



**WASTE LICENCE  
APPLICATION PROCESS  
FOR WASTE ACTIVITIES  
IN TERMS OF THE  
NATIONAL  
ENVIRONMENTAL  
MANAGEMENT :WASTE  
ACT 2008 (No. 59 of 2008)**

---

## TABLE OF CONTENTS

PART 1: WASTE ACTIVITIES LICENSING APPLICATION PROCESS EXPLAINED: .....	4
1.1    Licensing process: .....	4
1.2    Where to submit applications .....	4
1.3    Making an Application .....	6
2.    DEFINITIONS:.....	7
3.    THE WASTE LICENSING APPLICATION STAGES: .....	7
3.1    Stage 1: Pre-application.....	7
3.2    Criteria for determining whether basic assessment or scoping is to be applied to applications .....	7
PART 2: APPLICATION FORM FOR NEW LICENCE .....	8
SECTION 1 – TYPE OF APPLICATION AND FACILITY: .....	9
SECTION 2: SITE IDENTIFICATION, LOCATION AND LANDUSE .....	11
Size of Site and Classification .....	12
Current land-use where the site is situated: .....	12
Geographical coordinates of all external corner points of the site: .....	12
Site Address: .....	12
SECTION 3: CONTACT INFORMATION .....	13
Operational times .....	14
SECTION 4: PROCESS/ACTIVITY DESCRIPTION:.....	15
Project Title .....	15
Project Description: .....	15
SECTION 5: WASTE QUANTITIES.....	17
Recovery, Reuse, Recycling, treatment and disposal quantities: .....	17
SECTION 6: GENERAL.....	18
Prevailing wind direction (e.g. NWW) .....	18
The size of population to be served by the facility .....	18
The geological formations underlying the site: .....	18
SECTION 7: COMPETENCE TO OPERATE SITE.....	19
Legal compliance .....	19
Technical competence .....	19
Financial Provisions .....	20
SECTION 8: LANDFILL PARAMETERS .....	21
The method of disposal of waste:.....	21
The dimensions of the disposal site in metres.....	21

The total volume available for the disposal of waste on the site.....	21
The total volume already used for waste disposal:.....	21
The Salvage method .....	22
Fatal Flaws for the site: .....	22
Wettest six months of the year .....	22
Location and depth of ground water monitoring boreholes: .....	23
Location and depth of landfill gas monitoring test pit:.....	24
SECTION 9: DECLARATIONS.....	25
The independent Environmental Assessment Practitioner .....	25
The Applicant .....	26
PART 3: APPLICATION FORM FOR AMENDMENT TO AN EXISTING AUTHORISATION .....	27
Details of Current Licence: .....	27
The Proposed Modification: .....	27
Change of Information .....	28
PART 4: APPLICATION FORM FOR CLOSURE .....	29
Details of Current Licence: .....	29
Section of this form to fill:.....	29
Documentation Requirements: .....	29
APPENDIX: A1 .....	31
APPENDIX B1 .....	32
APPENDIX B2 .....	33

**THE WASTE LICENSING APPLICATION PROCESS IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT: WASTE ACT 2008 (No. 59 of 2008) "NEMWA".**

**PART 1: WASTE ACTIVITIES LICENSING APPLICATION PROCESS EXPLAINED:**

**1.1 Licensing process:**

- 1.1.1 The waste licensing process for listed activities under Schedule 1 in the National Environment Management Waste Act 2008 is as defined in the environmental impact assessment (EIA) regulations made under section 24(5) of the National Environment Management Act 2008 (NEMA) No. 107 of 1998.
- 1.1.2 This application form is the official form in terms of Regulation 13 (2) (a) of the EIA regulations R385 of 2006 and must accompany every licence application pertaining to waste activities in terms of NEMWA.

**1.2 Where to submit applications**

- 1.2.1 The Minister of Water and Environmental Affairs is the licensing authority in respect of all activities listed in both categories of Schedule 1 of NEMWA pertaining to hazardous waste. The application for a waste licence in terms of section 45 of the National Environment Management Waste Act 2008 (59 of 2008) for hazardous waste activities must be submitted by lodging an application with the National Department of Environment. The application must be marked for the attention of:

The Director: Authorisation and Waste Disposal Management  
Private Bag X447  
Pretoria 0001  
Tel: 012 310 3920  
Fax: 012 310 3753

- 1.2.2 The Member of the Executive Council of a province who is responsible for waste management in the province "MEC" is the licensing authority in respect of all activities listed in both categories of Schedule 1 of NEMWA pertaining to general waste. The application for a waste licence in terms of section 45 of the National Environment Management Waste Act 2008 (No. 59 of 2008) for general waste activities must be submitted by lodging an application with the relevant provincial department and applications must be marked for the attention of the Head of Department in the relevant province at the following addresses:

Head of the Department  
Department of Environmental Affairs and Development Planning  
Private Bag X 9086  
**CAPE TOWN**  
8000  
Fax: 021 483 4425  
Tel: 021 483 5109



Head of Department  
Department of Economic Development and Environmental Affairs  
Private Bag X 0054  
**BHISHO**  
5605  
Fax: 040 609 4700  
Tel: 040 609 4702

Head of Department  
Department of Economic Development Tourism and Environment Affairs  
Private Bag X 20801  
**BLOEMFONTEIN**  
9300  
Fax: 051 400 4772  
Tel: 051 400 4917

Head of Department  
Department of Agriculture and Rural Development  
P.O. Box 8769  
**JOHANNESBURG**  
2000  
Fax: 011 333 0667  
Tel: 011 355 1927

Head of Department  
Department of AgricultureEnvironmental Affairs and Rural Development  
Private Bag X 9059  
**PETERMARITZBURG**  
3200  
Fax: 033 355 9593  
Tel: 0333559621

Head of Department  
Department of Economic Development, Environment and Tourism  
Private Bag X 9484  
**POLOKWANE**  
0700  
Fax: 015 291 5809  
Tel: 015 291 5447

Head of Department  
Department of Economic Development Environment and Tourism  
Private Bag X 11219  
**NELSPRUIT**  
1200  
Fax: 013 766 8445  
Tel: 013 766 6063

Head of Department  
Department of Agriculture, Conservation and Rural Development  
Private Bag X 2039  
**MMABATHO**  
2735  
Fax: 018 389 5006  
Tel: 018 389 5341

Head of Department  
Department of Environmental Affairs and Nature Conservation  
Private Bag X 6102  
**KIMBERLEY**  
8300  
Fax: (053) 807 7367

1.3 Making an Application

- 1.3.1 The applicant must fill in all relevant sections of this form. Incomplete applications will not be processed. The applicant will be notified of the missing information in the acknowledgement letter that will be sent within 14 days of receipt of the application. Sections in the form that do not apply to the applicant must be marked "not applicable"
- 1.3.2 There is no prescribed fee.
- 1.3.3 This application form is in effect as of 01 July 2009. It is the responsibility of the Applicant/Environmental Assessment Practitioner "EAP" to ascertain whether subsequent versions of the form have been published or produced by the licensing authority. It is the applicant's responsibility to download the current version of the application form from the South African waste information centre website ([www.sawic.org.za](http://www.sawic.org.za)).
- 1.3.4 The application form may be submitted electronically and four hardcopies of the form must be submitted to the Directorate: Authorisation and Waste Disposal Management where the national department is the licensing authority. The applicant must contact the relevant provincial office regarding the number of copies required to process the application where provincial departments are the licensing authorities. All application forms must be signed as stipulated in the form. Applications that are not signed or completed accordingly will not be considered.
- 1.3.5 Where the national department is the licensing authority, all applications forms must be accompanied by four copies of reports and other documents required in terms of the EIA Regulations.
- 1.3.6 Where the provincial department is the licensing authority, all applications forms must be accompanied by the number of copies required by that province for reports and other documents required in terms of the EIA Regulations.

1.3.7 The applicant must clearly mark confidential sections of the information submitted in the application form and supporting documents. All other information will become public information on receipt by the licensing authority.

## **2. DEFINITIONS:**

2.1 Definitions in this form are as per EIA Regulation in terms of Chapter 5 of the National Environmental Management Act, 1998 and waste management activities list in terms of the National Environmental Management: Waste Act 2008, No. 59 of 2008.

## **3. THE WASTE LICENSING APPLICATION STAGES:**

### **3.1 Stage 1: Pre-application**

Before making an application:

- The applicant must appoint an EAP in terms of EIA regulations
- The EAP must comply with general requirements as given in EIA regulations
- The EAP may be disqualified in terms of EIA regulations

### **3.2 Criteria for determining whether basic assessment or scoping is to be applied to applications**

3.2.1 Basic assessment must be applied to an application if the authorisation applied for is in respect of an activity listed in Category A in schedule 1 of the NEMWA (59 of 2008).

3.2.2 Scoping and EIA must be applied to an application if the authorisation applied for is in respect of an activity listed in Category B in schedule 1 of the NEMWA (59 of 2008).



# **WASTE LICENCE APPLICATION FORM**

**PART 2: APPLICATION FORM FOR NEW LICENCE**



(For official use only)

**File Reference Number:**

**Date Received:**

**Classification:**

### WASTE LICENCE APPLICATION FORM

in terms of the National Environmental Management: Waste Act, 2008 (No. 59 of 2008)

THE APPLICATION FORM MAY BE TYPED OR HAND-WRITTEN.

#### SECTION 1 – TYPE OF APPLICATION AND FACILITY:

Indicate the type of application by marking with a cross and fill in the required sections only

TYPE OF APPLICATION	MARK	SECTIONS OF THE FORM TO BE FILLED IN
A new licence	X	Part 2 and see table of activities below for relevant sections of part 2
A licence amendment		Part 3 and Part 2 only if there are changes to the information or the applicant holds a permit issued in terms of section 20 of ECA (No. 78 of 1989) as amended.
A licence for closure		Part 4, Section 2, 3a, 3b, & 3c. of part 2 of this application form

Indicate the type of facility/operation and fill in the required sections only

TYPE OF ACTIVITY	MARK	SECTIONS OF THE FORM TO BE FILLED IN
Recycling and/or recovery Facility		All except Section 8
Storage and or transfer Facility		All except Section 8
Treatment facility	X	All except Section 8
Disposal facility		All



## Activities applied for

An application may be made for more than one listed or specified activity that, together, make up one development proposal. All the listed activities that make up this application must be listed.

INDICATE THE NO. & DATE OF THE RELEVANT NOTICE:	ACTIVITY NUMBERS (AS LISTED IN THE WASTE MANAGEMENT ACTIVITY LIST) :	DESCRIBE EACH LISTED ACTIVITY:
GN. R718	Category B (7): The treatment of effluent, wastewater or sewage with an annual throughput capacity of 15 000 cubic metres or more.	The wastewater treatment facility at the Radisson Blu Safari Resort in the Kruger National Park will have an annual capacity 25 550m³ which exceeds the regulated threshold of 15 000m³, as a result activity 7 is triggered.
GN. R718	Category B (11): The construction of facilities for activities listed in Category B of this Schedule (not in isolation to associated activity).	

NB: Authorisation issued will only cover activities applied for and listed above. Activities added in the middle or after the processing of this authorisation may mean a totally new application.

## Application for Category A (equivalent to Basic Assessment)

Is this an application for a basic assessment (as defined in the EIA regulations)?

<input checked="" type="checkbox"/>	NO ✓
<input checked="" type="checkbox"/>	NO ✓

If, YES, Is a basic assessment report attached?

If, NO, please indicate when the basic assessment report will be submitted:

N/A
-----

Is information required as per Appendix B1 of this form attached?

<input checked="" type="checkbox"/>	NO ✓
-------------------------------------	---------

If, NO, please ensure that it is submitted together with the basic assessment report (BAR)

## Application for Category B (equivalent to Scoping and Environmental Impact Assessment (EIA))

Is this an application for Scoping and EIA (as defined in the EIA regulations)?

YES ✓	<input checked="" type="checkbox"/>
----------	-------------------------------------

Please indicate when the Scoping Report and Plan of Study for EIA will be submitted:

The Final Scoping Report (Ref # 12/12/20/610/1/69) and plan of study for the EIA was received by the DEA on the 1<sup>st</sup> March 2011.

Please ensure that both Appendix B1 and B2 are completed and included in reports

The scoping report and/or the plan of study for EIA will be submitted after consultation with the competent authority

A consultation with the competent authority is hereby requested:

YES ✓	<input checked="" type="checkbox"/>
YES ✓	<input checked="" type="checkbox"/>

## SECTION 2: SITE IDENTIFICATION, LOCATION AND LANDUSE

Please indicate all the Surveyor-general Cadastral Code21 digit site (erf/farm/portion) reference numbers:

<p><b>Xan Swart of Urban Dynamics Land Surveyors replied as follows:</b>  <b>It is IN THE jurisdiction of Mpumalanga province. There is NO farm name. I have been asked this before and I enquired at the SG Office. There is also no property number or portion no, it is all Kruger National Park.</b>  <b>Xan's contact details are T: 012 346 3787, E: xan@xsl.co.za or landplan@mweb.co.za</b></p>																			
1	2	3	4	5															

### LEGEND:

1. Refers to the Surveyor's-General Office (T = Pretoria, F = Free State, C = Cape Town & N = Kwazulu-Natal)
2. Major Code (Registration Division)
3. Minor code
4. Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)
5. Portion Number

If the property type is not surveyed, complete the following:

Full name of leader of village, community or tribal authority

Local Authority

Magisterial District

Tribal Authority/Council

N/A

Ownership of the property (mark only one with an X)

Property owned by applicant (100% Share value)		Property leased by applicant	X
Property owned by applicant (Share value less than 100%)		The property is communal land	

## Size of Site and Classification

Size of facility for a waste management activity	Area required for sewage treatment plant = 400m²
Area where the waste management activity takes place	Size of the proposed hotel site = approximately 14 hectares.
Classification of facility in terms of climatic water balance	Not applicable to this project
Classification of Facility in terms of the type and the quantity of waste received	Wastewater treatment plant

## Current land-use where the site is situated:

Industrial		Recreation	
Agriculture		Commercial	
Residential		Mining & quarrying	
Forestry		Wilderness areas	X
Wetlands		Nature area	X
Open spaces			

Other current land-use:

MARK YES/NO	SECTION IN THE REPORTS WHERE RELAVANT AUTHORISATION IS ATTACHED
NO	<i>Please Note: Pending - information to be included in the EIR</i>
NO	

## Geographical coordinates of all external corner points of the site:

Number of corner	Latitude				Longitude	
North Western	25	25	01.1	31	33	00.9
North Eastern	25	25	04.6	31	33	26.6
South Eastern	25	25	14.5	31	33	26.6
South Western	25	25	13.3	31	33	05.4

Site Address:

Building Name or Number	Radisson Blu Safari Resort, Kruger Park
Street	Rhenosterkoppies Road (S114)
City/Closest Town	Malalane area of the Kruger National Park
Province	Mpumalanga
Local Municipality	Nkomazi Local Municipality MP324



District Municipality	Ehlanzeni District Municipality (DC32)		
Property Description (Deeds Act or name of farm, town, city or agricultural holding)	<p>The proposed for the resort development is a 'green field' site and is situated approximately 10km North East of the Malelane Gate entrance to the Kruger National Park (KNP). The wastewater treatment plant is to be installed within the boundaries of the Resort. The Crocodile River forms the eastern boundary of the site, and the Timfenheni River flows toward the Crocodile River near the North Western boundary of the site. The Rhenosterkoppies Road traverses the site, and the area includes a small portion of the Timfenheni Loop. The site is owned by SANParks and is to be leased by the applicant (Refer to Figure 1: Locality Map). The Nkomazi Local Municipality is the neighbouring Municipality to the KNP along its southern boundary.</p> <p><b>Please note :- Property descriptions will be provided in the EIR</b></p>		
Contact person:	Advocate Hugh Mbatha		
Postal address	P.O. Box 3333,		
	Nelspruit		
Postal code:	1200	Cell:	
Telephone:	013 759 8500	Fax:	013 755 3157/67
E-mail:	Inqomane@ledc.co.za		

Local authority in whose jurisdiction the proposed activity will fall:	Nkomazi Local Municipality MP324		
Contact person:	Mr TB Siboya		
Postal address:	Private Bag X101, Malelane		
Postal code:	1320	Cell:	
Telephone:	013 790 0245	Fax:	013 790 1494
E-mail:	nkzmun@mweb.co.za		

In instances where there is more than one local authority involved, please attach a list of local authorities with the contact person and contact details to this application.

### SECTION 3: CONTACT INFORMATION

#### A) Person to contact about application (EAP)

First name & Surname	Claudia Coetzee		
Company name (if any):	Interdesign Landscape Architects (Pty) Ltd		
Company Registration/Identity number for individuals	98/21719/07		
Physical address:	410 Pauline Spruijt Street,		
	Garsfontein x8, Pretoria, 0081		
Postal address:	P.O. 74648		
	Lynnwood Ridge		
Postal code:	0040	Cell:	
Telephone:	012 348 1922	Fax:	012 348 7154
Email Address	claudia@ilaweb.co.za		

## B) Person wishing to hold licence

First name & Surname of Applicant	Peter Wright		
Company name (if any):	Malelane Safari Resort Investments (Pty) Ltd		
Company Registration/Identity number for individuals	2009/015796/07		
Physical address	6 Sherwood, Ebury Avenue, Bryanston		
Postal address	Postnet Suite 192 Private Bag X75, Bryanston,		
Postal code:	2021	Cell:	082 922 3263
Telephone:	(011) 463 9849	Fax:	(011) 463 9849
E-mail:	pete@secpropleisure.co.za		

## C) Landowner where activity takes place

First name & Surname	Ms Annemi van Jaarsveld		
Company name (if any):	South African National Parks (SANParks)		
Company Registration/Identity number for individual(s)	South African National Parks is a statutory body established in terms of the now repealed National Parks Act No. 57 of 1976 and continuing to exist in terms of section 54(1) of the National Environmental Management: Protected Areas Act 57 of 2003 (as amended).		
Physical address	643 Leyds Street, Muckleneuk, Pretoria		
Postal address	P.O. Box 787, Pretoria, 0001		
Telephone:	012 426 5000	Cell:	
E-mail:		Fax:	(011) 785-4200
	annemiv@sanparks.org		

## Operational times

PERIOD	FROM	UNTIL
Weekdays	The water treatment plant is expected to operate on a 24 hour basis.	
Saturdays		
Sunday		
Public holidays		



#### SECTION 4: PROCESS/ACTIVITY DESCRIPTION:

**Project Title** Radisson Blu Safari Resort – Sewage / Wastewater Treatment Plant

##### Project Description:

Please provide a brief description of the activities and operations at the site. Provide a flow chart of the operation showing all inputs and outputs of the process. Give particulars of the source, location, nature, composition and quantity of emission to the atmosphere, surface water, sewer, and ground-water including noise emissions. Solid waste must be in tons and specify units for liquids and gases.

The South African National Parks (SANParks), in line with its Strategic Plan for commercialisation, has granted a concession to Malelane Safari Resort Investments (Pty) Ltd for the construction of the Radisson Blu Safari Resort, Kruger Park in the Malelane area of the (KNP). The Safari Resort will comprise of the following:-

- A 240 bed Hotel (and ancillary services)
- Clubhouse with a place of refreshment and pool area;
- Restaurant;
- Conference venue;
- Wellness Centre / Spa and,
- A wastewater / sewage treatment facility.

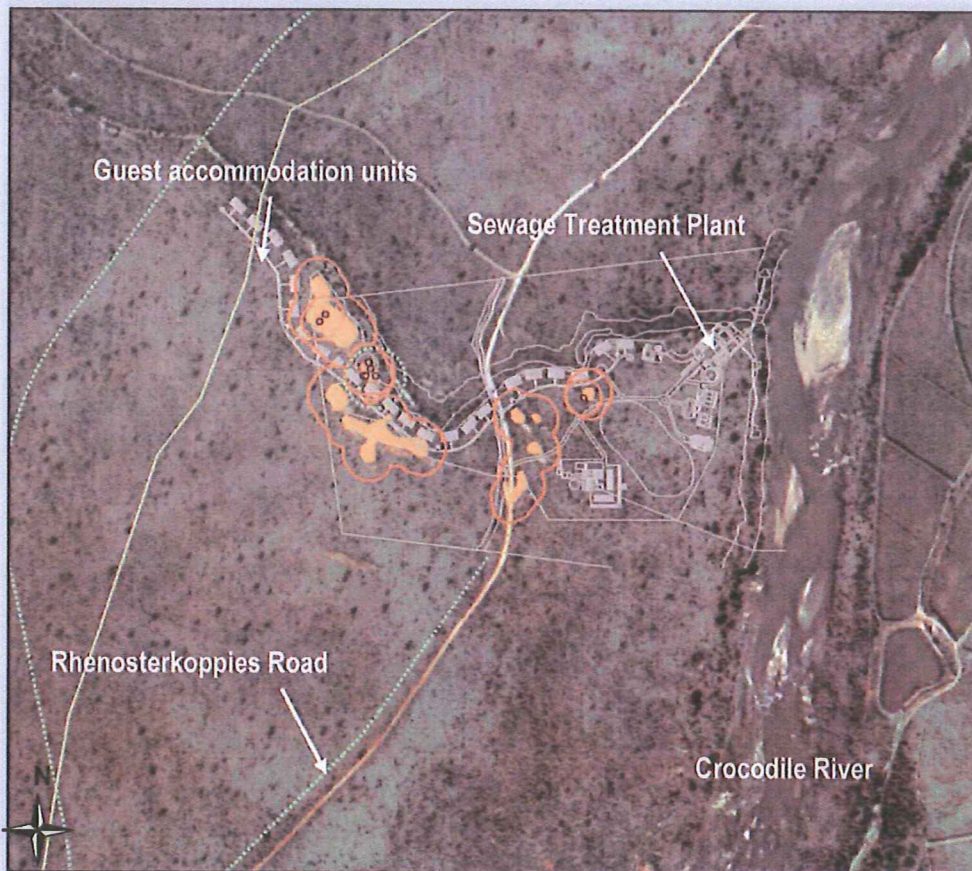


Figure 1: Proposed layout of the resort and Sewage Treatment Facility.



#### **Sewage and Wastewater Treatment Facility:-**

Sewage and waste water will be produced during the operational phase of the lodge, consequently these waste streams will require to be appropriately managed in order to avoid impacts on the environment and human health. It was approved (as part of SANParks Public Private Partnership (PPP) Agreement with Malelane Safari Resort Investments) that the generated sewage from the lodge will be treated on site and the grey water will be reused for irrigation or water provision for game. The installation of the sewage treatment is a listed activity in terms of The National Environmental Management Waste Act (NEMWA) GN: 718, and hence necessitates that a waste management license be applied for.

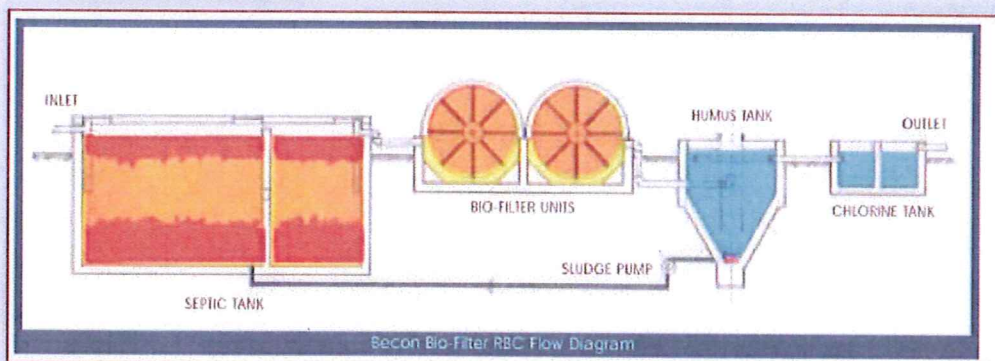
Proposed Sewage and Wastewater Treatment technology:

A Biofilter Rotating Biological Contactor (RBC) package plant has been proposed as it is relatively inexpensive, reliable and simple to operate and maintain, while producing a high quality effluent. In the Bio-Filter design, the biological stage takes the form of a series of closely spaced parallel flat self-cleaning discs manufactured from high density polyurethane which are mounted on a shaft at closely spaced intervals to form a unit rotor construction. In the bottom half of the rotational cycle the bacteria on the discs absorb the "food" in the wastewater and during the top half of the cycle the bacteria on the discs absorb oxygen from the air, thereby sustaining the metabolic action of the biological process. Biological growth similar to that found in percolating filters, grows on the surface of the discs. A living aerobic freely circulating bio-mass is also found in the plant trough and this also contributes to the biological treatment of the wastewater. The turbulence created in the flow through the plant by the rotors, keeps the bio-mass within the trough liquid in constant motion, and is eventually carried out with the treated effluent for subsequent settling in the humus tank, prior to re-use (irrigation)

Depending on the loading of the plant, these wastes are transformed into harmless substances, oxidized, or merely absorbed by the plant. Since the waste substances present in the plant are being constantly converted into harmless substances, the bio-mass both on the discs and in the troughs is being constantly added to, and the excess on the disc surfaces is removed on submersion into the waste water in the troughs and is carried out from the disc treatment stage by the flow of the waste water through the plant. A sludge is therefore, produced which is removed from the treated water by sedimentation in clarifier which follows the disc treatment stage. Disinfection by conventional methods is finally undertaken for effluent to comply with the standards as laid down in the Water Act in all respects prior to re-use.

The RBC plant lay-out for the treatment of wastewater will comprises of the following elements:-

- a) Primary treatment, usually by means of a septic tank or primary settlement tank.
- b) Biological treatment of primary effluent by means of the Bio-Filter rotating disc units.
- c) Humus removal by means of a secondary settlement tank.
- d) Disinfection of final effluent by means of a chlorine contact tank.
- e) Phosphate removal where required.



**Figure 2: Process flow of Bio-filter RBC plant (Source: Becon Watertech)**

#### **Identification of Key Environmental Issues**

The following potentially significant impacts associated with the proposed sewage treatment plant have been identified by the EAP and project team:

- Operational phase impacts:
  - Air Quality: - Odour is not expected that the process will generate any unpleasant odours due to the process being aerobic i.e. sewage will not be in a septic (odour producing) state.
  - Noise: - The noise impacts associated with the operation of the STW will comply with both daytime and night-time criteria. Thus no adverse noise impact arising from the operation of the STW would be expected
  - Soil and groundwater contamination: - Possible contamination of groundwater should the development not be managed properly. Should the capacity of the system be exceeded (in case of a high rainfall event / failure of the plant) then contamination of the receiving environment may result in significant soil and groundwater contamination. This impact is expected to be insignificant as the design of the



plant includes the installation of the of one pumpstation with associated sump/reservoir, that will be adequate for two days storage (140m³) in order to provide fail safe mechanism against plant malfunction. Furthermore a separate electricity back up system will be installed for further safety. The discharges of treated effluent that do not conform to the DWAF general limit values may pose health risks to users of the site. The over-irrigation of treated effluent i.e. in excess of the recommended guideline volumes may result in the soils becoming saturated and maybe even waterlogged through salinization.

- Visual impacts: - Visual intrusion of the sewage treatment plant to elevated surrounds (presence of additional built form within an area of natural beauty). Exacerbating the significance of the potential impact is the high sensitivity of the viewers (tourists) but offsetting the significance of the potential impact is the presence of several other buildings in close proximity to the proposed sewage package plant site, including a restaurant, offices and shops. The visual impact arising from the sewage treatment plant is expected to be negligible due to the substantial distance between the nearest sensitive receivers and the site, and the temporary nature.
- Ecology: - Possible ecological impacts include those to the species of ecological interest at the KNP. According to the available information, it is noted that the package plant will produce a high quality effluent that will be reused for irrigation of the resort's grounds and no discharge to the adjacent rivers are expected, as a result, no adverse ecological impact is anticipated for the operational phase of the STW.
- Closure and decommissioning phase impacts: There are no plans to decommission the resort or the sewage treatment plant; however, should this eventually be the case, the closure /decommissioning phase may result in soil and groundwater contamination; and nuisance impacts (including noise and dust).

Please refer to the final scoping report (DEA reference number: 12/12/20/610/1/69) for further detailed information.

## SECTION 5: WASTE QUANTITIES (to be provided in the Scoping and EIA Report)

Indicate or specify types of waste and list the estimated quantities expected to be managed daily (should you need more columns, you are advised to add more). **Please Note: Pending - information to be included in the final EIR.**

Hazardous waste	Area Generated	Total waste handled (tonnes per day)	Non-hazardous waste	Area Generated	Total waste handled (tonnes per day)
Untreated Sewage	General Accommodation Blocks	Volumes TBC in the EIR	Treated Effluent:	Sewage treatment and discharge Area	Volumes TBC in the EIR
Sewage Sludge:	Sewage treatment plant	Volumes TBC in the EIR	General Waste	General Accommodation Blocks, restaurants and	Volumes TBC in the EIR
General hazardous wastes	Safari Lodge and ancillary services	Volumes TBC in the EIR	Landscaping and Kitchen Wastes		Volumes TBC in the EIR

Source of information supplied in the table above Mark with an "X"

Determined from volumes

Determined from the general information  
Determined from the specific information

TBC

## Recovery, Reuse, Recycling, treatment and disposal quantities:

Indicate the applicable waste types and quantities expected to be disposed of and salvaged annually: **Please Note - Pending, information to be included in the EIR.**

TYPES OF WASTE	MAIN SOURCE (NAME OF COMPANY)	QUANTITIES		ON-SITE RECOVERY REUSE RECYCLING TREATMENT OR DISPOSAL	
		TONS/MONTH	M <sup>3</sup> /MONTH	method & location	method location and contractor details
Untreated Sewage	Sewage treatment plant	TBC IN EIR	TBC IN EIR	Treatment - by a sewage treatment plant	TBC IN EIR
Sewage Sludge:	Sewage treatment plant	TBC IN EIR	TBC IN EIR	Offsite disposal – To be undertaken by an accredited waste service provider	TBC IN EIR
Treated Effluent:	Sewage treatment plant	TBC IN EIR	TBC IN EIR	Onsite re-use – for the purpose of irrigation of provision of water for game	TBC IN EIR
General Waste	Safari Resort and ancillary services	TBC IN EIR	TBC IN EIR	Onsite recovery of recyclable components followed by offsite disposal by an accredited waste service provider	TBC IN EIR
Landscaping and Kitchen Wastes	Safari Resort and ancillary services	TBC IN EIR	TBC IN EIR	Onsite recycling – installation of in-situ composting (recycling) procedures	TBC IN EIR
Hazardous wastes	Safari Resort and ancillary services	TBC IN EIR	TBC IN EIR	Onsite segregation followed by offsite disposal by an accredited waste service provider	TBC IN EIR

## SECTION 6: GENERAL

Prevailing wind direction (e.g. NWW)

**Please Note: Pending - information to be included in the EIR.**

November – April	North Easterly
May - October	North Easterly

The size of population to be served by the facility

Mark with "X"	Comment
500-9,999	The resort will be capable of housing:- <ul style="list-style-type: none"> <li>- 240 resident guests at peak based on the availability of 240 beds</li> <li>- 150 employees assumed.</li> <li>- Occasional (day) guests assumed = 400 persons (at worse case)</li> </ul>

The geological formations underlying the site:

Granite		Shale	
Sandstone		Siltstone	



Sediments

Basalt

X

Dolerite

Schist

X

Other: The geology of the site is Basaltic and peridotitic komatiite, as well as various mafic and ultramafic schists interlayered with banded iron formation and ferruginous black, white grey chert and acidic to intermediate volcanic rocks (Barberton Supergroup, Onverwacht Group, Tjakastad Subgroup, Komati and Theespruit Formations).

## SECTION 7: COMPETENCE TO OPERATE SITE

It is imperative that the holder of the waste licence is a fit person in terms of section 59 of the NEMWA (59 of 2008). To assess the holder's competence to operate the site, please disclose the following:

### Legal compliance

	YES/NO	DETAILS
Has the applicant ever been found guilty or issued with a non-compliance notice in terms of any national environmental management legislation?	NO	N/A
Has the applicant's licence in terms of the Waste Act 2008 ever been revoked?	NO	
Has the applicant ever been issued with a non-compliance notice or letter in terms of any South African Law?	NO	

**NB:** Details required above include any information that the applicant wants the Department to take into consideration in determining whether they are a "fit person" and this includes reasons why the offence happened and measures in place to prevent recurrence.

### Technical competence **Please Note: Pending - information to be included in the EIR.**

What technical skills are required to operate the site?	A qualified technician will be required to operate the treatment works. The technician will be required to have the relevant skills mandatory to operate and control processes at a wastewater treatment works within the context of legislation and work policies and procedures
How will the applicant ensure and maintain technical competency in the operation of the site?	TBC

Details of applicant's experience and qualification along with that of relevant employees must be summarised as shown in the table below: **Please Note: Pending - information to be included in the EIR.**

NAME	POSITION	DUTIES AND RESPONSIBILITIES	QUALIFICATIONS AND EXPERIENCE
TBC	Wastewater Process Control	<ul style="list-style-type: none"> <li>To be responsible for the operation and maintenance of all Wastewater Treatment Assets, to achieve key Safety, Health and Environmental performance targets.</li> <li>Responsible for generating, analysing and interpreting day to day operational performance</li> <li>Report progress to the Operations Manager</li> </ul>	TBC
TBC	Supervisory capacity - Operations Manager	<ul style="list-style-type: none"> <li>Responsible for meeting all site related quality and legal standards for Safety, Health and Environmental compliance.</li> <li>To ensure all assets are operated in line with quality and environmental management systems and legal standards for compliance.</li> </ul>	TBC

## Financial Provisions

Provide a plan of estimated expenditure for the following:

	ATTACHED/NOT ATTACHED	SECTION OF THE REPORT WHERE IT IS ATTACHED
Environmental Monitoring  Provision and replacement of Infrastructure  Restoration and aftercare		Please Note: Pending - information to be included in the EIR



# SECTION 8: LANDFILL PARAMETERS

## The method of disposal of waste:

Land-building

☐

Land-filling

☐

Both

☐

## The dimensions of the disposal site in metres

	At commencement	After rehabilitation
Height/Depth	N/A	
Length		
Breadth		

## The total volume available for the disposal of waste on the site:

Volume Available	Mark with "X"	Source of information (Determined by surveyor/ Estimated)
Up to 99		
100-34 999		
35 000- 3,5 million		N/A
>3,5 million		

## The total volume already used for waste disposal:

(a) Will the waste body be covered daily

(b) Is sufficient cover material available

(c) Will waste be compacted daily

N/A

YES

NO

YES

NO

YES

NO

If the answers (a) and/or (b) are No, what measures will be employed to prevent the problems of burning or smouldering of waste and the generation of nuisance?

N/A

## The Salvage method

Mark with an "X" the method to be used.

At source

Recycling installation

Formal salvaging

Contractor

No salvaging planned


## Fatal Flaws for the site:

Indicate which of the following apply to the facility for a waste management activity:

Within a 3000m radius of the end of an airport landing strip

Within the 1 in 50 year flood line of any watercourse

Within an unstable area(fault zone, seismic zone, dolomitic area, sinkholes)

Within the drainage area or within 5 km of water source

Within an area with shallow and/or visible watertable

Within an area adjacent to or above an aquifer

Within an area with shallow bedrock and limited available cover material

Within 100 m of the source of surface water

Within 1km from the wetland

Indicate the distance to the boundary of the nearest residential area

Indicate the distance to the boundary of the industrial area

YES	NO
YES	NO
YES	NO
YES	NO
YES	NO
YES	NO
YES	NO
YES	NO
YES	NO
_____metres	
_____metres	

## Wettest six months of the year

November- April

May -October


For the wettest six month period indicated above, indicate the following for the preceding 30 years

	Total rainfall for 6 months	Total A-pan evaporation for 6 months	Climatic water balance
For the 1 <sup>st</sup> wettest year			
For the 2 <sup>nd</sup> wettest year			
For the 3 <sup>rd</sup> wettest year			
For the 4 <sup>th</sup> wettest year		<b>N/A</b>	
For the 5 <sup>th</sup> wettest year			
For the 6 <sup>th</sup> wettest year			
For the 7 <sup>th</sup> wettest year			
For the 8 <sup>th</sup> wettest year			
For the 9 <sup>th</sup> wettest year			
For the 10 <sup>th</sup> wettest year			

**Location and depth of ground water monitoring boreholes:**

[illegible]

Location and depth of landfill gas monitoring test pit:

Codes of boreholes	Borehole locality	Latitude		Longitude			
		01	1	01	5	1	01
		02	1	01	03	1	01
		03	1	01	07	1	01
		04	1	01	03	1	01
		05	1	01	03	1	01
		06	1	01	03	1	01
		07	1	01	03	1	01
		08	1	01	03	1	01
		09	1	01	03	1	01
		10	1	01	03	1	01

SECTION 9: DECLARATIONS

**The independent Environmental Assessment Practitioner**

I, KULIE FARRELL, declare under oath that I –

- act as the independent environmental assessment practitioner in this application ;
- do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2006;
- have and will not have no vested interest in the proposed activity proceeding;
- have no, and will not engage in, conflicting interests in the undertaking of the activity;
- undertake to disclose, to the competent authority, any material information that have or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document required in terms of the Environmental Impact Assessment Regulations, 2006;
- will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- will keep a register of all interested and affected parties that participated in a public participation process; and
- will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not.

K. Farrell  
Signature of the Environmental Assessment Practitioner:

WSP ENVIRONMENT & ENERGY  
Name of company:

10 JUNE 2011  
Date:

[Signature]  
Signature of the Commissioner of Oaths:

10 JUNE 2011  
Date:

CA. (S.A.)  
Designation:

COMMISSIONER OF OATHS  
Johan Janse van Rensburg CA (SA)  
Commissioner of Oaths (RSA)  
8 Orchard Avenue, Bordeaux  
Midburg 2194, South Africa

Official stamp (Above)

## The Applicant

I, Mr Peter Wright declare under oath that I –

- Am, or represent, the applicant in this application;
- appointed the environmental assessment practitioner as indicated above to act as the independent environmental assessment practitioner for this application;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Environmental Impact Assessment Regulations, 2006, including but not limited to –
- costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
- costs incurred in respect of the undertaking of any process required in terms of the regulations;
- costs in respect of any fee prescribed by the Minister in respect of the regulations;
- costs in respect of specialist reviews, if the competent authority decides to recover costs; and
- the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the environmental assessment practitioner is competent to comply with the requirements of these regulations;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify, the government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action for which the applicant or environmental assessment practitioner is responsible in terms of these regulations; and
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to an appeal being decided in terms of these regulations.

  
Signature of Applicant


Malelane Safari Resort Investments (Pty) Ltd

Name of company:

Date:

June 8, 2011

Signature of the Commissioner of Oaths:

  
Gita Muller  
Commissioner of Oaths  
Eversheds

22 Fredman Drive  
Sandton, Johannesburg

Date:

8 June 2011

Designation:

Official stamp (Above)





# WASTE LICENCE APPLICATION FORM

## PART 3: APPLICATION FORM FOR AMENDMENT TO AN EXISTING AUTHORISATION

Details of Current Licence:

Current Licence or Permit reference number	
--	--

The Proposed Modification:

Give details of changes required in the authorisation:

Condition Number	Condition as written in the current authorisation	Proposed condition	Motivation for change

Will the amendment amount to increase in the environmental impact regulated by the waste management licence?

YES/NO

If yes:

- attach waste impact report
- Attach proof of notification of relevant organs of state
- Attach proof of notification of interested and affected parties

Change of Information

Will there be any changes to information supplied in the original application?

YES/NO

If yes fill in sections that have changed of Part 2: Application for new licence

Signature of Applicant

Name of company:

Date:

Signature of the Commissioner of Oaths:

N/A

Date:

Designation:

Official stamp (Above)





# WASTE LICENCE APPLICATION FORM

## PART 4: APPLICATION FORM FOR CLOSURE

Details of Current Licence:

Current Licence or Permit reference number	
--	--

Section of this form to fill:

Section 2, 3a, 3b, 3c of part 2 of this form.

Documentation Requirements:

Every closure application for facilities shown in the table below must as a minimum be accompanied by documentation as indicated hereafter

Requirements	Recycling &/recovery Facility	Storage & transfer Facility	Treatment facility	Disposal facility
Design of storm-water management	X	X	X	X
Design of leachate management				X
Design & duration of landfill gas monitoring and management				X
Design of settlement/surface pondage				X
Design of access roads				X
Topographic Map indicating the property	X	X	X	
Topographic Map indicating the landfill property boundary, cells (fill areas), wells, and structures within and surrounding the landfill site				X
Plan Drawings (including Final Contour Grade Map) indicating (a) the final contours and vegetation in relationship to the surrounding land and any run-off control structures				X
Plan Drawings (including Final Contour Grade Map) indicating (b) well location(s), depth to groundwater and flow direction				X
Plan Drawings (including Final Contour Grade Map) indicating (c) the locations at which gas monitoring takes place				X
drawings showing the proposed final restored profile for the landfill accompanied by calculations of the remaining tonnages of waste (void space) and materials necessary to close, cap and restore the landfill				X

Provision of services that were provided by the facility being closed	X	X	X	X
Post Closure Site management & Operation	X	X	X	X
Monitoring Plan	X	X	X	X
Emergency Preparedness plan	X	X	X	X
Rehabilitation measures including removal of site structures,	X	X	X	X
Rehabilitation measures including waste compaction and capping; application of topsoil & vegetation establishment				X
Procedures for the inspection or auditing of the rehabilitation process and mechanisms for reporting to the licensing authority.	X	X	X	X
long and short term stability				X
procedures and timescales for ensuring final levels are achieved				X

Signature of Applicant

Name of company:

Date:

N/A

Signature of the Commissioner of Oaths:

Date:

Designation:

Official stamp (Above)

## APPENDIX: A1

### Information needed when applying for scheduled activities listed under Category A, but is not limited thereto:

Basic Assessment Report which must include supplementing documentation such as:

- Description of the environment that may be affected by the proposed activity and the manner in which the geographical, physical, biological, social, economic and cultural aspects of the environment may be affected by the proposed activity
- Description of significant environmental impacts, including cumulative impacts, that may occur as a result of the undertaking of the activity
- Conducting public participation as outlined in EIA Regulations
- Waste disposal facility designs
- Closure plan (report)
- Operational plan
- All applicable legislation, policies and/or guidelines
- End-use plan (only apply to site landfill closure)
- Closure/Remedial designs (only apply to the landfill closure)
- Latest external audit report (only apply for permit amendment)
- Application and report documents (four hard copies for all applications)
- A3 size layout plans (four hard copies for all applications)
- Landfill conceptual designs (only apply for construction and decommissioning of landfill sites)
- Geo-hydrological report (only apply to landfill sites, storage facilities and treatment of waste)
- Consideration of alternatives
- Description of mitigation measures and risk assessment
- Any inputs made by specialists to the extent that may be necessary
- Any specific information as may be required by the competent authority

### Information needed when applying for scheduled activities listed under Category B, but is not limited thereto:

**Please Note - Pending, information requirements will be adhered to and included in the EIR**

Scoping and Environmental Impact Assessment Report which should include:

- Description of the environment that may be affected by the proposed activity and the manner in which the geographical, physical, biological, social, economic and cultural aspects of the environment may be affected by the proposed activity
- Description of significant environmental impacts, including cumulative impacts, that may occur as a result of the undertaking of the activity
- Conducting public participation as outlined in EIA Regulations
- Closure plan (report)
- Operational plan
- Waste disposal facility designs
- End-use plan (only apply to site closure)
- Closure/Remedial designs (only apply to site closure)
- Latest external audit report (only apply to permit amendment)
- Application and report documents (four hard copies for all applications)
- A3 size layout plans (four hard copies for all applications)
- Landfill conceptual designs
- Geo-hydrological report (only apply to landfill sites, storage and treatment of waste)
- Consideration of alternatives
- Description of mitigation measures and risk assessment
- Any inputs made by specialists to the extent that may be necessary
- Any specific information as may be required by the competent authority

Plan of study for environmental impact assessment which must among others include:

- Description of the tasks to be undertaken as part of the environmental impact assessment process, including specialist report or specialized processes, and a manner in which such tasks will be undertaken
- An indication of stages of stages at which the competent authority will be consulted
- Description of methods for assessing issues and alternatives, including the no-go alternative
- Particulars of participation process that will be conducted during the EIA process

NB: Compilation of EIA report must be based on tasks outlined in the Plan of Study for EIA, and the below listed reports must also be attached.

- Draft environmental management plan (only apply to EIA reports. No draft EMP should be included in the scoping report)
- Copies of any specialist reports and specialized processes (only apply to EIA reports. No copies of specialist studies and specialized processes should be included in the scoping report)



## APPENDIX B1

The following **MUST** be included in the application as supporting documentation and the applicant must indicate specific section(s) where they are appended in the reports.

**Please Note - Pending, information requirements will be adhered to and included in the EIR**

REQUIRED PIECE OF INFORMATION	SECTION IN THE REPORTS WHERE IT CAN BE FOUND	COMMENTS (If any)
1. Extremely clear Google Earth colour picture of the site (dated not more than a month from the date of the application)	To be included in the EIR	
2. 1:50 000 topography /topo-cadastral map of the area showing	Refer to Appendix 2 of the scoping report	
2.1 the site and 5km radius	Appendix 2 of the scoping report – the surrounding land uses will be included in the EIR.	
2.2 Existing residential and industrial areas	Surrounding land uses will be included in the EIR (visual impact assessment information extracted from prof van Riets presentation).	
2.3 Possible future development (indicate the type of development)	Not Applicable	
2.4 Other waste handling sites (existing or closed) in the area	Refer to the waste management plan to be submitted.	
2.5 Existing and possible future residential areas.	Not applicable to EIR process	
2.7 Sites which are listed as national monuments or archaeological, paleontological and cultural historical sites or objects worthy of conservation;	Refer to Section 6.2 of the scoping report. The full heritage assessment will be included in the EIR.	
3. Security and access aspects of the site	Refer to Section 6.3 of the scoping report. Further detail to be included in the EIR.	
4. The site plan drawn to scale showing the site's boundary showing:	To be included in the EIR	
4.1 Activities or development existing on all 4 directions of the site.	To be included in the EIR	
4.2 Waste receipt, storage and handling areas	To be included in the EIR	
4.3 Impermeable surfaces	To be included in the EIR	
4.4 Sealed drainage systems	To be included in the EIR	
4.5 Drainage system for the site including sumps and discharge points	To be included in the EIR	
4.6 Road names and access from all major roads in the area	To be included in the EIR	
4.7 Land Owner's consent (letter with signature)	Refer to application form for NEMA EIR process submitted to the DEA prior to the submission of the scoping report.	
5. Waste hierarchy Implementation plan	Refer to the waste management plan to be submitted.	
6. Emergency preparedness plan	Basic information regarding backup generators and groundwater monitoring will be included in the EIR. If more detailed information is required please could you contact Patrick Riley from WSP on 013 752 2457. He will have information pertaining to the Bio-Filter Biological Contractor.	

## APPENDIX B2

The following MUST be included in the application documentation for landfill sites and the applicant must indicate specific section(s) where they are appended in the reports.

REQUIRED PIECE OF INFORMATION	SECTION IN THE REPORTS WHERE IT CAN BE FOUND	COMMENTS (if any)
Design for site roads		
The 1 in 50 year flood-line of all watercourses		
Laboratory facilities		
Design and location of fuel storage areas		
Design and location waste quarantine areas		
Design and location of waste inspection areas		
Site's drainage system		
Site's emergency control system and plan		
Liner specifications		
Leak detection system and monitoring		
Leachate management plan		
Calculations of leachate generation		
Leachate collection and treatment		
Gas generation and management		
Air quality monitoring and management		
Co-disposal ratio calculation		
Stability monitoring and management		
Daily and intermediate cover requirements		
Temporary and permanent capping requirements		