

Our Ref: 06/4800

16 May 2007

Mr Phil Krasnostein  
Director  
Nubian Water Systems Pty Ltd  
3/83 Whiting Street  
Artarmon NSW 2064

Dear Mr Krasnostein,

**Certificate of Accreditation for Nubian Oasis DGTS**

Enclosed is the amended Certificate of Accreditation granted to your company under clause 41(1) of the Local Government (General) Regulation 2005 in respect of the Nubian Oasis DGTS.

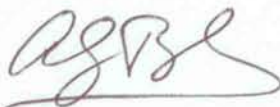
The Environmental Health Branch webpage will be upgraded in the near future and details of your system will be included in the section containing registers of accredited sewage management facilities. The webpage can be accessed on:

[www.health.nsw.gov.au/public-health/ehb/general/wastewater/wastewater.html](http://www.health.nsw.gov.au/public-health/ehb/general/wastewater/wastewater.html)

In addition all Public Health Units in NSW have been notified of the issue of the Certificate and have been requested to notify the Local Councils in their area.

Should you have any inquiries or seek to clarify the above please contact Mr Tony Bles on telephone (02) 9816 0360 or fax (02) 9816 0377 Wednesdays and Fridays.

Yours faithfully,



A.J. Bles  
**Senior Policy Analyst**

# Certificate of Accreditation

## Domestic Greywater Treatment System

*This Certificate of Accreditation is hereby issued by the Director-General of the NSW Department of Health pursuant to Clause 41(1) of the Local Government (General) Regulation 2005.*

*System: Nubian Oasis DGTS*

*Manufacturer: Nubian Water Systems Pty Ltd*

*Of: 3/83 Whiting Street, Artarmon, NSW, 2064*

*This is to certify that the Nubian Oasis DGTS as described in Schedule 1, has been accredited as a sewage management facility for use in a single domestic premises in NSW. This accreditation is subject to the conditions of accreditation and permitted uses specified in Schedule 2, and in accordance with the Domestic Greywater Treatment Systems Accreditation Guideline, February 2005.*



*A/Director, Environmental Health Branch  
for Director-General (delegation PH335)*

*Date of Issue: 4 May 2007*

*Certificate No: DGTS 006*

**This Certificate of Accreditation is in force until 31 December 2011**

## Schedule 1: Specification

### Nubian Oasis Domestic Greywater Treatment System

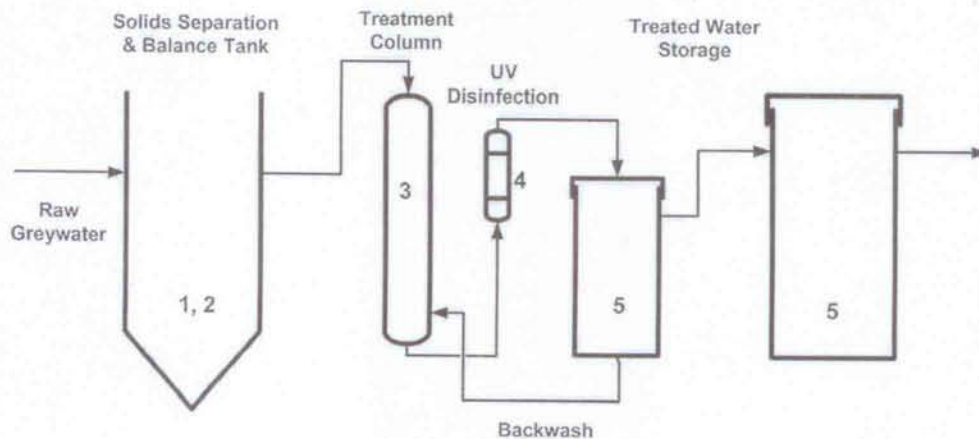
#### General Description

The Nubian Oasis DGTS is designed to treat the greywater from the showers/baths, laundry and handbasin (excluding kitchen wastewater) from a residential dwelling occupied by a maximum of 8 persons.

The Nubian Oasis DGTS comprises the following components:

1. Greywater solids separation – Lint and other coarse material is removed to prevent blockages and fouling of the system. Collected material is removed automatically on a periodic basis.
2. Feed tank – Separated greywater is collected and aerated before delivery to the treatment module. Aeration occurs by direct injection of pressurised air.
3. Treatment module – Greywater flows into the treatment module where contaminants are removed through filtration, adsorption and biological treatment. The treatment module is regularly backwashed, removing built-up contaminants to the sewer.
4. Disinfection – Ultraviolet (UV) disinfection of the treated greywater completes the treatment process.
5. Treated water storage tank – Treated water is stored in the final storage tank for reuse applications.

The following diagram provides an overview of how the Nubian Oasis system works.



## Schedule 2: Conditions of Accreditation

### 1.0 General

- 1.1 For each installation the owner/occupier of a premises shall make an application to the Local Authority to install a Nubian Oasis DGTS as a waste management facility in accordance with Section 68, Part C of the Local Government Act 1993 and Clause 28 of the Local Government (General) Regulation 2005.
- 1.2 The Nubian Oasis DGTS shall be supplied, constructed and installed in accordance with the design as submitted and accredited by the NSW Department of Health.
- 1.3 Any modification or variations to the accredited design of the Nubian Oasis DGTS shall be submitted for separate consideration and variation of the Certificate of Accreditation by the Director-General of the NSW Department of Health.
- 1.4 Each Nubian Oasis DGTS shall be permanently and legibly marked on a non-corrosive metal plaque or equivalent, attached to the lid with the following information:
  - The brand name of the system;
  - The manufacturer's name or registered trademark;
  - The month and year of manufacture.
- 1.5 The manufacturer shall supply with each Nubian Oasis DGTS an owner's manual, which sets out the care, operation, maintenance and on-going management requirements of the system.
- 1.6 The manufacturer shall provide the following information to each local authority where it is intended to install a DGTS in their area once Departmental accreditation has been obtained:
  - Statement of warranty
  - Statement of service life
  - Quality Assurance Certification
  - Installation Manual
  - Service Manual
  - Owner's Manual
  - Service Report Form
  - Engineering Drawings on A3 format
  - Detailed Specifications
  - A4 Plans
  - Accreditation documentation from NSW Health.

## **2.0 Installation and Commissioning**

- 2.1 The Council should require that on completion of the installation of the Nubian Oasis DGTS, the system is inspected and checked by the manufacturer or the manufacturer's agent. The manufacturer or the agent is to certify that the system has been installed and commissioned in accordance with its design, conditions of accreditation and any additional requirements of the Council.
- 2.2 The Council should require that all electrical work must be carried out by a licensed electrician and in accordance with the relevant provisions of AS/NZS 3000.

## **3.0 Maintenance**

- 3.1 The Council shall require the owner/occupier of a premises to enter into an annual service contract with an accredited representative of Nubian Water Systems Pty Ltd or a service contractor or company acceptable to the Council.
- 3.2 The Nubian Oasis DGTS shall be serviced at four monthly intervals in accordance with the details set out in the owner's and service manual.

It is the intention to connect the Nubian Oasis DGTS to a central base by telephone line and regularly monitor the system to ensure that optimum operation of the system is maintained at all times. With the remote monitoring program installed, the Nubian Oasis DGTS shall be serviced at six monthly intervals in accordance with the details set out in the service manual.

- 3.3 Each service shall include a check on all mechanical, electrical and functioning parts of the system including:
  - Operation of the pre-screen, treatment module and UV disinfection unit,
  - Integrity assessment of plumbing fittings,
  - Operation and safety of the electrical systems,
  - The alarm system,
  - The effective operation of the effluent re-use options,
- 3.4 The Council should require that a service report sheet, in triplicate, be completed for each service. The original shall be given to the owner, the duplicate forwarded to the Council and the triplicate retained by the service contractor.

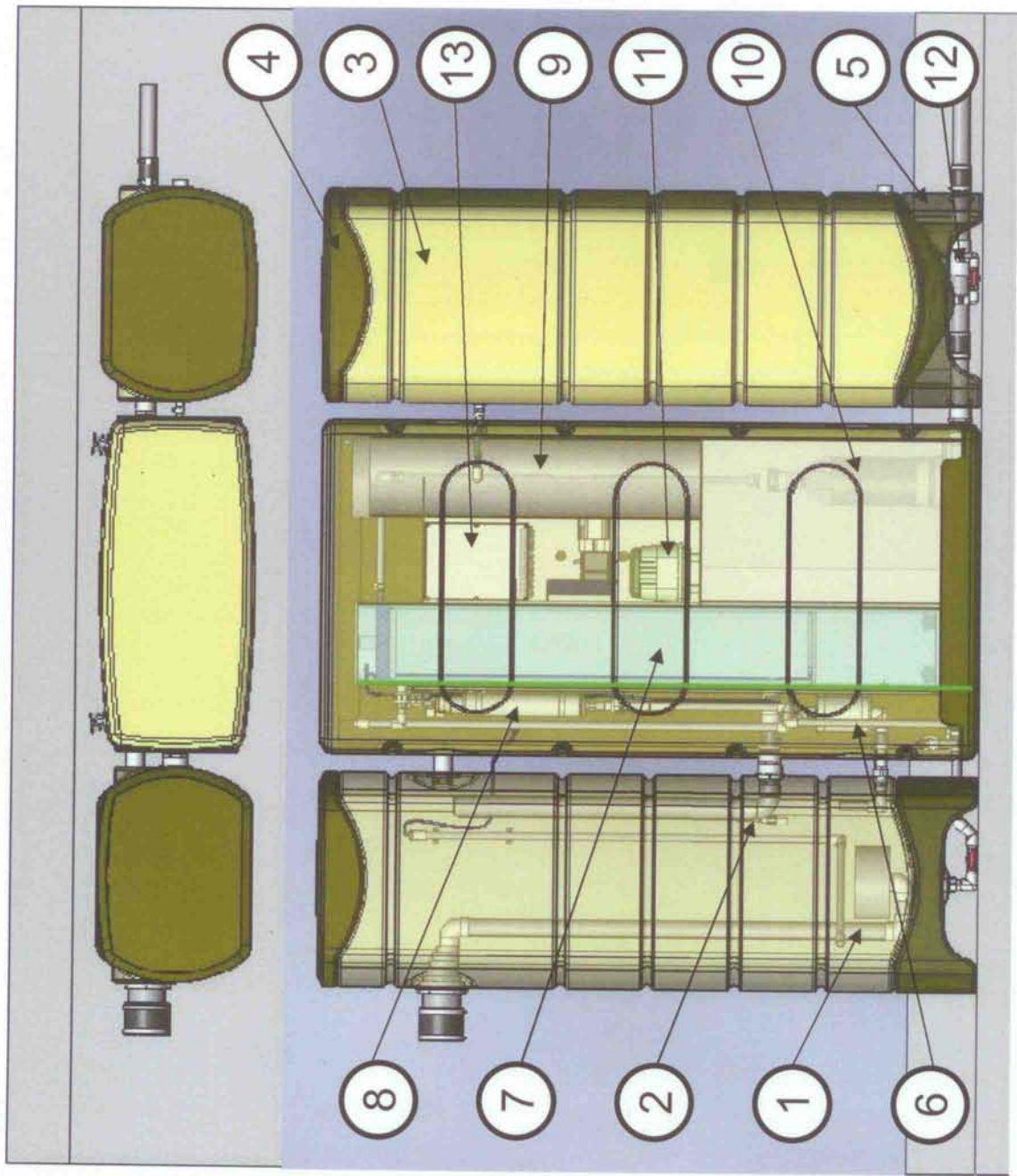
#### **4.0 On-going Management**

- 4.1 The owner's manual prepared by the manufacturer shall contain a plan for the on-going management of the Nubian Oasis DGTS. The plan shall include details of:
- the treatment process,
  - procedures to be followed in the event of a system failure,
  - emergency contact numbers,
  - maintenance requirements,
  - inspection and sampling procedures to be followed as part of the on-going monitoring program developed by the local authority.
- 4.2 At each anniversary of the accreditation date the manufacturer shall submit to NSW Health a list of all Nubian Oasis DGTS installed in NSW during the previous twelve months. NSW Health will randomly select up to 10% of the installed Nubian Oasis DGTS from each year of installation. The manufacturer, at its own cost, shall arrange for the selected Nubian Oasis DGTS to be inspected and sampled. Sampling is to be organised by an independent JAS/ANZ accredited agency. Samples for BOD<sub>5</sub>, SS, Thermotolerant coliforms are to be determined by a NATA registered laboratory, and samples for disinfectant concentration, if applicable, are to be determined on site. The results are to be reported to NSW Health by:
- address of premises,
  - date inspected and sampled,
  - sample identification number,
  - BOD<sub>5</sub>,
  - SS,
  - Thermotolerant coliforms,
  - details of type and condition of UV disinfection unit, and
  - service history (if available)
- 4.3 Effluent from the Nubian Oasis DGTS taken in any random grab sample shall comply with the following standard:
- BOD<sub>5</sub> less than 20 mg/L
  - SS less than 20 mg/L
  - Thermotolerant coliforms less than 10 cfu/100 ml

#### **5.0 Permitted uses**

- 5.1 The effluent is suitable for re-use for the following purposes:
- toilet flushing;
  - cold water supply to washing machine;
  - garden purposes by irrigation of a type approved by the local Council.

1	Solids separation
2	Tank overflow
3	Tank body
4	Tank lid
5	Tank base
6	Greywater pump
7	Treatment column
8	UV disinfection
9	Backwash tank
10	Backwash pump
11	Aeration blower
12	Drain valve
13	PCB controller



**APPROVED**  
 - 4 MAY 2007  
 DEPARTMENT OF HEALTH, N.S.W.