Wastewater Solution for Lot 100 Function Centre Adelaide Hills, South Australia

Lot 100 is a licensed function venue comprising a collective of local food and craft beverage producers. Following a new development, Lot 100 engaged Fluid Environmental to install the wastewater treatment and disposal system to cater for the facility's up to 600 daily attendees (12 kL/day).

Fluid Environmental installed and commissioned a new high performance lined ABSORBS™ wastewater treatment system, with recycled water irrigated on an adjacent woodlot.

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Fluid Environmental proposed an environmentally and economically sustainable passive wastewater treatment and recycled water dispersal system that was fit for purpose for the Lot 100 site.

Project notes

Sources of wastewater
- Staff amenities
- Function centre for up to 600 attendees per day

Peak Daily Flow: 12,000L/d

The wastewater system and recycled water irrigation approach needed to handle highly variable flows due to seasonal and weekly usage patterns of the function centre.

The client desired to reuse as much of the existing wastewater treatment infrastructure as possible, so the design allowed for reuse of existing tanks as part of the new treatment system.

Wastewater system included a 360m^2 lined ABSORBS™ sand filter to treat wastewater to advanced secondary level, prior to collection and disposal via surface irrigation in a nearby woodlot on the property (soils were Category 4 weakly structured clay loam able to handle 4mm/d irrigation rate).

This treatment system design has very low operation and maintenance requirements, exceptionally low energy use and has a small carbon footprint compared to alternate conventional mechanical aerobic treatment plants. The final design satisfied all regulatory requirements and allowed the client to beneficially reuse high quality treated effluent on-site.

Snapshot

Client	Lot 100
Location	Adelaide Hills, SA
Job category	Commercial wastewater system
Technology	Lined ABSORBS™ Advanced Secondary treatment system; beneficial reuse to surface irrigation
Design capacity	12,000L/d

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