



## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

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NEAS Reference: DEA/EIA/0001374/2012

Reference: 14/12/16/3/3/3/48

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Prof Stephanie Burton  
University of Pretoria: Rectorate  
Private Bag X20  
Hatfield  
**PRETORIA**  
0028

Tel: 012 420 2946  
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### PER FACSIMILE / MAIL

Dear Professor Burton

**APPLICATION FOR AN INTEGRATED ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT NO. 107 OF 1998) AS AMENDED, AND THE NATIONAL ENVIRONMENTAL MANAGEMENT: WASTE ACT, 2008, (ACT NO. 59 OF 2008): UPGRADE OF THE HANS HOHEISEN WILDLIFE RESEARCH STATION, PORTION 2 OF THE FARM KEMPIANA 90KU, WITHIN THE BUSHBUCKRIDGE MUNICIPALITY, MPUMALANGA PROVINCE**

With reference to the above application, please be advised that the Department has decided to accept the Environmental Impact Assessment Report and grant authorisation. The environmental authorisation (EA) and reasons for the decision are attached herewith.

**Please note that activities applied for as listed in GN 718, Items 3(2), 3(11) (Category A) and Item 4(4), 4(8) (Category B) are no longer listed in terms of the new National Environmental Management: Waste Act: List of waste management activities that have, or are likely to have a detrimental effect on the environment (GN. 921 of 29 November 2013) and are thus not authorised. Please note further that the storage of waste is now listed in Category C (except for the storage of waste in lagoons). Activities listed in Category C must comply with the Norms and Standards for Storage of Waste: Government Notice 926 of 29 November 2013.**

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 EA, 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. This procedure is summarised in the attached document. 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 EA, by means of one of the following methods:

By facsimile: 0123207561;  
By post: Private Bag X447,  
Pretoria, 0001; or  
By hand: 2nd Floor, Fedsure Building, North Tower,  
Cnr. Lilian Ngoyi (Van der Walt) and Pretorius Streets,  
Pretoria.

If the applicant wishes to lodge an appeal, it must also serve a copy of the notice of intention to appeal on all registered interested and affected parties as well as a notice indicating where, and for what period, the appeal submission will be available for inspection, should you intend to submit an appeal.

Please include the Department (*Attention: Director: Integrated Environmental Authorisations*) in the list of interested and affected parties, notified through your notification letter to interested and affected parties, for record purposes.

**Appeals must be submitted in writing to:**

Mr Z Hassam Director: Appeals and Legal Review, of this Department at the above mentioned addresses or fax number. Mr Hassam can also be contacted at:

Tel: 012-310-3271  
Email: [AppealsDirectorate@environment.gov.za](mailto:AppealsDirectorate@environment.gov.za)

The authorised activities shall not commence within twenty (20) days of the date of signature of the authorisation. Further, 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 faithfully



**Mr Ishaam Abader**  
**Deputy Director-General: Legal, Authorisations, Compliance & Enforcement**  
**Department of Environmental Affairs**

Date: 20/03/2014

CC:	Ms A van der Westhuizen	NuLeaf Planning and Environmental	Tel: 083-556-7307	Fax: 086-571-6292
	Ms R Luyt	MDEDET	Tel: 013-766-4826	Fax: 013-766-4614
	Mr D Shabangu	Bushbuckridge Local Municipality	Tel: 013-799-1851	Fax: 013-799-1865
	Mr S Malaza	Compliance Monitoring (DEA)	Tel: 012-310-3397	Fax: 012-320-5744

**APPEALS PROCEDURE IN TERMS OF CHAPTER 7 OF THE NEMA EIA REGULATIONS, 2010 (THE REGULATIONS) AS PER GN R. 543 OF 2010 TO BE FOLLOWED BY THE APPLICANT AND INTERESTED AND AFFECTED PARTIES UPON RECEIPT OF NOTIFICATION OF AN ENVIRONMENTAL AUTHORISATION (EA)**

<b>APPLICANT</b>	<b>INTERESTED AND AFFECTED PARTIES (IAPs)</b>
1. Receive EA from the relevant Competent Authority (the Department of Environmental Affairs [DEA])	1. Receive EA from Applicant/Consultant
2. Within 12 days of date of the EA notify all IAPs of the EA and draw their attention to their right to appeal against the EA in terms of Chapter 7 of the Regulations.	2. N/A
3. If you want to appeal against the EA, submit a notice of intention to appeal within 20 days of the date of the EA with the Minister of Water and Environmental Affairs (the Minister).	3. If you want to appeal against the EA, submit a notice of intention to appeal within 20 days of the date of the EA with the Minister of Water and Environmental Affairs (the Minister).
4. After having submitted your notice of intention to appeal to the Minister, provide each registered IAP with a copy of the notice of intention to appeal within 10 days of lodging the notice	4. After having submitted your notice of intention to appeal to the Minister, provide the applicant with a copy of the notice of intention to appeal within 10 days of lodging the notice
5. The Applicant must also serve on each IAP: <ul style="list-style-type: none"> <li>a notice indicating where and for what period the appeal submission will be available for inspection.</li> </ul>	5. Appellant must also serve on the Applicant within 10 days of lodging the notice, <ul style="list-style-type: none"> <li>a notice indicating where and for what period the appeal submission will be available for inspection by the applicant.</li> </ul>
6. The appeal must be submitted in writing to the Minister within 30 days after the lapsing of the period of 20 days provided for the lodging of the notice of intention to appeal.	6. The appeal must be submitted to the Minister within 30 days after the lapsing of the period of 20 days provided for the lodging of the notice of intention to appeal.
7. Any IAP who received a notice of intention to appeal may submit a responding statement to that appeal to the Minister within 30 days from the date that the appeal submission was lodged with the Minister.	7. An Applicant who received notice of intention to appeal may submit a responding statement to the appeal to the Minister within 30 days from the date that the appeal submission was lodged with the Minister.

**NOTES:**

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

- 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;
- the Minister of Justice and Constitutional Development if the applicant is the Department of Water Affairs and 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;

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

- the Minister of Water and Environmental Affairs must be submitted to the Department of Environmental Affairs;
- the Minister of Justice and Constitutional Development must be submitted to the Department of Environmental Affairs;

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

- submitted in writing;
- accompanied by:
  - a statement setting out the grounds of appeal;
  - supporting documentation which is referred to in the appeal; and
  - a statement that the appellant has complied with regulation 62 (2) or (3) together with copies of the notices referred to in regulation 62.





**environmental affairs**

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

**Integrated Environmental Authorisation Issued in terms of**

**The National Environmental Management Act, 1998 and the Environmental Impact  
Assessment Regulations 2010**

**and**

**The National Environmental Management: Waste Act, 2008 and Government Notice 921  
of 2013**

**Upgrade of the Hans Hoheisen Wildlife Research Station, Portion 2 of the Farm Kempiana 90KU,  
within the Bushbuckridge Municipality, Mpumalanga Province**

**Ehlanzeni District Municipality**

<b>Authorisation register number:</b>	14/12/16/3/3/3/48
<b>Last amended:</b>	First Issue
<b>Holder of integrated authorisation:</b>	University of Pretoria
<b>Location of activities:</b>	MPUMALANGA PROVINCE: Portion 2 of the Farm Kempiana 90KU, within the Bushbuckridge Municipality

This authorisation does not negate the holder of the authorisation's responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity.

## DECISION

The Department is satisfied, on the basis of information available to it and subject to compliance with the conditions of this integrated environmental authorisation ("the environmental authorisation") that the applicant should be authorised to undertake the NEMA EIA and NEMWA listed activities specified below.

Details regarding the basis on which the Department reached this decision are set out in Annexure "I" to this environmental authorisation.

## NEMA EIA AND NEMWA ACTIVITIES AUTHORISED

By virtue of the powers conferred on it by NEMA, the NEMA EIA Regulations, 2010, NEMWA and Government Notice 718 of 3 July 2009 the Department hereby authorises –

### UNIVERSITY OF PRETORIA

with the following contact details –

Prof Stephanie Burton  
University of Pretoria: Rectorate  
Private Bag X20  
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### PRETORIA

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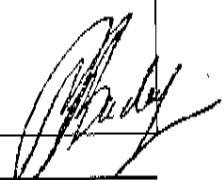
Tel: 012 420 2946  
Fax: 012 420 3696  
E-mail: stephanie.burton@up.ac.za



to undertake the following activities (hereafter referred to as "the activities"):

Listed activities	Activity/Project description
<p><u>GN R. 544 Item 22(iii)</u> The construction of a road, outside urban areas, where no reserve exists and where the road is wider than 8 metres.</p>	<p>Additional internal access roads will be constructed on the property.</p>
<p><u>GN R. 544 Item 28:</u> The expansion of or changes to existing facilities for any process or activity where such expansion or changes will result in the need for a permit or license in terms of national or provincial legislation governing the release of emissions or pollution.</p>	<p>A water use license will be required for the abstraction of additional water to meet the requirements of the upgraded facility. The existing septic tanks will be expanded and upgraded to accommodate all domestic sewage produced at the facility, and the discharge of the purified effluent into the environment will also require a Water Use License.</p>
<p><u>GN R. 545 Item 5</u> The construction of facilities or infrastructure for any process or activity which requires a permit or license in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent.</p>	<p>An incinerator will be constructed for the disposal of organic hazardous waste. An Atmospheric Emissions License will be required to allow for the operational requirements of the incinerator.</p>
<p><u>GN R. 545 Item 15:</u> Physical alteration of undeveloped, vacant or derelict land for residential, retail, commercial, recreational, industrial or institutional use where the total area to be transformed is 20 hectares or more.</p>	<p>The footprint of Hans Hoheisen Wildlife Research Station is approximately 37ha.</p>
<p><u>GN R. 546 Item 4:</u> The construction of a road wider than 4 metres with a reserve less than 13,5 metres.</p> <p>(a) In Mpumalanga: ii. Outside urban areas, in: (aa) A protected area identified in terms of NEMPAA,</p>	<p>Additional internal access roads will be constructed on the property. The facility is located adjacent to the Kruger National Park, and within the Greater Limpopo Transfrontier Park.</p>

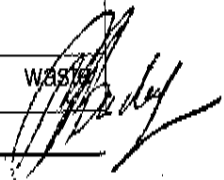
Listed activities	Activity/Project description
<p><i>excluding conservancies;</i></p> <p><i>(bb) National Protected Area Expansion Strategy Focus areas;</i></p> <p><i>(gg) Areas within 10 kilometres from national parks or world heritage sites or 5 kilometres from any other protected area identified in terms of NEMPAA or from the core areas of a biosphere reserve.</i></p>	
<p><u>GN R. 546 Item 6:</u></p> <p><i>The construction of resorts, lodges or other tourism accommodation facilities that sleep 15 people or more.</i></p> <p><i>(a) In Mpumalanga:</i></p> <p><i>ii. Outside urban areas, in:</i></p> <p><i>(aa) A protected area identified in terms of NEMPAA, excluding conservancies;</i></p> <p><i>(bb) National Protected Area Expansion Strategy Focus areas;</i></p> <p><i>(gg) Areas within 10 kilometres from national parks or world heritage sites or 5 kilometres from any other protected area identified in terms of NEMPAA or from the core area of a biosphere reserve.</i></p>	<p>The construction of additional visitor accommodation facilities at the research facility.</p>
<p><u>GN R. 546 Item 7:</u></p> <p><i>The conversion of existing structures to resorts, lodges or tourism accommodation facilities that sleep 15 people or more.</i></p> <p><i>(a) In Mpumalanga:</i></p> <p><i>ii. Outside urban areas, in:</i></p> <p><i>(aa) A protected area identified in terms of NEMPAA, excluding conservancies;</i></p> <p><i>(bb) National Protected Area Expansion Strategy Focus areas;</i></p> <p><i>(hh) Areas within 10 kilometres from national parks or world</i></p>	<p>The conversion or upgrading of structures at the existing research facility for visitor accommodation.</p>

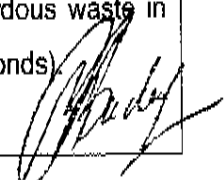


Listed activities	Activity/Project description
<p><i>heritage sites or 5 kilometres from any other protected area identified in terms of NEMPAA or from the core areas of a biosphere reserve.</i></p>	
<p><u>GN R. 546 Item 13:</u>  <i>The clearance of an area of 1 hectare or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation</i></p> <p><i>(c) In Mpumalanga</i>  <i>ii. Outside urban areas, the following:</i>  <i>(ff) Areas within 10 kilometres from national parks or world heritage sites or 5 kilometres from any other protected area identified in terms of NEMPAA or from the core area of a biosphere reserve.</i></p>	<p>The clearance of vegetation to allow for the construction of additional structures at the wildlife research facility. The facility is located adjacent to the Kruger National Park.</p>
<p><u>GN R. 546 Item 14:</u>  <i>The clearance of an area of 5 hectares or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation</i></p> <p><i>(a) In Mpumalanga:</i>  <i>i. All areas outside urban areas.</i></p>	<p>The clearance of vegetation to allow for the construction of additional structures at the wildlife research facility. The facility is located outside of an urban area.</p>
<p><u>GN R. 546 Item 18:</u>  <i>The expansion of a resort, lodge, hotel and tourism or hospitality facilities where the development footprint will be expanded.</i></p> <p><i>(a) In Mpumalanga:</i>  <i>ii. Outside urban areas, in:</i>  <i>(aa) A protected area identified in terms of NEMPAA, excluding conservancies;</i>  <i>(bb) National Protected Area Expansion Strategy Focus areas;</i>  <i>(gg) Areas within 10 kilometres from national parks or world</i></p>	<p>The construction of additional accommodation for visitors to the existing research facility, located adjacent to the Kruger National Park, and within the Greater Limpopo Transfrontier Park</p>





Listed activities	Activity/Project description
<p><i>heritage sites or 5 kilometres from any other protected area identified in terms of NEMPAA or from the core area of a biosphere reserve.</i></p>	
<p><u>GN R. 546 Item 19:</u>  <i>The widening of a road by more than 4 metres, or the lengthening of a road by more than 1 kilometre.</i></p> <p><i>(a) In Mpumalanga:</i>  <i>ii. Outside urban areas, in:</i>  <i>(aa) A protected area identified in terms of NEMPAA, excluding conservancies;</i>  <i>(bb) National Protected Area Expansion Strategy Focus areas;</i>  <i>(gg) Areas within 10 kilometres from national parks or world heritage sites or 5 kilometres from any other protected area identified in terms of NEMPAA or from the core area of a biosphere reserve.</i></p>	<p>Existing internal road structures as well as roads used for access into the wildlife research station will be upgraded. The roads will have stabilised surfaces and will be designed to accommodate and manage storm water run-off. The facility is located adjacent to the Kruger National Park, and within the Greater Limpopo Transfrontier Park.</p>
<p><u>R. 921 Item 3(1)</u>  <i>The storage of general waste in lagoons.</i></p>	<p>Hazardous liquid waste will be collected and treated in a closed black-water system to remove pathogens, before being discharged into evaporation ponds. The system will be designed to treat effluent to a level where it is free from pathogens and odours, however it is possible that the treated discharge may potentially contain residue contaminants. It is therefore not certain whether the treated effluent to be discharged into the evaporation ponds would be classified as general or hazardous waste.</p>
<p><u>R. 921 Item 3(12)</u></p>	<p>For the construction of waste</p> 

Listed activities	Activity/Project description
<p><i>The construction of facilities for a waste management activity listed in Category A of this Schedule (not in isolation to associated waste management activity).</i></p>	<p>treatment facilities at the research centre i.e. the wastewater treatment works (closed black-water system).</p>
<p><u>R. 921 Item 3(13)</u>  <i>The expansion of a waste management activity listed in category A or B of this Schedule which does not trigger an additional waste management activity in terms of this Schedule.</i></p>	<p>The expanded facility will require a water use and an air emissions licence for the construction of the incinerator and the expansion of the septic tanks for treatment of domestic sewage.</p>
<p><u>R. 921 Item 4(1)</u>  <i>The storage of hazardous waste in lagoons excluding the storage of effluent, wastewater or sewage.</i></p>	<p>Hazardous liquid waste will be collected and treated in a closed black-water system to remove pathogens, before being discharged into evaporation ponds. The system will be designed to treat effluent to a level where it is free from pathogens and odours, however it is possible that the discharge may potentially contain residue contaminants. (It is therefore not certain whether the treated effluent to be discharged into the evaporation ponds would be classified as general or hazardous waste).</p>
<p><u>R. 921 Item 4(4)</u>  <i>The treatment of hazardous waste in excess of 1 ton per day calculated as a monthly average: using any form of treatment excluding the treatment of effluent, wastewater or sewage</i></p>	<p>Hazardous wastes such as animal tissue, carcasses, animal bedding, laboratory liquid waste and body fluids (potentially containing pathogens) will be incinerated at the facility.</p>
<p><u>R. 921 Item 4(5)</u>  <i>The treatment of hazardous waste in lagoons, excluding the treatment of effluent, wastewater or sewage.</i></p>	<p>The treatment of hazardous waste in lagoons (evaporation ponds)</p> 

Listed activities	Activity/Project description
<i>R. 921 Item 4(10) The construction of a facility for a waste management activity listed in Category B of this Schedule (not in isolation to associated waste management activity).</i>	For the construction of waste treatment facilities at the research centre (i.e. incinerator and evaporation ponds)

as described in the Environmental Impact Report (EIR) dated September 2013 at:

Site	Latitude	Longitude
Portion 2 of the Farm Kempiana 90KU	24°28.783'S	31°23.200'E

- for the upgrade the existing Hans Hoheisen Wildlife Research Station on portion 2 of the Farm Kempiana 90KU, within the Bushbuckridge Municipality, in the Mpumalanga Province, hereafter referred to as "the property". The facility will be used to support research involving the diseases of wildlife, humans and livestock at an interface between a transfrontier-conservation area (TFCA), the Greater Limpopo Transfrontier Park, and local communities.

The upgraded Hans Hoheisen Wildlife Research Station will consist of the following five zones, which will cover approximately 37ha.

a) Public Access Zone

- An access road controlled by access gate (existing infrastructure);
- 6 visitors accommodation units for VIP use (new infrastructure);
- General office space, clean lab and auditorium (existing infrastructure);
- A canteen / cafeteria (new infrastructure);
- Landscaping features such as berms for visual buffering (new infrastructure);
- New / upgraded parking area (new infrastructure); and
- Helicopter landing pad (existing infrastructure) and associated buildings (new infrastructure).

b) Accommodation Zone

- An access road (existing and new infrastructure) controlled by access gate (new infrastructure);
- Student / scientist accommodation (2 existing and 2 new buildings);

- Visiting scientist's permanent tented and park home facility (new infrastructure); and
  - Permanent staff accommodation (3 existing structures and 1 new structure).
- c) Restricted Access – Animal Enclosure Zone
- Animal holding pens, cages and bomas (new infrastructure).
  - Evaporation dam
- d) Restricted Access - Bio-safety Zone
- An access road (existing and new infrastructure) controlled by access gate (new infrastructure);
  - Laboratories (existing infrastructure);
  - Necropsy room (new infrastructure);
  - Offices (existing and new infrastructure);
  - Predator cages and boma's (new and existing infrastructure);
  - Solid waste temporary storage room (new infrastructure);
  - Liquid waste reticulation and treatment tanks (new infrastructure); and
  - Animal holding pens and cages (new and existing infrastructure).
- e) Restricted Access - Industrial Zone
- Incinerator (new infrastructure);
  - Water treatment works (new infrastructure); and
  - Transformer and storage (existing and new infrastructure).

The bulk reticulation infrastructure and the wiring in the existing buildings will be maintained, replaced and/or upgraded where required and a stand-by Generator with change-over panel will be installed. Existing water tanks and reticulation will be expanded and upgraded to incorporate the demands of new infrastructure.

Hazardous liquid wastes emanating from the laboratories, clinics, pens and boma's will undergo biological treatment in a closed black-water system to remove pathogens. The treated effluent will then be discharged into evaporation ponds, with no output to the environment.

General and domestic liquid waste will be kept separate from the hazardous wastewater. The existing septic tanks will be expanded and upgraded to accommodate all domestic sewage produced at the facility. Liquid effluent emanating from the septic tanks will be treated either via the existing soak-away system or a reed bed system.

Organic hazardous wastes such as animal tissue, carcasses, animal bedding, laboratory liquid waste and body fluids, will be incinerated on site, with the ash being disposed of off-site at a registered facility. Inorganic hazardous wastes such as empty drug and chemical containers and sharps will not be incinerated, but will be disposed of off-site. Solid wastes will be temporarily stored on site until sufficient quantities have been collected for off-site disposal at registered waste disposal facilities.

The laboratories and quarantine facilities will only deal with pathogens that are classified to a maximum level prescribed by Bio-Safety Level Three (3).

## **SCOPE OF AUTHORISATION**

1. The following preferred technologies for the on-site treatment of hazardous wastes are approved:
  - Biological Treatment (primary) and Evaporation Ponds (secondary): for the treatment of hazardous liquid waste and wastewater from laboratories, clinics, pens, holding areas and bomas; and
  - On-site incineration (primary) and off-site disposal of ash (secondary): for the disposal of organic hazardous wastes such as animal tissue, carcasses, animal bedding, laboratory liquid waste and body fluids.
2. The Department shall by written notice to the holder of an environmental authorisation suspend with immediate effect an environmental authorisation, if suspension of the authorisation is necessary to prevent harm or further harm to the environment.
3. The activities must commence within a period of three (3) years from the date of issue. If commencement of the activity does not occur within that period, the environmental authorisation lapses and a new application for an environmental authorisation must be made for the activities to be undertaken. Commencement with one activity listed in terms of this authorisation constitutes commencement of all authorised activities.
4. The holder of the environmental authorisation shall be responsible for ensuring compliance with the conditions contained in this environmental authorisation. This includes any person acting on the

- holder's behalf, including but not limited to, an agent, servant, contractor, sub-contractor, employee, consultant or person rendering a service to the holder of the authorisation.
5. Any changes to, or deviations from, the project description set out in this authorisation must follow the amendment processes as prescribed in Chapter 4 (Parts 1-3) of the NEMA EIA Regulations, 2010 and be approved, in writing, by the Department before such changes or deviations may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the authorisation to apply for further authorisation in terms of the regulations.

### **Management of the activity**

6. The Environmental Management Programme (EMPr) submitted as part of the Application for Integrated EA, is hereby approved. This EMPr must be implemented and adhered to.
7. The approved EMPr must be implemented and strictly enforced during all phases of the project. It shall be seen as a dynamic document and shall be included in all contract documentation for all phases of the development when approved.
8. Changes to the EMPr which are environmentally defensible, shall be submitted to this Department for acceptance before such changes can be effected (in line with the process outlined in regulation 46 of GN. R. 543).
9. The Department reserves the right to request amendments to the EMPr, should any impacts that were not anticipated or covered in the EIR be discovered.
10. The provisions of the approved EMPr shall be an extension of the conditions of this EA and therefore noncompliance with them would constitute noncompliance with the EA.
11. The facility must be managed and operated:
- 11.1. In accordance with an Environmental Management System (EMS), that inter alia identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the holder of the environmental authorisation as a result of complaints;
- 11.2. In accordance with the conditions of this authorisation and any other written instruction by the Director: Licencing; and
- 11.3. By adequate, competent staff.
12. Any persons having duties that are or may be affected by this authorisation must have convenient access to a copy thereof, which copy must be kept at or near the place where those duties are carried out.

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

#### **Environmental Control Officer**

14. The holder of this authorisation must appoint an independent Environmental Control Officer (ECO) with experience or expertise in the field for the construction phase of the development. The ECO will have the responsibility to ensure that the conditions referred to in this authorisation are implemented and to ensure compliance with the provisions of the EMPr.

15. The ECO must be appointed before commencement of any authorised activity.

16. Once appointed, the name and contact details of the ECO must be submitted to the *Director: Compliance Monitoring* of the Department.

17. The ECO must remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed and the site is ready for operation.

17.1. The ECO must:

17.2. Keep record of all activities on site, problems identified, transgressions noted and a schedule of tasks undertaken by the ECO.

17.3. Keep and maintain a detailed incident (including spillage of bitumen, fuels, chemicals, or any other material) and complaint register on site indicating how these issues were addressed, what rehabilitation measures were taken and what preventative measures were implemented to avoid re-occurrence of incidents/complaints.

17.4. Keep and maintain a daily site diary.

17.5. Keep copies of all reports submitted to the Department.

17.6. Keep and maintain a schedule of current site activities including the monitoring of such activities.

17.7. Obtain and keep record of all documentation, permits, licences and authorisations such as waste disposal certificates, hazardous waste landfill site licences etc. required by this facility.

17.8. Compile a monthly monitoring report.

#### **Waste Management Control Officer**

18. 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 environmental authorisation and standard operation procedures.

19. The WMCO must report any non-compliance with any environmental authorisation conditions or requirements or provisions of NEMWA to the Department.

20. The duties and responsibility of the WMCO should not be seen as exempting the holder of the environmental authorisation from any other legal obligations in terms of the NEM:WA.

### **Emergency Preparedness Plan**

21. The holder of the environmental authorisation must maintain and implement an emergency preparedness plan and review it annually when conducting an audits, after each emergency incident and major accident. The plan must, amongst others, include measures to address:

- a) Power failure;
- b) Equipment malfunction;
- c) Site fire;
- d) Spillage (on 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 emergency centre.

### **Recording and reporting to the department**

22. The holder of this authorisation must keep all records relating to monitoring and auditing on site and make it available for inspection to any relevant and competent authority in respect of this development.

23. All records and/or reports required or resulting from activities relating to this environmental authorisation must:

23.1. be legible;

23.2. be submitted as required and must form part of the external audit report;

23.3. if amended, the record and/or report must be amended in such a way that the original and any subsequent amendments remain legible and are easily retrievable; and

23.4. be retained in accordance with documented procedures which are approved by the Department.

24. All documentation e.g. audit/monitoring/compliance reports and notifications, required to be submitted to the Department in terms of this authorisation, must be submitted to the *Director: Compliance Monitoring* at the Department.

25. The holder of the environmental authorisation must keep records and update all the information referred to in Annexure II and submit this information to the Department on an annual basis.



### **Environmental audit report for construction**

26. The holder of the authorisation must submit an environmental audit report to the Department within 30 days of completion of the construction phase (i.e. within 30 days of site handover) and within 30 days of completion of rehabilitation activities.
27. The environmental audit report must:
- 27.1. Be compiled by an independent environmental auditor;
  - 27.2. Indicate the date of the audit, the name of the auditor and the outcome of the audit;
  - 27.3. Evaluate compliance with the requirements of the approved EMPr and this environmental authorisation;
  - 27.4. Include measures to be implemented to attend to any non-compliances or degradation noted;
  - 27.5. Include copies of any approvals granted by other authorities relevant to the development for the reporting period;
  - 27.6. Highlight any outstanding environmental issues that must be addressed, along with recommendations for ensuring these issues are appropriately addressed;
  - 27.7. Include a copy of this authorisation and the approved EMPr
  - 27.8. Include all documentation such as waste disposal certificates, hazardous waste landfill site licences etc. pertaining to this authorisation; and
  - 27.9. Include evidence of adherence to the conditions of this authorisation and the EMPr where relevant such as training records and attendance records.

### **Commencement of activities**

28. The authorised activity shall not commence within twenty (20) days of the date of signature of the authorisation.
29. An appeal under section 43 of the National Environmental Management Act (NEMA), Act 107 of 1998 (as amended), does not suspend an environmental authorisation or exemption, or any provisions or conditions attached thereto, or any directive, unless the Minister, MEC or delegated organ of state directs otherwise.
30. Should you be notified by the Minister of a suspension of the authorisation pending appeal procedures, you may not commence with the activity until such time that the Minister allows you to commence with such an activity in writing.

### **Notification to authorities**

31. Fourteen (14) days written notice must be given to the Department that the activity will commence. Commencement for the purposes of this condition includes site preparation. The notice must

include a date on which it is anticipated that the activity will commence. This notification period may coincide with the Notice of Intent to Appeal period, within which construction may not commence.

#### **Operation of the activity**

32. Fourteen (14) days written notice must be given to the Department that the activity operational phase will commence.

#### **Site closure and decommissioning**

33. Should the activity ever cease or become redundant, the applicant shall undertake the required actions as prescribed by legislation at the time and comply with all relevant legal requirements administered by any relevant and competent authority at that time.

#### **Leasing and alienation of the site**

34. Should the holder of the environmental authorisation want to alienate or lease the site, he/she shall notify the Department in writing of such an intention at least 120 days prior to the said transaction. Should the approval be granted, the subsequent holder of the environmental authorisation shall remain liable to compliance with all licence conditions.

#### **Transfer of environmental authorisation**

35. Should the holder of the environmental authorisation transfer holdership of this environmental authorisation due to a change of ownership [as provided for in terms of S24E(c) of NEMA], he/she must apply in terms of Section 52 of NEMWA.

36. Should the transfer of holder ship of this environmental authorisation mentioned above be for any reason other than the change of ownership in the property, the holder of this environmental authorisation must inform the Department of any change in ownership in the property and must request an amendment to this environmental authorisation to reflect such change in ownership.

37. Any subsequent holder of an environmental authorisation shall be bound by conditions of this environmental authorisation.

#### **Investigations**

38. If, in the opinion of the Department, pollution, nuisances or health risks may be or are occurring on the site, the holder of the environmental authorisation must initiate an investigation into the cause

of the problem or suspected problem, including such investigations as identified by the Department related to the risks posed. Should the investigation carried out reveal any unacceptable levels of pollution, the holder of the environmental authorisation must submit mitigation measures to the satisfaction of the relevant Department.

### **Specific conditions**

39. A protected species desktop study must be undertaken by a qualified biodiversity expert, particularly for Threatened or Protected Species (ToPS) -listed beetles. The desktop study must be submitted to the Department for approval prior to construction of the facility, and must:
- Include a list of protected species, both in terms of those used/kept in the facility and those that will be impacted on by the development, with the legislation under which they are protected;
  - Identify the permits that need to be acquired in terms of ToPS regulations, provincial legislation or the National Forests Act, 1998 (Act No. 84 of 1998), for the destruction, rescue or rehabilitation of protected species; and
  - Make provision for the application of a ToPS permit in instances where the restricted activities that are listed in the ToPS regulations are triggered (these restricted activities may include amongst others: keeping/having in possession; killing/culling; transport, etc. ToPS permits will therefore also be required for all ToPS listed species that will be housed in the research facility).
40. Permits need to be applied for with the Department for all National Environmental Management: Biodiversity Act, 2004 (Act 10 of 2004) (NEMBA) protected species (i.e. ToPS listed species) which will be impacted on by the development, and all permit requirements and conditions need to be adhered to. Permits need to be applied for with the Mpumalanga Tourism and Parks Agency (MTPA) for all provincially protected species that will be impacted on by the development.
41. Permits for the removal of protected trees must be obtained from the Department of Agriculture, Forestry and Fisheries. Protected trees do not need to be transplanted, as this is extremely difficult to achieve. Saplings or young trees of the same species and the same amount of trees as those removed must rather be replanted in the gardens or the surrounding vicinity during rehabilitation, once the facility is established.
42. Pythons encountered on site must be relocated to suitable adjacent areas, with the necessary permits.
43. No pets are to be allowed on site.



44. Should the composting of herbivorous animal manure be undertaken at the facility, a qualified wildlife veterinary expert must be consulted for appropriate methods/procedures to implement, in order to ensure that Ivermectin-contaminated manure is not introduced into the composting process.
45. All invasive alien species on the property must to be removed prior to, or during, the construction period. Follow-up alien clearing maintenance activities must be planned and implemented for the operational phase.
46. No exotic plants may be used for rehabilitation purposes. Only indigenous plants of the area may be utilised.
47. The holder of this authorisation must obtain a Water Use Licence from the Department of Water Affairs (DWA) prior to the commencement of the project should the activity encroach on any wetland or water resource. A copy of the license must be submitted to the *Director: Integrated Environmental Authorisations* at the Department.
48. The holder of this authorisation must obtain an Air Emissions Licence for the operation of the incinerator if required in terms of the National Environmental Management: Air Quality Act No. 39 of 2004.

#### Site Security and Access Control

49. The holder of the environmental authorisation must ensure effective access control to the facility 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, state the hours of operation and the name, address and telephone number of the holder of the authorisation and the person responsible for the operation of the site.

#### Permissible waste

50. The holder of the authorisation must prevent the storage of waste that is not authorised at the site. The applicant must comply with the Norms and Standards for Storage of Waste, Government Notice 926 of 29 November 2013.
51. 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.

Construction and commissioning of activities

52. Working areas must have a firm and impermeable base to prevent contamination of ground water.
53. The site plan must only be changed under the supervision of a registered professional engineer.

Environmental auditing and reporting

54. Internal Audits

- 54.1. Internal audits must be conducted annually by the holder of the environmental authorisation in order to audit compliance with the conditions related to this environmental authorisation and the approved EMPr, 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 below.

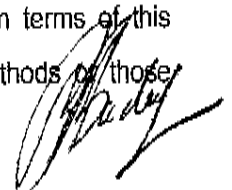
55. External Audits

- 55.1. The holder of the environmental authorisation and approved EMPr must appoint an independent external auditor to audit the Hans Hoheisen Wildlife Research Station biannually and this auditor must compile an audit report documenting the findings of the audit, which must be submitted by the holder of the environmental authorisation.

55.2. The audit report must-

- (i) Indicate compliance to requirements related to the facility as included in the approved EMPr (for the operational phase);
- (ii) Specifically state whether the conditions of this environmental authorisation are adhered to;
- (iii) Include an interpretation of all available data and test results regarding the operation of the site and all its impacts on the environment;
- (iv) Specify target dates for the implementation of the recommendations by the holder of the environmental authorisation to achieve compliance;
- (v) Contain recommendations regarding non-compliance or potential non-compliance and must specify target dates for the implementation of the recommendations by the holder of the environmental authorisation and whether corrective action taken for the previous audit non conformities was adequate;
- (vi) Show results graphically and conduct trend analysis; and
- (vii) Include the information required in Annexure II.

- 55.3. The holder of the environmental authorisation must carry out all tests required in terms of this environmental authorisation in accordance with published laboratory analysis methods of those



prescribed by and obtainable from the South African Bureau of Standards (SABS), referred to in the Standards Act, 2008 (Act 08 of 2008).

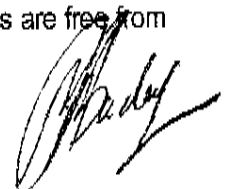
- 55.4. Each external audit report referred to in *External Audits* above must be submitted to the Department within 30 days from the date on which the external auditor finalised the audit.

#### Reporting

56. The holder of the environmental authorisation must within 14 days inform the Department of the occurrence or detection of any incident referred to hereunder, and must within 14 days or a period of time specified by the Department, submit an action plan, which must:
- 56.1. Correct the impact resulting from the incident;
  - 56.2. Prevent the incident from causing any further impact; and
  - 56.3. Prevent a recurrence of a similar incident to the satisfaction of the Department.
57. In the event that measures have not been implemented within 21 days of the incident, or within the time period identified by the Department, or the measures which have been implemented are inadequate, the Department may implement the necessary measures at the cost and risk of the holder of the environmental authorisation.
58. The holder of the environmental authorisation must keep an incident report and complaints register, which must be made available to the external auditor, representatives of this Department and Department of Water Affairs for the purpose of audit.
59. The Department must be notified as soon as the holder of this environmental authorisation becomes aware of the following incidents:
- 59.1. Any malfunction, breakdown or failure of equipment or techniques, accident or fugitive emission which has caused, is causing or may cause significant pollution;
  - 59.2. The breach of this environmental authorisation; and
  - 59.3. Any significant adverse environmental and health effects.

#### General operation and impact management of waste management activities

60. The holder of environmental authorisation must ensure that the incinerator operates within its design parameters at all times.
61. The holder of environmental authorisation must prevent the occurrence of nuisance conditions or health hazards.
62. The holder of environmental authorisation must ensure that emissions from the activities are free from odour at levels likely to cause annoyance.



63. All personnel who work with hazardous waste must be 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 authorisation holder.
64. Waste must be classified as per the Waste Classification and Management Regulations, GN R. 634 as published by the Department of Environmental Affairs.
65. The holder of environmental authorisation must ensure that the hazardous waste disposal contractor is licenced and must issue waste disposal certificates to the Hans Hoheisen Wildlife Research Station.
66. The holder of environmental authorisation must identify ways of reusing/recycling potentially recyclable materials, to prevent them from being disposed of at a landfill site.
67. The waste residue generated in the incineration process must be disposed of at a licenced hazardous waste disposal site on a regular basis, and such waste must be classified as per the Waste Classification and Management Regulations, GN R. 634 as published by the Department of Environmental Affairs.
68. All areas where waste will be stored must have a controlled access area which is roofed, has ventilation, impermeable floor surfaces, and drainage and containment system.
69. The holder of environmental authorisation must prevent spillages on site. Where they happen nonetheless, the holder of authorisation must ensure the effective and safe cleaning of such spillages in accordance with the emergency preparedness plan.
70. Where spillages result in soil contamination, the contaminated soils must be kept in isolation from other environmental media such as ground water and surface water, as well as from animal life, plant life and humans.
71. Adequate measures must be in place to assist in continued operation or shutdown of both incinerators in the event of a power failure.
72. No waste is to be fed into either incinerator:
  - (a) Whenever the minimum combustion temperatures are not maintained; and
  - (b) Until such time as the addition of more waste will not cause the design parameters of the incinerator to be exceeded.
73. The holder of the authorisation must ensure that the waste that is stored on site but may not be treated on-site, is transported to the waste management facility within 30 days from the date of generation or the waste arrives on site.
74. If pathological waste must be stored in a cold room or refrigerator at a minimum temperature of  $-20^{\circ}\text{C}$ , in which case the waste must not be stored more than 30 days from the date of generation or receipt on site.
75. Any laboratory waste must not be store more than 30 days from the date of generation.



76. All waste stored on site may not be reclaimed.
77. The holder of environmental authorisation must ensure that any waste within each incinerator during system failure is retreated successfully before disposal.
78. The integrity of waterproof bases and infrastructure must be routinely monitored and corrective measures taken before containment integrity is breached.

Monitoring Plan

79. The holder of the environmental authorisation must put in place a monitoring plan must among others provide details on:

- (a) Tonnage of waste generated and incinerated;
- (b) Tonnage of waste sent-off site for treatment and/or disposal;
- (c) Tonnage of other waste types incinerated;
- (d) Treatment parameters of chambers;
- (e) Refrigerator temperature;
- (f) Details of unplanned interruptions in operation of the incinerator;
- (g) Details of incidents and complaints;
- (h) Details of disposal of final residues; and
- (i) Details of planned shutdowns

Investigations

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

81. Should the investigation carried out as per condition 84 above reveal any unacceptable levels of pollution, the Licence Holder must submit mitigation measures to the satisfaction of the Director.

Date of environmental authorisation: 20 MARCH 2014

  
Mr Ishaam Abader

Deputy Director-General: Legal, Authorisations, Compliance and Enforcement  
Department of Environmental Affairs



## Annexure I: Reasons for Decision

### 1. Key factors considered in making the decision

All In reaching its decision, the Department took, *inter alia*, the following into consideration -

- a) The information contained in the EIR dated September 2013;
- b) The mitigation measures included in the EIR dated September 2013 and the EMPr;
- c) The information contained in the specialist studies, contained within EIR dated September 2013;
- d) The comments received from the Directorate: Licencing and comments from interested and affected parties as included in the EIR dated September 2013; and
- e) The objectives and requirements of relevant legislation, policies and guidelines, including section 2 of the National Environmental Management Act, 1998 (Act No. 107 of 1998).

### 2. Findings

After consideration of the information and factors listed above the Department reached the following conclusions:

- a) The identification and assessment of impacts are detailed in the EIR dated September 2013 and sufficient assessment of the key identified issues and impacts have been completed.
- b) The Hans Hoheisen Wildlife Research Station is being upgraded to facilitate the development of research programmes and projects, which will in turn provide information to support the management of diseases (of wildlife, humans, and livestock) that have a negative effect on the development of trans frontier parks and conservation areas. The research facility will also provide information that will facilitate the harmonisation of polices, and the improvement of varying standards and competencies of participating countries with regards to the Detection, Identification and Monitoring (DIM) of diseases.
- c) The procedure followed for impact assessment is adequate for the decision-making process.
- d) The proposed mitigation of impacts identified and assessed adequately curtails the identified impacts.
- e) The development is an extension of an existing development, and as such, visual impacts are already in existence. Visual impacts of the planned upgrade can be mitigated to acceptable levels.

- f) The site of the Hans Hoheisen Wildlife Research Station is rated as being of low sensitivity from an ecological perspective.
- g) Both the animals and diseases being researched at the facility are endemic to the area. In this regard, no new pathogens are likely to be introduced to the system. All facilities will be designed to ensure that the provisions of the relevant Bio-Safety Level with regards to containment are adhered to. The potential disease risk of the project expansion will be limited.
- h) A sufficient public participation process was undertaken and the applicant has satisfied the minimum requirements as prescribed in the EIA regulations, 2010, for public involvement.

In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the environmental authorisation, the activities will not conflict with the general objectives of integrated environmental management laid down in Chapter 5 of the National Environmental Management Act, 1998 and that any potentially detrimental environmental impacts resulting from the activity can be mitigated to acceptable levels. The environmental authorisation is accordingly granted.



**ANNEXURE II**

**INFORMATION WHICH SHALL BE SUBMITTED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE  
 "RECORDING AND REPORTING TO THE DEPARTMENT" ABOVE**

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

NAME OF SITE: _____	DATE OF REPORT: _____ (y/m/d)
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1. **Registered owner(s) of property on which the Hans Hoheisen Wildlife Research Station is situated:**

Name	Telephone	
Postal Address	Fax	
	Postal Code	

2. **Operator in control of the facility:**

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

3. **Indicate the type of waste and approximate quantities of incinerated during the year:**

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

4. **Indicate the type of waste and approximate quantities of waste transferred of site during the year:**

Type of waste	Quantity (m <sup>3</sup> annum <sup>-1</sup> )	reused, treated or 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 \_\_\_\_\_ facility.

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

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

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

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

*This form may be obtained electronically from the Department.*

