

Plastics and other 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 drastic effects on water quality and marine life. LittaTrap is a low cost and effective solution to removal of these pollutants.

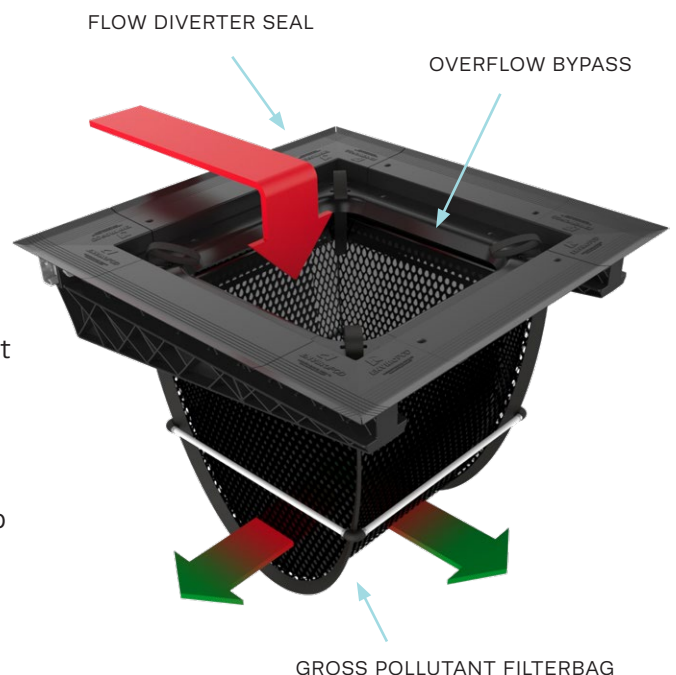
The LittaTrap is an innovative catchpit insert designed to be easily retrofitted into new and existing stormwater catchpits to specifically target litter, leaves and gross pollutants, capturing them at source and preventing them from accumulating in our precious harbours and beaches. The LittaTrap is a low cost, easily hand maintained solution for 100% capture of particles larger than 5mm.

The LittaTrap 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?

Placed inside the stormwater drain catchpit/gullypit, the LittaTrap captures and retains any rubbish and other pollutants larger than 5mm that are caught up in the stormwater runoff. Once the filterbag is full, it can be simply lifted out and emptied.

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 LittaTrap 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 LittaTrap 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

The LittaTrap is very cost-effective and easy to maintain as the filterbag can be simply picked and emptied by hand. As the LittaTrap 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.

LittaTrap 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.



1 Lift



2 Tip



3 Replace

Hand maintenance is as easy as **'Lift, Tip, Replace'**

1. **Lift** LittaTrap out of pit using handles
2. **Tip** contents out of LittaTrap into suitable receptacle for contents
3. **Replace** LittaTrap securely back into surrounding frame and seal

