



## **environmental affairs**

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

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Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2882

**Ref: 12/9/11/L817/8**

**Enquiries: Mr MM Tshitangoni**

**Tel. 012 310 3380 Fax: 012 310 3753 Email Address: [mtshitangoni@environment.gov.za](mailto:mtshitangoni@environment.gov.za)  
[www.environment.gov.za](http://www.environment.gov.za)**

Ms T Cheetham  
National Research foundation  
P O Box 2600  
PRETORIA  
0001

**Fax: 011 442 2454**

Dear Licence Holder

Please find hereto attached a waste management licence issued in terms of S.49 of the National Environmental Management Waste Act, 2008 (Act 59 of 2008) "NEMWA".

In terms of regulation 10(2) of the Environmental Impact Assessment Regulations, 2010 (the Regulations), you are instructed to notify all registered interested and affected parties, in writing and within 12 (twelve) days of the date of the licence, of the Department's decision in respect of your application as well as the provisions regarding the submission of appeals that are contained in the Regulations.

Your attention is drawn to Chapter 7 of the Regulations, which prescribes the appeal procedure to be followed. The appeal procedure is summarised in Annexure 1 of the licence. Kindly include a copy of this document with the letter of notification to interested and affected parties.

Should the applicant or any other party wish to appeal any aspect of the decision a notice of intention to appeal must be lodged by all prospective appellants with the Minister, within 20 days of the date of the licence. Please include the Department (*Attention: Director: Authorisations and Waste Disposal Management*) in the list of interested and affected parties, notified through your notification letter to interested and affected parties, for record purposes.



## **environmental affairs**

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

Ref: 12/9/11/L817/8

Enquiries: Mr Mpho Tshitangoni

Tel: (012) 310-3380 Fax: (012) 310-3753 Email: [mtshitangoni@environment.gov.za](mailto:mtshitangoni@environment.gov.za)  
[www.environment.gov.za](http://www.environment.gov.za)

LICENCE NUMBER: 12/9/11/L817/8

CLASS: H:H (WASTEWATER TREATMENT WORKS)

WASTE MANAGEMENT FACILITY: MEY'S DAM WASTEWATER TREATMENT WORKS

LOCATION: FARM 68 MEY'S DAM, CARNARVON,  
KAROO DISTRICT MUNICIPALITY,  
NORTHERN CAPE PROVINCE.

LICENCE HOLDER: NATIONAL RESEARCH FOUNDATION

ADDRESS: P O BOX 2600, PRETORIA, 0001

CONTACT PERSON: MS T CHEETHAM

CONTACT DETAILS: TEL: 011 442 2434 FAX: 011 442 2454

### **LICENCE IN TERMS OF SECTION 49(1)(a) OF THE NATIONAL ENVIRONMENTAL MANAGEMENT: WASTE ACT, 2008(ACT NO. 59 OF 2008)**

In terms of National Environmental Management: Waste Act, 2008 (Act No.59 of 2008) read with the Environmental Impact Assessment Regulations, 2010, published in Government Notice No.R.543 of 18 June 2010 (the Regulations); the Deputy Director General: Environmental Quality and Protection, acting under delegation, hereby grants National Research Foundation (NRF) a Waste Management Licence for the following waste management activities as listed in Category A of Government Notice No 718 dated 03 July 2009:

- (11) The treatment of effluent, wastewater or sewage with an annual throughput capacity of more than 2 000 cubic metres but less than 15 000 cubic metres.
- (18) The construction of facilities for activities listed in category A of the schedule.



In this Licence, "Director" means the Director: Authorisations and Waste Disposal Management of the National Department of Environmental Affairs who may be contacted at the address below:

Director: Authorisations and Waste Disposal Management  
Department of Environmental Affairs  
Private Bag X 447  
PRETORIA  
0001

In this Licence, "Director: RPW" means the Director: Resource Protection and Waste of the National Department of Water Affairs (DWA) who may be contacted at the address below:

Director: Resource Protection and Waste  
Department of Water Affairs  
Private Bag X 313  
PRETORIA  
0001

1. SITE DETAILS

1.1 LOCATION

1.1.1 This Licence authorises the construction and operation of a wastewater treatment works on Farm 68 Mey's Dam in Camarvon within the jurisdiction of Karoo District Municipality in Northern Cape Province (hereafter referred to as "the Site").

1.1.2 The location of the Site must be according to the co-ordinates indicated on the licence application form, which is defined as follows:

| Number of corners | Latitude         | Longitude        |
|-------------------|------------------|------------------|
| A                 | 30° 43' 27.5952" | 21° 27' 22.6686" |
| B                 | 30° 43' 27.5376" | 21° 27' 22.1876" |
| C                 | 30° 43' 27.7716" | 21° 27' 22.2236" |
| D                 | 30° 43' 27.8286" | 21° 27' 22.7046" |

1.2 DOCUMENTS CONSIDERED

1.2.1 The Final Basic Assessment Report for the construction of Mey's Dam Wastewater treatment works compiled Strategic Environmental Focus (SEF) Consultant, dated December 2011 and hereinafter referred to as "Report"; and

1.2.2 The Waste Management Licence Application Form dated 13 October 2011.



13.10 In terms of section 28 and 30 of the NEMA and section 19 and 20 of the National Water Act No.36 of 1998, any costs incurred to remedy environmental damage must be borne by the person responsible for the damage. It is therefore imperative that the Licence Holder reads through and understands the legislative requirements pertaining to the project. It is the Applicant's responsibility to take reasonable measures which include informing and educating contractors and employees about the environmental risks of their work and training them to operate in an environmentally acceptable manner.

13.11 This Licence is valid for a period of twenty (20) years and shall be reviewed every ten (10) years from the date of issue or at any time before or after that date. Based on the results of the review, especially compliance to Licence conditions or recommendations from the audit reports and or changing legislation, the Licence could be amended or withdrawn or the validity thereof extended.

#### 14. APPEAL OF LICENCE

14.1 The Licence Holder must notify every registered interested and affected party, in writing and within ten (10) days, of receiving the Department's decision.

14.2 The notification referred to in 14.1. must –

14.2.1 Specify the date on which the Licence was issued;

14.2.2 Inform the registered interested and affected party of the appeal procedure provided for in Chapter 7 of GN No. R 543 of 18 June 2010 in terms of National Environmental Management Act, 1998, as amended (see Annexure 1);

14.2.3 Advise the interested and affected party that a copy of the Licence will be furnished on request; and

14.2.4 An appeal against the decision must be lodged in terms of chapter 7 of GN No. R 543 of 18 June 2010 in terms of NEMA 1998, as amended, from the date of this licence, with: The Minister, Department of Environmental Affairs, Private Bag X 447, PRETORIA, 0001, Tel No.: (012) 310 3705, Fax No.: (012) 320 7561.

  
Mr Sonnyboy Bapela

ACTING DEPUTY DIRECTOR-GENERAL: ENVIRONMENTAL QUALITY & PROTECTION

DATE: 27-03-2012



**ANNEXURE I**

**APPEALS PROCEDURE IN TERMS OF CHAPTER 7 OF R. 543 OF 2010 TO BE FOLLOWED BY THE APPLICANT AND INTERESTED AND AFFECTED PARTIES UPON RECEIPT OF NOTIFICATION OF A WASTE MANAGEMENT LICENCE**

| APPLICANT                                                                                                                                                                                                                                                                    | INTERESTED AND AFFECTED PARTIES (IAPs)                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Receive a notification of a Waste Management Licence from the relevant Competent Authority                                                                                                                                                                                | 1. Receive a notification of a Waste Management Licence from Applicant/Consultant                                                                                                                                                                         |
| 2. Within 10 days of receipt of notification, notify the relevant Competent Authority and all IAPs of intention to appeal                                                                                                                                                    | 2. Within 10 days of receipt of notification, notify the relevant Competent Authority of intention to appeal                                                                                                                                              |
| 3. Notification served by the Applicant must include:<br>3.1. A copy of the notice of intention to appeal; and<br>3.2. A notice indicating where and for what period the appeal submission will be available for inspection by all IAPs                                      | 3. Appellant must serve on the Applicant<br>3.1. A copy of the notice of intention to appeal<br>3.2. A notice indicating where and for what period the appeal submission will be available for inspection by the applicant                                |
| 4. The appeal must be submitted to the relevant Competent Authority or delegated organ of State within 30 days of lodging of the notice of intention to appeal                                                                                                               | 4. The appeal must be submitted to the relevant Competent Authority or delegated organ of State within 30 days of lodging of the notice of intention to appeal                                                                                            |
| 5. A person or organ of state that receives notice of an appeal may submit a responding statement to the relevant Competent Authority or delegated organ of state within 30 days from the date that the appeal submission was made available for inspection by the appellant | 5. An Applicant that receives notice of an appeal may submit a responding statement to the relevant Competent Authority or delegated organ of State within 30 days from the date the appeal submission was made available for inspection by the appellant |

**NOTES:**

**1. An appeal against a decision must be lodged with:-**

- a) the Minister of Water and Environmental Affairs if the decision was issued by the Director-General of the Department of Environmental Affairs (or another official) acting in his/ her capacity as the delegated Competent Authority;
- b) The delegated organ of state where relevant.

**2. An appeal lodged with:-**

- a) The Minister of Water and Environmental Affairs must be submitted to the Department of Environmental Affairs by means of one of the following methods:

By facsimile: (012) 320 7561

By post: Private Bag X 447, Pretoria, 0001; or



By hand: 2nd Floor, Fedsure Forum Building, North Tower, cnr Pretorius and  
van der Walt Streets, Pretoria.

- b) The delegated organ of state, where relevant, must be submitted to the delegated organ of state.

**3. An appeal must be:-**

- a) On an official form obtainable or published by the relevant department.
- b) Accompanied by:
  - a statement setting out the grounds of appeal;
  - supporting documentation which is referred to in the appeal and is not available to the relevant Competent Authority;
  - a statement that the appellant has complied with regulation 62 (2) or (3) together with copies of the notices referred to in regulation 62;
  - The prescribed appeal fee, if any.

**4. A copy of the official appeal form can be obtained from:**

Mr TH Zwane  
Senior Legal Administration (Appeals)  
Tel: 012 310 3929  
[twane@environment.gov.za](mailto:twane@environment.gov.za) or

Mr TR Rambuda  
Legal Administration Officer (Appeals)  
Tel: 012 310 1758  
[trambuda@environment.gov.za](mailto:trambuda@environment.gov.za)

**ANNEXURE II****INFORMATION WHICH SHALL BE SUBMITTED ON AN ANNUAL BASIS: CONDITION 8.1**

\* = Indicate with an X. Please print legibly.

|                     |                               |
|---------------------|-------------------------------|
| NAME OF SITE: _____ | DATE OF REPORT: _____ (y/m/d) |
|---------------------|-------------------------------|

1. Registered owner(s) of property on which of wastewater treatment works is situated:

|                |             |  |
|----------------|-------------|--|
| Name           | Telephone   |  |
| Postal Address | Fax         |  |
|                | Postal Code |  |

2. Operator in control of wastewater treatment plant:

|                              |                  |  |
|------------------------------|------------------|--|
| Name                         | Telephone        |  |
| Identity number              | Tel. After hours |  |
| Educational Qualifications   |                  |  |
| Other Relevant competencies: |                  |  |

3. Indicate the approximate quantities of wastewater treated at plant during the year:

|            |  |  |
|------------|--|--|
| Wastewater |  |  |
|            |  |  |
|            |  |  |
| TOTAL      |  |  |

4. Indicate approximate quantities of sludge treated reused or disposed during the year:

|       |  |  |
|-------|--|--|
|       |  |  |
|       |  |  |
|       |  |  |
| TOTAL |  |  |

I, the undersigned, declare that the information stated above is to my knowledge a true reflection of the status at the Mey's Dam wastewater treatment plant.

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Capacity: \_\_\_\_\_

Place: \_\_\_\_\_

Date: \_\_\_\_\_



## LICENCE CONDITIONS

### 1.3 SITE SECURITY AND ACCESS CONTROL

1.3.1 The Licence Holder must ensure effective access control of the Waste Management Site to prevent unauthorised entry. Weatherproof, durable and legible signs in at least three official languages applicable in the area must be displayed at each entrance to the site. The signs must indicate the risks involved in entering the Site, warn against the use of water containing waste and must include the name, address and telephone number of the Licence Holder and the person responsible for the operation of the Site.

1.3.2 The Licence Holder must prevent treatment of waste that is not authorised for treatment at the Site as per condition 3.1 below.

## 2. MANAGEMENT

### 2.1 GENERAL MANAGEMENT

2.1.1 The activities shall be managed and operated:

- a) In accordance with a documented Environmental Management System (EMS), that, inter alia, identifies and minimises the risk of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformance as well as those drawn to the attention of the Licence Holder as a result of complaints;
- b) In accordance with conditions of this Licence and any other written instruction by the Director; and
- c) By an adequate, competent staff complement.

2.1.2 Any persons having duties that are or may be affected by this Licence must have convenient access to a copy thereof, which copy must be kept at or near the place where those duties are carried out.

2.1.3 A copy of this Licence may be published by the Department, in its discretion, on any website or other media.

### 2.2 DESIGNATION OF WASTE MANAGEMENT CONTROL OFFICER

2.2.1 A Waste Management Control Officer (WMCO) must be designated to monitor and ensure compliance and correct implementation of all mitigation measures and provisions as stipulated in the licence and standard operation procedures. The WMCO must:

- (a) Report any non-compliance with any Licence conditions or requirements or provisions of NEM:WA to the licencing authority.

2.2.2 The duties and responsibility of the WMCO should not be seen as exempting the Licence Holder from any other legal obligations in terms of the NEM:WA



## 2.3 EMERGENCY PREPAREDNESS PLAN

2.3.1 The Licence Holder must maintain and implement an emergency preparedness plan and review it annually when conducting an audit, after each emergency incident and major accident. The plan must, amongst others, include measures to address:

- a) Power failure;
- b) Equipment malfunction;
- c) Site fires;
- d) Spillage (en route and on Site);
- e) Natural disasters such as floods; and
- f) The plan must include contact details of the nearest police station, ambulance services and the emergency centre.

## 3. PERMISSIBLE WASTE

3.1 Any portion of the Site, which has been constructed or developed according to condition 4 below, may be used for the treatment of wastewater with an annual throughput capacity of 2000 cubic metres but less than 15000 cubic metres.

3.2 The classification, acceptance and disposal criteria as listed in the latest edition of the document "Minimum Requirements for Handling, Classification and Disposal of Hazardous Waste, Waste Management Series, Department of Water Affairs and Forestry" or its successor must be conformed to.

## 4. CONSTRUCTION OF THE FACILITY

4.1 The construction of the Site must be according to the engineering drawing (site plan) that is approved by a registered professional engineer as compliant with recognised civil engineering standards.

4.2 The site plan must only be changed under the supervision of a registered professional engineer.

4.3 The treatment areas must have firm and impermeable base to prevent contamination of ground water.

4.4 The Licence Holder must ensure that all facilities used as reagent storage tanks and reaction units are bunded. These bunded areas must be built to handle the total capacity of the relevant tanks/ units and must be provided with sumps and pumps to return any spilled material back into the system.

## 5. GENERAL IMPACT MANAGEMENT AND OPERATION

### 5.1 IMPACT MANAGEMENT

5.1.1 Waste, which is not permissible under condition 3, must be dealt with according to relevant legislation or the Department's policies and practices.



- 5.1.2 The Licence Holder must prevent spillages. Where they happen nonetheless, condition 2.3.1 above shall apply and the Licence Holder must ensure the effective and safe cleaning of such spillages.
- 5.1.3 The treatment of effluent and wastewater must not impact on a water resource or on any other person's water use, property or land and must not be detrimental to the health and safety of the public in the vicinity of the activity.
- 5.1.4 The Licence Holder must ensure that emissions from the activities shall be free from odour at levels likely to cause annoyance.
- 5.1.5 The Licence Holder must prevent the occurrence of nuisance conditions or health hazards.
- 5.1.6 The pipelines used for the conveyance of water containing waste must be painted in a conspicuous colour or manufactured of a coloured material distinctly different from the colour of the pipes in which drinking water is flowing to avoid the possibility of any cross-connection of the different pipelines.
- 5.1.7 All stop-valves and taps on the pipelines conveying water containing waste must be of a type that can be opened and closed by means of a loose wrench. The wrench must be in the safe keeping of the Licence Holder or delegated member of the staff to prevent unauthorised use thereof.
- 5.1.8 The Licence Holder must ensure that all personnel who work with hazardous waste are trained to deal with these potential hazardous situations so as to minimise the risks involved. Records of training and verification of competence must be kept by the Licence Holder.
- 5.2 OPERATION
- 5.2.1 The Licence Holder must ensure that the treated sludge adheres to "the Guidelines for the Utilisation and Disposal of Wastewater Sludge", Water Research Commission Reports, Volumes 1-5 published by the Department of Water Affairs and Forestry, dated March 2008.
- 5.2.2 The Licence Holder must ensure that the wastewater treatment works operates within its design parameters at all times.
- 5.2.3 The Licence Holder must ensure that non-biodegradable solids and the sludge are disposed of at a waste management facility licenced to accept such wastes.
- 5.2.4 The Licence Holder must take all reasonable steps to ensure that the integrity of the waterproof base and infrastructure are routinely monitored and corrective action must be taken before containment integrity is breached.
- 5.2.5 The treated effluent may be discharged if it complies with the General Standards, as published by the Department of Water Affairs in Government Notice 991 of 18 May 1984 or its successor.



- 5.2.6 No effluent must be discharged into any storm water drain or furrow, whether by commission or by omission.

**6. MONITORING**

**6.1 MONITORING METHODS AND PARAMETERS**

- 6.1.1 The Licence Holder must carry out all tests required in terms of this Licence in accordance with published laboratory analysis methods or those prescribed by and obtainable from the South African Bureau of Standards (SABS), referred to in the Standards Act, 2008 (Act 08 of 2008).

- 6.1.2 The Licence Holder may only use another method of analysis if approved by the Department.

**6.2 WATER QUALITY MONITORING**

- 6.2.1 Surface water monitoring shall be performed in all storm water drains on and adjacent to the Site at locations selected in conjunctions with the Department of Water Affairs and at such a frequency as determined by the responsible authority.

**6.3 INVESTIGATIVE MONITORING**

- 6.3.1 If, in the opinion of the Director or Director: RPW, a water quality variable at any monitoring point referred to in condition 6.2.1 above shows an increasing trend, the Licence Holder shall report in terms of condition 9 below.

**7. INVESTIGATIONS**

- 7.1 If, in the opinion of the Director, environmental pollution, nuisances or health risks may be occurring or are occurring on the Site, the Licence Holder must initiate an investigation into the cause of the problem or suspected problem.

- 7.2 If, in the opinion of the Director and/or Director: RPW, water pollution may be occurring or is occurring, the Licence Holder must initiate an investigation into the cause of the problem or suspected problem. Such investigation must include the monitoring of the water quality variables at those monitoring points and at such frequency as may be specified by Director: RPW.

- 7.3 Should the investigation carried out as per conditions 7.1 and 7.2 above reveal any unacceptable levels of pollution, the Licence Holder must submit mitigation measures to the satisfaction of the Director.

**8. RECORDS**

- 8.1 The Licence Holder must keep records and update all the information referred to in Annexure II and submit this information to the Director on an annual basis.

- 8.2 All records required or resulting from activities required by this Licence must:



- (a) Be legible;
- (b) Be made as soon as reasonably practicable and should form part of the external audit report;
- (c) If amended, be amended in such a way that the original and any subsequent amendments remain legible and are easily retrievable; and
- (d) Be retained in accordance with documented procedures.

8.3 Records demonstrating compliance with condition 2.1.1 must be maintained for five years.

## 9. REPORTING

9.1 The Licence Holder must, within 24 hours, notify the Director of the occurrence or detection of any incident on the Site, or incidental to the operation of the site, which has the potential to cause, or has caused pollution of the environment, health risks, nuisance conditions or water pollution.

9.2 The Licence Holder must, within 14 days, or a shorter period of time, if specified by the Director, from the occurrence or detection of any incident referred to in condition 9.1, submit an action plan, which must include a detailed time schedule, and resource allocation, signed off by top management, to the satisfaction of the Director and/or the Director: RPW of measures taken to –

- a) Correct the impact resulting from the incident;
- b) Prevent the incident from causing any further impact; and
- c) Prevent a recurrence of a similar incident.

9.3 In the event that measures have not been implemented within 21 days of the incident to address impacts caused by the Incident referred to in condition 9.1, or measures which have been implemented are inadequate, the Director may implement the necessary measures at the cost and risk of the Licence Holder.

9.4 The Licence Holder must keep an incident and complaints register, which must be attached to the external audit report, as well as the Department and DWA for audit purposes.

9.5 The Department must be notified without delay in the case of the following:

- a) Any malfunction, breakdown or failure of equipment or techniques, accident or fugitive emission which has caused, is causing or may cause significant pollution;
- b) The breach of this Licence; and
- c) Any significant adverse environmental and health effects.

9.6 The Department must be notified within 14 days of the following changes:

- a) Licence Holder's trading name, registered name or registered office address;
- b) Particulars of the licence Holder's ultimate holding company (including details of an ultimate holding where a licence holder has become a subsidiary; and
- c) Steps taken with a view to the Licence Holder, or any one of them, going into bankruptcy, entering into arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.



- 9.7 Each external audit report referred to in condition 10.2 below must be submitted to the Director within 30 days from the date on which the external auditor finalised the audit.

## 10. AUDITING

### 10.1 INTERNAL AUDITS

- 10.1.1 Internal audits must be conducted annually by the Licence Holder and on each audit occasion an official report must be compiled by the relevant auditor to report the findings of the audits, which must be made available to the external auditor specified in condition 10.2.1.

### 10.2 EXTERNAL AUDITS

- 10.2.1 The Licence Holder must appoint an independent external auditor to audit the site biannually and the auditor must compile an audit report documenting the findings of the audit, which must be submitted by the licence holder according to condition 9.7 above.

- 10.2.2 The audit report must:

- a) Specifically state whether conditions of this licence are adhered to;
- b) Include an interpretation of all available data and test results regarding the operation of the Lilliput system and all its impacts on the environment;
- c) Specify target dates for the implementation of the recommendations by the Licence Holder to achieve compliance;
- d) Contain recommendations regarding non-compliance or potential non-compliance and must specify target dates for the implementation of the recommendations by the Licence Holder and whether corrective action taken for the previous audit non conformities was adequate; and
- e) Show monitoring results graphically and conduct trend analysis.

### 10.3 DEPARTMENTAL AUDITS AND INSPECTIONS

- 10.3.1 The Department reserves the right to audit and/or inspect the Site without prior notification at any time and at such frequency as may be determined by the Director.

- 10.3.2 The Licence Holder must make any records or documentation available to the Director upon request, as well as any other information he/she may require.

## 11. LEASING AND ALIENATION OF THE SITE

- 11.1 Should the Licence Holder want to alienate or lease the Site, he/she must notify the Director in writing of such an intention at least 120 days prior to the said transaction for approval.

- 11.2 Should the approval be granted, the subsequent Licence Holder shall remain liable for compliance with all licence conditions.



12. **TRANSFER OF WASTE MANAGEMENT LICENCE**

12.1 Should the Licence Holder want to transfer the Licence, he/she must apply in terms of Section 52 of the National Environmental Management: Waste Act, 2008 (Act No 59 of 2008).

12.2 Any subsequent Licence Holder shall be bound by conditions of the Licence.

13. **GENERAL**

13.1 The construction of the licenced activity may not commence within twenty (20) days of the date of signature of this Licence.

13.2 Should the Licence Holder be notified by the Minister in writing of a suspension of the Licence pending any appeals decision, you may not commence with the activities licenced by the Minister.

13.3 After the appeal period has expired and no good cause to extend the appeal period has been submitted, the activity may commence provided a notice has been submitted to the Department. The notice must include a date on which it is anticipated that the activity will commence.

13.4 The activity must commence within a period of two (2) years from the date of issue. If commencement of the activity does not occur within that period, the Licence lapses and a new application for a Licence must be made in order for the activity to be undertaken.

13.5 If the Licence Holder anticipates that commencement of the activity would not occur within two (2) year period, he/she must apply and show good cause for an extension of the licence six (6) months prior to its expiry date.

13.6 This Licence shall not be transferable unless such transfer is subject to condition 12.1.

13.7 This Licence shall not be construed as exempting the Licence Holder from compliance with the provisions of National and Provincial Legislation and any relevant Ordinance, Regulation, By-law or relevant National Norms and Standards.

13.8 Transgression of any condition of this Licence could result in the Licence being withdrawn by the Department.

13.9 Non-compliance with a condition of this Licence may result in criminal prosecution or other actions provided for in Section 67 (1) of the National Environmental Management: Waste Act, 2008.

LOSBERG



## environmental affairs

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Ms T Cheetham  
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**Fax: 011 422 2454**

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Your attention is drawn to Chapter 7 of the Regulations, which prescribes the appeal procedure to be followed. The appeal procedure is summarised in Annexure 1 of the licence. Kindly include a copy of this document with the letter of notification to interested and affected parties.

Should the applicant or any other party wish to appeal any aspect of the decision a notice of intention to appeal must be lodged by all prospective appellants with the Minister, within 20 days of the date of the licence. Please include the Department (*Attention: Director: Authorisations and Waste Disposal Management*) in the list of interested and affected parties, notified through your notification letter to interested and affected parties, for record purposes.

The authorised activity/ies shall not commence within twenty (20) days of the date of signature of the licence. Furthermore, please note that the Minister may, on receipt of appeals against the authorisation or conditions thereof suspend the authorisation pending the outcome of the appeals procedure.

Yours sincerely



**Mr Ishaam Abader**

**Deputy Director-General: Environmental Quality and Protection**

**Department of Environmental Affairs**

**Letter signed by Mr Mpho Tshitangoni**

**Designation: Director: Authorisations and Waste Disposal Management**

**Date:** 28/03/2012

**Cc:** Vicki Napier

Strategic Environmental Focus

Fax: 012 349 1229



## environmental affairs

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Environmental Affairs  
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Enquiries: Mr Mpho Tshitangoni

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LICENCE NUMBER: 12/9/11/L758/8

CLASS: H:H (WASTEWATER TREATMENT WORKS)

WASTE MANAGEMENT FACILITY: LOSBERG WASTEWATER TREATMENT WORKS

LOCATION: FARM 73 LOSBERG, CARNARVON, KAROO DISTRICT MUNICIPALITY, NORTHERN CAPE PROVINCE.

LICENCE HOLDER: NATIONAL RESEARCH FOUNDATION

ADDRESS: P O BOX 2600, PRETORIA, 0001

CONTACT PERSON: MS TRACY CHEETHAM

CONTACT DETAILS: TEL: 011 442 2434 FAX: 011 422 2454

### LICENCE IN TERMS OF SECTION 49(1)(a) OF THE NATIONAL ENVIRONMENTAL MANAGEMENT: WASTE ACT, 2008(ACT NO. 59 OF 2008)

In terms of National Environmental Management: Waste Act, 2008 (Act No.59 of 2008) read with the Environmental Impact Assessment Regulations, 2010, published in Government Notice No.R.543 of 18 June 2010 (the Regulations), the Deputy Director General: Environmental Quality and Protection, acting under delegation, hereby grants National Research Foundation (NRF) a Waste Management Licence for the following waste management activities as listed in Category A of Government Notice No 718 dated 03 July 2009:

- (11) The treatment of effluent, wastewater or sewage with an annual throughput capacity of more than 2 000 cubic metres but less than 15 000 cubic metres.
- (18) The construction of facilities for activities listed in category A of the schedule (not in isolation to associated activity):



In this Licence, "Director" means the Director: Authorisations and Waste Disposal Management of the National Department of Environmental Affairs who may be contacted at the address below:

Director: Authorisations and Waste Disposal Management  
Department of Environmental Affairs  
Private Bag X 447  
**PRETORIA**  
0001

In this Licence, "Director: RPW" means the Director: Resource Protection and Waste of the National Department of Water Affairs (DWA) who may be contacted at the address below:

Director: Resource Protection and Waste  
Department of Water Affairs  
Private Bag X 313  
**PRETORIA**  
0001

## 1. SITE DETAILS

### 1.1 LOCATION

- 1.1.1 This Licence authorises the construction and operation of a wastewater treatment works on Farm Losberg 73, Camarvon, within the jurisdiction of Karoo District Municipality in the Northern Cape Province (hereafter referred to as "the Site").
- 1.1.2 The location of the Site must be according to the co-ordinates indicated on the licence application form, which is defined as follows:

| Number of corners | Latitude         | Longitude       |
|-------------------|------------------|-----------------|
| A                 | 30° 45' 36.8568" | 21° 24' 21.063" |
| B                 | 30° 45' 36.8568" | 21° 24' 21.384" |
| C                 | 30° 45' 37.083"  | 21° 24' 21.384" |
| D                 | 30° 45' 37.083"  | 21° 24' 21.063" |

### 1.2 DOCUMENTS CONSIDERED

- 1.2.1 The Final Basic Assessment Report for the construction of Losberg wastewater treatment works compiled Strategic Environmental Focus Consultants, dated December 2011 and hereinafter referred to as "Report"; and
- 1.2.2 The Waste Management Licence Application Form dated 13 October 2011.



## LICENCE CONDITIONS

### 1.3 SITE SECURITY AND ACCESS CONTROL

1.3.1 The Licence Holder must ensure effective access control of the Waste Management Site to prevent unauthorised entry. Weatherproof, durable and legible signs in at least three official languages applicable in the area must be displayed at each entrance to the site. The signs must indicate the risks involved in entering the Site, warn against the use of water containing waste and must include the name, address and telephone number of the Licence Holder and the person responsible for the operation of the Site.

1.3.2 The Licence Holder must prevent treatment of waste that is not authorised for treatment at the Site as per condition 3.1 below.

## 2. MANAGEMENT

### 2.1 GENERAL MANAGEMENT

2.1.1 The activities shall be managed and operated:

- a) In accordance with a documented Environmental Management System (EMS), that, inter alia, identifies and minimises the risk of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformance as well as those drawn to the attention of the Licence Holder as a result of complaints;
- b) In accordance with conditions of this Licence and any other written instruction by the Director; and
- c) By an adequate, competent staff complement.

2.1.2 Any persons having duties that are or may be affected by this Licence must have convenient access to a copy thereof, which copy must be kept at or near the place where those duties are carried out.

2.1.3 A copy of this Licence may be published by the Department, in its discretion, on any website or other media.

### 2.2 DESIGNATION OF WASTE MANAGEMENT CONTROL OFFICER

2.2.1 A Waste Management Control Officer (WMCO) must be designated to monitor and ensure compliance and correct implementation of all mitigation measures and provisions as stipulated in the licence and standard operation procedures. The WMCO must:

- (a) Report any non-compliance with any Licence conditions or requirements or provisions of NEM:WA to the licencing authority.

2.2.2 The duties and responsibility of the WMCO should not be seen as exempting the Licence Holder from any other legal obligations in terms of the NEM:WA.



2.3 EMERGENCY PREPAREDNESS PLAN

2.3.1 The Licence Holder must maintain and implement an emergency preparedness plan and review it annually when conducting an audit, after each emergency incident and major accident. The plan must, amongst others, include measures to address:

- a) Power failure;
- b) Equipment malfunction;
- c) Site fires;
- d) Spillage (en route and on Site);
- e) Natural disasters such as floods; and
- f) The plan must include contact details of the nearest police station, ambulance services and the emergency centre.

3. PERMISSIBLE WASTE

3.1 Any portion of the Site, which has been constructed or developed according to condition 4 below, may be used for the treatment of wastewater with an annual throughput capacity of 2000 cubic metres but less than 15000 cubic metres.

3.2 The classification, acceptance and disposal criteria as listed in the latest edition of the document "Minimum Requirements for Handling, Classification and Disposal of Hazardous Waste, Waste Management Series, Department of Water Affairs and Forestry" or its successor must be conformed to.

4. CONSTRUCTION OF THE FACILITY

4.1 The construction of the Site must be according to the engineering drawing (site plan) that is approved by a registered professional engineer as compliant with recognised civil engineering standards.

4.2 The site plan must only be changed under the supervision of a registered professional engineer.

4.3 The treatment areas must have firm and impermeable base to prevent contamination of ground water.

4.4 The Licence Holder must ensure that all facilities used as reagent storage tanks and reaction units are bunded. These bunded areas must be built to handle the total capacity of the relevant tanks/ units and must be provided with sumps and pumps to return any spilled material back into the system.

5. GENERAL IMPACT MANAGEMENT AND OPERATION

5.1 IMPACT MANAGEMENT

5.1.1 Waste, which is not permissible under condition 3, must be dealt with according to relevant legislation or the Department's policies and practices.



H:H Licence- Losberg wastewater treatment works

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- 5.1.2 The Licence Holder must prevent spillages. Where they happen nonetheless, condition 2.3.1 above shall apply and the Licence Holder must ensure the effective and safe cleaning of such spillages.
- 5.1.3 The treatment of effluent and wastewater must not impact on a water resource or on any other person's water use, property or land and must not be detrimental to the health and safety of the public in the vicinity of the activity.
- 5.1.4 The Licence Holder must ensure that emissions from the activities shall be free from odour at levels likely to cause annoyance.
- 5.1.5 The Licence Holder must prevent the occurrence of nuisance conditions or health hazards.
- 5.1.6 The pipelines used for the conveyance of water containing waste must be painted in a conspicuous colour or manufactured of a coloured material distinctly different from the colour of the pipes in which drinking water is flowing to avoid the possibility of any cross-connection of the different pipelines.
- 5.1.7 All stop-valves and taps on the pipelines conveying water containing waste must be of a type that can be opened and closed by means of a loose wrench. The wrench must be in the safe keeping of the Licence Holder or delegated member of the staff to prevent unauthorised use thereof.
- 5.1.8 The Licence Holder must ensure that all personnel who work with hazardous waste are trained to deal with these potential hazardous situations so as to minimise the risks involved. Records of training and verification of competence must be kept by the Licence Holder.
- 5.2 OPERATION
- 5.2.1 The Licence Holder must ensure that the treated sludge adheres to "the Guidelines for the Utilisation and Disposal of Wastewater Sludge", Water Research Commission Reports, Volumes 1-5 published by the Department of Water Affairs and Forestry, dated March 2008.
- 5.2.2 The Licence Holder must ensure that the wastewater treatment works operates within its design parameters at all times.
- 5.2.3 The Licence Holder must ensure that non-biodegradable solids and the sludge are disposed of at a waste management facility licenced to accept such wastes.
- 5.2.4 The Licence Holder must take all reasonable steps to ensure that the integrity of the waterproof base and infrastructure are routinely monitored and corrective action must be taken before containment integrity is breached.
- 5.2.5 The treated effluent may be discharged if it complies with the General Standards, as published by the Department of Water Affairs in Government Notice 991 of 18 May 1984 or its successor.



- 5.2.6 No effluent must be discharged into any storm water drain or furrow, whether by commission or by omission.

## 6. MONITORING

### 6.1 MONITORING METHODS AND PARAMETERS

- 6.1.1 The Licence Holder must carry out all tests required in terms of this Licence in accordance with published laboratory analysis methods or those prescribed by and obtainable from the South African Bureau of Standards (SABS), referred to in the Standards Act, 2008 (Act 08 of 2008).

- 6.1.2 The Licence Holder may only use another method of analysis if approved by the Department.

### 6.2 WATER QUALITY MONITORING

- 6.2.1 Surface water monitoring shall be performed in all storm water drains on and adjacent to the Site at locations selected in conjunctions with the Department of Water Affairs and at such a frequency as determined by the responsible authority.

### 6.3 INVESTIGATIVE MONITORING

- 6.3.1 If, in the opinion of the Director or Director: RPW, a water quality variable at any monitoring point referred to in condition 6.2.1 above shows an increasing trend, the Licence Holder shall report in terms of condition 9 below.

## 7. INVESTIGATIONS

- 7.1 If, in the opinion of the Director, environmental pollution, nuisances or health risks may be occurring or are occurring on the Site, the Licence Holder must initiate an investigation into the cause of the problem or suspected problem.

- 7.2 If, in the opinion of the Director and/or Director: RPW, water pollution may be occurring or is occurring, the Licence Holder must initiate an investigation into the cause of the problem or suspected problem. Such investigation must include the monitoring of the water quality variables at those monitoring points and at such frequency as may be specified by Director: RPW.

- 7.3 Should the investigation carried out as per conditions 7.1 and 7.2 above reveal any unacceptable levels of pollution, the Licence Holder must submit mitigation measures to the satisfaction of the Director.

## 8. RECORDS

- 8.1 The Licence Holder must keep records and update all the information referred to in Annexure II and submit this information to the Director on an annual basis.

- 8.2 All records required or resulting from activities required by this Licence must:



- (a) Be legible;
- (b) Be made as soon as reasonably practicable and should form part of the external audit report;
- (c) If amended, be amended in such a way that the original and any subsequent amendments remain legible and are easily retrievable; and
- (d) Be retained in accordance with documented procedures.

8.3 Records demonstrating compliance with condition 2.1.1 must be maintained for five years.

## 9. REPORTING

9.1 The Licence Holder must, within 24 hours, notify the Director of the occurrence or detection of any incident on the Site, or incidental to the operation of the site, which has the potential to cause, or has caused pollution of the environment, health risks, nuisance conditions or water pollution.

9.2 The Licence Holder must, within 14 days, or a shorter period of time, if specified by the Director, from the occurrence or detection of any incident referred to in condition 9.1, submit an action plan, which must include a detailed time schedule, and resource allocation, signed off by top management, to the satisfaction of the Director and/or the Director: RPW of measures taken to –

- a) Correct the impact resulting from the incident;
- b) Prevent the incident from causing any further impact; and
- c) Prevent a recurrence of a similar incident.

9.3 In the event that measures have not been implemented within 21 days of the incident to address impacts caused by the incident referred to in condition 9.1, or measures which have been implemented are inadequate, the Director may implement the necessary measures at the cost and risk of the Licence Holder.

9.4 The Licence Holder must keep an incident and complaints register, which must be attached to the external audit report, as well as the Department and DWA for audit purposes.

9.5 The Department must be notified without delay in the case of the following:

- a) Any malfunction, breakdown or failure of equipment or techniques, accident or fugitive emission which has caused, is causing or may cause significant pollution;
- b) The breach of this Licence; and
- c) Any significant adverse environmental and health effects.

9.6 The Department must be notified within 14 days of the following changes:

- a) Licence Holder's trading name, registered name or registered office address;
- b) Particulars of the licence Holder's ultimate holding company (including details of an ultimate holding where a licence holder has become a subsidiary; and
- c) Steps taken with a view to the Licence Holder, or any one of them, going into bankruptcy, entering into arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.



- 9.7 Each external audit report referred to in condition 10.2 below must be submitted to the Director within 30 days from the date on which the external auditor finalised the audit.

## 10. AUDITING

### 10.1 INTERNAL AUDITS

- 10.1.1 Internal audits must be conducted annually by the Licence Holder and on each audit occasion an official report must be compiled by the relevant auditor to report the findings of the audits, which must be made available to the external auditor specified in condition 10.2.1.

### 10.2 EXTERNAL AUDITS

- 10.2.1 The Licence Holder must appoint an independent external auditor to audit the site biannually and the auditor must compile an audit report documenting the findings of the audit, which must be submitted by the licence holder according to condition 9.7 above.

- 10.2.2 The audit report must:

- a) Specifically state whether conditions of this licence are adhered to;
- b) Include an interpretation of all available data and test results regarding the operation of the Lilliput system and all its impacts on the environment;
- c) Specify target dates for the implementation of the recommendations by the Licence Holder to achieve compliance;
- d) Contain recommendations regarding non-compliance or potential non-compliance and must specify target dates for the implementation of the recommendations by the Licence Holder and whether corrective action taken for the previous audit non conformities was adequate; and
- e) Show monitoring results graphically and conduct trend analysis.

### 10.3 DEPARTMENTAL AUDITS AND INSPECTIONS

- 10.3.1 The Department reserves the right to audit and/or inspect the Site without prior notification at any time and at such frequency as may be determined by the Director.

- 10.3.2 The Licence Holder must make any records or documentation available to the Director upon request, as well as any other information he/she may require.

## 11. LEASING AND ALIENATION OF THE SITE

- 11.1 Should the Licence Holder want to alienate or lease the Site, he/she must notify the Director in writing of such an intention at least 120 days prior to the said transaction for approval.

- 11.2 Should the approval be granted, the subsequent Licence Holder shall remain liable for compliance with all licence conditions.



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12. TRANSFER OF WASTE MANAGEMENT LICENCE

- 12.1 Should the Licence Holder want to transfer the Licence, he/she must apply in terms of Section 52 of the National Environmental Management: Waste Act, 2008 (Act No 59 of 2008).
- 12.2 Any subsequent Licence Holder shall be bound by conditions of the Licence.

13. GENERAL

- 13.1 The construction of the licenced activity may not commence within twenty (20) days of the date of signature of this Licence.
- 13.2 Should the Licence Holder be notified by the Minister in writing of a suspension of the Licence pending any appeals decision, you may not commence with the activities licenced by the Minister.
- 13.3 After the appeal period has expired and no good cause to extend the appeal period has been submitted, the activity may commence provided a notice has been submitted to the Department. The notice must include a date on which it is anticipated that the activity will commence.
- 13.4 The activity must commence within a period of two (2) years from the date of issue. If commencement of the activity does not occur within that period, the Licence lapses and a new application for a Licence must be made in order for the activity to be undertaken.
- 13.5 If the Licence Holder anticipates that commencement of the activity would not occur within two (2) year period, he/she **must** apply and **show good cause** for an extension of the licence six (6) months prior to its expiry date.
- 13.6 This Licence shall not be transferable unless such transfer is subject to condition 12.1.
- 13.7 This Licence shall not be construed as exempting the Licence Holder from compliance with the provisions of National and Provincial Legislation and any relevant Ordinance, Regulation, By-law or relevant National Norms and Standards.
- 13.8 Transgression of any condition of this Licence could result in the Licence being withdrawn by the Department.
- 13.9 Non-compliance with a condition of this Licence may result in criminal prosecution or other actions provided for in Section 67 (1) of the National Environmental Management: Waste Act, 2008.



- 13.10 In terms of section 28 and 30 of the NEMA and section 19 and 20 of the National Water Act No.36 of 1998, any costs incurred to remedy environmental damage must be borne by the person responsible for the damage. It is therefore imperative that the Licence Holder reads through and understands the legislative requirements pertaining to the project. It is the Applicant's responsibility to take reasonable measures which include informing and educating contractors and employees about the environmental risks of their work and training them to operate in an environmentally acceptable manner.
- 13.11 This Licence is valid for a period of twenty (20) years and shall be reviewed every ten (10) years from the date of issue or at any time before or after that date. Based on the results of the review, especially compliance to Licence conditions or recommendations from the audit reports and or changing legislation, the Licence could be amended or withdrawn or the validity thereof extended.

#### 14. APPEAL OF LICENCE

- 14.1 The Licence Holder must notify every registered interested and affected party, in writing and within ten (10) days, of receiving the Department's decision.
- 14.2 The notification referred to in 14.1. must –
- 14.2.1 Specify the date on which the Licence was issued;
- 14.2.2 Inform the registered interested and affected party of the appeal procedure provided for in Chapter 7 of GN No. R 543 of 18 June 2010 in terms of National Environmental Management Act, 1998, as amended (see Annexure 1);
- 14.2.3 Advise the interested and affected party that a copy of the Licence will be furnished on request; and
- 14.2.4 An appeal against the decision must be lodged in terms of chapter 7 of GN No. R 543 of 18 June 2010 in terms of NEMA 1998, as amended, from the date of this license, with: The Minister, Department of Environmental Affairs, Private Bag X 447, PRETORIA, 0001, Tel No.: (012) 310 3705, Fax No.: (012) 320 7561.

  
Mr Sonnyboy Bapela

ACTING DEPUTY DIRECTOR-GENERAL: ENVIRONMENTAL QUALITY & PROTECTION

DATE: 27-03-2012



**ANNEXURE I**

**APPEALS PROCEDURE IN TERMS OF CHAPTER 7 OF R. 543 OF 2010 TO BE FOLLOWED BY THE APPLICANT AND INTERESTED AND AFFECTED PARTIES UPON RECEIPT OF NOTIFICATION OF A WASTE MANAGEMENT LICENCE**

| APPLICANT                                                                                                                                                                                                                                                                    | INTERESTED AND AFFECTED PARTIES (IAPs)                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Receive a notification of a Waste Management Licence from the relevant Competent Authority                                                                                                                                                                                | 1. Receive a notification of a Waste Management Licence from Applicant/Consultant                                                                                                                                                                         |
| 2. Within 10 days of receipt of notification, notify the relevant Competent Authority and all IAPs of intention to appeal                                                                                                                                                    | 2. Within 10 days of receipt of notification, notify the relevant Competent Authority of intention to appeal                                                                                                                                              |
| 3. Notification served by the Applicant must include:<br>3.1. A copy of the notice of intention to appeal; and<br>3.2. A notice indicating where and for what period the appeal submission will be available for inspection by all IAPs                                      | 3. Appellant must serve on the Applicant<br>3.1. A copy of the notice of intention to appeal<br>3.2. A notice indicating where and for what period the appeal submission will be available for inspection by the applicant                                |
| 4. The appeal must be submitted to the relevant Competent Authority or delegated organ of State within 30 days of lodging of the notice of intention to appeal                                                                                                               | 4. The appeal must be submitted to the relevant Competent Authority or delegated organ of State within 30 days of lodging of the notice of intention to appeal                                                                                            |
| 5. A person or organ of state that receives notice of an appeal may submit a responding statement to the relevant Competent Authority or delegated organ of state within 30 days from the date that the appeal submission was made available for inspection by the appellant | 5. An Applicant that receives notice of an appeal may submit a responding statement to the relevant Competent Authority or delegated organ of State within 30 days from the date the appeal submission was made available for inspection by the appellant |

**NOTES:**

**1. An appeal against a decision must be lodged with:-**

- a) the Minister of Water and Environmental Affairs if the decision was issued by the Director- General of the Department of Environmental Affairs (or another official) acting in his/ her capacity as the delegated Competent Authority;
- b) The delegated organ of state where relevant.

**2. An appeal lodged with:-**

- a) The Minister of Water and Environmental Affairs must be submitted to the Department of Environmental Affairs by means of one of the following methods:  
By facsimile: (012) 320 7561  
By post: Private Bag X447, Pretoria, 0001; or  
By hand: 2nd Floor, Fedsure Forum Building, North Tower, cnr Pretorius and van der Walt Streets, Pretoria.



- b) The delegated organ of state, where relevant, must be submitted to the delegated organ of state.

**3. An appeal must be:-**

- a) On an official form obtainable or published by the relevant department.  
b) Accompanied by:
- a statement setting out the grounds of appeal;
  - supporting documentation which is referred to in the appeal and is not available to the relevant Competent Authority;
  - a statement that the appellant has complied with regulation 62 (2) or (3) together with copies of the notices referred to in regulation 62;
  - The prescribed appeal fee, if any.

**4. A copy of the official appeal form can be obtained from:**

Mr TH Zwane

Senior Legal Administration (Appeals)

Tel: 012 310 3929

[tzwane@environment.gov.za](mailto:tzwane@environment.gov.za); or

Mr TR Rambuda

Legal Administration Officer (Appeals)

Tel: 012 310 1758

[trambuda@environment.gov.za](mailto:trambuda@environment.gov.za)

**ANNEXURE II****INFORMATION WHICH SHALL BE SUBMITTED ON AN ANNUAL BASIS: CONDITION 8.1**

\* = Indicate with an X. Please print legibly.

|                     |                               |
|---------------------|-------------------------------|
| NAME OF SITE: _____ | DATE OF REPORT: _____ (y/m/d) |
|---------------------|-------------------------------|

1. Registered owner(s) of property on which of wastewater treatment works is situated:

|                |             |  |
|----------------|-------------|--|
| Name           | Telephone   |  |
| Postal Address | Fax         |  |
|                | Postal Code |  |

2. Operator in control of wastewater treatment works:

|                              |                  |  |
|------------------------------|------------------|--|
| Name                         | Telephone        |  |
| Identity number              | Tel. After hours |  |
| Educational Qualifications   |                  |  |
| Other Relevant competencies: |                  |  |

3. Indicate the approximate quantities of wastewater treated at the works during the year:

| Type of waste (Specify) | Quantity (m <sup>3</sup> annum <sup>-1</sup> ) | Source |
|-------------------------|------------------------------------------------|--------|
| Wastewater              |                                                |        |
|                         |                                                |        |
|                         |                                                |        |
| <b>TOTAL</b>            |                                                |        |

4. Indicate approximate quantities of sludge treated and disposed during the year:

| Type of waste | Quantity (m <sup>3</sup> annum <sup>-1</sup> ) | Treated, disposed |
|---------------|------------------------------------------------|-------------------|
|               |                                                |                   |
|               |                                                |                   |
|               |                                                |                   |
| <b>TOTAL</b>  |                                                |                   |

I, the undersigned, declare that the information stated above is to my knowledge a true reflection of the status at the Losberg wastewater treatment works.

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Capacity: \_\_\_\_\_

Place: \_\_\_\_\_

Date: \_\_\_\_\_