



CHIEF EXECUTIVE APPROVAL No 12/2006
Plumbing & Drainage Act 2002, Part 5, Division 1, Section 93

Approval

1. The **Ozzi Kleen Greywater Treatment System Model – GTS10**, (the “system”) described in the Specification and Drawings in the attached schedule and manufactured by **Suncoast Waste Water Management** (ABN: 62 063 770 534) (the “manufacturer”) has been assessed in accordance with the Queensland Plumbing and Wastewater Code dated 1 March 2006.
2. Approval is granted for the system subject to compliance by the facility builder with the requirements of the *Plumbing & Drainage Act 2002, Part 5, Division 1, Section 91* and the conditions of approval below.
3. This approval, the conditions of approval and the schedule comprise the entire chief executive approval document.
4. Any modification by the facility builder to the design, drawings or specifications in the chief executive approval for the system must be approved by the chief executive.
5. The approval does not affect the operation of the *Trade Practices Act 1974*, the *Fair Trading Act 1989* and the *Sale of Goods Act 1896* or any other law.

Ron De Veer
A/Director
Building Codes Queensland

Date Approved: 02 August 2006



Conditions of Approval

1. The manufacture, installation, operation, service and maintenance of the system must be in conformity with the conditions of the Chief Executive approval.
2. A system, which is an example of the approved system, may only be used on premises that generate, per day-
 - (a) a maximum hydraulic loading of 2000 litres; and
 - (b) a maximum organic loading of 300 grams BOD₅.
3. An approved system, when installed on premises, must continue producing effluent that meets the following standard-
 - (a) Biochemical Oxygen Demand – less than or equal to 10 mg/L; and
 - (b) Total Suspended Solids – less than or equal to 10 mg/L; and
 - (c) Thermotolerant Coliforms – not exceeding 10 organisms/100mL.
4. Each system must be supplied with-
 - a copy of the chief executive approval document; and
 - details of the system; and
 - instructions for authorised persons for its installation; and
 - a copy of the owner's manual (to be given to the owner at the time of installation); and
 - detailed instructions for authorised serviced personnel for its operation and maintenance.
5. The approval does not extend, apply to, or include the land application system used in conjunction with an approved system when installed on premises.
6. This approval may only be assigned with the prior written consent of the chief executive.

Ron De Veer
A/Director
Building Codes Queensland

Date Approved: 02 August 2006



- 7 The chief executive, by written notice, may cancel this approval if the manufacturer fails-
- (a) to comply with one or more approval conditions; or
 - (b) within 30 days, to remedy a breach, written notice for which has been given by the chief executive to the manufacturer.
- 8 This approval expires on 31 August 2011 unless cancelled earlier or in accordance with paragraph 8 above.

Ron De Veer
A/Director
Building Codes Queensland

Date Approved: 02 August 2006

SCHEDULE

Attachment 1
Attachment 2

Specifications
Drawings



Queensland Government

Department of Local Government, Planning,
Sport and Recreation

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SCHEDULE

Attachment 1

Suncoast Waste Water Management - System Specifications for the Ozzi Kleen
Greywater Treatment System Model – GTS10:

1. Greywater Treatment System Model – GTS10 – Specifications.

Ron De Veer

A/Director

Building Codes Queensland

Date Approved: 02 August 2006

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Facsimile +61 7 3237 1248
Website www.dlgp.qld.gov.au
ABN 61 331 950 314

SPECIFICATIONS

Parameter	Raw Greywater Characteristics	
Greywater treatment capacity	10 persons EP at 200 l/person/day	
Maximum hydraulic load	2,000 l/day	
Biological Oxygen Demand (BOD ₅)	300 mg/litre or 60 g/day/person	
Total Suspended Solids (TSS)	300 mg/litre or 60 g/day/person	
Total grease and oils	75 mg/litre	
Greywater temperature range	10°C to 38°C	
Parameter	Effluent Standard: Guaranteed (90 th percentile)	Effluent Standard: Test Results (90 th percentile)
BOD ₅	< 10 mg/l	< 4 mg/l
Suspended Solids	< 10 mg/l	< 8 mg/l
Total Nitrogen	< 20 mg/l	< 16.7 mg/l
Total Phosphorous	< 10 mg/l	< 7.29 mg/l
Thermotolerant Coliforms	< 10 colonies per 100 ml	0 colonies per 100 ml
Free Chlorine	> 0.5 -- < 4.0 mg/l	< 4.0 mg/l
Effluent is suitable for toilet flushing / washing machine reuse		

Treatment Plant Construction:

Tank and components
All Pipe work

Polyethylene (MDPE)
PVC

Electrical Equipment:

Air Blower
Effluent Pump
Controls

85 litre/min
Submersible
Electronic

Alarm System:

Alarm System
Alarm signal

12 Volt Audio/Visual
Indicator lights for Power, Blower

Aeration Tank:

Aeration tank volume
Residence time

4850 litre
46 hr

Disinfection equipment:

Chlorinator Type
Chlorine min contact time (max flow)

Tablet Dispenser Cassette
86 min

Motor Box:

Equipment Contained

Air Blower, Control Board,
Decanter Solenoid Valve equipment

Effluent Tank and Pump:

Effluent storage compartment volume
Effluent pump duty
Pump Mounting

523 litres
40 litres/min @ 8 m head
Suspended on discharge pipe

Irrigation Equipment:

Basic irrigation equipment is supplied with the treatment plant. The irrigation system could be of several different formats. Check with Local Authority requirements.

Dept of Local Govt, Planning, Sport and Recreation, Queensland	
Chief Executive Approval	
Approval No.:	<u>12/2006</u>
Date of Issue:	<u>02-08-2006</u>
Director:	<u>Rdw</u>
Building Codes Qld	



Queensland Government

Department of Local Government, Planning,
Sport and Recreation

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SCHEDULE

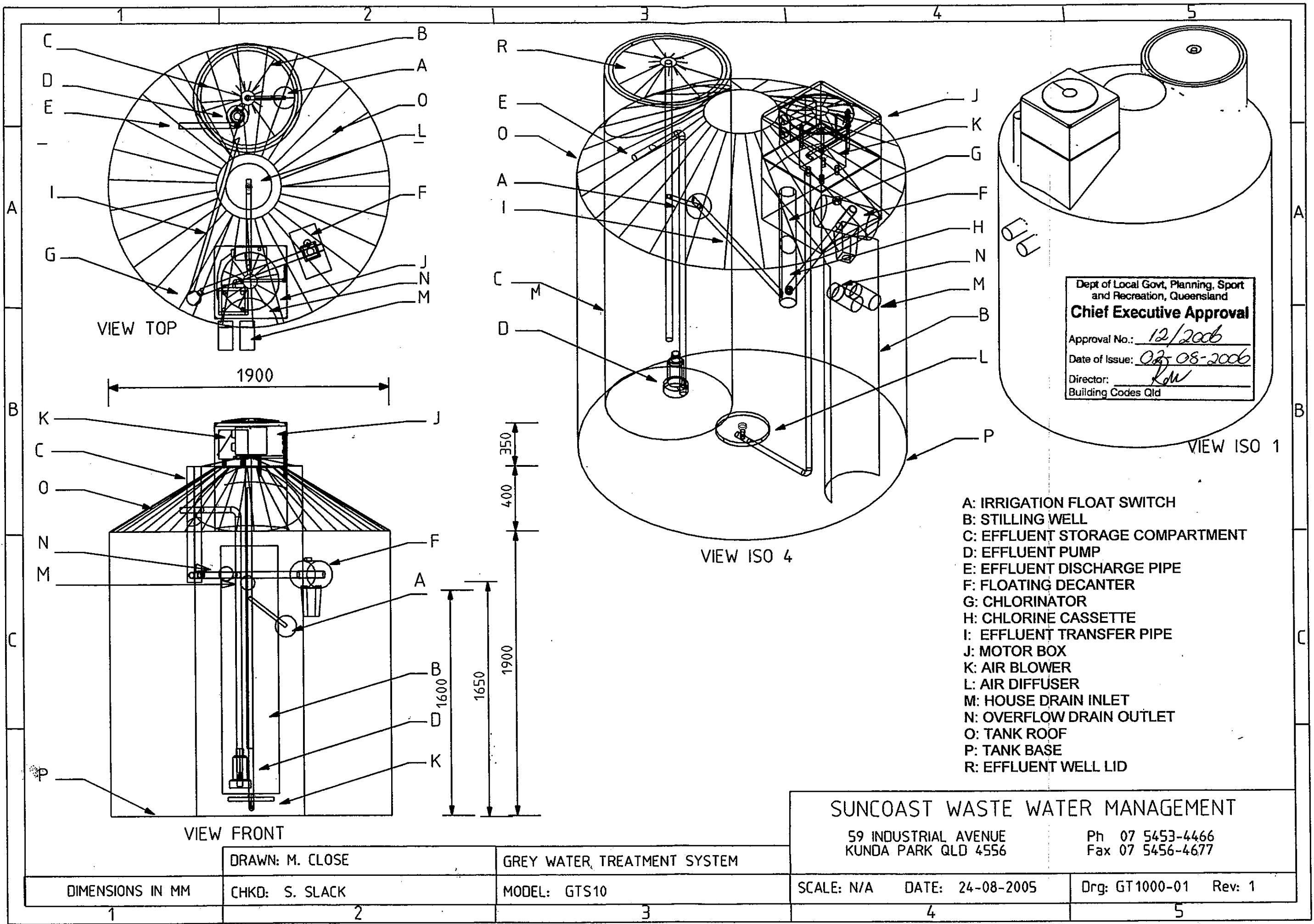
Attachment 2

Suncoast Waste Water Management - System Drawings for the Ozzi Kleen Greywater Treatment System Model – GTS10:

1. Grey Water Treatment System – Model: GTS10 (Drg: GT 1000-01 Rev: 1).

Ron De Veer
A/Director
Building Codes Queensland

Date Approved: 02 August 2006



Dept of Local Govt, Planning, Sport and Recreation, Queensland

Chief Executive Approval

Approval No.: *12/2006*

Date of Issue: *02-08-2006*

Director: *RW*

Building Codes Qld

0.6

1900

350

400

1650

1900

1600

VIEW FRONT

VIEW ISO 4

VIEW ISO 1

DRAWN: M. CLOSE

GREY WATER TREATMENT SYSTEM

DIMENSIONS IN MM

CHKD: S. SLACK

MODEL: GTS10

SCALE: N/A

DATE: 24-08-2005

Drg: GT1000-01

Rev: 1