

LITTA-TRAP™

Low cost catchpit insert for removal of litter and gross pollutants

Litter, leaves and other gross pollutants such as cigarette butts are responsible for degradation of our beaches and waterways. Stormwater runoff from existing piping infrastructure in our cities and towns largely flows untreated into our marine environment and is having negative effects on water quality and marine life. Litta-Trap™ is a low cost solution to removal of these pollutants.

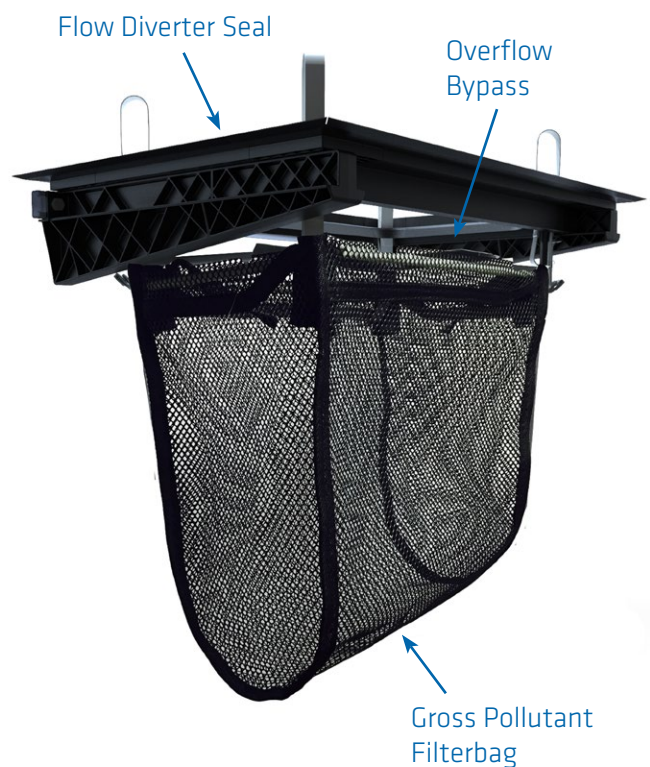
The Litta-Trap™ is a proven catchpit insert designed to be easily retrofitted into new and existing stormwater catchpits to specifically target litter, leaves and gross pollutants, capturing them at source and preventing them from accumulating in our precious harbours and beaches. The Litta-Trap™ is a low cost, easily hand maintained solution for 100% capture of particles larger than 1mm.

The Litta-Trap™ is also effective as a pre-treatment device for use in a treatment train with hydrodynamic separators, filtration devices, ponds and wetlands. In many cases, it is often the most practical solution for retrofits.

HOW DOES IT WORK?

As stormwater enters a storm grate or catchpit/gullypit, it passes through the screening bag. Litter, debris, and other pollutants larger than the screening bag aperture are captured and retained.

If the screening bag is full or during high flows, overflow is released through the overflow apertures in the frame assembly.



DESIGN AND OPERATION

The Litta-Trap™ is fixed by brackets to the catchpit wall below the grate allowing the filter insert to easily be lifted out for hand maintenance. Consisting of a structural bracket assembly with flow diverter seal and a removable filter insert incorporating high flow bypass, the Litta-Trap™ is simple to install and remove.

Once the filter insert has been removed, open access to the base of the catchpit and outlet pipe means any accumulated sediment in the pit can easily be removed by inductor truck if required.

There are two standard sizes to fit most pre-cast regular and curb entry catchpits. Custom designs are able to be fabricated for non-standard pits.

CAPABILITIES

- Captures litter, leaves, debris and gross pollutants before they enter the drainage system
- Fits a range of catchpit sizes - ideal for retrofits
- Easy access - maintenance friendly design, can be hand maintained
- Bypasses high flows with no moveable parts
- Adjustable panels allow fine-tuning during installation for a perfect fit
- Tested at Auckland University

Lab test results:

(1000 micron gross pollutant bag)

= 95%+ gross pollutant capture up to 100 l/sec

BENEFITS

- No construction means low capital costs
- A range of filter sizes to target gross pollutants
- Hand maintainable
- Can be used to target high litter areas
- Ideal pre-treatment device for filters, ponds and wetlands or overflow of swales and raingardens
- No confined space entry requirements

EASY MAINTENANCE

Maintenance of the Litta-Trap™ is simple. As the Litta-Trap™ is hand maintainable, it can be easily cleaned by site owners or maintenance crew without the need for vacuum inductor trucks or heavy lifting equipment. As the pits can be accessed from ground level, there is also no requirement for confined space entry, reducing maintenance costs. Litta-Trap™ filters should be inspected periodically to determine maintenance frequency. The frequency of maintenance services should be reviewed at the completion of each clean and modified if pollutant loadings deem this necessary. At the required maintenance interval the contaminants need to be removed from the filterbags and disposed of appropriately. The maintenance crew is responsible for the disposal of debris in accordance with all applicable regulations and is responsible for following all Health and Safety requirements.

Contact the Stormwater360 maintenance department at maintenance@Stormwater360.co.nz for more information.

HAND MAINTENANCE IS AS EASY AS 'LIFT, TIP, REPLACE'

1. Lift Litta-Trap™ out of pit using handles
2. Replace Litta-Trap™ securely back into surrounding frame and seal
3. Tip contents out of Litta-Trap™ into suitable receptacle for contents

01 LIFT



02 TIP



03 REPLACE



Captured gross pollutant



Litta-Trap™ Catchpit

CONTACT DETAILS

Stormwater360

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Stormwater360
BETWEEN SKY AND SEA