CLT-002C (Echidna) GROSS POLLUTANT TRAP TECHNICAL BROCHURE

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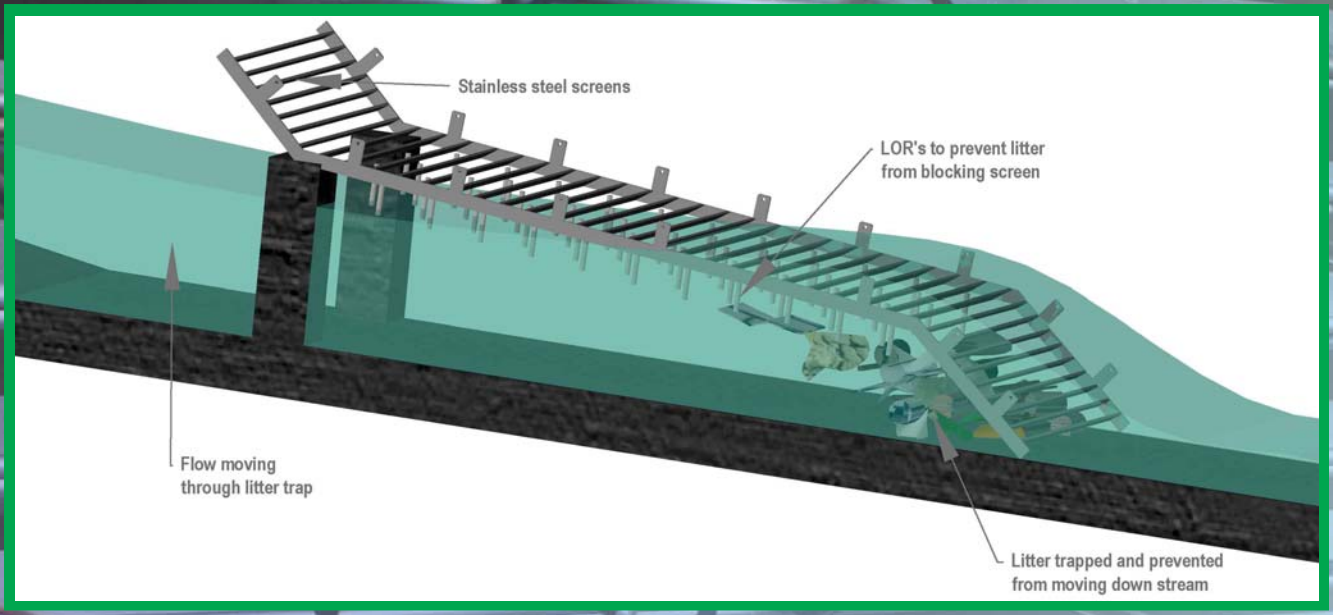
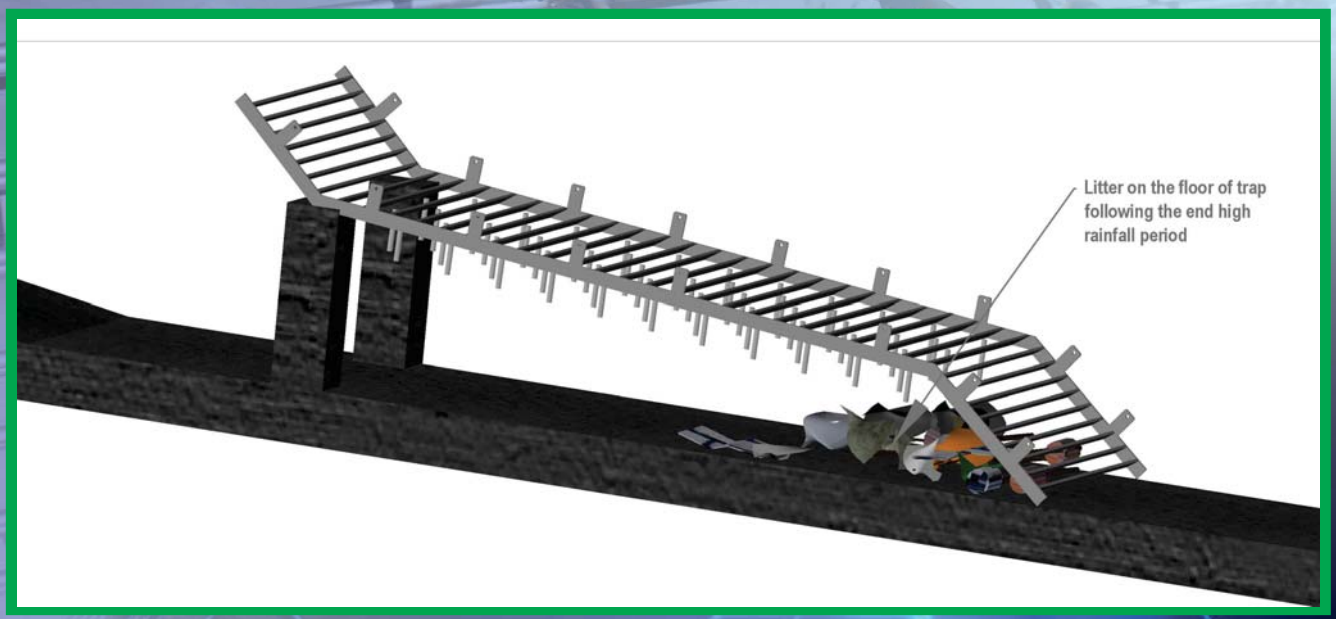
FUNCTIONALITY & FEATURES



The image above shows a 3 dimensional model of the Echidna GPT in a high flow situation (water flowing towards the right). In this case the water is filtered via the stainless steel screens. The LOR's maintain a gap between the litter and the screens to reduce blockages.



The figure above shows a model of the GPT after the high flow situation has stopped. Once the water has passed through the GPT the litter remains and falls to the floor, which can then be easily collected and disposed of.

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FUNCTIONALITY & FEATURES

- Water flows upwards through screens,
- Gravity assists in the removal of litter from screens to minimise blockages,
- Litter obstruction rods (LOR's), reduce blockages by keeping litter from directly contacting the screens,
- Screen slope maximises engaged area and reduces the exit velocity of water,
- No moving parts,
- Can treat flows from 50 L/s to 10 m^3/s,
- The litter trapping efficiency varies from 95% with an empty trap (no litter) to 99.8% with the trap completely full,
- Easy clean-out process,
- Manufactured out of 316 stainless steel (SS),
- The Energy (head) losses across the trap vary from 0.04m fo an empty trap and 0.35m for the trap completely full.

Monash University Testing

Litter and Debris in GPT

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INSTALLATION & MAINTENANCE

Installation

- Custom designed and easy fit grates,
- Simple bolt in method of installation.

Maintenance

- Hinged grates are easily lifted to expose floor of trap,
- Litter and debris can be readily accessed and removed via vacuum truck or alternate method,
- Concrete and stainless steel parts will not corrode or break down,
- Parts can be easily installed if they require replacement.

Mildura Installation

Fawkner North Drain Installation

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ABOUT CLEVERTEK

The senior design engineers at Clevertek, boast over 25 years experience in the stormwater quality and stormwater management industry. The inspiration to design effective gross pollutant traps (GPT's) stemmed from the inadequacy of most GPT's in the market during that time. Through the use and experience of working with GPT's, the engineers at Clevertek noticed that nearly all models available contained similar flaws in their design and subsequent function. Clevertek GPT's all adhere to key principles that directly resolve the issues associated with these other models. Clevertek GPT's are all assisted by gravity due to their orientation so that litter and gross pollutants do not directly sit on screening mechanisms, which dramatically reduces blockages. The Echidna model also makes use of LOR's whereas the DSF model makes use of nested vortices and a patented dragon scale filter. We believe that this new way of looking at GPT design will create a paradigm shift in the stormwater industry.

For similar reasons, Clevertek have recently expanded their product range to include other products within the broader water engineering industry other than GPT's.

Clevertek products currently available to the market are:

- CLT-002C (Echidna) Gross Pollutant Trap,
- CLT-004P (DSF) Gross Pollutant Trap,
- CLPFV-001 Pipe Face Valve,
- CLFG-001 Flood Gate.

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