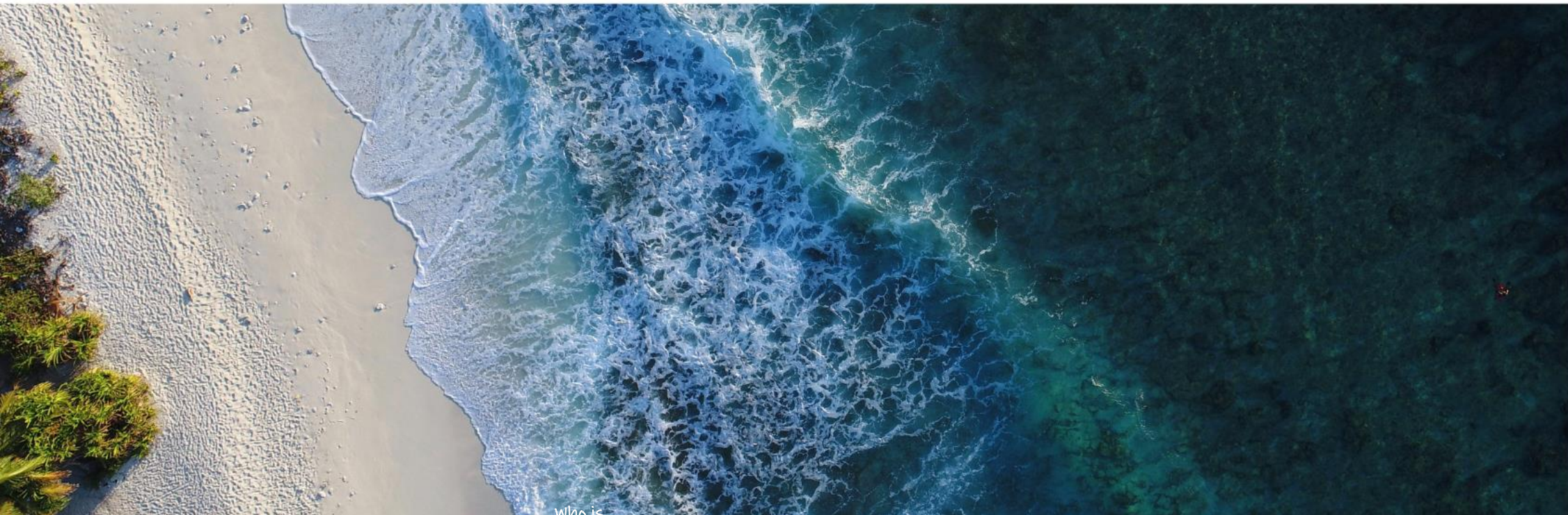




A Direct Shift to Indirect Screening GPTs

Damien Egan

Stormwater Victoria Conference, 6th June 2023



Who is

Gross Pollutant Traps – Technology Types

There are Five GPT categories;

Gravity Separators

Direct Screens

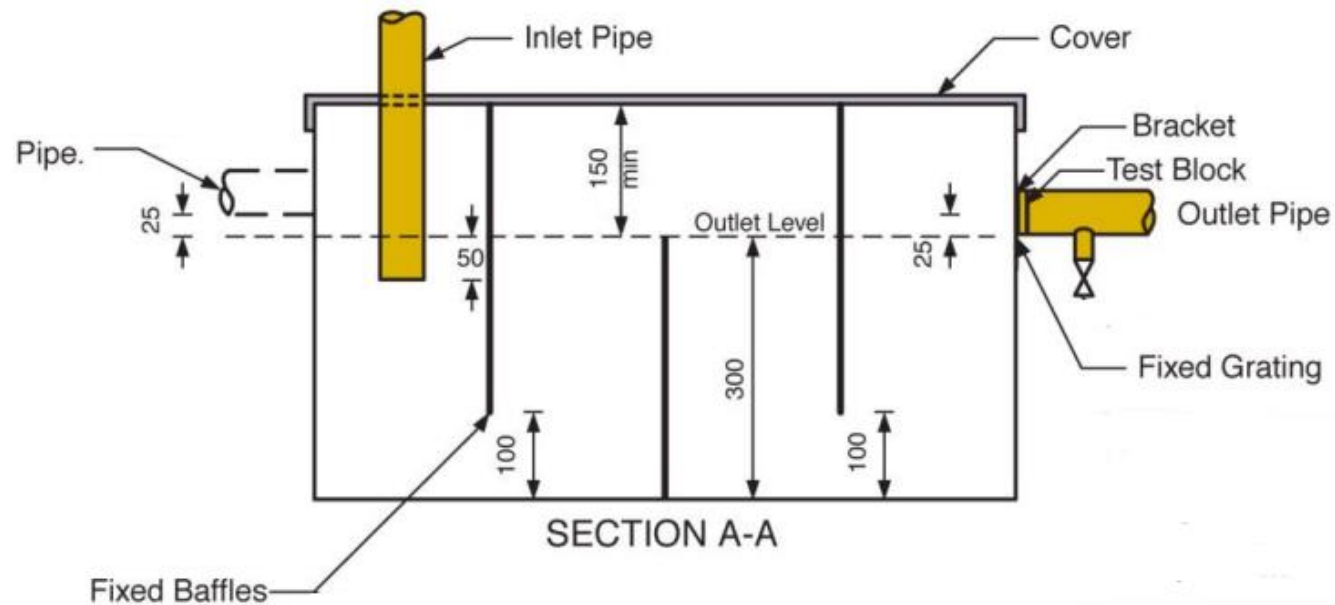
Hydrodynamic Separators

Indirect Screens

Others or Combinations

Source: 2010 Stormwater Industry Association

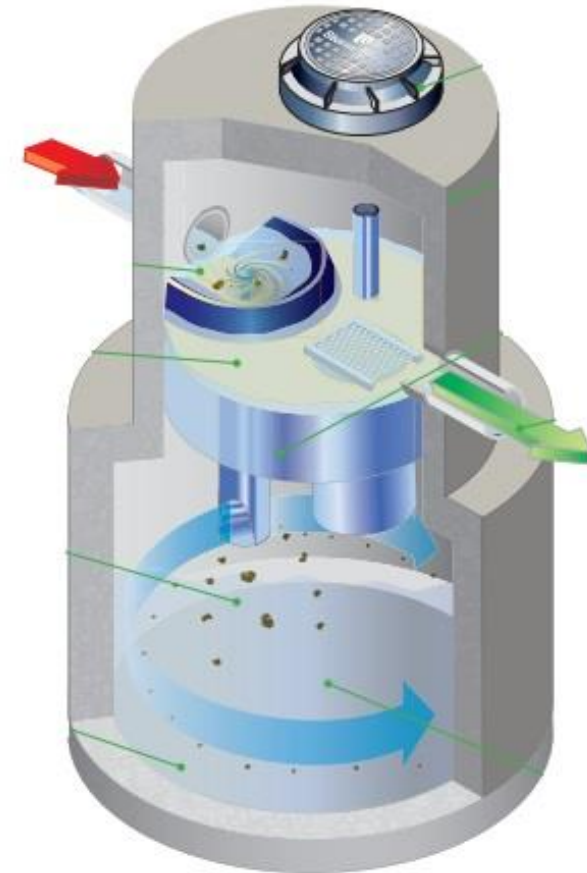
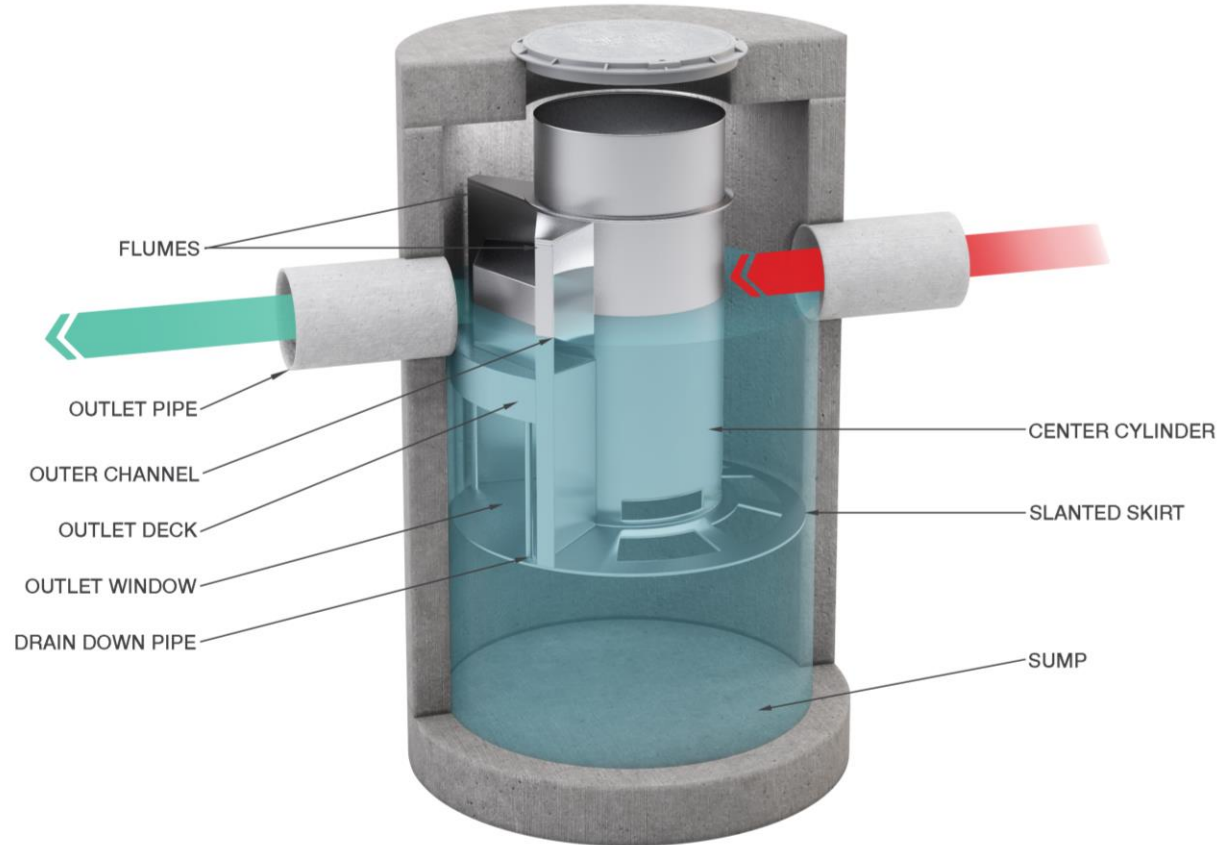
Gross Pollutant Traps – Gravity Separators



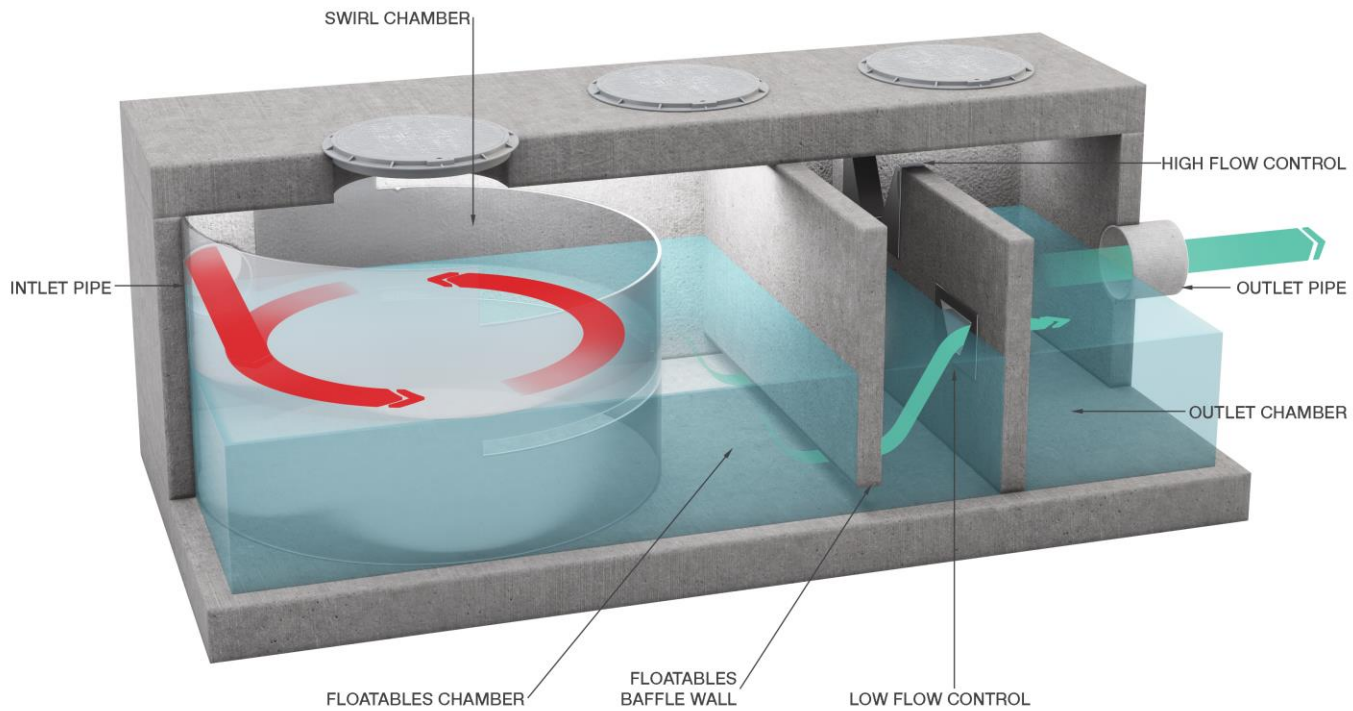
Source: Victorian Building Authority 2014

- ⦿ Extended flowpath
- ⦿ Convoluted path
- ⦿ Slow the velocity of flow
- ⦿ Allow separation
- ⦿ Treatment flow rate
- ⦿ Volume
- ⦿ Temperature

Gross Pollutant Traps – Hydrodynamic Separators



Gross Pollutant Traps – Others or Combination



Gross Pollutant Traps – Direct Screening

Gravity Separators

Direct Screens

Direct screening (devices that incorporate screens in various orientations to the flow and which are not self cleansing)

Hydrodynamic Separators

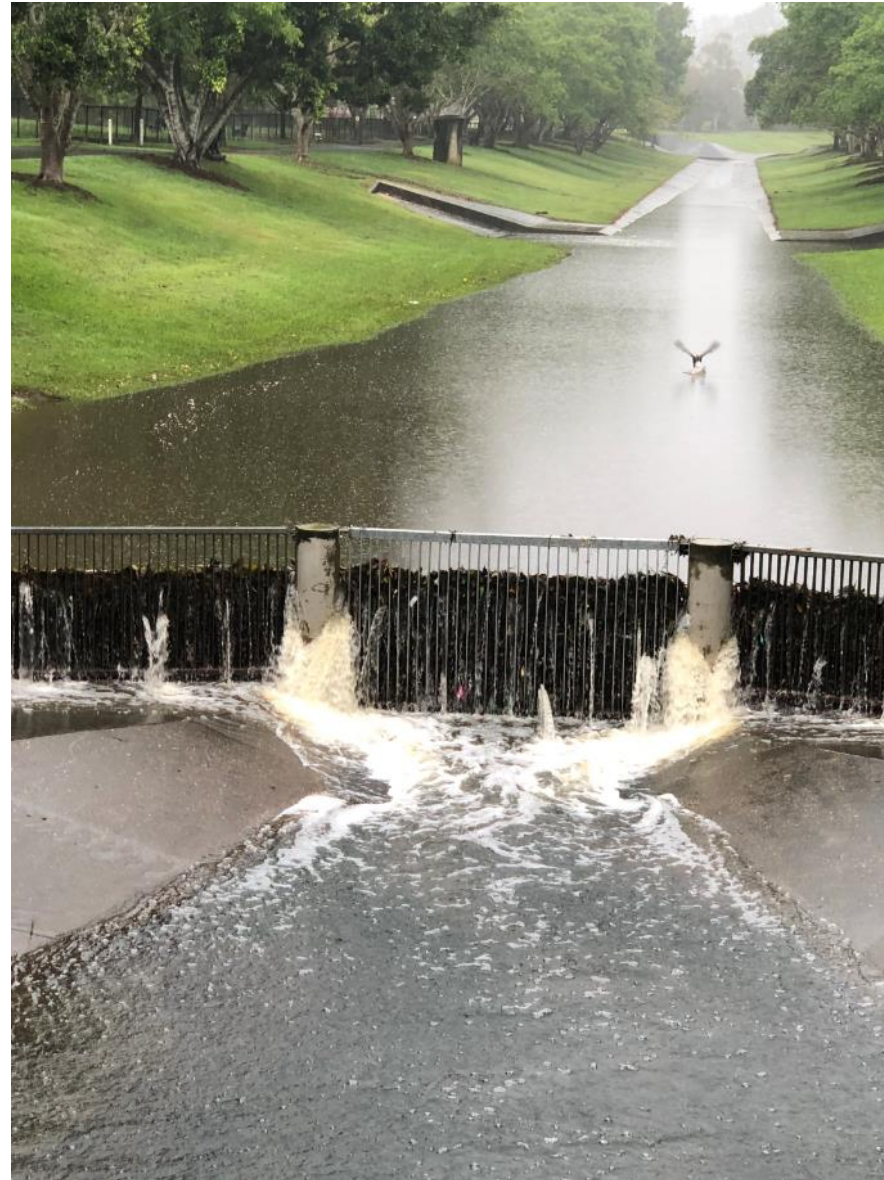
Indirect Screens

Others or Combinations

Gross Pollutant Traps – Direct Screening



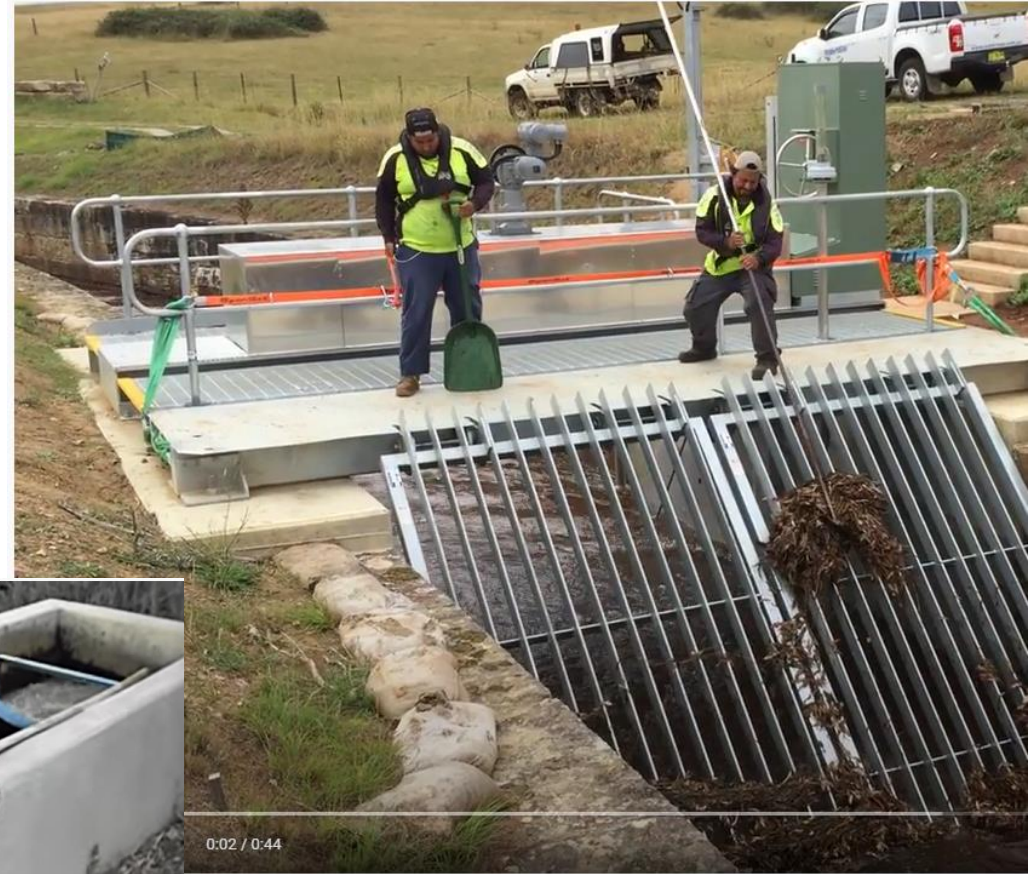
Gross Pollutant Traps – Direct Screening



Gross Pollutant Traps – Direct Screening



Gross Pollutant Traps – Direct Screening



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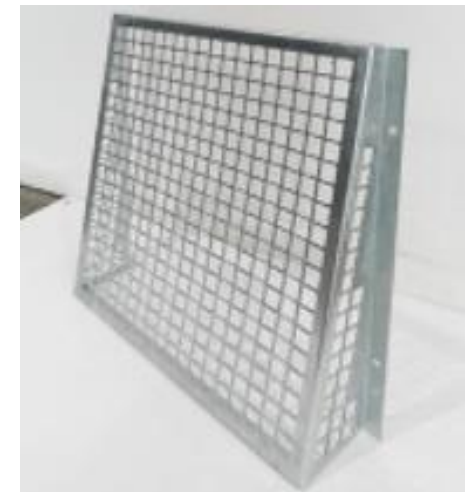
Gross Pollutant Traps – Direct Screening



Gross Pollutant Traps – Direct Screening



Gross Pollutant Traps – Indirect Screening



Gross Pollutant Traps – Indirect Screening

Gravity Separators

Direct Screens

Hydrodynamic Separators

Indirect Screens

Continuous deflective separation (devices that combine a vortex/hydrodynamic separation with a non-blocking screening system)

Others or Combinations

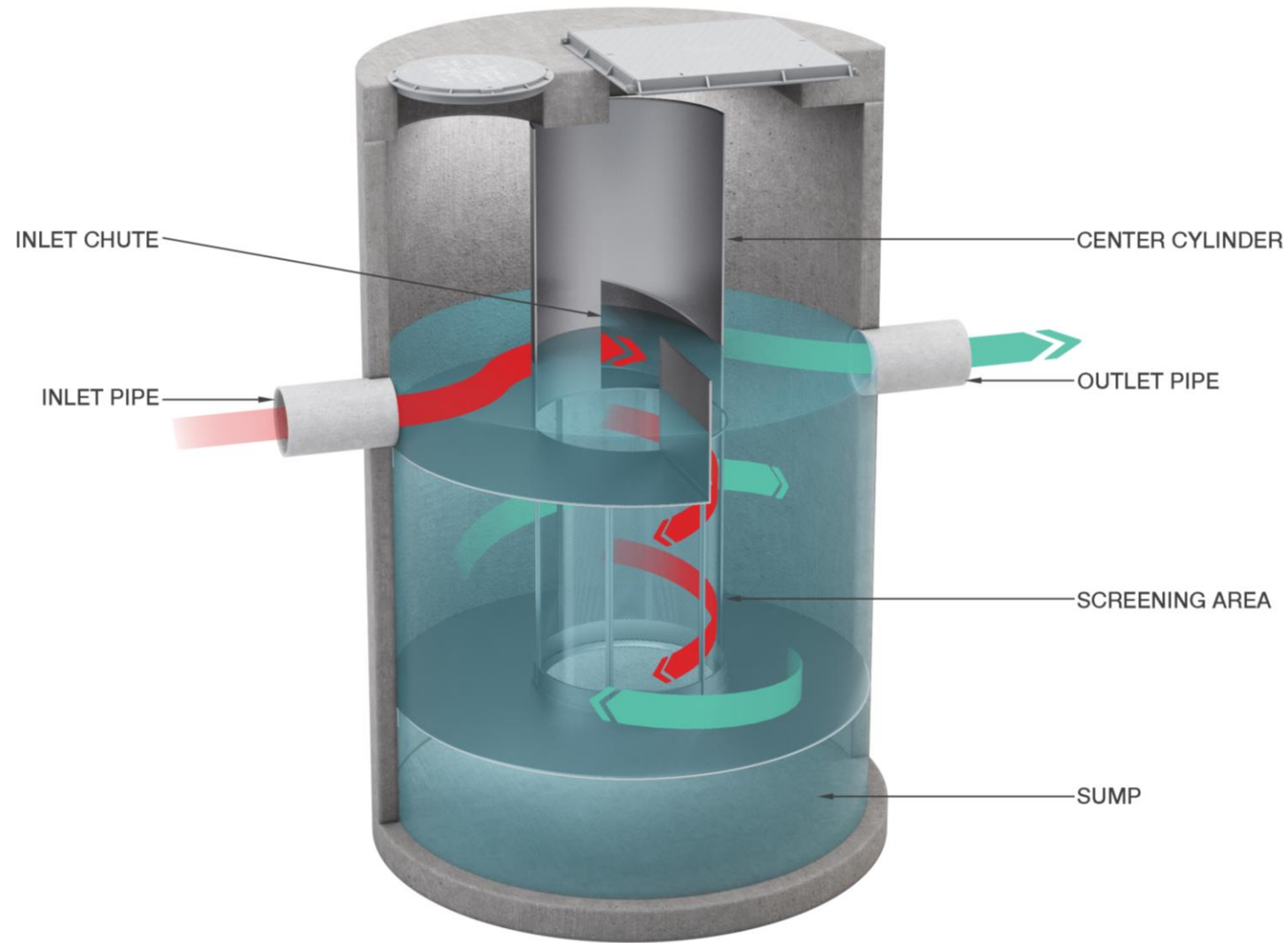
Indirect Screening
CDS^R Technology
> 7500 AUS
> 35,000 Worldwide
25+ Years

Gross Pollutant Traps – Indirect Screening

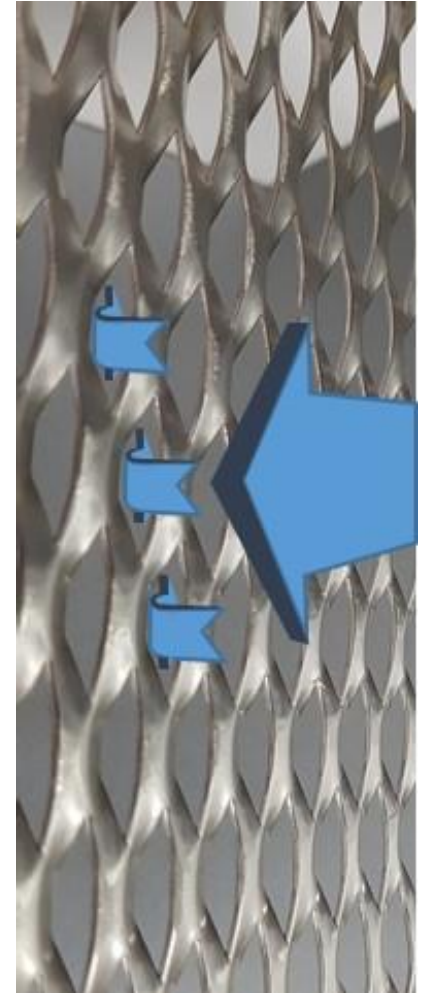
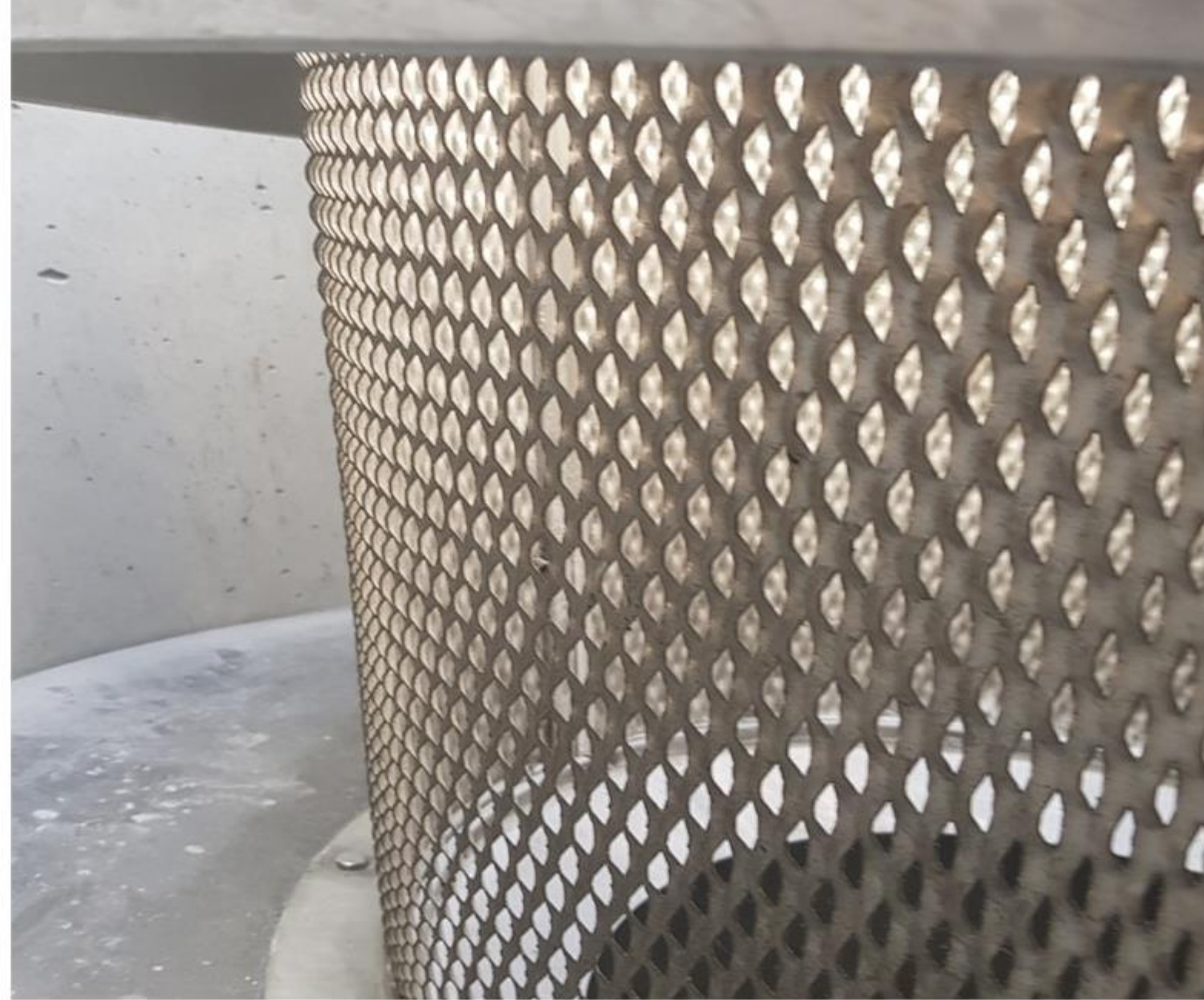
So what has changed?



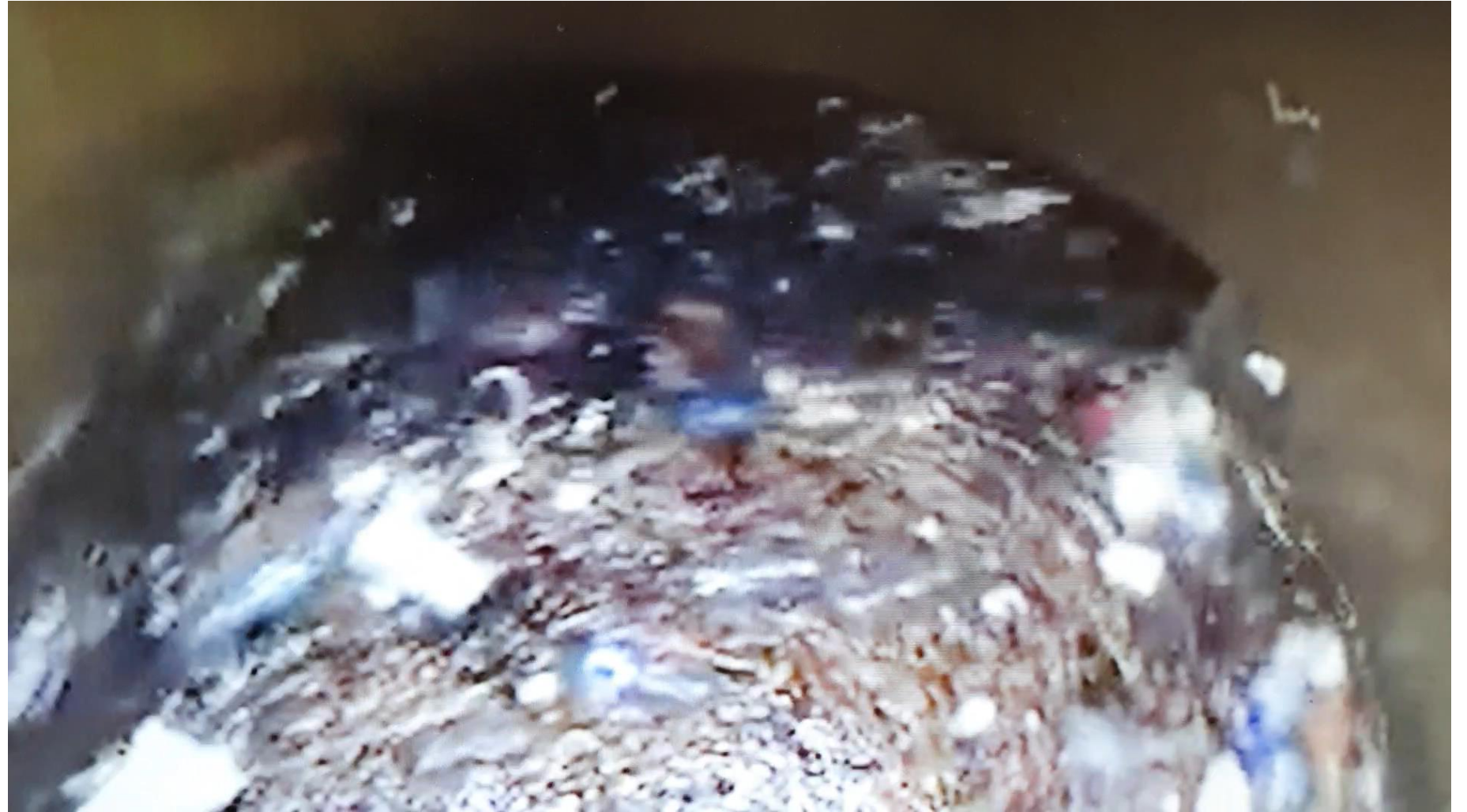
Gross Pollutant Traps – Indirect Screening



Gross Pollutant Traps – Indirect Screening



Gross Pollutant Traps – Indirect Screening



Gross Pollutant Traps – Indirect Screening

So what lessons have been learnt?



Source: Stormwater VIC

2021 audit of 52 GPTs
in City of Casey

Winner at 2022
Stormwater Victoria
Awards

A Direct Shift to Indirect Screening GPTs

- ② There is a clear change in the market to indirect screening technology
- ② Council by Council making the change
- ② Where once there was only one, now there are more
 - More efficient design
 - Easier & faster site construction
 - Choice





www.oceanprotect.com.au

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THANK YOU

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