlan Environmental takes safety seriously and recommends that prior to the entry of any of its devices, that maintenance personnel undertake relevant safety checks and use appropriate safety equipment. Atlan devices are considered confined spaces and should only be entered by appropriately trained and certified personnel with the necessary safety equipment.



Ecoceptor 1500 SERIES

SELECTION CHART

Weight approximately 300kg each

MODEL	E/151515	E/152222	E/153030	E/153737	E/154545
Inlet (mm)	150	225	300	375	450
Outlet (mm)	150	225	300	375	450
Invert Level* (mm)	700	700	700	800	800
Overall Height* (mm)	1950	1950	1950	1950	1950
Internal Diameter (mm)	1520	1520	1520	1520	1520
Manhole Opening (mm)	600 x 600	600 x 600	600 x 600	600 x 600	600 x 600
Manhole Quantity	1	1	1	1	1
Max Silt Capacity (Litre)	1200	1200	1200	1200	1200
Max Hydrocarbon Capacity (Litre)	1200	1200	1200	1200	1200
Max Capacity (Litre)	3000	3000	3000	3000	3000

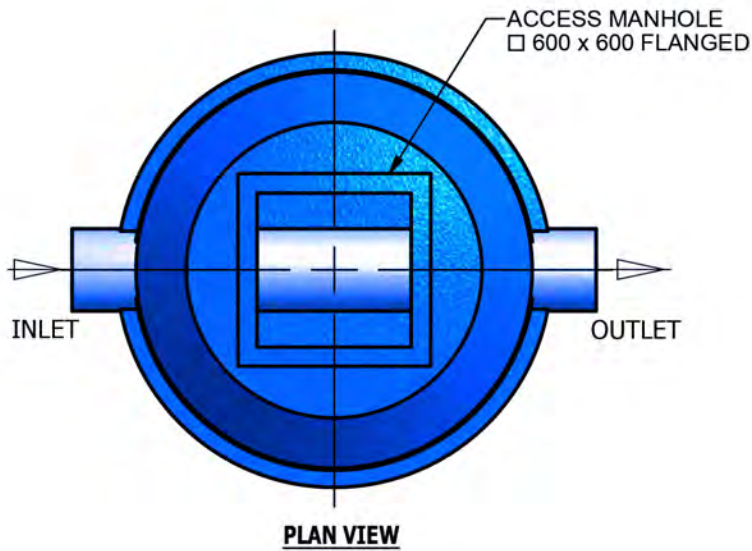
Atlan Stormwater accepts no responsibility for any loss or damage resulting from any person acting on this information. The details and dimensions contained in this document may change, please check with Atlan Stormwater for confirmation of current specifications.

*Height does not include lid.

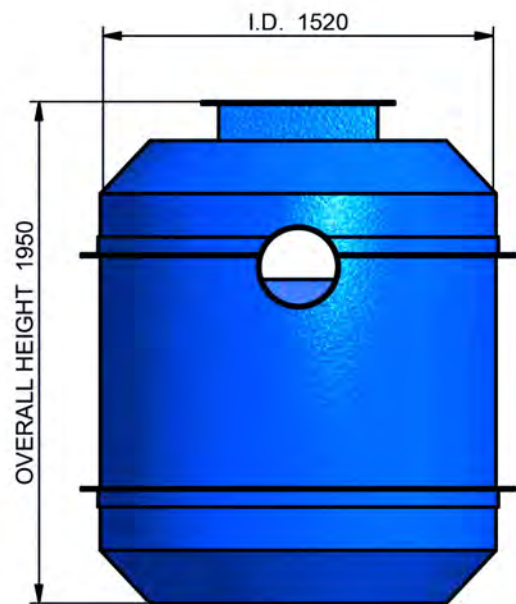
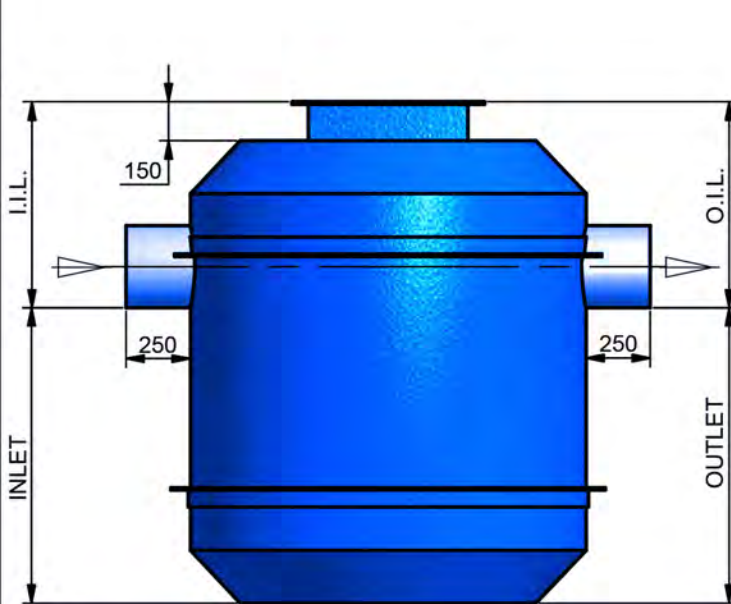
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1



NOTE:
RCP TYPE COLLARS AVAILABLE



ELEVATION VIEW

SIDE VIEW

TOLERANCE: ALL DIMENSIONS 10mm UNLESS OTHERWISE STATED.

ALL INTERCONNECTING PIPEWORK, PITS AND ASSOCIATED DRAINAGE BY OTHERS

Drawn P.Z.	Date 09-10-17
Check	Date
Verified	Date
Approved	Date
Request No. RN4643	

Atlan
STORMWATER

P 02 8705 0255 sales@atlan.com.au
100 Silverwater Rd,
Silverwater NSW 2128
atlan.com.au

PRODUCT :

1500 SERIES

TITLE

SCALE	N.T.S	SIZE	1	SHEET	1	REV	1
-------	-------	------	---	-------	---	-----	---

CUSTOMER CODE :	DWG No.	SP17-EC39160-P
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2



1

Ecoceptor 2000 SERIES

SELECTION CHART

Weight approximately 350kg each

MODEL	E/202222	E/203030	E/203737	E/204545
Inlet (mm)	225	300	375	450
Outlet (mm)	225	300	375	450
Invert Level* (mm)	800	800	800	800
Overall Height* (mm)	2200	2200	2200	2200
Internal Diameter (mm)	1520	1520	1520	1520
Manhole Opening (mm)	600 x 600	600 x 600	600 x 600	600 x 600
Manhole Quantity	1	1	1	1
Max Silt Capacity (Litre)	1200	1200	1200	1200
Max Hydrocarbon Capacity (Litre)	1200	1200	1200	1200
Max Capacity (Litre)	3500	3500	3500	3500

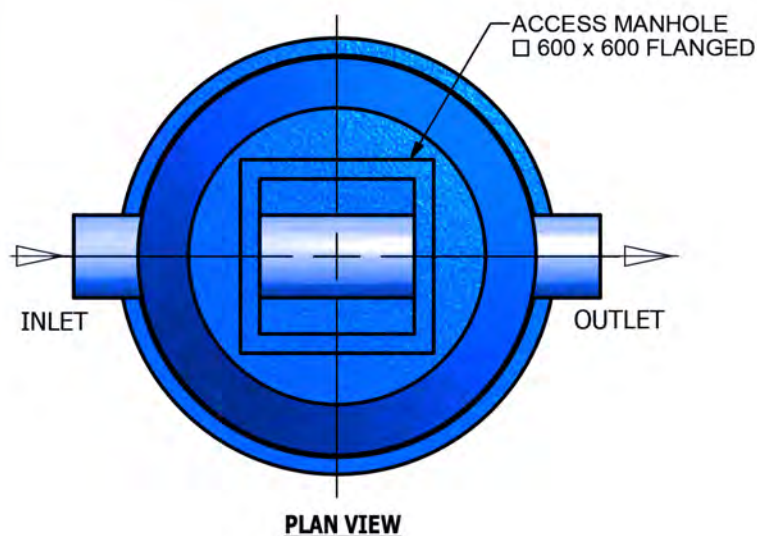
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*Height does not include lid.

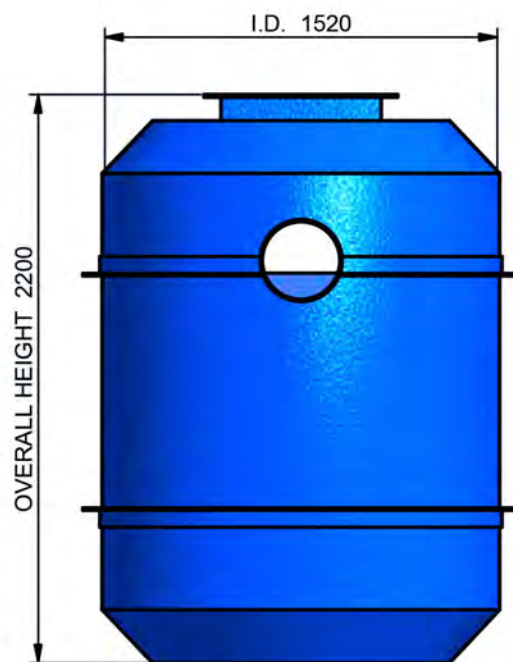
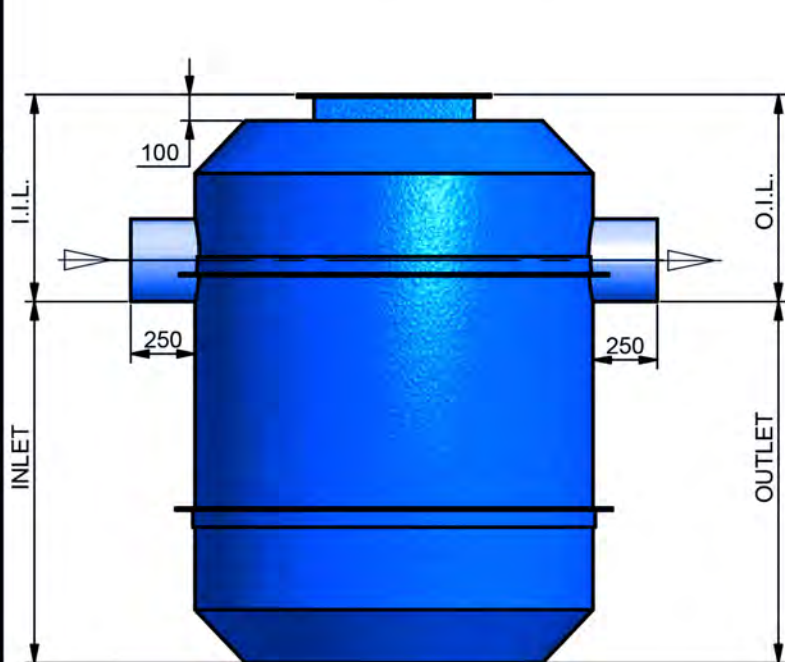
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1



NOTE:
RCP TYPE COLLARS AVAILABLE



TOLERANCE: ALL DIMENSIONS 10mm UNLESS OTHERWISE STATED.

ALL INTERCONNECTING PIPEWORK, PITS AND ASSOCIATED DRAINAGE BY OTHERS

Drawn P.Z.	Date 09-10-17
Check	Date
Verified	Date
Approved	Date
Request No. RN4643	

Atlan
STORMWATER

P 02 8705 0255 sales@atlan.com.au
100 Silverwater Rd,
Silverwater NSW 2128
atlan.com.au

PRODUCT :

2000 SERIES

TITLE

SCALE N.T.S	SIZE 1	SHEET 1	REV 1
CUSTOMER CODE :		DWG No. SP17-EC39160-P	

2



1

Ecoceptor 4000 SERIES

SELECTION CHART

Weight approximately 500kg each

MODEL	E/403737	E/404545	E/405252	E/406060
Inlet (mm)	375	450	520	600
Outlet (mm)	375	450	520	600
Invert Level* (mm)	1200	1200	1200	1200
Overall Height* (mm)	3000	3000	3000	3000
Internal Diameter (mm)	1800	1800	1800	1800
Manhole Opening (mm)	600 x 900	600 x 900	600 x 900	600 x 900
Manhole Quantity	1	1	1	1
Max Silt Capacity (Litre)	2500	2500	2500	2500
Max Hydrocarbon Capacity (Litre)	1500	1500	1500	1500
Max Capacity (Litre)	7000	7000	7000	7000

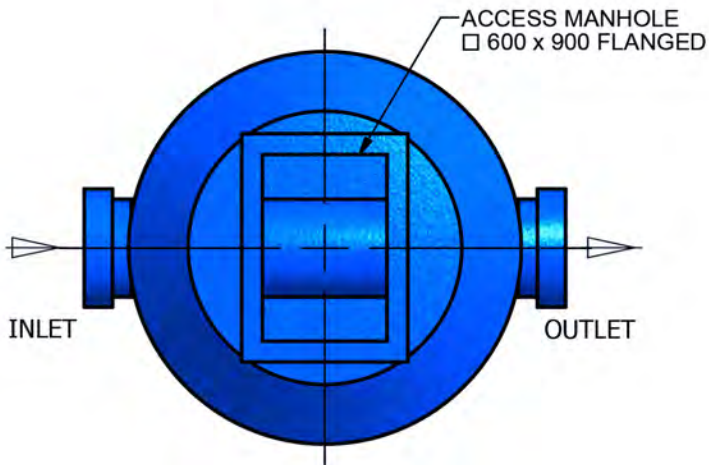
Atlan Stormwater accepts no responsibility for any loss or damage resulting from any person acting on this information. The details and dimensions contained in this document may change, please check with Atlan Stormwater for confirmation of current specifications.

*Height does not include lid.

2



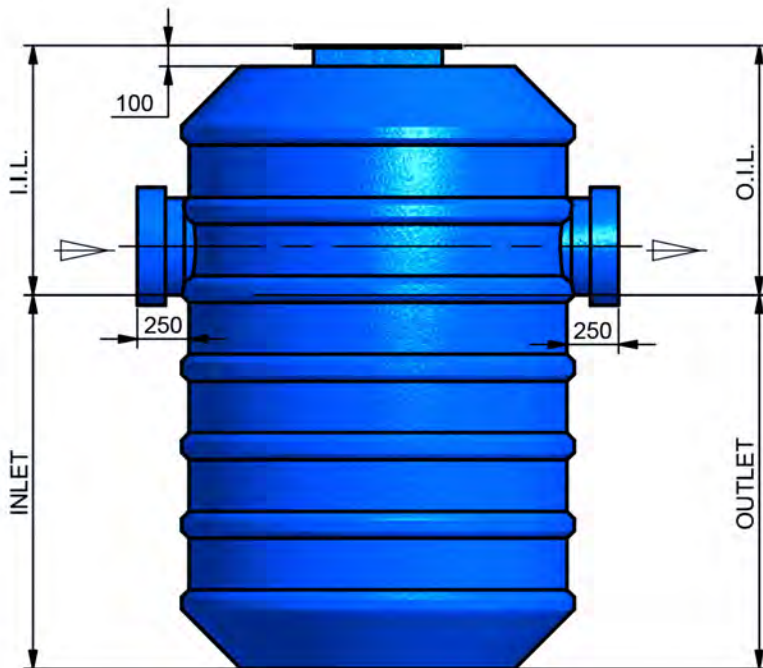
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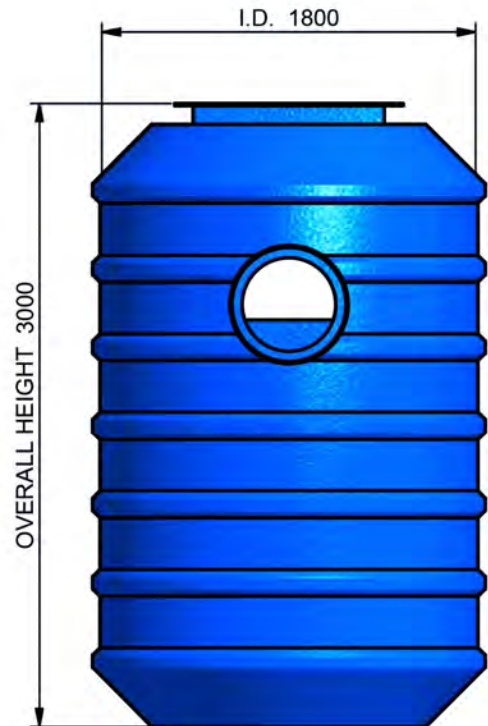
PLAN VIEW



ISOMETRIC VIEW



ELEVATION VIEW



SIDE VIEW

TOLERANCE: ALL DIMENSIONS 10mm UNLESS OTHERWISE STATED.

ALL INTERCONNECTING PIPEWORK, PITS AND ASSOCIATED DRAINAGE BY OTHERS

Drawn P.Z.	Date 10-10-17
Check	Date
Verified	Date
Approved	Date
Request No. RN4656	

Atlan
STORMWATER

P 02 8705 0255 sales@atlan.com.au
100 Silverwater Rd,
Silverwater NSW 2128
atlan.com.au

PRODUCT :

4000 SERIES

TITLE

SCALE N.T.S	SIZE 1	SHEET 1	REV 1
----------------	-----------	------------	----------

CUSTOMER CODE :

DWG No.

SP17-EC39280-P

2



1

Ecoceptor 6000 SERIES

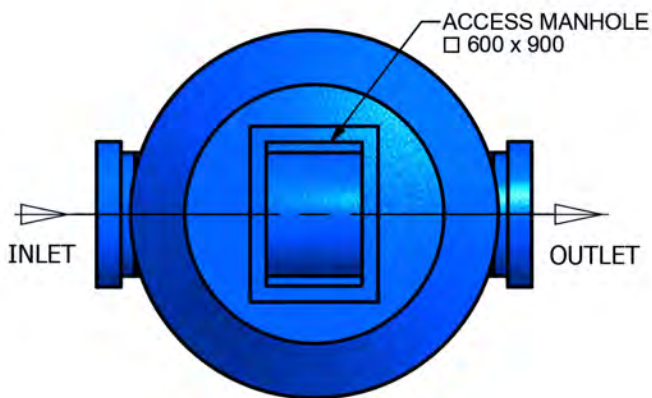
SELECTION CHART

Weight approximately 700kg each

MODEL	E/606767	E/607575	E/609090
Inlet (mm)	675	750	900
Outlet (mm)	675	750	900
Invert Level* (mm)	1400	1400	1400
Overall Height* (mm)	3300	3300	3300
Internal Diameter (mm)	2200	2200	2200
Manhole Opening (mm)	900 x 600	900 x 600	900 x 600
Manhole Quantity	1	1	1
Max Silt Capacity (Litre)	6000	6000	6000
Max Hydrocarbon Capacity (Litre)	2200	2200	2200
Max Capacity (Litre)	11500	11500	11500

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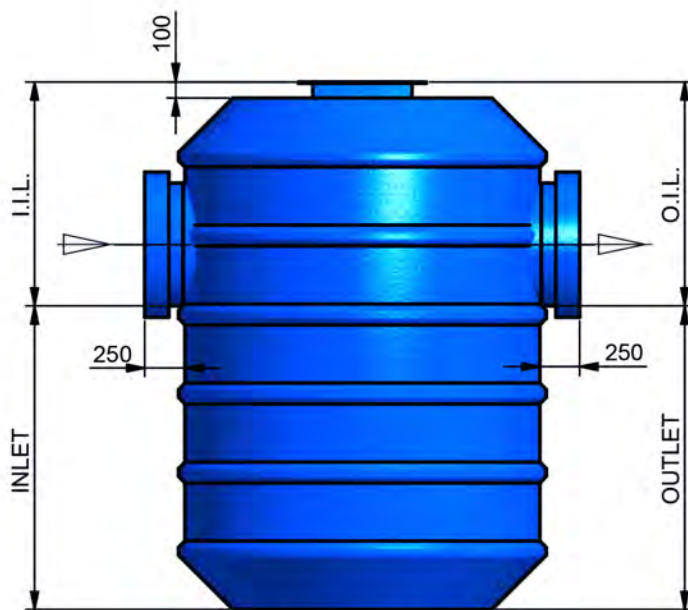
*Height does not include lid.



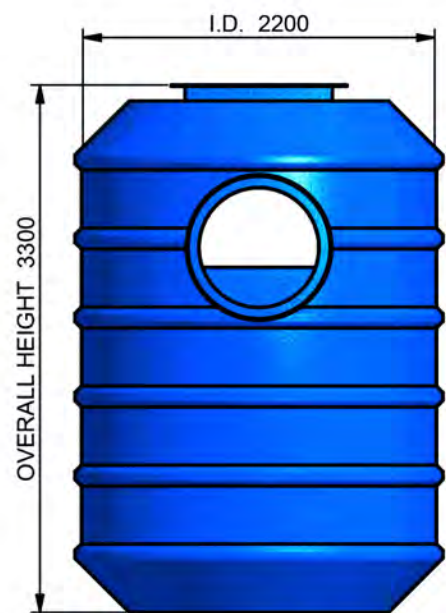
PLAN VIEW



ISOMETRIC VIEW



ELEVATION VIEW



SIDE VIEW

TOLERANCE: ALL DIMENSIONS 10mm UNLESS OTHERWISE STATED.

ALL INTERCONNECTING PIPEWORK, PITS AND ASSOCIATED DRAINAGE BY OTHERS

Drawn P.Z.	Date 10-10-17
Check	Date
Verified	Date
Approved	Date
Request No. RN4656	

Atlan
STORMWATER

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100 Silverwater Rd,
Silverwater NSW 2128
atlan.com.au

PRODUCT : 6000 SERIES			
TITLE			
SCALE N.T.S	SIZE 1	SHEET 1	REV 1
CUSTOMER CODE :		DWG No. SP17-EC39300-P	

Ecoceptor 8000 SERIES

SELECTION CHART

Weight approximately 1350kg each

MODEL	E.175.105105	E.185.135135	E.200.150150	E.8018090.BC
Inlet (mm)	1050	1350	1500	1800x800 BC
Maximum Treatment Flow (lps)	1750	1850	2000	-
Outlet (mm)	1050	1350	1500	1800x800 BC
Invert Level* (mm)	2400	2400	2400	1800
Overall Height* (mm)	4500	4500	4500	4500
Diameter (mm)	2480	2480	2480	2480
Manhole Opening (mm)	900 x 600	900 x 600	900 x 600	900 x 600
Manhole Quantity	2	2	2	2
Max Silt Capacity (Litre)	10,000	10,000	10,000	10,000
Max Hydrocarbon Capacity (Litre)	4200	4200	4200	4200
Max Capacity (Litre)	19,000	19,000	19,000	19,000

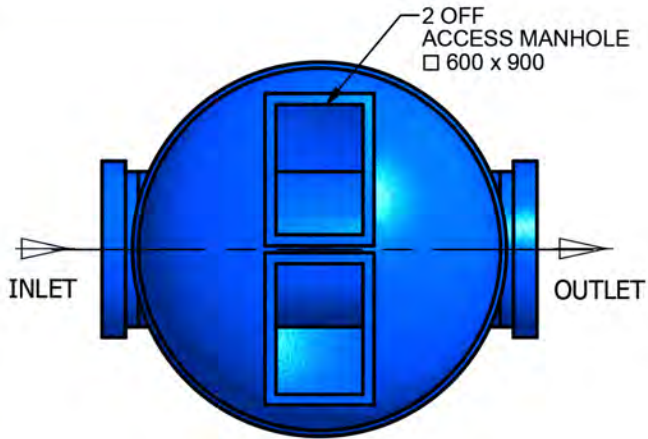
Atlan Stormwater accepts no responsibility for any loss or damage resulting from any person acting on this information. The details and dimensions contained in this document may change, please check with Atlan Stormwater for confirmation of current specifications.

*Height does not include lid.

2



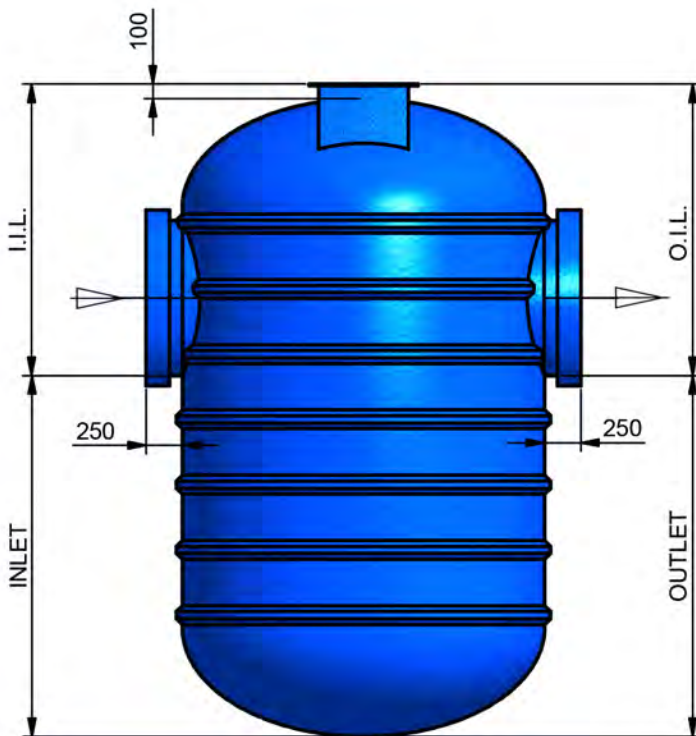
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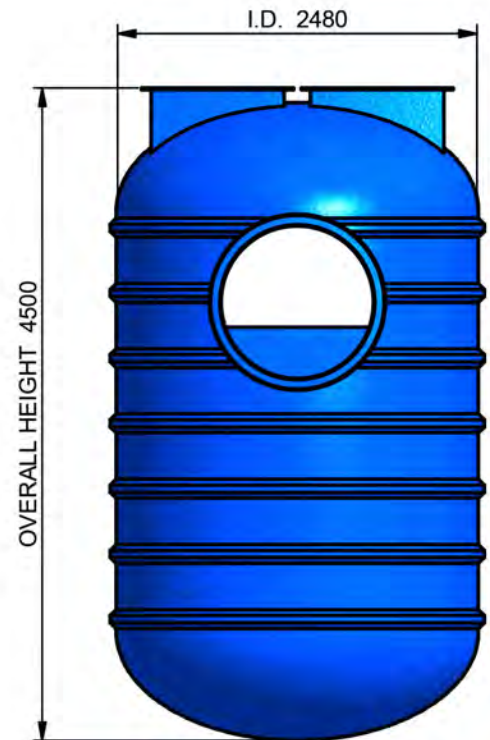
PLAN VIEW



ISOMETRIC VIEW



ELEVATION VIEW



SIDE VIEW

TOLERANCE: ALL DIMENSIONS 10mm UNLESS OTHERWISE STATED.

ALL INTERCONNECTING PIPEWORK, PITS AND ASSOCIATED DRAINAGE BY OTHERS

Drawn P.Z.	Date 22-03-18
Check	Date
Verified	Date
Approved	Date
Request No. RN1801	

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STORMWATER

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100 Silverwater Rd,
Silverwater NSW 2128
atlan.com.au

PRODUCT :

8000 SERIES

TITLE

SCALE	N.T.S	SIZE	1	SHEET	1	REV	1
-------	-------	------	---	-------	---	-----	---

CUSTOMER CODE :

DWG No.

SP18-EC10590-P

2



1

C:\Vault Working Folder\Designs\SP18\PRODUCTS\ECOCCEPTOR\8000 Series\SP18 BROCHURE DRAWING\SP18-EC10590-P.dwg

Joy in water

'We believe clean waterways are a right not a privilege and we work to ensure a joy in water experience for you and future generations.'

Andy Hornbuckle



Atlan
STORMWATER

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OPERATION & MAINTENANCE MANUAL

AtlanFilter

(Formerly SPELFilter)



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INTRODUCTION

Understanding how to correctly and safely maintain the AtlanFilter (formerly SPELFilter) is essential for the preservation of the filter's condition and its operational effectiveness. The AtlanFilter is a highly engineered stormwater filtration device designed to remove sediments, heavy metals, nitrogen and phosphorus from stormwater runoff.

The filters can be housed in either a concrete or fibreglass structure that evenly distributes the flow between cartridges.

Flow through the filter cartridges is gravity driven and self-regulating, which makes the AtlanFilter system a low maintenance, high performance stormwater treatment device.

This guide will provide the necessary steps that are to be taken to correctly and efficiently ensure the life of the AtlanFilter product.

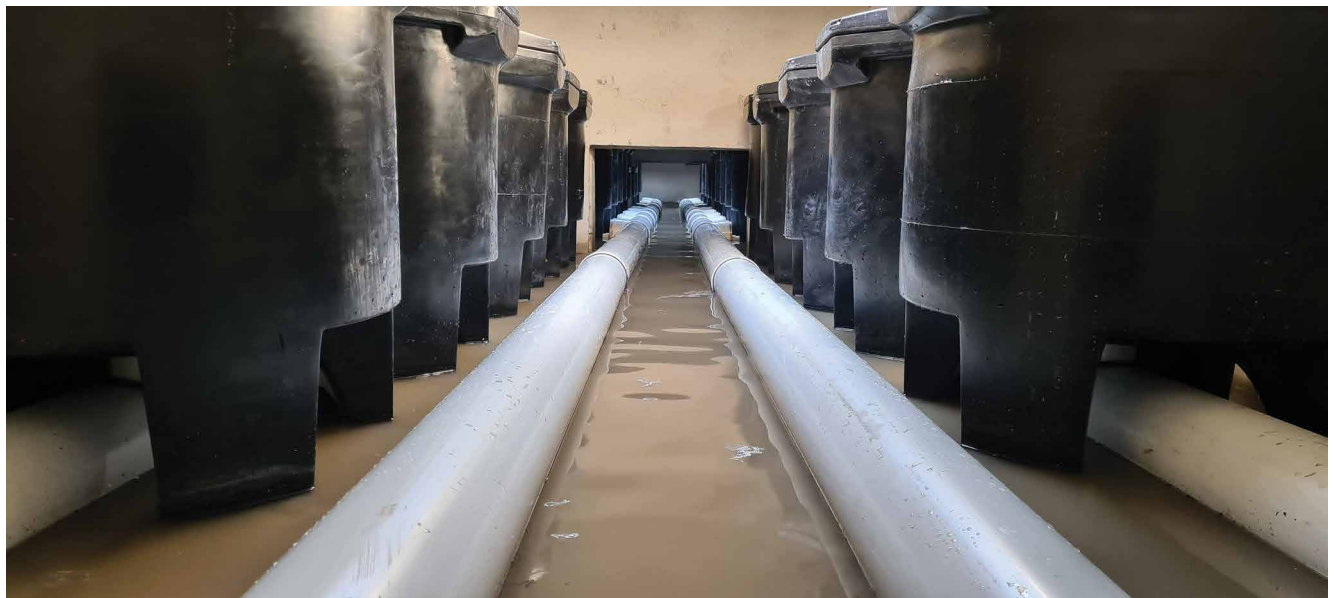


Figure 1 - AtlanFilters in a concrete chamber / vault

FEATURES

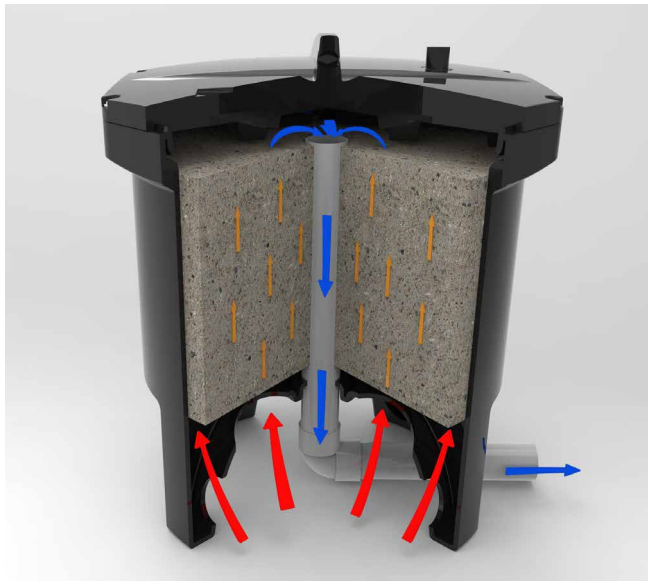


Figure 2 - Diagram of water flow through AtlanFilter

The AtlanFilter has a patented design that facilitates influent flow over the entire surface area of the media, providing consistent pollutant removal within a small footprint.

The AtlanFilter provides highly effective media filtration using gravity flow conditions, without the need for moving parts or floating valves. This eliminates the risk of mechanical failure, such as stuck valves and seizing components during its service life. This provides highly robust treatment performance.

Hydraulic head provided by a suitably sized weir in the filter vault forces stormwater through the filter media via the inlet ports underneath the filter cartridge.

Refer to the table below for minimum head required for the AtlanFilter cartridges to assist in sizing the weir.

The water to be treated enters the AtlanFilter cartridge via an upwards direction as the water level builds up around the AtlanFilter. This 'up flow' reduces the amount of sediment that could enter the media cartridge, as the sediment is allowed to drop to the vault floor under gravity. Any remaining sediment in the water is introduced through the filter media under hydraulic pressure and is filtered.

Water is filtered through the media, where dissolved and particulate Total Nitrogen and Total Phosphorus are removed via reaction with the media, in addition to the removal of Total Suspended Solids / sediment.

AtlanFilter Media Self-Backwash feature

A one-way air release valve located at the top of the filter cartridge allows air to escape as the cartridge fills up with water. This creates a siphonic flow condition as the air is completely evacuated from inside the AtlanFilter cartridge. Siphonic flow conditions are maintained until such time the water level outside of the cartridge falls beneath the inlet ports underneath the filter. At this moment, the water level inside the AtlanFilter cartridge is higher than the surrounding water level.

The water inside the AtlanFilter cartridge is then expelled upon the break of the siphon, and the water flows down and out of the inlet ports under gravity, onto the vault floor.

This is a highly effective backwash of the media and allows the expulsion of a high proportion of sediment out from the AtlanFilter media. The expelled sediment can be removed either manually or with a vacuum from the vault floor.

This backwash effect allows the media to remain highly conductive and is the key to the industry leading longevity of the AtlanFilter cartridge system, which does not need replacement for at least 5 years, and typically will achieve up to 6-8 years of service, subject to the AtlanFilter being regularly maintained in accordance with this guideline and in accordance with the specific needs of the catchment.



Figure 3 - Typical Outlet Weir Wall

FEATURES

Self Supporting Feet

Each AtlanFilter cartridge stands on 4 feet, which negates the need for the construction of a false floor in the vault. The feet are bolted to the vault floor with the supplied stainless steel angles and M10 bolts. The feet allow a clear height from the vault floor up to the inlet ports of 240mm. The absence of a false floor allows plenty of room for backwashed sediment to evacuate from underneath the cartridges and thereby avoid blocking the inlet ports to the AtlanFilter from sediment buildup. It is for this reason that Atlan recommended the sediment buildup not exceed 150mm above the vault floor, so as to avoid blocking the inlet ports of the AtlanFilter. Blockage of the inlet ports due to sediment accumulation in the vault floor will cause the AtlanFilter to go into bypass and be ineffective. Hence it is important to keep up to date with monitoring and maintaining the AtlanFilter vault.



Figure 4 - Bolting the feet.



Figure 5 - Underside of the AtlanFilter showing the screened inlet ports and the connection for the outlet pipe in the middle.



Figure 6 - the top of the AtlanFilter showing the location of the one way air valve.

SIZES

Atlan Stormwater manufactures two height cartridges for varying site constraints as shown below. Each cartridge is designed to treat stormwater at a flow rate of 1.5 litres per second and 3.0 litres per second for the half height cartridge (model no. FIL-1.5) and full-height cartridge (model no. FIL-3.0) respectively.

	Full Height FIL-3.0	Half Height FIL-1.5
AtlanFilter total height	860mm	660mm
AtlanFilter Diameter	740mm	740mm
Minimum Head required	850mm	550mm
Treatment flow rate	3.0 L/s	1.5 L/s
Height of inlet ports above vault floor	250mm	250mm
Filtered water collection pipe diameter	50mm	50mm

AtlanFilter Full Height - FIL-3.0



AtlanFilter Half Height - FIL1.5



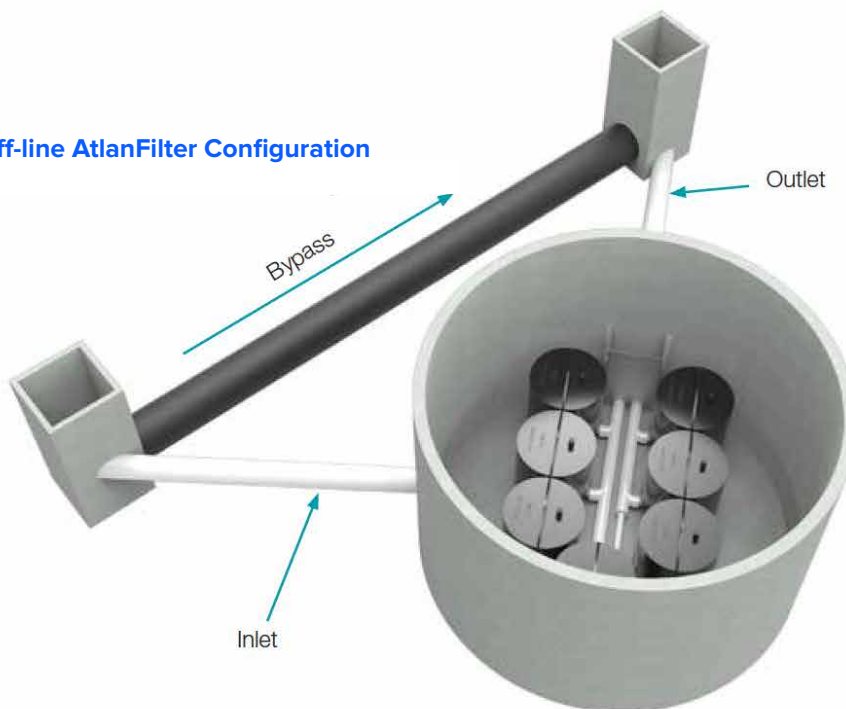
SYSTEM CONFIGURATION

AtlanFilter cartridges are installed in concrete or fibreglass tanks commonly referred to as 'vaults'. The vault selection and configuration are based on site characteristics and/or constraints; computational stormwater quality modelling; and selected AtlanFilter models. Typical AtlanFilter system configurations are shown below.

In-line AtlanFilter Configuration



Off-line AtlanFilter Configuration



HEALTH AND SAFETY

A. Personal health & safety

When carrying out the necessary installation operations of the AtlanFilter all contractors and staff personnel must comply with all current workplace health and safety legislation.

The below measures should be adhered to as practically as possible.

- Comply with all applicable laws, regulations and standards.
- All those involved are informed and understand their obligations in respect of the workplace health and safety legislation.
- Ensure responsibility is accepted by all employees to practice and promote a safe and healthy work environment.

B. Personal protective equipment/safety equipment

When carrying out the necessary installation operations of the AtlanFilter, wearing the appropriate personal protective equipment and utilising the adequate safety equipment is vital to reducing potential hazards.

Personal protective equipment / safety equipment in this application includes:

- Eye protection
- Safety apron
- Fluorescent safety vest
- Form of skin protection
- Puncture resistant gloves
- Steel capped safety boots
- Ear muffs
- Hard hat/s
- Sunscreen

C. Confined space

In the event access is required into the vault, confined space permits will be required which is not covered in this Guide. Typical equipment required for confined space entry include:

- Harness
- Gas detector
- Tripod
- Spotter

D. Traffic Control

It is not uncommon for Atlan Filter cartridges to be installed underneath trafficable areas. Minimum traffic control measures will need to be put in place in accordance with traffic control plans set out by respective local and state road authorities.



Vaults are to be treated as confined space.

Entry by permit only.



Monitor weather conditions prior to operation maintenance. Do not enter a vault during an episode of heavy rain as this can create a risk of drowning.



MAINTENANCE FREQUENCY

The AtlanFilter's design allows for a greater life span when frequently maintenance. Maintenance is broken up into three categories which include:

- Standard inspection
- General cleaning
- Cartridge replacement.

Standard Inspection

Standard inspections are conducted at regular four month intervals. At this time, an approved trained maintenance officer or Atlan representative shall undertake all measures outlined in Maintenance Procedure, Standard Inspection.

General Cleaning

At the end of each standard inspection, trigger measures will identify if general cleaning is required.

General cleaning will need to be executed immediate during standard inspections if the follow triggers are satisfied:

- Build-up of debris/pollutants within the vault greater than 150mm;
- Accumulation of debris/pollutants on the outlet chamber of the AtlanFilter vault;
- After large storm events, tidal or flooding impacts at the request of the owner;

Cartridge Replacement

Stormwater treatment is dependent on the effectiveness of the AtlanFilter cartridge system. As the AtlanFilter ages, pollutants will inundate the cartridge and ultimately reduce the treatment flow rate. At this point, a AtlanFilter flow test apparatus will be utilities to determine if replacement cartridges are required.

Based on the [site] concept modelling (MUSIC) and previous industry experience, we estimate the life of the AtlanFilter to be between 6 - 8 years. As a minimum requirement, each AtlanFilter cartridge should be replaced within 10 years.

The life cycle of the AtlanFilter can be impacted if standard inspections and general maintenance is not undertaken in accordance with this operation and maintenance Guide.

Other factors that will affect the above life cycle of the AtlanFilter include:

- Installation of cartridge system during construction phase and impacted by construction sediment loads;
- Neglecting to install pre-treatment using an industry approved GPT or a surface inlet pit trash bag such as the Atlan StormSack.
- Unforeseen environmental hazards affecting the AtlanFilter functionality.

MAINTENANCE PROCEDURES

Stormwater pollutants captured and retained by the AtlanFilter system need to be periodically removed to ensure environmental values are upheld. All associated maintenance works is heavily dependent on the site's operational activities and generated stormwater pollutants. To ensure the longevity of the installed AtlanFilter treatment system, it is imperative that the procedures detailed in this Guide are followed and all appropriate measures are actioned immediately.

Standard inspection

The standard inspection requires personal experience of Atlan products to visual inspection the vault and filter conditions.

Confined space requirements may not be required if a full inspection and assessment of each AtlanFilter can be achieved at surface level without being deemed a confined space entry.

The standard inspection requires personal experience of Atlan products to visual inspection the vault and filter conditions.

Confined space requirements may not be required if a full inspection and assessment of each AtlanFilter can be achieved at surface level without being deemed a confined space entry.

Site Inspection Procedures

1. Implement pre-start safety measures

Ensure that the area in which operational works are to be carried out is cordoned off, to prevent unauthorised access. Adequate safety barriers must be erected.

Area in which work is to be carried out must be clean, safe and hazard free. (Refer to figure 4.)

2. Set-up gantry tripod above manhole

Assemble and position the gantry above the manhole safely and as practically as possible. Attach the winch or chain block to the gantry for lifting the Atlan Filters.

Perform safety procedures ie. Attach harnesses etc. (if confined space).

3. Open manhole lid

Once you have set up the Gantry and ensured that the area is safe to operate in, you can proceed to open the manhole lid, using lid lifters.

4. Conduct gas tests

(If tank is classed confined space)

Once the lids have been removed to a safe distance to prevent tripping, you must then proceed to conduct gas tests. Perform necessary gas tests according to the confined space regulations.

5. Once confined space has been deemed safe to operate in, enter tank safely

Once you have carried out the required gas test and the work area is deemed safe, you may then enter the pit via a ladder or winch system to assess the work area you will be operating in. Ensure all confined space

6. AtlanFilter system assessment

Perform a review of the AtlanFilter system using the AtlanFilter assessment report/checklist. Sign off and forward a copy of the report to property manager and Atlan representative.

7. Reinstate AtlanFilter system and disposal

At the completion of the site inspection, ensure the site is reinstated back to its initial state and all pollutants are removed from the site in line with pollutant disposal procedures.

8. Sign off and forward a copy of the report to property manager and Atlan representative

GENERAL CLEANING

Vacuum out of Filter tank, removal, and disposal of pollutants at the completion of a standard inspection, general cleaning may be deemed necessary immediately or scheduled for a future date. Steps undertaken for general cleaning should be in general accordance with the procedure outlined below but not limited.

1. Implement pre-start safety measures

Ensure that the area in which operational works are to be carried out is cordoned off, to prevent unauthorised access. Adequate safety barriers must be erected.

Area in which work is to be carried out must be clean, safe and hazard free. (Refer to figure 4.)

2. Set-up gantry tripod above manhole

Assemble and position the gantry above the manhole safely and as practically as possible. Attach the winch or chain block to the gantry for lifting the AtlanFilters.

Perform safety procedures ie. attach harnesses etc. (if confined space).

3. Open manhole lid

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6. AtlanFilter system assessment

Perform a review of the AtlanFilter system using the AtlanFilter assessment report/checklist.

7. Pollutant removal from tank

Perform clean-up using a licenced vacuum truck contractor or wet/dry vacuum, depending on level of sediment built up and/or tank size.

8. Reinstate AtlanFilter system and disposal

At the completion of the site inspection, ensure the site is reinstated back to its initial state and all pollutants are removed from the site in line with pollutant disposal procedures.

9. Sign off and forward a copy of the report to property manager and Atlan representative

CARTRIDGE RECYCLING AND REPLACEMENT

AtlanFilter cartridges can be swapped out for new cartridges. The spent AtlanFilter cartridges can be collected from site and sent to Atlan Stormwater's facilities, where the spent media will be removed from the cartridge in factory conditions and disposed of in accordance with environmental regulations.

The AtlanFilter cartridge will be recharged with new media, thereby recycling and repurposing the cartridge.

AtlanFilter replacement procedures may vary depending on the configuration of the AtlanFilters, the type of vault and engineers' specs. Replacement instructions for manhole AtlanFilter systems and precast vault AtlanFilter systems are contained in this section.

At the completion of a standard inspection, AtlanFilter replacement may be deemed necessary immediately or scheduled for a future date. Steps undertaken for cartridge replacement should be in general accordance with the procedure outlined below but not limited.

1. Implement pre-start safety measures

Ensure that the area in which operational works are to be carried out is cordoned off, to prevent unauthorised access. Adequate safety barriers must be erected.

Area in which work is to be carried out must be clean, safe and hazard free.

2. Set-up gantry tripod above manhole

Assemble and position the gantry above the manhole safely and as practically as possible. Attach the winch or chain block to the gantry for lifting the AtlanFilters.

Perform safety procedures ie. attach harnesses etc. (if confined space).

3. Open manhole lid

Once you have set up the gantry and ensured that the area is safe to operate in, you can proceed to open the manhole lid, using lid lifters.

4. Conduct gas tests

(If tank is classed confined space)

Once the lids have been removed to a safe distance to prevent tripping, you must then proceed to conduct gas tests. Perform necessary gas tests according to the confined space regulations.

5. Once confined space has been deemed safe to operate in, enter tank safely

Once you have carried out the required gas test and the work area is deemed safe, you may then enter the pit via a ladder or winch system to assess the work area you will be operating in. Ensure all confined space procedures are followed.

6. Remove exhausted cartridges

Disconnect all internal pipe work from inside the vault. Unbolt anti-floatation measures and remove cartridges from the vault using Gantry Tripod method.

7. Pollutant removal

Using a wet/dry vacuum or sucker truck, suck out all the residual pollutant from the vault.

8. Install pipework and AtlanFilters

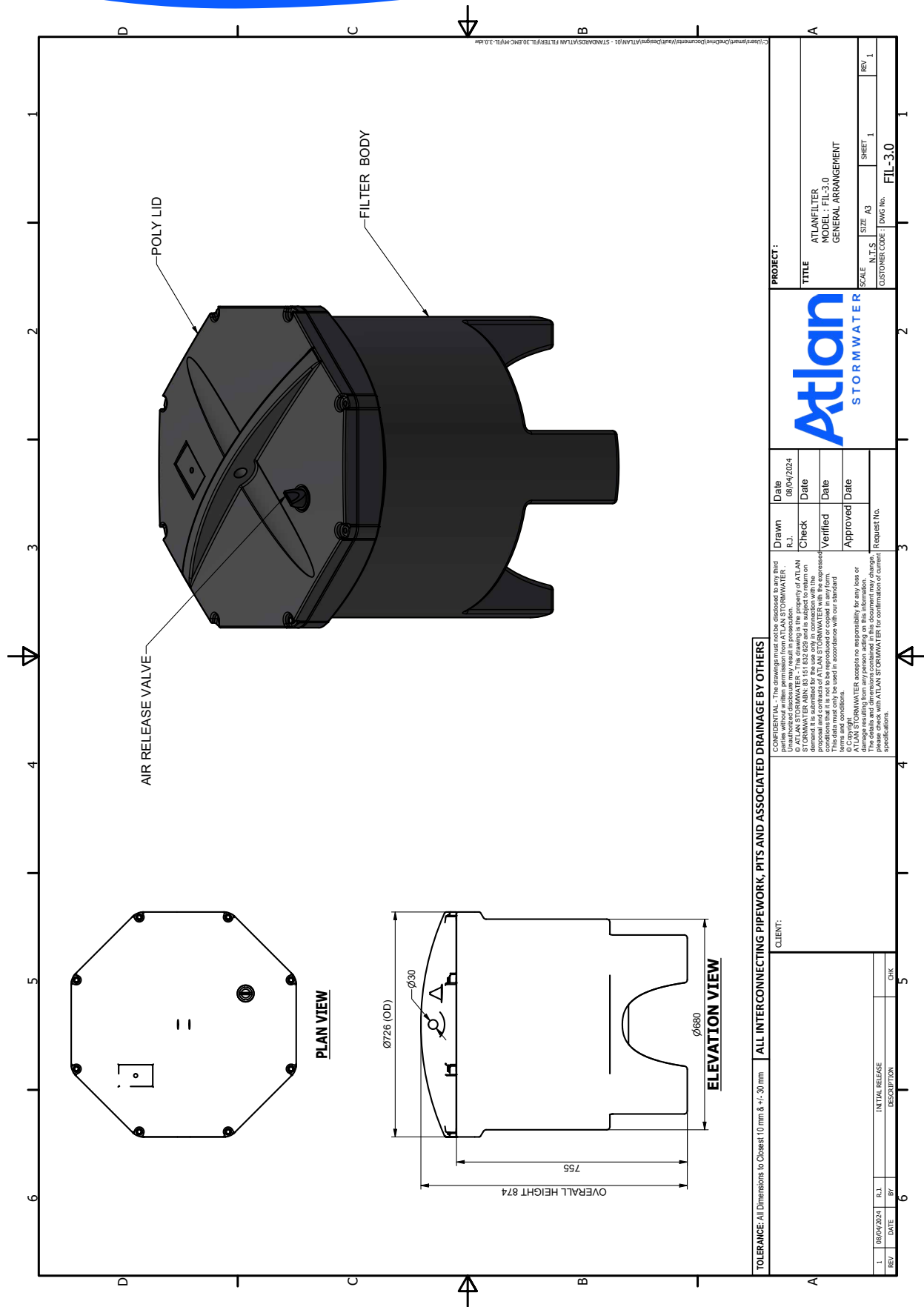
Please refer to the below standard install diagrams for the AtlanFilters. Then refer to your site specific drawings, as site requirements may require something different to the standard layout. Lower filters into tank, position into place, connect filter outlet pipework with the supplied fittings.

9. Install anti-floatation system

Please refer to the detailed drawings showing how the anti-floatation (anchor) bars are to be installed.

10. Sign off and forward a copy of the report to property manager and Atlan representative

Drawing Full Height



TOLERANCE: All Dimensions to Closest 10 mm & +/- 30 mm

ALL INTERCONNECTING PIPEWORK, PITS AND ASSOCIATED DRAINAGE BY OTHERS

CLIENT:

CONFIDENTIAL - The drawings must not be disclosed to any third party without written permission from ATLAN STORMWATER. It is the responsibility of the client to ensure that the drawings are not used for any purpose other than the one intended. The drawings are the property of ATLAN STORMWATER ABM. 85151832 029 and is subject to return on completion of the project. The drawings are not to be reproduced or copied in any form, by any means, without the prior written consent of ATLAN STORMWATER. The drawings are provided in accordance with our standard terms and conditions. ATLAN STORMWATER accepts no responsibility for any loss or damage resulting from any person acting on the information contained in the drawings. The drawings are provided as a guide only. Please check with ATLAN STORMWATER for confirmation of current specifications.

Drawn Date 08/04/2024

Check Date

Verified Date

Approved Date

Request No.

PROJECT :				
TITLE				
ATLANFILTER				
MODEL : FIL-3.0				
GENERAL ARRANGEMENT				
SCALE	N.T.S	SIZE	A3	SHEET
				1
CUSTOMER CODE :				DWG No.
				FIL-3.0



08/04/2024

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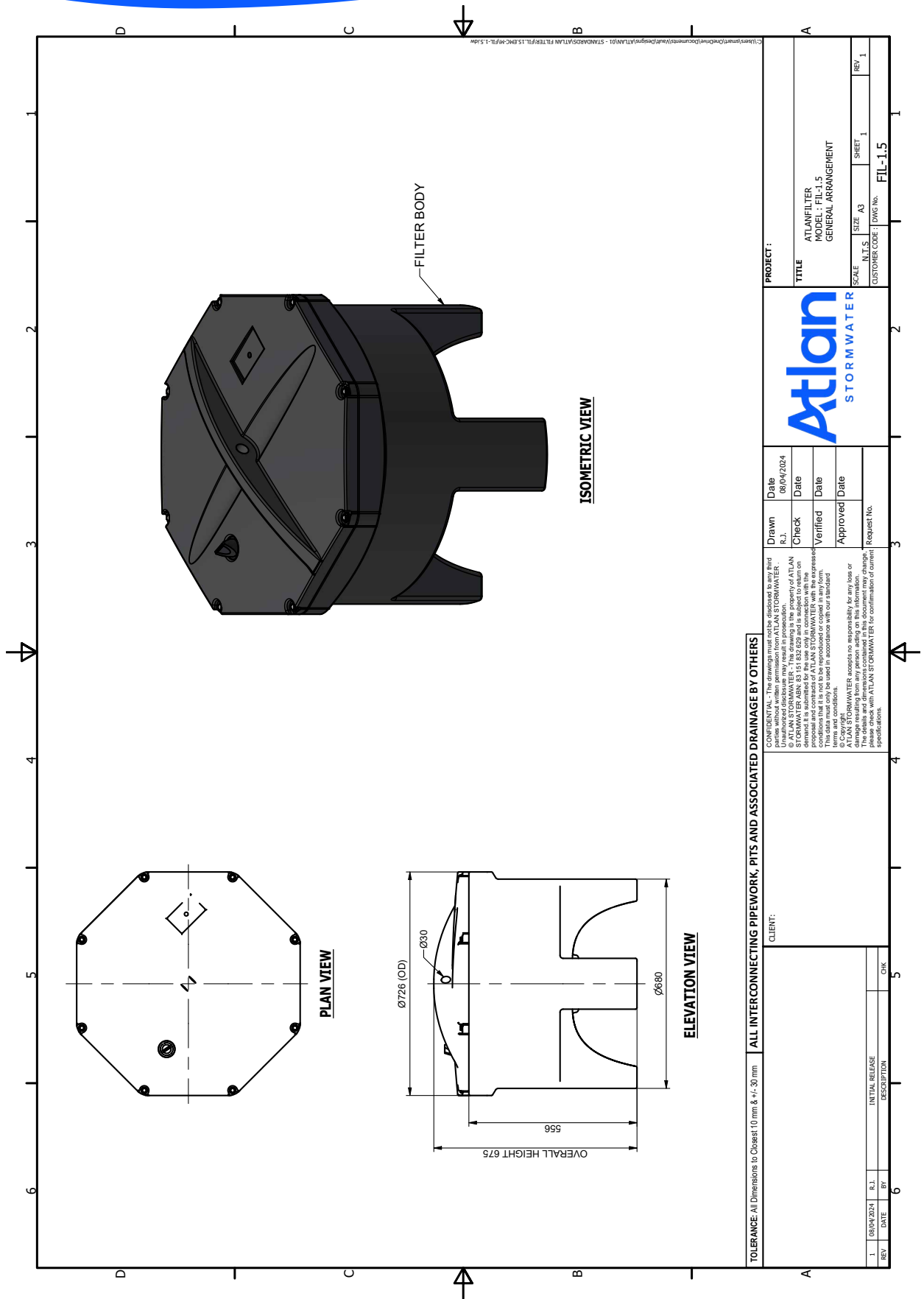
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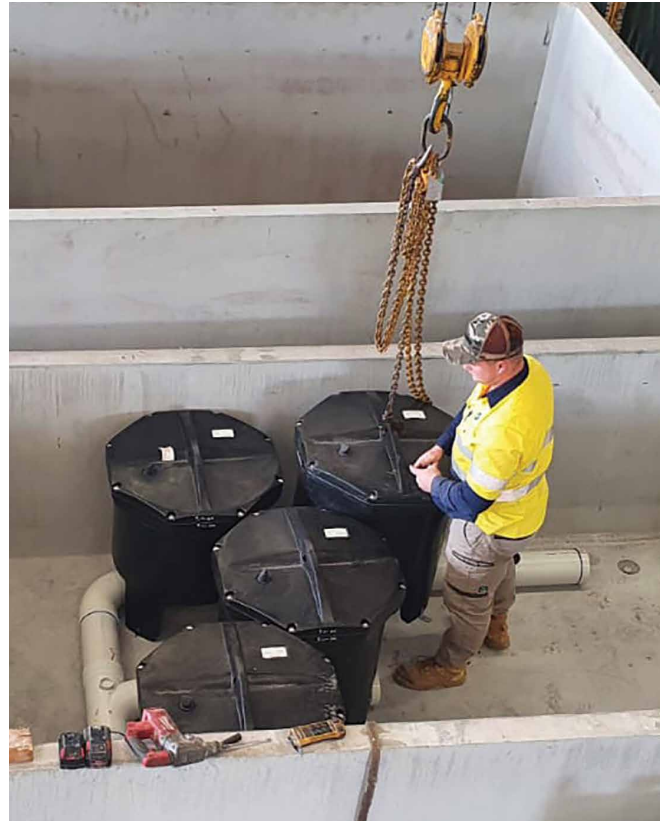
Drawing Half Height



SITE EXIT & CLEAN UP

At the end of the scheduled maintenance, approved contractors or Atlan maintenance crew are required to reinstate the site to pre-existing conditions. Steps included but limited to are:

- Ensure all access covers are securely inserted back into their frames;
- Remove and dispose collected pollutants from the site in accordance with local regulator authorities;
- Retrieve all traffic control measures and maintenance tools; and
- Return all exhausted and/or damaged Atlan products to Atlan Stormwater to begin recycling program.



Joy in water

'We believe clean waterways are a right not a privilege and we work to ensure a Joy in Water experience for you, with your children and grandchildren.'

Andy Hornbuckle



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