

## Carr - Catherine

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**From:** Dataworks  
**Subject:** FW: Filter Backwash

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**From:** Chris Acevski [<mailto:Chris.Acevski@ghd.com>]  
**Sent:** Monday, 9 May 2016 10:24 AM  
**To:** Silver-Mike  
**Subject:** FW: Filter Backwash

Hi Mike,

Hope this clarifies the back wash requirements

Cheers  
chris

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**From:** Daniel Bestmann  
**Subject:** Filter Backwash

Chris,

As discussed over the phone. Please let me know if you require any additional information.

### Operating Assumptions

- Based on one backwash cycle per week for each filtration system
  - NOTE: During high demand periods (summer) that the filtration system may require up to 2 backwash cycles per week

### Backwash Loads

50m Pool Backwash Volume Allowance – 75 kL

Kids Wet Play Area Backwash Volume Allowance – 15 kL

25 Indoor Pool (Stage 2) Backwash Volume Allowance – 45 kL



#### Sewer Load from Filter Backwashing

- Approx. 90 kL per week in Stage 1
- Approx. 135 kL per week in Stage 2

#### Backwash Discharge to Sewer

Whilst there are no standards on discharging backwash water to sewer, normal practice would be to lease the water to sewer at 1-2 L/s.

For the design, allow to discharge backwash water to sewer at 2 L/s. This would allow the backwash tank to drain within 24 hours to allow another backwash cycle to occur the next day.

Regards

**Daniel Bestmann**  
Civil Engineer

#### **GHD**

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