



## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

### APPLICATION FORM FOR WASTE MANAGEMENT LICENCE

	(For official use only)
File Reference Number:	12/9/11
NEAS Reference Number:	
Date Received:	

Application for authorisation in terms of the National Environmental Management: Waste Act, 2008(Act No.59 of 2008), as amended and the Environmental Impact Assessment Regulations, 2014, as amended

#### PROJECT TITLE

Proposed Incinerator Replacement, Queenstown, Eastern Cape.

#### PROJECT DESCRIPTION

The existing incinerator is used for incinerating waste at the Queenstown Veterinary Laboratory but it is more than 30 years old and as a result has become unserviceable. The main core of the existing incinerator is melting away and needs to be replaced. Some of the main objectives of the proposed incinerator upgrade are to ensure that the facility complies with the relevant air quality standards.

The Queenstown Veterinary Laboratory generates organic waste, general office waste, e.g. paper, glass and medicines during the conduct of diagnostic and analytical testing of specimen of animal origin. Waste which includes animal carcasses and tissue samples are disposed of through incineration. Animal carcasses from private veterinary practices are also brought for incineration. The incineration process is carried out by placing the material in the incinerator, adding diesel and igniting the diesel using an electrical burner. There are two 2,000 liter diesel tanks with low bund walls adjacent to the incinerator. Incineration is usually conducted once or more times a week depending on the accumulated volume of material for disposal. The resulting ash is placed in containers and will be collected and disposed of via a contractor (e.g. Compass Medical Waste Services) or taken to a suitable waste landfill facility. All other medical wastes, such as petri dishes and sharps, are also collected and disposed of by an approved service provider.

**Kindly note that:**

1. This application form is current as of 01 April 2014. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
  2. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
  3. Where applicable **black out** the boxes that are not applicable in the form.
  4. Incomplete applications may be returned to the applicant for revision.
  5. The use of the phrase "not applicable" in the form must be done with circumspection. Should it be done in respect of material information required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the Regulations.
  6. This application must be handed in at the offices of the relevant competent authority as determined by the Act and regulations.
  7. Unless protected by law, all information filled in on this application will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this application on request, during any stage of the application process.
  8. Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report must also be submitted.
  9. The payment of a fee for the processing of environmental impact assessment applications in terms of sections 24(5)(c), 24M and 44 the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA") will be applicable from July 2012.
-

Queries must be addressed to the contact hereunder:

**Departmental Details**

**Postal address:**

Department of Environmental Affairs  
Attention: Director: Authorisations and Waste Disposal Management  
Private Bag X447  
Pretoria  
0001

**Physical address:**

Department of Environmental Affairs  
Erf 1563 Arcadia Ext. 6  
Cnr Soutpansberg and Steve Biko Road  
Arcadia  
Tshwane  
Application queries should be directed to the Sub-Directorate: Waste Licensing Systems  
Management on:

Tel :012 399 9791

**FEES<sup>1</sup>**

**Department of Environmental Affairs details for the payment of application fees**

**Banking details:**

ABSA Bank  
Branch code: 632005  
Account number: 1044 2400 72  
Current account  
Reference number :Waste License (important to quote this when making payment)

**Forward proof of payment to:**

Attach proof of payment to the Application Form  
Application reference number to be sent with proof of payment

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<sup>1</sup>Applicants must pay a fee for the processing of environmental impact assessment in terms of sections 24(5)(c), 24M and 44 the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA"). A flat rate of **R2 000** is charged for basic assessment (BA) and amendment of environmental authorisations applications and **R10 000** for scoping and an environmental impact assessment applications (Scoping EIA)



(if there are more than 6, please attach a list with the rest of the numbers)  
 (These numbers will be used to link various different applications, authorisations, permits etc. that may be connected to a specific site)

**SITE CO-ORDINATES**

Please provide the geographic co-ordinates of all corners of the site; in degrees, decimal minutes, and seconds for all sites (Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site). Provide geographic coordinates for all corners of the facility (ies)

Number of corner	Latitude			Longitude		
1	31°	54'	7.911"	26°	51'	33.702"
2	31°	54'	7.144"	26°	51'	35.192"
3	31°	54'	3.523"	26°	51'	37.589"
4	31°	54'	2.362"	26°	51'	33.843"
5	31°	54'	2.134"	26°	51'	33.712"
6	31°	54'	2.015"	26°	51'	33.312"
7	31°	54'	3.015"	26°	51'	30.890"

**SITE AND LOCALITY PLAN DIRECTIONS**

The DRDAR State Veterinary Clinic is located on Erf 3015 in West Street in the South West of Queenstown in Eastern Cape Province. Access to the site is off West Street from the R67. Please see attached Site Location Plan in Appendix A: Maps.

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**CAPITAL VALUE AND JOB CREATION ESTIMATES (If applicable)**

Capital value	Job estimates
R490,000.00	No new job opportunities (Existing facility).

**PROJECT TITLE**

Proposed Incinerator Replacement, Queenstown, Eastern Cape.
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**1. BACKGROUND INFORMATION**

Project applicant: 1	Department of Rural Development and Agrarian Reform		
Trading name (if any):	N/A		
Contact person:	Dr George Akol		
Physical address:	Diagnostics and Advisory Services Döhne Agricultural Development Institute Stutterheim		
Postal address:	Department of Rural Development and Agrarian Reform Private Bag X0040, Bisho		
Postal code:	5606	Cell:	071 674 668
Telephone:	043-6831004	Fax:	043-6831011
E-mail:	george.akol@drdar.gov.za		
Provincial Authority:	Chris Hani District Municipality		
Reference No. (if any)			
Contact person:	Vuyeka Yabo (Manager: Municipal Health Services)		
Postal address:	29 Prince Alfred Street Queenstown		
Postal code:	5320	Cell:	073 210 6036
Telephone:	045 807 9400	Fax:	045 838 3022
E-mail:	vbanisi@chrishanidm.gov.za		

Project applicant: 2	N/A		
Trading name (if any):			
Contact person:			
Physical address:			
Postal address:			
Postal code:		Cell:	
Telephone:		Fax:	
E-mail:			
Provincial Authority:			
Reference No. (if any)			
Contact person:			
Postal address:			
Postal code:		Cell:	
Telephone:		Fax:	

E-mail:

EAP Company	SRK Consulting (South Africa) (Pty) Ltd.		
Contact person:	Karissa Nel		
Postal address:	P O Box 21842 Port Elizabeth		
Postal code:	6000	Cell:	-
Telephone:	041-509 4800	Fax:	041-509 4850
E-mail:	knel@srk.co.za		

Landowner:	Lukhanji Local Municipality		
Contact person:	N Gqiba (Municipal Manager)		
Postal address:	Private Bag X7111 Queenstown		
Postal code:	5320	Cell:	-
Telephone:	045-8072606	Fax:	045-8072637
E-mail:	mmpa@lukhanji.gov.za		

In instances where there is more than one landowner, please attach a list of landowners with their contact details to this application.

Local authority in whose jurisdiction the proposed activity will fall:	Lukhanji Local Municipality
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District authority in whose jurisdiction the proposed activity will fall:	Chris Hani District Municipality
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Nearest town or districts:	Queenstown		
Contact person:	N Gqiba (Municipal Manager)		
Postal address:	Private Bag X7111 Queenstown		
Postal code:	5320	Cell:	-
Telephone:	045-8072606	Fax:	045-8072637
E-mail:	mmpa@lukhanji.gov.za		

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

<input type="text"/>
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## 2. ACTIVITIES APPLIED FOR TO BE AUTHORISED

2.1 For an application for authorisation that involves more than one listed or specified activity that, together, make up one development proposal, all the listed activities pertaining to this application must be indicated.

Indicate the number and date of the relevant notice:	Activity No (s) (in terms of the relevant notice) :	Describe each listed activity as per project description:	Process indicated by regulations (Scoping or Basic Assessment)
GNR 921 (2013)	Item 7 (Category A)	The incinerator is used for incinerating waste at the Queenstown State Veterinary Laboratory. Waste that is being incinerated includes organic waste generated during diagnostic and analytical testing of specimens of animal origin and involves mostly animal carcasses and tissue samples. The nature of the waste incinerated can be classified as hazardous and although the current daily throughput of the incinerator is approximately 100 - 300 kg/day, the facility has the capacity to incinerate up to 900 kg/day.	Basic Assessment

Please note that any authorisation that may result from this application will only cover activities specifically applied for.

2.2 Please indicate what process will be followed:

Basic assessment: **Yes**

S&EIR: **No**

2.3 Attach permission to upgrade/downgrade if requested and obtained

Not Applicable

2.4 Indicate the proposed project schedule / timeline

Please refer to Appendix C for a project programme.

2.5 HAS ANY OF THE ACTIVITIES COMMENCED? IF YES PROVIDE YEAR, MONTH AND DATE

1 9 7 5

Note that this is an application for the replacement of an existing incinerator. The existing unit was installed approximately in 1975 and is not licensed in terms of the National Environmental Management: Air Quality Act (Act No. 39 of 2004) (NEM:AQA). A Section 22A application applies in terms of NEM:AQA, which will be submitted online (SAAELIP).



- |  |        |
|--|--------|
| 3.1.1 National Environmental Management Act  | Yes/No |
| 3.1.2 National Environmental Management: Air Quality Act                                   | Yes/No |
| 3.1.3 National Environmental Management: Protected Areas Act                               | Yes/No |
| 3.1.4 National Environmental Management: Biodiversity Act                                  | Yes/No |
| 3.1.5 National Environmental Management:<br>Integrated Coastal Management Act <sup>2</sup> | Yes/No |
| 3.1.6 National Water Act   | Yes/No |
| 3.1.7 National Heritage Resources Act  | Yes/No |
| 3.1.8 Mineral Petroleum Development Resources Act  | Yes/No |
| 3.1.9 Other (please specify)   | Yes/No |

3.2 Have such applications been lodged already? Yes/No  
 If Yes, please attach the application and provide a status update.

#### 4. SECTORS

Please indicate, by marking the appropriate box below, the sector and sub-sector applicable to the main development which forms the subject of this application:

Sector 1: Energy infrastructure

Subsector 1.1: Green economy + 'green' and energy saving industries	Subsector 1.5: Nuclear
Subsector 1.2: Infrastructure – electricity (generation, transmission & distribution)	Subsector 1.6: Basic services (local government) - electricity and electrification
Subsector 1.3: Oil and gas	Subsector 1.7: Basic services (local government) - area lighting
Subsector 1.4: Biofuels	

Sector 2: Transport infrastructure

Subsector 2.1: Infrastructure-transport (ports, rail and road)	
Subsector 2.2: Basic services (local government) access roads	
Subsector 2.3: Basic services (local government) - public transport	

Sector 3: Bulk services infrastructure

<sup>2</sup>Where an environmental authorization in terms of chapter 5 of the National Environmental Management Act is required for coastal activities, the competent authority must take into account all the relevant factors including those listed in section 63(1) of the National Environmental Management: Integrated Coastal Management Act.

Subsector 3.1: Infrastructure - water (bulk and reticulation)	
Subsector 3.2: Basic services (local government) - sanitation	
Subsector 3.3: Basic services (local government) -waste management	
Subsector 3.4: Basic services (local government) water	

Sector 4: Water impoundments

Subsector 4.1: Basic services (Local Government) water	
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Sector 5: Agriculture and forestry (including agri-industry, etc)

Subsector 5.1: Agricultural value chain + agro-processing (linked to food security and food pricing imperatives)	
Subsector 5.2: Forestry, paper, pulp and furniture	

Sector 6: Communication infrastructure

Subsector 6.1: 1 Infrastructure - information and communication technology	
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Sector 7: Recreation and hospitality industry related infrastructure

Subsector 7.1: Tourism+ strengthening linkages between cultural industries & tourist	
Subsector 7.2: Basic services (local government) - public open spaces and recreational facilities	

Sector 8: Greenfield transformation to urban or industrial form(including mining)

Sector 9: Biodiversity or sensitive area related activities

Sector 10: Other services

Subsector 10.1: Mining value chain	Subsector 10.8: Business process servicing
Subsector 10.2: Potential of metal fabrication capital & transport equipment - arising from large public investments	Subsector 10.9: Advanced materials
Subsector 10.3: Boat building	Subsector 10.10: Aerospace
Subsector 10.4: Manufacturing - automotive products and components, and medium and heavy commercial vehicles	Subsector 10.11: Basic services(Local Government) Education
Subsector 10.5: Manufacturing- plastics, pharmaceuticals & chemicals	Subsector 10.12: Basic services(Local Government)- health
Subsector 10.6: Manufacturing – clothing textiles, footwear & leather	Subsector 10.13: Basic services(Local Government) Housing
Subsector 10.7: Forestry, paper , pulp & furniture	Subsector 10.14: Basic services (Local Government) security of tenure
	Subsector 10.15: Other

## 5. DECLARATIONS

### 5.1 The Applicant

I, D. GABRIEL MATELO, declare that I -

- am, or represent<sup>3</sup>, the applicant in this application;
- have appointed / will appoint(delete that which is not applicable) an environmental assessment practitioner to act as the independent environmental assessment practitioner for this application / will obtain exemption from the requirement to obtain an environmental assessment practitioner<sup>4</sup>;
- 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, 2014, 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 or MEC 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 and will take reasonable steps to verify whether the EAP complies with the Regulations;
- will inform all registered interested and affected parties of any suspension of the application as well as of any decisions taken by the competent authority in this regard;
- 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 which the applicant or environmental assessment practitioner is responsible for in terms of these Regulations;
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;
- will perform all other obligations as expected from an applicant in terms of the Regulations;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.

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<sup>3</sup>If this is signed on behalf of the applicant, proof of such authority from the applicant must be attached.

<sup>4</sup>If exemption is obtained from appointing an EAP, the responsibilities of an EAP will automatically apply to the person conducting the environmental impact assessment in terms of the Regulations.

W/10  
Signature of the applicant<sup>5</sup>/ Signature on behalf of the applicant:

DEPT OF RURAL DEVELOPMENT AND AGRARIAN REFORM  
Name of company (if applicable):

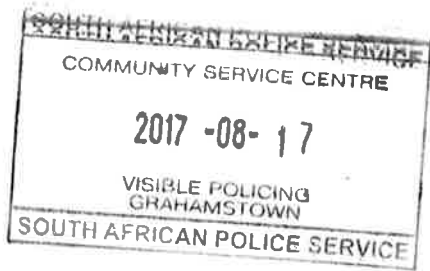
17/08/2017  
Date:

W/10  
A. DE GRANGE  
0925974-1  
Signature of the Commissioner of Oaths:

2017-08-17  
Date:

W/10  
Designation:

Official Stamp



<sup>5</sup>If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority. An EAP may not sign on behalf of an applicant.



## **EASTERN CAPE**

### **DEPARTMENT OF RURAL DEVELOPMENT & AGRARIAN REFORM**

Office No.832 Dukumbana Building · Independence Avenue · Private Bag X0040 · Bhisho · 5605 · REPUBLIC OF SOUTH AFRICA  
Tel: +27 (0)40 602 5039 · Fax: +27 (0)40 636 3558 · Cell no-0827810217

Our Reference:		Your Reference:	
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## **MEMORANDUM**

<b>TO:</b>	<b>State Vet: Grahamstown – Dr Mutero</b>
<b>FROM:</b>	<b>Chief Director: Veterinary Services</b>
<b>DATE:</b>	<b>7 August 2017</b>
<b>SUBJECT:</b>	<b>Appointment as acting Deputy Director: Diagnostics and Advisory Services: 7-18 August 2017</b>

Dear Dr Mutero

It affords me great pleasure to inform you that you are hereby appointed as Acting Deputy Director: Diagnostics and Advisory Services, in terms of Section 37 of the Public Finance Management Act 1999, as amended in conjunction with Section 32 (1) and (2) of the Public Service Act, 1994, amended. Your acting will be for the period 7-18 August 2017.

Please be advised that Dr Akol is on vacation leave. You will be expected to attend to official matters relating to the office of the DDDAS that may arise from the office of the Chief Director Veterinary Services. There will be no change in your terms and conditions of service during this period.

I take the opportunity to wish you all success with your acting appointment.

Trusting you will find the above mentioned in order.

**DR L. MRWEBI**  
**CHIEF DIRECTOR: VETERINARY SERVICES**

**6. THE INDEPENDENT ENVIRONMENTAL ASSESSMENT PRACTITIONER**

I, Karissa Nel, 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, 2010;
- 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.

[Signature]  
Signature of the Environmental Assessment Practitioner:

SRK Consulting  
Name of company:

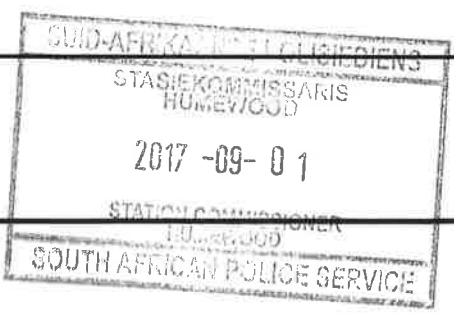
2017/09/01  
Date:

[Signature]  
Signature of the Commissioner of Oaths:

2017-09-01  
Date:

CJT  
Designation:

Official stamp (Above)



**THE LAND OWNER (IF THE LANDOWNER IS DIFFERENT FROM THE APPLICANT)**

I, Adele Boucher declare under oath that I -

- Am, aware of the waste management activity (ies) to take place or taking place in my property
- Consented to this/ these activity (ies) taking / to take place in my property 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.

Boucher  
Signature of Land owner

Enoch Mgijima Local Municipality  
Name of company:

2017 -10- 09  
Date:

[Signature]  
Signature of the Commissioner of Oaths:

2017 -10- 09  
Date:

Designation:

**KAREL PETRUS DE WAAL  
29 EBDEN STREET  
QUEENSTOWN  
COMMISSIONER OF OATHS  
PRACTISING ATTORNEY  
REPUBLIC OF SOUTH AFRICA**

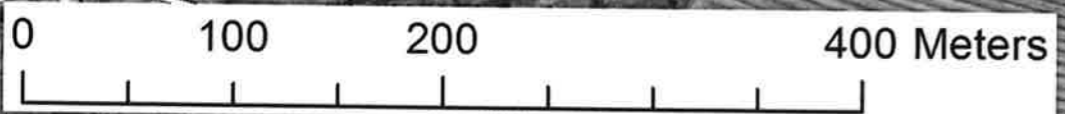
Official stamp (Above)



## Appendix A: Maps



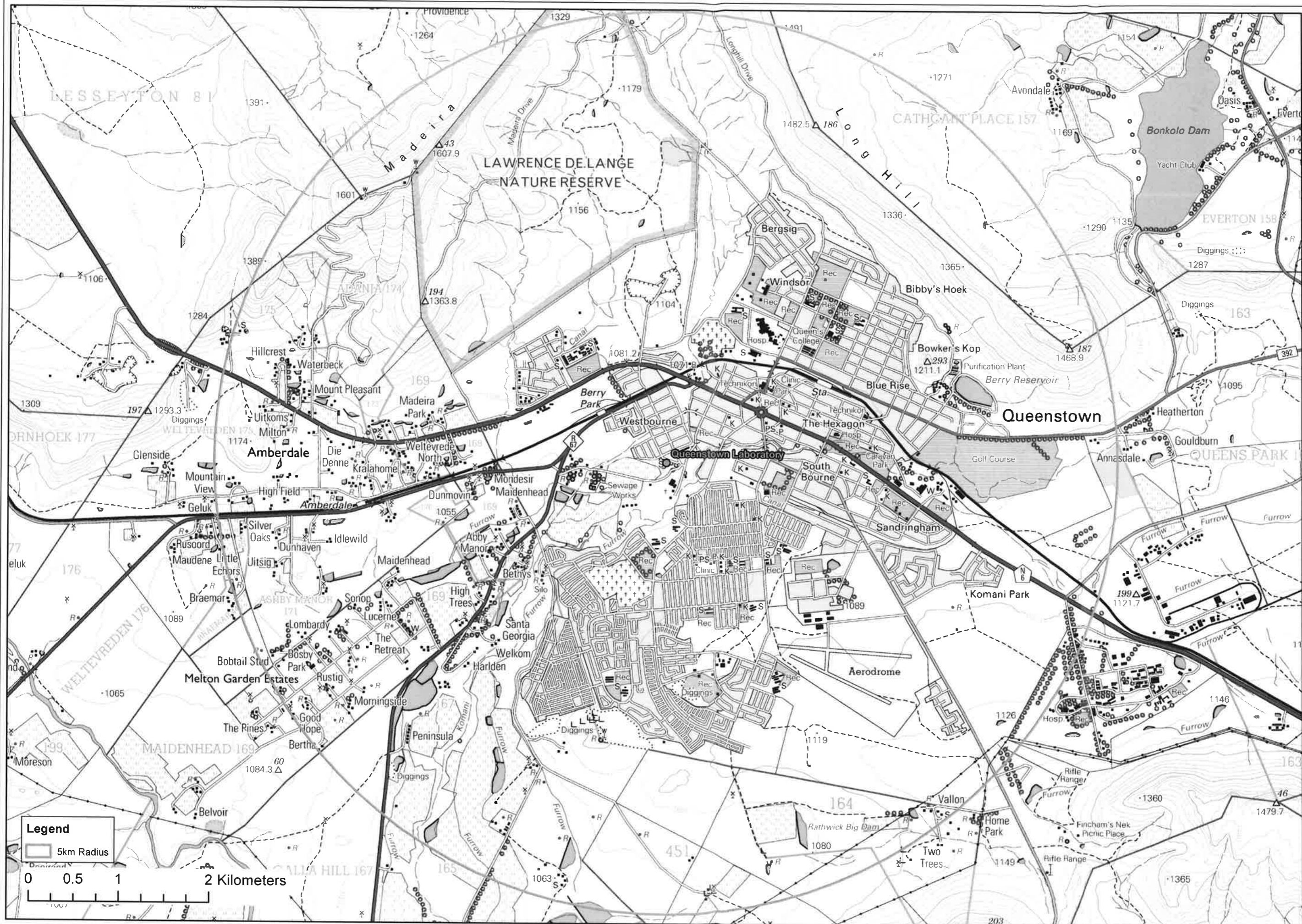
- Legend**
- Non-Perennial River
  - Property Boundary
  - Arterial Route
  - Other Access Road



Scale:	1:5 000		A4
Projection:	TM	Datum:	HH94
Central Meridian/Zone:	Lo27		
Date:	20/06/2017	Compiled by:	VERJ
Project No.	497875	Fig No.	002



**Incinerators EIA & AEL  
Locality - Queenstown**



**Legend**

5km Radius



Scale:	1:38 500	A3
Projection:	TM	Datum:
	HH94	
Central Meridian/Zone:	Lo27	
Date:	20/06/2017	Compiled by:
	VERJ	
Project No.	497875	Fig No.
	005	

## Appendix B: Financial Provision



Province of the  
**EASTERN CAPE**

**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

Provincial Veterinary Diagnostic Services, Center of Veterinary Excellence, Döhne  
Agricultural Development Institute, Private Bag x 14, Stutterheim 4930;  
Tel: 043 683 1004; Fax 043 683 1011; Cell: 071 674 6683;  
[george.akol@drdar.gov.za](mailto:george.akol@drdar.gov.za)

Our reference	Waste licensing/ May 2017	Enquiries	Dr GW Akol
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Department of Environmental Affairs  
Environment House  
473 Steve Biko  
Arcadia  
Pretoria 0083

**Attention: Mr Lucas Mahlangu**

Dear Mr Mahlangu,

**INCINERATOR REPLACEMENTS – FINANCIAL PROVISIONS**

The Department of Rural Development & Agrarian Reform proposes to replace three ageing incinerators with new incinerators of the same capacity at their State Veterinary Laboratories in Queenstown, Grahamstown and Middelburg, Eastern Cape.

The department of Rural Development and Agrarian Reform is committed to the replacement of the incinerators as soon as the specifications are made known. The manufacturers of the incinerators will provide the estimate costs in line with the specifications of the Air Emission licenses which are still to be obtained. Due procurement processes will be followed.

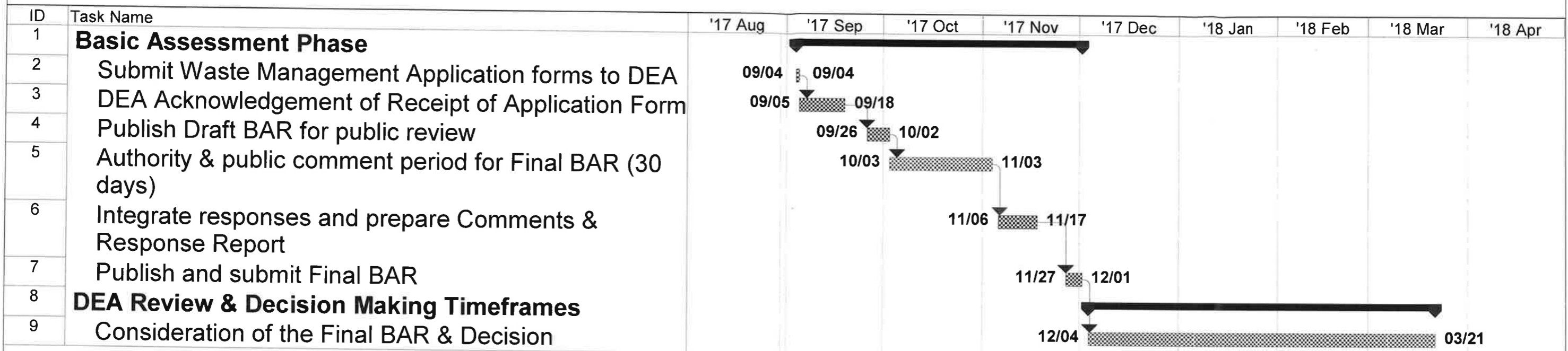
The department will also make provision for Environmental Monitoring after installation in accordance with conditions and fixed tariffs once the constructions is completed from the Department of Environmental affairs or their accredited monitoring agents.

Mr L Coetzee

Deputy Director General: Agriculture Development

Date 25/5/2017

## **Appendix C: Project Programme**



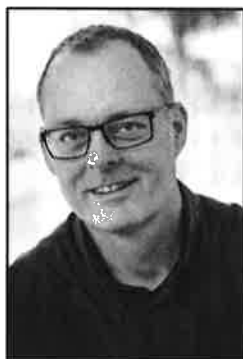
Basic Assessment Process	Task		Project Summary		Manual Summary	
	Milestone		Group By Summary		Start-only	
	Summary		Inactive Task		Finish-only	
	Rolled Up Task		Inactive Milestone		Progress	
	Rolled Up Milestone		Inactive Summary		Deadline	
	Rolled Up Progress		Manual Task		Manual Progress	
	Split		Duration-only			
	External Tasks		Manual Summary Rollup			

## **Appendix D: Environmental Assessment Practitioners' Curriculum Vitae**



## **Rob Gardiner** **Principal Environmental Scientist**

<b>Profession</b>	Principal Environmental Scientist
<b>Education</b>	MBA, Port Elizabeth Technikon, 2004 MSc, Chemistry – Industrial, University of Leeds, 1993 BSc (Hons), Chemistry, University of Cape Town, 1989
<b>Registrations/ Affiliations</b>	Pr Sci Nat, Environmental Scientist (South Africa) 400079/03 Member, International Association of Impact Assessors




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**Specialisation** Environmental impact assessments, environmental management systems, ISO 14001, environmental management plans, environmental monitoring, and environmental auditing.

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**Expertise** Rob Gardiner has been involved in the field of environmental consulting for over 23 years. His expertise includes:

- environmental impact assessments (EIA);
- environmental management systems (EMS) and management plans (EMP);
- water quality monitoring; and
- environmental due diligence and environmental auditing.

His experience in the development, mining, manufacturing and public sectors has been gained in projects within South Africa, Lesotho, Botswana, Angola, Zambia, Zimbabwe, Democratic Republic of Congo, and Suriname.

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### **Employment**

<b>2001 – present</b>	SRK Consulting (Pty) Ltd, Principal Environmental Scientist and responsible for the Eastern Cape Environmental Department, Port Elizabeth
<b>1998 – 2001</b>	Gardiner Associates, Sole Proprietor and Environmental Consultant, Port Elizabeth. Assisted numerous clients in implementation, and aspects of, ISO 14001. This included conducting Initial Reviews, implementing environmental monitoring and management programmes, conducting third party audits of suppliers and contractors, and identifying and assessing compliance with legal and other requirements.
<b>1991 – 1998</b>	CSIR, Division of Textile Technology, Port Elizabeth. Responsible for the Division's environmental management offerings to the South African textile industry, including ISO 14001 awareness and eco-labelling. Also responsible for the CSIR's environmental impact assessment offerings in the Eastern Cape Region.

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**Rob Gardiner**  
Principal Environmental Scientist

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**Languages**

English – read, write, speak  
Afrikaans – read, write, speak

## Rob Gardiner

### Principal Environmental Scientist

#### **Key Experience: Environmental assessment: coastal management**

Location: St Francis Bay, Eastern Cape, South Africa  
 Project duration & year: 2002 to 2007 (including discontinuities)  
 Client: Kouga Municipality  
 Name of Project: St Francis Bay Beach Remediation  
 Project Description: Environmental Impact Assessment  
 Job Title and Duties: Project Co-ordinator for initial EIA, Project Manager for revision of EIR  
 Value of Project: ± R 500,000

Location: Nelson Mandela Metropolitan Municipality, Eastern Cape, South Africa  
 Project duration & year: 6 months, 2005  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: Integrated Beach Development Plan  
 Project Description: Strategic Environment Assessment  
 Job Title and Duties: Environmental Assessor  
 Value of Project: ± R 100,000

#### **Key Experience: Environmental assessment: linear projects**

Location: St Marks to Sabalele village, Eastern Cape, South Africa  
 Project duration & year: 9 months, 2014  
 Client: South African National Roads Agency SOC Limited  
 Name of Project: Upgrade of the DR 08376 from the R61 at St Marks to Sabalele Village  
 Project Description: Environmental Assessment of the widening and surfacing of the R61 at St Marks to Sabalele Village (19 km), including assessment of borrow pits and river crossings  
 Job Title and Duties: Environmental Assessment Practitioner, Project Director  
 Value of Project: ± R 300,000

Location: Cradock to Middleburg, Eastern Cape, South Africa  
 Project duration & year: 9 months, 2012  
 Client: South African National Roads Agency SOC Limited  
 Name of Project: Upgrade of National Route 10, Section 4, Cradock to Knutsford  
 Project Description: Environmental Assessment Services  
 Job Title and Duties: Project Director  
 Value of Project: ± R 250,000

Location: Ngcobo, Eastern Cape, South Africa  
 Project duration & year: 9 months, 2012  
 Client: South African National Roads Agency SOC Limited  
 Name of Project: Upgrade of Route 61, Section 6 from Qumanco River to Ngcobo Town  
 Project Description: Environmental Assessment Services  
 Job Title and Duties: Project Director  
 Value of Project: ± R 250,000

Location: Orange Free State, South Africa  
 Project duration & year: 9 months, 2012  
 Client: South African National Roads Agency SOC Limited  
 Name of Project: Upgrade of National Route 1, Section 14, between Trompsburg Interchange and Fonteintjie  
 Project Description: Environmental Assessment Services  
 Job Title and Duties: Project Director  
 Value of Project: ± R 250,000

## Rob Gardiner

### Principal Environmental Scientist

#### **Key Experience: Environmental assessment: linear projects**

Location: Graaff-Reinet to Cradock, Eastern Cape, South Africa  
 Project duration & year: 9 months, 2011  
 Client: South African National Roads Agency SOC Limited  
 Name of Project: Upgrade of Route 61, Section 2: Draairivier to Elinus Farm between Graaff-Reinet and Cradock  
 Project Description: Environmental Assessment Services  
 Job Title and Duties: Project Director  
 Value of Project: ± R 250,000

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 24 months 2009 to 2011  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: 132 kV Overhead Powerline from Bloemendal to Tembani T-off  
 Project Description: Environmental Impact Assessment  
 Job Title and Duties: Project Director / Environmental Assessment Practitioner  
 Value of Project: ± R 300,000

Location: Uitenhage, Eastern Cape, South Africa  
 Project duration & year: 24 months 2009 to 2011  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: 132 kV Overhead Powerline from Sans Souci Substation to the new Nivens Drift substation  
 Project Description: Environmental Impact Assessment  
 Job Title and Duties: Project Director / Environmental Assessment Practitioner  
 Value of Project: ± R 300,000

Location: Cradock to Middleburg, Eastern Cape, South Africa  
 Project duration & year: 7 months, 2010  
 Client: South African National Roads Agency SOC Limited  
 Name of Project: Upgrade of National Route 10, Section 4 (± 24 km) Tafelberg to Middelburg  
 Project Description: Environmental Assessment Services  
 Job Title and Duties: Project Manager, Environmental Assessment Practitioner  
 Value of Project: ± R 100,000

Location: Cradock to Middelburg, Eastern Cape, South Africa  
 Project duration & year: 7 months, 2010  
 Client: South African National Roads Agency SOC Limited  
 Name of Project: Upgrade of National Route 10, Section 4 (±24 km) Tafelberg to Middelburg  
 Project Description: Environmental Assessment Services  
 Job Title and Duties: Project Manager, Environmental Assessment Practitioner  
 Value of Project: ± R 100,000

Location: Seaview, Eastern Cape, South Africa  
 Project duration & year: 8 months, 2009, and reassessed in 2016  
 Client: Nelson Mandela Bay Municipality  
 Name of Project: Seaview Bulk Water Supply  
 Project Description: Environmental Assessment for a bulk water infrastructure, including two 2.5 ML clear water reservoirs, one in the Island Nature Reserve, and 10 km of new pipelines, ranging from 200 mm to 700 mm diameter, near Seaview, Port Elizabeth  
 Job Title and Duties: Environmental Assessment Practitioner, Project Review  
 Value of Project: ± R 150,000

## Rob Gardiner

### Principal Environmental Scientist

#### **Key Experience: Environmental assessment: linear projects**

Location: Addo to Motherwell, Eastern Cape, South Africa  
 Project duration & year: 36 months, 2007 to 2010  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: Nooitgedagt/Coega Low Level Scheme water supply pipeline  
 Project Description: Environmental Impact Assessment  
 Job Title and Duties: Project Director / Environmental Assessment Practitioner  
 Value of Project: ± R 500,000

Location: Gonubie, East London, Eastern Cape  
 Project duration & year: 9 months, 2008  
 Client: Eastern Cape Department of Roads and Public Works  
 Name of Project: East Coast Resorts Road Upgrade  
 Project Description: Basic Assessment  
 Job Title and Duties: Project Director / Environmental Assessment Practitioner  
 Value of Project: ± R 150,000

Location: St Francis Bay, Eastern Cape, South Africa  
 Project duration & year: 9 months 2003  
 Client: Kouga Municipality  
 Name of Project: St Francis Bay Bulk Water Supply (16 km) Pipeline  
 Project Description: Environmental Scoping Study  
 Job Title and Duties: Project Manager  
 Value of Project: ± R 60,000

Location: Matatiele to Mount Frere, Eastern Cape, South Africa  
 Project duration & year: 4 months, 2003  
 Client: Eastern Cape Department of Roads and Public Works  
 Name of Project: Environmental Assessment and Environmental Management Plan, Trunk Road 08015 (± 22 km), between Mount Frere and the R 56 between Matatiele and Mount Fletcher.  
 Project Description: Environmental Scoping Study and Environmental Management Plan  
 Job Title and Duties: Project Manager, Environmental Assessment Practitioner  
 Value of Project: ± R 50,000

Location: Port Elizabeth, Eastern Cape  
 Project duration & year: 2014  
 Client: Airports Company South Africa  
 Name of Project: Port Elizabeth Airport Runway End Safety Area and Strip Compliance  
 Project Description: Environmental Assessment for the Extension of the Runway End Safety Area to comply with the recommendations of the International Civil Aviation Authority  
 Job Title and Duties: Environmental Assessment Practitioner, Project Review  
 Value of Project: R 140,000

#### **Key Experience: Environmental assessment: energy**

Location: Coega Industrial Development Zone  
 Project duration & year: November 2016 - present  
 Client: Coega Development Corporation  
 Name of Project: Coega Gas to Power Project  
 Project Description: Environmental Impact Assessment and Air Emission License application for 4500 MW Combined Cycle Gas Turbine Project, including regasification unit.  
 Job Title and Duties: Environmental Assessment Practitioner, Project Review  
 Value of Project: R 800,000

## Rob Gardiner

### Principal Environmental Scientist

#### **Key Experience: Environmental assessment: energy**

Location: Groot Winterhoek Mountains, Kirkwood, Eastern Cape, South Africa  
 Project duration & year: November 2014 – present  
 Client: Vulisango Holdings (Pty) Ltd  
 Name of Project: Inyanda – Roodepaat 150 MW Wind Energy Facility  
 Project Description: Environmental Assessment for the Inyanda-Roodplaat 150 MW Wind Energy Facility in the Groot Winterberg Mountains, Kirkwood, Eastern Cape  
 Job Title and Duties: Environmental Assessment Practitioner, Project Review  
 Value of Project: R 1,200,000

Location: Hopetown, Northern Cape, South Africa  
 Project duration & year: April 2015 – present  
 Client: Afri-Coast Energy (Pty) Ltd  
 Name of Project: Kloofsig 450 MW photovoltaic solar energy facility  
 Project Description: Environmental Assessment for the 450 MW Kloofsig photovoltaic (PV) solar energy facility, Hopetown, Northern Cape  
 Job Title and Duties: Environmental Assessment Practitioner, Project Review  
 Value of Project: R 1,000,000

Location: Humansdorp, Eastern Cape  
 Project duration & year: 2 months, 2013  
 Client: Rushmere Noach Incorporated  
 Name of Project: Banna Ba Pifhu 50 MW Wind Energy Project  
 Project Description: External review of the Environmental Assessment for the 50 MW Wind Energy Project (17 turbines, ranging from 1.2 MW to 3.2 MW)  
 Job Title and Duties: External Review  
 Value of Project: R 50,000

Location: Molteno, Eastern Cape, South Africa  
 Project duration & year: 24 months, 2015 (on going)  
 Client: Afri-Coast Energy (Pty) Ltd  
 Name of Project: Molteno 840 MW Wind Energy Facility  
 Project Description: Environmental Impact Assessment (currently in planning stages)  
 Job Title and Duties: Environmental Assessment Practitioner, Project Review  
 Value of Project: R 5,000,000 (current estimate)

Location: Port Elizabeth Eastern Cape, South Africa  
 Project duration & year: 6 months, 2015  
 Client: Afri-Coast Energy (Pty) Ltd  
 Name of Project: Hopewell Conservation Estate, 9 MW photovoltaic solar energy facility  
 Project Description: Basic Assessment  
 Job Title and Duties: Environmental Assessment Practitioner / Project Director  
 Value of Project: ±R 100,000

Location: Cradock, Eastern Cape, South Africa  
 Project duration & year: 12 months, 2012  
 Client: Af-Rom (Pty) Ltd  
 Name of Project: Dobbin 75 MW photovoltaic solar energy facility  
 Project Description: Environmental Impact assessment  
 Job Title and Duties: Environmental Assessment Practitioner / Project Manager  
 Value of Project: R 600,000

## Rob Gardiner

### Principal Environmental Scientist

#### **Key Experience: Environmental assessment: energy**

Location: Victoria West, Northern Cape, South Africa  
 Project duration & year: 12 months, 2012  
 Client: Af-Rom (Pty) Ltd  
 Name of Project: Brakpoort 75 MW photovoltaic solar energy facility  
 Project Description: Environmental Impact assessment  
 Job Title and Duties: Environmental Assessment Practitioner / Project Manager  
 Value of Project: R 600,000

Location: Uitenhage, Eastern Cape, South Africa  
 Project duration & year: 5 months, 2011  
 Client: Afri-Coast Engineers (Pty) Ltd  
 Name of Project: Ranger Wind Energy Facility  
 Project Description: Environmental Screening  
 Job Title and Duties: Environmental Assessment Practitioner / Project Manager  
 Value of Project: ± R 100,000

Location: Uitenhage, Eastern Cape, South Africa  
 Project duration & year: 1 month, 2014  
 Client: Afri-Coast Engineers (Pty) Ltd  
 Name of Project: Ranger Wind Energy Facility  
 Project Description: Preparation of an Environmental Management Plan for 3 x 1 MW wind turbines on the Ranger game farm, adjacent to the Groendal Nature Reserve  
 Job Title and Duties: Environmental Assessment Practitioner, Project Review  
 Value of Project: ± R 50,000

Location: Blue Horizon Bay, Eastern Cape, South Africa  
 Project duration & year: 1 month, 2014  
 Client: Afri-Coast Engineers (Pty) Ltd  
 Name of Project: Betshanger Wind Energy Facility  
 Project Description: Preparation of an Environmental Management Plan for 3 x 1 MW wind turbines on the farm Betshanger, Blue Horizon Bay  
 Job Title and Duties: Environmental Assessment Practitioner, Project Review  
 Value of Project: ± R 50,000

Location: Upington, Northern Cape, South Africa  
 Project duration & year: 11 months, 2009 / 2010  
 Client: Fluopro Investments (Pty) Ltd  
 Name of Project: Upington 1.5 MW photovoltaic solar energy facility  
 Project Description: Environmental Assessment  
 Job Title and Duties: Environmental Assessment Practitioner / Project Manager  
 Value of Project: ± R 100,000

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 8 months, 2012  
 Client: Orion Engineered Carbons  
 Name of Project: Orion 19.5 MW Cogeneration Plant  
 Project Description: Environmental Assessment and Air Emission License amendment, for the development of a 19.5 MW electrical power cogeneration plant  
 Job Title and Duties: Environmental Assessment Practitioner, Project Manager  
 Value of Project: ± R 180,000

## Rob Gardiner

### Principal Environmental Scientist

#### **Key Experience: Environmental assessment: energy**

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 18 months, 2009 to 2010  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: NMBM / CEF 27 MW Wind Energy Facility EIA  
 Project Description: Environmental Assessment for a 27 MW Wind Energy Facility on three potential sites within the Nelson Mandela Bay Municipal area  
 Job Title and Duties: Environmental Assessment Practitioner / Project Review  
 Value of Project: ± R 1,600,000

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 24 months, 2012 to 2013  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: 27 MW van Stadens Wind Energy Facility  
 Project Description: Environmental consulting services for the construction of the 27 MW van Stadens Wind Energy Facility  
 Job Title and Duties: Environmental Assessment Practitioner / Project Review  
 Value of Project: ± R 1,400,000

#### **Key Experience: Environmental assessment: mining & industrial**

Location: Great Dyke (Selous to Ngezi), Zimbabwe  
 Project duration & year: 2 months, 2016  
 Client: Zimplats  
 Name of Project: Expansion at the Selous Metallurgical Complex: Environmental & Social Risk Assessment and Environmental and Social Management Plan for Step 1  
 Project Description: Environmental & Social Risk Assessment  
 Job Title and Duties: Project Manager, Environmental Assessment Practitioner  
 Value of Project: ± R 150,000

Location: Bas Congo Province, Democratic Republic of Congo  
 Project duration & year: May 2013 - August 2013  
 Client: Nyumba Ya Akiba sarl  
 Name of Project: Nyumba Ya Akiba 3,000 tpd Cement Project  
 Project Description: Environmental & Social Impact Assessment  
 Job Title and Duties: Client Liaison, Environmental Assessment Practitioner  
 Value of Project: ± USD 350,000

Location: Coega Industrial Development Zone, Eastern Cape, South Africa  
 Project duration & year: 12 months, 2012/13  
 Client: Afrisam (Pty) Ltd  
 Name of Project: Coega 3,000 tpd Cementitious Material Grinding & Blending Plant  
 Project Description: Environmental Impact Assessment  
 Job Title and Duties: Project Manager, Environmental Assessment Practitioner  
 Value of Project: ± R 700,000

Location: Great Dyke (Selous to Ngezi), Zimbabwe  
 Project duration & year: 12 months, 2012  
 Client: Zimplats  
 Name of Project: Phase 3 Expansion: Consolidated Environmental Impact Assessment  
 Project Description: Environmental & Social Impact Assessment  
 Job Title and Duties: Project Manager  
 Value of Project: ± R 2,500,000



## Rob Gardiner

### Principal Environmental Scientist

#### Key Experience:

#### Environmental assessment: mining & industrial

Location: Selous Metallurgical Complex, Zimbabwe  
 Project duration & year: 3 months, 2012  
 Client: Zimplats  
 Name of Project: Sulfur Dioxide Abatement Installation at Selous Metallurgical Complex (SMC)  
 Project Description: Environmental & Social Impact assessment  
 Job Title and Duties: Environmental Assessment Practitioner  
 Value of Project: ± R 1,500,000

Location: Coega Industrial Development Zone, Eastern Cape, South Africa  
 Project duration & year: 18 months, 2006/2007  
 Client: Straits Chemicals  
 Name of Project: Straits Chemicals Chlor-Alkali Plant EIA  
 Project Description: Environmental Impact Assessment  
 Job Title and Duties: Project Manager, Environmental Assessment Practitioner  
 Value of Project: ± R 1,000,000

Location: Hankey, Eastern Cape, South Africa  
 Project duration & year: 4 months, 2009  
 Client: Nkari Mining  
 Name of Project: Prospecting EMP  
 Project Description: Environmental Management Programme  
 Job Title and Duties: Project Director / Environmental Assessment Practitioner  
 Value of Project: ± R 100,000

Location: Paterson, Eastern Cape, South Africa  
 Project duration & year: 6 months, 2010  
 Client: Vulani Coronation Mining  
 Name of Project: Prospecting permit application for silica mine  
 Project Description: Environmental Management Plan for Prospecting Right  
 Job Title and Duties: Project Director  
 Value of Project: ± R 100,000

#### Key Experience:

#### Environmental assessment: housing / change in land use

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 9 months, 2014  
 Client: Nelson Mandela Bay Municipality  
 Name of Project: Walmer erf 1948 Housing Development  
 Project Description: Basic Assessment  
 Job Title and Duties: Environmental Assessment Practitioner, Project Review  
 Value of Project: ± R 150,000

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 2014 - present  
 Client: Nelson Mandela Bay Municipality  
 Name of Project: Walmer erf 11305 Housing Development  
 Project Description: Environmental Impact Assessment  
 Job Title and Duties: Environmental Assessment Practitioner, Project Review  
 Value of Project: ± R 1,200,000

## Rob Gardiner

### Principal Environmental Scientist

#### **Key Experience: Environmental assessment: housing / change in land use**

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 2009 – 2016  
 Client: Nelson Mandela Bay Municipality  
 Name of Project: Seaview Low Cost Housing  
 Project Description: Environmental Impact Assessment for the development of a Low Cost Housing and associated wastewater treatment works  
 Job Title and Duties: Environmental Assessment Practitioner, Project Review  
 Value of Project: ± R 470,000

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 36 months, 2012 – 2015  
 Client: Nelson Mandela Bay Municipality  
 Name of Project: Jachtylakte Integrated Human Settlement EIA  
 Project Description: Environmental Impact Assessment  
 Job Title and Duties: Environmental Assessment Practitioner, Project Review  
 Value of Project: ± R 1 000,000

Location: Motherwell, Eastern Cape, South Africa  
 Project duration & year: 36 months (2009 to 2012)  
 Client: NuWay Housing  
 Name of Project: Coega Ridge Integrated Housing Development  
 Project Description: Environmental Impact Assessment  
 Job Title and Duties: Project Director / Environmental Assessment Practitioner  
 Value of Project: ± R 1 000,000

Location: Gqebera, Walmer, Eastern Cape, South Africa  
 Project duration & year: 12 months, 2010  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: Walmer/Gqebera Low Cost Housing EIA  
 Project Description: Environmental Assessment  
 Job Title and Duties: Project Director / Environmental Assessment Practitioner  
 Value of Project: ± R 250,000

Location: Rosedale, Uitenhage, Eastern Cape, South Africa  
 Project duration & year: 9 months, 2009  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: Rosedale Low Cost Housing EIA  
 Project Description: Environmental Impact Assessment  
 Job Title and Duties: Project Director / Environmental Assessment Practitioner  
 Value of Project: ± R 200,000

Location: St Albans, Eastern Cape, South Africa  
 Project duration & year: 9 months, 2009  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: St Albans Low Cost Housing EIA  
 Project Description: Environmental Impact Assessment  
 Job Title and Duties: Project Director / Environmental Assessment Practitioner  
 Value of Project: ± R 300,000

## Rob Gardiner

### Principal Environmental Scientist

**Key Experience: Environmental assessment: housing / change in land use**

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 12 months, 2006  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: SEA of the Greater Happy Valley area  
 Project Description: Strategic Environmental Assessment  
 Job Title and Duties: Project Manager  
 Value of Project: ± R 150,000

Location: St Francis Bay, Eastern Cape, South Africa  
 Project duration & year: 9 months 2006  
 Client: Watersplash Investments (Pty) Ltd  
 Name of Project: Change in Land Use Application for Part 2 of Farm 707, Osbosch 707  
 Project Description: Environmental Scoping Study  
 Job Title and Duties: Project Manager  
 Value of Project: ± R 150,000

Location: Coega Industrial Development Zone, Eastern Cape, South Africa  
 Project duration & year: 18 months, 2005/2006  
 Client: Coega Development Corporation  
 Name of Project: Change in Land use of the Remainder of the Coega IDZ (± 7200 Hectares)  
 Project Description: Environmental Impact Assessment  
 Job Title and Duties: Project Manager, Environmental Assessment Practitioner  
 Value of Project: ± R 500,000

Location: Motherwell, Eastern Cape, South Africa  
 Project duration & year: 6 months, 2005  
 Client: Motherwell Urban Renewal Project  
 Name of Project: Motherwell Golf Course  
 Project Description: Environmental Scoping Study  
 Job Title and Duties: Project Manager, Environmental Assessment Practitioner  
 Value of Project: ± R 100,000

Location: Uitenhage, Eastern Cape, South Africa  
 Project duration & year: 8 months, 2004/2005  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: Nelson Mandela Bay Logistics Park Scoping Study  
 Project Description: Environmental Scoping Study  
 Job Title and Duties: Project Manager, Environmental Assessment Practitioner  
 Value of Project: ± R 100,000

Location: St Francis Bay, Eastern Cape, South Africa  
 Project duration & year: 9 months, 2003  
 Client: Golf Data  
 Name of Project: St Francis Golf Links EIA  
 Project Description: Environmental Impact Assessment  
 Job Title and Duties: Project Manager, Environmental Assessment Practitioner  
 Value of Project: ± R 300,000

**Key Experience: Environmental auditing & due diligence**

## Rob Gardiner

### Principal Environmental Scientist

#### **Key Experience: Environmental auditing & due diligence**

Location: Grand Cape Mount County, Republic of Liberia

Project duration & year: 1 month, 2016

Client: Aureus Mining

Name of Project: New Liberty Gold Mine

Project Description: ISO 14001 compliance audit

Job Title and Duties: Lead Auditor

Value of Project: ± R 150,000

Location: Coega Industrial Development Zone, Eastern Cape, South Africa

Project duration & year: 6 months, 2012

Client: Coega Development Corporation

Name of Project: Environmental Due Diligence study for Zones 12 of the Coega Industrial Development Zone

Project Description: Phase 1 & 2 Environmental Due Diligence Study

Job Title and Duties: Project Manager, Environmental Scientist

Value of Project: ± R 250,000

Location: Port Elizabeth, Eastern Cape, South Africa

Project duration & year: 2 months, 2014

Client: SAB Miller

Name of Project: Water Vulnerability Assessment for iBhayi Brewery, Perseverance, Port Elizabeth

Project Description: Assess vulnerability to changes in quality and availability of water supply

Job Title and Duties: Environmental Scientist

Value of Project: ± R 150,000

Location: Port Elizabeth, Eastern Cape, South Africa

Project duration & year: 2 months, 2009

Client: SAB Miller

Name of Project: Water Vulnerability Assessment for iBhayi Brewery, Perseverance, Port Elizabeth

Project Description: Assess vulnerability to changes in quality and availability of water supply

Job Title and Duties: Environmental Scientist

Value of Project: ± R 100,000

Location: Port Elizabeth, Eastern Cape, South Africa

Project duration & year: 2 months, 2009

Client: Coca Cola Fortune (Pty) Ltd

Name of Project: Water Vulnerability Assessment for Lakeside Plant, North End, Port Elizabeth

Project Description: Assess vulnerability to changes in quality and availability of water supply

Job Title and Duties: Environmental Scientist

Value of Project: ± R 100,000

Location: Port Elizabeth, Eastern Cape, South Africa

Project duration & year: 2 months, 2010

Client: Environ, on behalf of Evonik

Name of Project: Project Casablanca – Phase I Environmental Due Diligence of Algorax

Project Description: Phase 1 Environmental Due Diligence Study

Job Title and Duties: Environmental Scientist

Value of Project: ± R 150,000

## Rob Gardiner

### Principal Environmental Scientist

**Key Experience: Environmental auditing & due diligence**  
 Location: Coega Industrial Development Zone, Eastern Cape, South Africa  
 Project duration & year: 6 months, 2008  
 Client: Coega Development Corporation  
 Name of Project: Environmental Due Diligence study for Zones 6 & 7 of the Coega Industrial Development Zone  
 Project Description: Phase 1 & 2 Environmental Due Diligence Study  
 Job Title and Duties: Project Manager, Environmental Scientist  
 Value of Project: ± R 250,000

Location: Coega Industrial Development Zone, Eastern Cape, South Africa  
 Project duration & year: 6 months, 2004  
 Client: Coega Development Corporation  
 Name of Project: Environmental Due Diligence study for Zones 1, 2 and 3 of the Coega Industrial Development Zone  
 Project Description: Environmental Due Diligence Study  
 Job Title and Duties: Project Manager, Environmental Scientist  
 Value of Project: ± R 250,000

Location: Luanda, Angola  
 Project duration & year: 2 months, 2002  
 Client: BP  
 Name of Project: BP Waste Management Audits  
 Project Description: Third party waste contractor audits  
 Job Title and Duties: Lead Auditor  
 Value of Project: ± R 50,000

**Key Experience: Environmental monitoring & remediation**

Location: Paranam, Suriname  
 Project duration & year: 6 months, 2011 / 2012  
 Client: Suriname Aluminum Company, LLC  
 Name of Project: Geochemical assessment of pit lake water and sediment  
 Project Description: Water quality monitoring  
 Job Title and Duties: Environmental Scientist  
 Value of Project: R 300,000

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 2004 to present  
 Client: Nelson Mandela Bay Municipality  
 Name of Project: Landfill Monitoring  
 Project Description: Monitoring of groundwater, surface water and landfill gas at the Koedoeskloof, Arlington, KwaNobuhle, and iBhayi Landfill Sites  
 Job Title and Duties: Environmental Scientist, Project Reviewer  
 Value of Project: R 3,500,000

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 6 months, 2009  
 Client: Nelson Mandela Bay Municipality  
 Name of Project: North End Lake Water Quality Management Plan  
 Project Description: Water Quality Management Plan  
 Job Title and Duties: Project Manager, Environmental Scientist  
 Value of Project: R 150,000

## Rob Gardiner

### Principal Environmental Scientist

#### **Key Experience: Environmental monitoring & remediation**

Location: Struandale, Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 6 months, 2009  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: Decommissioning of the NMBM Gas Works  
 Project Description: Basic Assessment  
 Job Title and Duties: Project Director / Environmental Assessment Practitioner  
 Value of Project: ± R 150,000

Location: North End, Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 6 months, 2009  
 Client: Transnet Capital Projects  
 Name of Project: Decommissioning of Transnet's North End Ash Deposit  
 Project Description: Site Contamination Assessment & Basic Assessment  
 Job Title and Duties: Project Director / Environmental Assessment Practitioner  
 Value of Project: ± R 150,000

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 2 years, 2005/2007  
 Client: Confidential  
 Name of Project: Groundwater Contamination Assessment at manufacturing concern  
 Project Description: Delineation and monitoring of chlorinated hydrocarbon plume in groundwater  
 Job Title and Duties: Project Manager, Environmental Scientist  
 Value of Project: ± R 600,000

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 2 years, 2003/2004  
 Client: Client confidential  
 Name of Project: In-Situ Chemical Oxidation of Chlorinated Hydrocarbon Contamination  
 Project Description: In-situ chemical oxidation with potassium permanganate  
 Job Title and Duties: Project Manager, Environmental Scientist  
 Value of Project: ± R 500,000

Location: Port of Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 3 months, 2003  
 Client: Transnet National Port Authority  
 Name of Project: Water Quality Monitoring Programme for the Port of Port Elizabeth  
 Project Description: Development of a water quality monitoring programme  
 Job Title and Duties: Project Manager, Environmental Scientist  
 Value of Project: ± R 50,000

#### **Key Experience: Environmental assessment: waste management**

Location: Port of Port Elizabeth and Port of Ngqura, Eastern Cape, South Africa  
 Project duration & year: 12 months, 2009/2010  
 Client: Transnet National Ports Authority  
 Name of Project: Waste Management Plans for the Ports of Port Elizabeth and Ngqura  
 Project Description: Waste Management Plan  
 Job Title and Duties: Project Director  
 Value of Project: ± R 500,000

## Rob Gardiner

### Principal Environmental Scientist

#### **Key Experience: Environmental assessment: waste management**

Location: Nelson Mandela Bay Municipality, Eastern Cape, South Africa  
 Project duration & year: 24 months, 2008 to 2009  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: NMBM Waste Transfer Sites: Environmental Screening  
 Project Description: Environmental Screening / Site selection  
 Job Title and Duties: Project Director  
 Value of Project: ± R 300,000

Location: Cacadu District Municipality, Eastern Cape, South Africa  
 Project duration & year: 2 months, 2008  
 Client: Cacadu District Municipality  
 Name of Project: Cacadu District Municipality: Integrated Waste Management Plan  
 Project Description: Status Quo Assessment of Waste Management Facilities  
 Job Title and Duties: Project Manager  
 Value of Project: ± R 60,000

Location: Graaff Reinet, Eastern Cape, South Africa  
 Project duration & year: 24 months, 2007 to 2008  
 Client: Camdeboo Local Municipality  
 Name of Project: Establishment of new landfill site for Graaff Reinet  
 Project Description: Environmental Impact Assessment  
 Job Title and Duties: Project Director / Environmental Assessment Practitioner  
 Value of Project: ± R 250,000

Location: Walmer, Eastern Cape, South Africa  
 Project duration & year: 6 months, 2004  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: Walmer Qebera Landfill Site: Landfill Gas Risk Assessment  
 Project Description: Qualitative Environmental Risk Assessment  
 Job Title and Duties: Environmental Assessor  
 Value of Project: ± R 100,000

Location: iBhayi, Eastern Cape, South Africa  
 Project duration & year: 9 months, 2002  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: iBhayi Landfill Site: Application for Buffer Zone Relaxation  
 Project Description: Quantitative Environmental Risk Assessment  
 Job Title and Duties: Project Manager  
 Value of Project: ± R 150,000

#### **Key Experience: Environmental management systems**

Location: Nelson Mandela Metropolitan Municipality, Eastern Cape, South Africa  
 Project duration & year: 3 years, 2002 to 2005  
 Client: Nelson Mandela Metropolitan Municipality  
 Name of Project: Environmental Management System implementation  
 Project Description: Environmental Management System (ISO 14001 based)  
 Job Title and Duties: Project Manager, Environmental Consultant  
 Value of Project: ± R 1,200,000

## Rob Gardiner

### Principal Environmental Scientist

#### **Key Experience: Environmental management systems**

Location: Cato Ridge, KwaZulu Natal, South Africa  
 Project duration & year: 5 months, 2003  
 Client: Assmang  
 Name of Project: ISO 14001 Implementation  
 Project Description: Environmental Management System (ISO 14001 compliant)  
 Job Title and Duties: Project Review  
 Value of Project: ± R 200,000

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 9 months, 2002  
 Client: Delphi Catalyts  
 Name of Project: 14001 implementation  
 Project Description: Environmental Management System (ISO 14001 certified)  
 Job Title and Duties: Environmental Consultant  
 Value of Project: ± R 150,000

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 4 months, 2000  
 Client: PPC  
 Name of Project: PPC Grassridge Quarry: ISO 14001 implementation  
 Project Description: Environmental Management System (ISO 14001 certified)  
 Job Title and Duties: Technical advisor  
 Value of Project: ± R 50,000

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 4 months, 1999  
 Client: CSIR, Division of Textile Technology  
 Name of Project: ISO 14001 implementation  
 Project Description: Environmental Management System (ISO 14001 certified)  
 Job Title and Duties: Technical advisor  
 Value of Project: ± R 50,000

Location: Port Elizabeth, Eastern Cape, South Africa  
 Project duration & year: 9 months, 1998/1999  
 Client: Duracell Eveready  
 Name of Project: Duracell Eveready: ISO 14001 implementation  
 Project Description: Environmental Management System (ISO 14001 certified)  
 Job Title and Duties: Environmental Consultant  
 Value of Project: ± R 150,000

#### **Key Experience: External Review**

Location: Graaff-Reinet, Eastern Cape  
 Project duration & year: 4 months, 2015  
 Client: Richardt van Rensburg Inc  
 Name of Project: Irharfu Minerals, erf 1814, Graaff-Reinet  
 Project Description: Review of the Draft EIA & EMP for the mining of hard rock aggregate on erf 1814, Graaff-Reinet, adjacent to the Camdeboo National Park  
 Job Title and Duties: External reviewer  
 Value of Project: ± R 200,000



# Rob Gardiner

## Principal Environmental Scientist

### Key Experience: External Review

Location: Port Elizabeth, Eastern Cape  
Project duration & year: 1 Month, 2015  
Client: Nelson Mandela Bay Municipality  
Name of Project: Kabega Road low level bridge review  
Project Description: Review of the environmental assessment and EMP for repair works to the Kabega Road low level bridge  
Job Title and Duties: External reviewer  
Value of Project: ± R 20,000

Location: Port Elizabeth, Eastern Cape  
Project duration & year: 2 months, 2014  
Client: Chlor Alkali Holdings  
Name of Project: Cerebos Closure Liability Assessment  
Project Description: External review of mine closure costs for Cerebos' Coega River, Sundays River, Swartkops River, and Berg River saltpans.  
Job Title and Duties: External reviewer  
Value of Project: R 200,000

## Karissa Nel

### Senior Environmental Scientist



<b>Profession</b>	Senior Environmental Scientist
<b>Education</b>	MEM (Environmental Management), UFS, 2007 BSc (Hons) (Zoology), UFS, 2005 BSc (Zoology, Microbiology), UFS, 2004
<b>Registrations/ Affiliations</b>	Certified Environmental Assessment Practitioner (EAP(SA)) Member, International Association of Impact Assessors (IAIA(SA))
<b>Awards</b>	Bloemwater Prize for Best Magister Student in Environmental Management at UFS

#### Specialisation

**Environmental Impact and Basic Assessments; Environmental Management Plans; Environmental Monitoring, Environmental Auditing, Environmental Licensing.**

#### Expertise

Karissa Nel has been involved in Environmental projects for the past 10 years. Her expertise includes:

- Basic Assessments (BA);
- Environmental Impact Assessments (EIA);
- Wetland Screening and Impact Assessments;
- Environmental Management Plans/ Programmes (EMPr);
- Environmental Auditing;
- Public Participation/ Stakeholder Engagement;
- Water Quality Monitoring;
- Environmental Licensing (Air Emission, Water Use, Waste, etc.); and
- Geographic Information Systems (using ArcGIS 10).

#### Employment

<b>2009 - present</b>	SRK Consulting (Pty) Ltd, Environmental Scientist, Port Elizabeth
<b>2005 - 2009</b>	MDA Consulting, Environmental Scientist
<b>2005</b>	University of the Free State, Research Assistant

#### Languages

Afrikaans – read, write, speak  
English – read, write, speak

## Karissa Nel

### Senior Environmental Scientist

#### **Key Experience: Environmental Impact Assessments**

Location:	Nelson Mandela Bay, Eastern Cape
Project duration & year:	2011 - present
Client:	Nelson Mandela Bay Municipality
Name of Project:	Jachtvlakte Precinct Sustainable Human Settlement Plan
Project Description:	EIA for the Mixed-use housing, commercial and industrial development at Jachtvlakte, Nelson Mandela Bay
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination; compilation of scoping and EIA reports; facilitation of public participation process.
Value of Project:	n/a
Location:	Nelson Mandela Bay, Eastern Cape
Project duration & year:	2012 - present
Client:	Nelson Mandela Bay Municipality
Name of Project:	Witteklip Wastewater Treatment Works
Project Description:	EIA for the proposed Wastewater Treatment Works at Witteklip, Nelson Mandela Bay
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination; compilation of scoping and EIA reports; facilitation of public participation process.
Value of Project:	n/a
Location:	Nelson Mandela Bay, Eastern Cape
Project duration & year:	2010 - 2012
Client:	Nelson Mandela Bay Municipality
Name of Project:	Realignment of the 132 kV powerline from Marconi Street to the Tembani line
Project Description:	EIA for the realignment of an existing powerline and additional of a new 132 kV powerline, Nelson Mandela Bay
Job Title and Duties:	Liaison with client and environmental authorities; assisting with project co-ordination; compilation of scoping and EIA reports; facilitation of public participation process.
Value of Project:	n/a
Location:	Uitenhage, Eastern Cape
Project duration & year:	2011
Client:	Nelson Mandela Bay Municipality
Name of Project:	Mixed-use housing development at KwaNobuhle Extension 11, Uitenhage
Project Description:	EIA for the Mixed-use housing development at KwaNobuhle Extension 11, Uitenhage
Job Title and Duties:	Liaison with client and environmental authorities; assisting with project co-ordination; compilation of scoping and EIA reports; co-author of terrestrial ecological specialist study; facilitation of public participation process.
Value of Project:	n/a
Location:	Bloemfontein
Project duration & year:	2006
Client:	Confidential
Name of Project:	Subdivision of the Farm Morgenzon, Bloemfontein, Free State Province.
Project Description:	EIA for the subdivision of a farm
Job Title and Duties:	Liaison with client and environmental authorities; assisting with project co-ordination; compilation of scoping, EIA and EMP reports; facilitation of public participation process.
Value of Project:	n/a

## Karissa Nel

### Senior Environmental Scientist

#### **Key Experience: Environmental Impact Assessments**

Location: Winburg  
 Project duration & year: 2008 - 2009  
 Client: Confidential  
 Name of Project: Fuel filling station on both sides of the N1 National Road on the Farm Harmonia 867, Winburg, Free State Province.  
 Project Description: EIA for the construction of a fuel filling station  
 Job Title and Duties: Liaison with client and environmental authorities; assisting with project co-ordination; compilation of scoping, EIA and EMP reports; facilitation of public participation process.  
 Value of Project: n/a

Location: Colesberg  
 Project duration & year: 2007  
 Client: Confidential  
 Name of Project: Fuel filling station in Sluiters road in Colesberg, Northern Cape Province.  
 Project Description: EIA for the construction of a fuel filling station  
 Job Title and Duties: Liaison with client and environmental authorities; assisting with project co-ordination; compilation of scoping, EIA and EMP reports; facilitation of public participation process.  
 Value of Project: n/a

Location: Colesberg  
 Project duration & year: 2006 – 2007  
 Client: Confidential  
 Name of Project: Township establishment at Kuyasa (Colesberg), Northern Cape Province.  
 Project Description: EIA for township establishment  
 Job Title and Duties: Liaison with client and environmental authorities; assisting with project co-ordination; compilation of scoping, EIA and EMP reports; facilitation of public participation process.  
 Value of Project: n/a

Location: Bloemfontein  
 Project duration & year: 2006 – 2009  
 Client: Confidential  
 Name of Project: Township establishment on the Farm Bayswater 2865, Bloemfontein, Free State Province.  
 Project Description: EIA for town development in a sensitive area  
 Job Title and Duties: Liaison with client and environmental authorities; assisting with project co-ordination; compilation of scoping and EMP reports; facilitation of public participation process.  
 Value of Project: n/a

Location: Bloemfontein  
 Project duration & year: 2007 – 2008  
 Client: Confidential  
 Name of Project: Township establishment on Portions of the Farms Cecilia 2352, Kwaggafontein 2300 and Bloemfontein 654, Bloemfontein, Free State Province (known as the Cecilia development).  
 Project Description: EIA for a large town development  
 Job Title and Duties: Liaison with client and environmental authorities; assisting with project co-ordination; compilation of scoping, EIA and EMP reports; facilitation of public participation process.  
 Value of Project: n/a

## Karissa Nel

### Senior Environmental Scientist

#### **Key Experience: Environmental Impact Assessments**

Location:	Ficksburg
Project duration & year:	2006 – 2007
Client:	Confidential
Name of Project:	Stafford Hill Golf and Polo Estate, Ficksburg, Free State Province.
Project Description:	EIA for golf and polo estate
Job Title and Duties:	Liaison with client and environmental authorities; assisting with project co-ordination; compilation of scoping, EIA and EMP reports; facilitation of public participation process.
Value of Project:	n/a
Location:	Christiana
Project duration & year:	2007 – 2009
Client:	Confidential
Name of Project:	Grootrivier Golf Estate on the Vaal River, Christiana, Free State Province.
Project Description:	EIA for a golf estate
Job Title and Duties:	Liaison with client and environmental authorities; assisting with project co-ordination; compilation of scoping, EIA and EMP reports; facilitation of public participation process.
Value of Project:	n/a
Location:	Lindley
Project duration & year:	2007
Client:	Confidential
Name of Project:	Enlargement of the off-channel raw water storage dam on the Remainder of the Farm Brandhoek no. 20, Lindley District, Free State Province.
Project Description:	Confidential
Job Title and Duties:	Liaison with client and environmental authorities; assisting with project co-ordination; compilation of scoping, EIA and EMP reports; facilitation of public participation process.
Value of Project:	n/a
Location:	Jagersfontein tot Fauresmith
Project duration & year:	2006
Client:	Confidential
Name of Project:	Water pipeline development between Jagersfontein & Fauresmith, Free State Province.
Project Description:	Scoping for a water pipeline and reservoir
Job Title and Duties:	Liaison with client and environmental authorities; assisting with project co-ordination; compilation of scoping and EMP reports; facilitation of public participation process.
Value of Project:	n/a
Location:	Bloemfontein
Project duration & year:	2007 – 2008
Client:	Confidential
Name of Project:	132 kV overhead power line, 132 kV cable, distribution centre and switching station in the Fichardtpark and Willows area in Bloemfontein, Free State Province.
Project Description:	EIA for overhead power line and cable, distribution centre and switching station.
Job Title and Duties:	Liaison with client and environmental authorities; assisting with project co-ordination; compilation of scoping, EIA and EMP reports; facilitation of public participation process.
Value of Project:	n/a

# Karissa Nel

## Senior Environmental Scientist

### Key Experience: Environmental Impact Assessments

Location:	Sterkspruit, Eastern Cape Province.
Project duration & year:	2008 – 2009
Client:	Confidential
Name of Project:	Proposed construction of a new solid waste site in Sterkspruit
Project Description:	EIA for construction of a new solid waste site.
Job Title and Duties:	Liaison with client and environmental authorities; assisting with project co-ordination; compilation of scoping, EIA and EMP reports; facilitation of public participation process.
Value of Project:	n/a
Location:	Colesberg, Northern Cape Province
Project duration & year:	2007 – 2008
Client:	Confidential
Name of Project:	Upgrading of Colesberg Wastewater Treatment Works
Project Description:	EIA for Upgrading of Wastewater Treatment Works.
Job Title and Duties:	Liaison with client and environmental authorities; assisting with project co-ordination; compilation of scoping, EIA and EMP reports; facilitation of public participation process.
Value of Project:	n/a

## Karissa Nel

### Senior Environmental Scientist

#### Key Experience:      **Basic Assessments**

Location: Mt Frere, Eastern Cape Province  
 Project duration & year: 2016 - Ongoing  
 Client: Umzimvubu Investment Group  
 Name of Project: Mt Frere Filling Station & Truck Stop, Eastern Cape Province  
 Project Description: Basic Assessment process for the Mt Frere Filling Station & Truck Stop, Eastern Cape Province  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; review of Basic Assessment Report and EMPr and responding to public comments.  
 Value of Project: n/a

Location: Nelson Mandela Bay, Eastern Cape Province  
 Project duration & year: 2016 - Ongoing  
 Client: G5 Properties  
 Name of Project: Rezoning of Erf 4603, Despatch, Nelson Mandela Bay Municipality  
 Project Description: Basic Assessment process and Water Use License Application for the rezoning and clearing of Erf 4603 for industrial purposes, Despatch, Nelson Mandela Bay Municipality  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; review of Basic Assessment Report and EMPr and responding to public comments.  
 Value of Project: n/a

Location: Chatty, Nelson Mandela Bay, Eastern Cape Province  
 Project duration & year: 2016 - Ongoing  
 Client: Nelson Mandela Bay Municipality  
 Name of Project: Chatty Bulk Stormwater Infrastructure, Port Elizabeth  
 Project Description: Basic Assessment process and Water Use License Application for the installation of Bulk Stormwater Infrastructure at Chatty, Port Elizabeth  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; review of Basic Assessment Report and EMPr and responding to public comments.  
 Value of Project: n/a

Location: Seaview & Greenbushes, Nelson Mandela Bay, Eastern Cape Province  
 Project duration & year: 2015 - Ongoing  
 Client: Nelson Mandela Bay Municipality  
 Name of Project: Seaview and Greenbushes Bulk Water Infrastructure Expansion, Port Elizabeth  
 Project Description: Basic Assessment process and Water Use License Application for Seaview and Greenbushes Bulk Water Infrastructure Expansion, Port Elizabeth  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; review of Basic Assessment Report and EMPr and responding to public comments.  
 Value of Project: n/a

Location: Walmer, Nelson Mandela Bay, Eastern Cape Province  
 Project duration & year: 2015 - ongoing  
 Client: Nelson Mandela Bay Municipality  
 Name of Project: Walmer 132 kV Powerline, Port Elizabeth  
 Project Description: Basic Assessment process and Water Use License Application for the installation of a 132 kV overhead powerline from the Lorraine Substation to the 17<sup>th</sup> Avenue Substation  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; review of Basic Assessment Report and EMPr and responding to public comments.

## Karissa Nel

### Senior Environmental Scientist

#### Key Experience:      **Basic Assessments**

Location: Louterwater, Eastern Cape Province  
 Project duration & year: 2016 - Ongoing  
 Client: Granor Passi Landkloof  
 Name of Project: Proposed Effluent Ponds at Granor Passi, Louterwater, Eastern Cape Province  
 Project Description: Basic Assessment and Water Use License Application for Effluent Ponds at Granor Passi, Louterwater  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; review of Basic Assessment Report, EMPr and Water Use License Application.  
 Value of Project: n/a

Location: Port Elizabeth, Eastern Cape  
 Project duration & year: 2014 - 2016  
 Client: MGC Express  
 Name of Project: Marine Drive Apartment Development (Erf 20), Port Elizabeth  
 Project Description: Basic Assessment process for a the development of an Apartment Building at Erf 20, Port Elizabeth  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; review of Basic Assessment Report, EMPr and appeal responses.  
 Value of Project: n/a

Location: Kenton-on-Sea, Eastern Cape Province  
 Project duration & year: 2015  
 Client: Confidential  
 Name of Project: Filling Station at Kenton-on-Sea  
 Project Description: Basic Assessment process for the development of a filling station at the entrance to Kenton-on-Sea  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; compilation of Basic Assessment Report, EMPr and appeal responses.  
 Value of Project: n/a

Location: Humansdorp, Eastern Cape Province  
 Project duration & year: 2015  
 Client: Wittekleibosch Dairy Trust  
 Name of Project: Wittekleibosch Milking Parlour, Humansdorp, Eastern Cape Province  
 Project Description: Basic Assessment and Water Use License Application for a milking parlour near Humansdorp in the Eastern Cape Province  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; review of Basic Assessment Report, EMPr and Water Use License Application.  
 Value of Project: n/a

Location: Addo, Eastern Cape Province  
 Project duration & year: 2014 - 2015  
 Client: Sundays River Vallay Local Municipality  
 Name of Project: Langbos Bulk Infrastructure, Addo, Eastern Cape Province  
 Project Description: Basic Assessment and Water Use License Application for the installation of bulk water and sewer infrastructure for Langbos, near Addo in the Eastern Cape Province  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; compilation of Basic Assessment report and Water Use License Application.  
 Value of Project: n/a



## Karissa Nel

### Senior Environmental Scientist

#### Key Experience:      **Basic Assessments**

Location:	Nelson Mandela Bay, Eastern Cape
Project duration & year:	2011 – 2012
Client:	Nelson Mandela Bay Municipality
Name of Project:	Revetments along the Swartkops River at Redhouse
Project Description:	Basic Assessment for the installation of stormwater management structures along the portion of the Swartkops River
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination; compilation of Basic Assessment report; facilitation of public participation process.
Value of Project:	n/a
Location:	Middelburg, Eastern Cape
Project duration & year:	2009 – 2010
Client:	SANRAL
Name of Project:	Upgrade of the National Road 10 Section 4 from Tafelberg to Middelburg South Interchange
Project Description:	Basic Assessment for the upgrade of the National Road 10 Section 4 from Tafelberg to Middelburg South Interchange
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination; compilation of Basic Assessment report; facilitation of public participation process.
Value of Project:	n/a
Location:	Coega to Colchester, Eastern Cape
Project duration & year:	2009 - 2010
Client:	SANRAL
Name of Project:	Upgrade and Rehabilitation of the National Road 2 Section 11, Coega to Colchester, Eastern Cape
Project Description:	Basic Assessment for the upgrading of a road
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination; compilation of Basic Assessment report; facilitation of public participation process.
Value of Project:	n/a
Location:	Graaff-Reinet, Eastern Cape
Project duration & year:	2009 - 2010
Client:	Confidential
Name of Project:	Rezoning of erven in Graaff-Reinet for industrial purposes
Project Description:	Basic Assessment for the rezoning of erven
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination; compilation of Basic Assessment report; facilitation of public participation process.
Value of Project:	n/a
Location:	Kleinpoort, Eastern Cape
Project duration & year:	2009
Client:	Confidential
Name of Project:	Establishment of a cemetery in Kleinpoort
Project Description:	Basic Assessment for the establishment of a cemetery
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination; compilation of Basic Assessment report; facilitation of public participation process.
Value of Project:	n/a

## Karissa Nel

### Senior Environmental Scientist

#### **Key Experience:      Basic Assessments**

**Location:** Bloemfontein, Free State Province  
**Project duration & year:** 2007  
**Client:** Confidential  
**Name of Project:** Hotel, residential, business and office development on the Remainder of Plot 28, Rayton Small Holdings and Subdivision 2 of the Farm Rayton 431, Bloemfontein  
**Project Description:** Basic Assessment for a hotel, residential, business and office development  
**Job Title and Duties:** Liaison with client and environmental authorities; assisting with project co-ordination; compilation of Basic Assessment report; facilitation of public participation process  
**Value of Project:** n/a

**Location:** Clarens, Free State Province  
**Project duration & year:** 2006 – 2008  
**Client:** Confidential  
**Name of Project:** Leisure residential development on the Farm Welgelegen, Clarens  
**Project Description:** Basic Assessment for the development of 15 leisure residential units.  
**Job Title and Duties:** Liaison with client and environmental authorities; assisting with project co-ordination; compilation of Basic Assessment report; facilitation of public participation process.  
**Value of Project:** n/a

**Location:** Kuruman/ Vryburg, North West Province  
**Project duration & year:** 2008  
**Client:** Confidential  
**Name of Project:** Upgrading of the road between Kuruman van Vryburg  
**Project Description:** Basic Assessment for upgrading of a road.  
**Job Title and Duties:** Liaison with client and environmental authorities; assisting with project co-ordination; compilation of Basic Assessment report; facilitation of public participation process.  
**Value of Project:** n/a

## Karissa Nel

### Senior Environmental Scientist

#### **Key Experience: Atmospheric Emission License Applications**

**Location:** Nelson Mandela Bay, Eastern Cape  
**Project duration & year:** 2016 - present  
**Client:** Transnet Port Terminals  
**Name of Project:** Manganese Ore Berth: Conversion of the Provisional AEL to Final AEL  
**Project Description:** Application for the conversion of the Provisional Atmospheric Emission License (AEL) to a Final AEL as well as an AEL Application for new works at the Manganese Ore Berth at the Port Elizabeth Port, Nelson Mandela Bay  
**Job Title and Duties:** Liaison with client and environmental authorities; project co-ordination; review of reports  
**Value of Project:** R 100,000

**Location:** Queenstown, Middleburg & Grahamstown, Eastern Cape  
**Project duration & year:** 2016 - present  
**Client:** Department of Rural Development and Agrarian Reform  
**Name of Project:** Atmospheric Emission License (AEL) Applications for incinerators at Veterinary Laboratories in Queenstown, Middleburg & Grahamstown  
**Project Description:** AEL Applications, including a Section 22A process, for incinerators at Veterinary Laboratories in Queenstown, Middleburg & Grahamstown  
**Job Title and Duties:** Liaison with client and environmental authorities; project co-ordination; review of reports  
**Value of Project:** n/a

**Location:** Nelson Mandela Bay, Eastern Cape  
**Project duration & year:** 2010 - 2011  
**Client:** Transnet Port Terminals  
**Name of Project:** Manganese Ore Berth AEL  
**Project Description:** Atmospheric Emission License Application for the Manganese Ore Berth at the Port Elizabeth Port, Nelson Mandela Bay  
**Job Title and Duties:** Liaison with client and environmental authorities; project co-ordination; compilation of the Atmospheric Emission License Application Form  
**Value of Project:** n/a

**Location:** Nelson Mandela Bay, Eastern Cape  
**Project duration & year:** 2010 - 2011  
**Client:** EC Biomass  
**Name of Project:** EC Biomass Fuel Pellets - Biomass drying and pelletising plant  
**Project Description:** Atmospheric Emission License Application for a biomass drying and pelletising plant in the Coega IDZ, Nelson Mandela Bay  
**Job Title and Duties:** Liaison with client and environmental authorities; project co-ordination; compilation of the Atmospheric Emission License Application Form  
**Value of Project:** n/a

## Karissa Nel

### Senior Environmental Scientist

#### **Key Experience: Environmental Management Plans / Programmes (to DMR or as a separate document – not associated with a BA or EIA)**

Location:	Middelburg, Eastern Cape
Project duration & year:	2010
Client:	SANRAL
Name of Project:	Upgrading of the National Road 10 Section 4 from Tafelberg to Middelburg South Interchange
Project Description:	EMPr for borrow pits for the upgrading of the National Road 10 Section 4 from Tafelberg to Middelburg South Interchange
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination; compilation of Construction Environmental Management Programme.
Value of Project:	n/a
Location:	Colchester, Eastern Cape
Project duration & year:	2009 - 2010
Client:	SANRAL
Name of Project:	Upgrading and Rehabilitation of the National Road 2 Section 11 from Coega to Colchester
Project Description:	EMPr for borrow pits for the upgrading and rehabilitation of the National Road 2 Section 11 from Coega to Colchester
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination; compilation of Construction Environmental Management Programme.
Value of Project:	n/a
Location:	Port Elizabeth, Eastern Cape
Project duration & year:	2010
Client:	Nelson Mandela Bay Municipality
Name of Project:	Construction of Romany Road and associated infrastructure, Port Elizabeth
Project Description:	Construction Environmental Management Plan for the construction of a road and associated infrastructure
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination; compilation of Construction Environmental Management Plan.
Value of Project:	n/a
Location:	Ladybrand
Project duration & year:	2007
Client:	Confidential
Name of Project:	EMPR for borrow pits – Ladybrand, Free State Province
Project Description:	EMPR for borrow pits
Job Title and Duties:	Liaison with client and mining authorities; compilation of Environmental Management Plan
Value of Project:	n/a

## Karissa Nel

### Senior Environmental Scientist

#### **Key Experience: Environmental Auditing**

Location: Port Elizabeth, Eastern Cape  
 Project duration & year: 2017 - Ongoing  
 Client: MGC Express  
 Name of Project: Marine Drive Apartment Development (Erf 20), Port Elizabeth  
 Project Description: Environmental Auditing for a the development of an Apartment Building at Erf 20, Port Elizabeth  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; review of Audit Reports.  
 Value of Project: n/a

Location: Humansdorp, Eastern Cape Province  
 Project duration & year: 2016 - Ongoing  
 Client: Wittekleibosch Dairy Trust  
 Name of Project: Wittekleibosch Milking Parlour, Humansdorp, Eastern Cape Province  
 Project Description: Environmental Auditing for a milking parlour near Humansdorp in the Eastern Cape Province  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; review of Audit Reports.  
 Value of Project: n/a

Location: Port Elizabeth, Eastern Cape  
 Project duration & year: 2011 - Ongoing  
 Client: Nelson Mandela Bay Municipality  
 Name of Project: Monitoring of the Construction of Nooitgedagt-Coela Low Level Supply Scheme Pipeline, Port Elizabeth, Eastern Cape  
 Project Description: Monitoring of the construction of a pipeline from the existing Nooitgedagt WTW to Olifantskop Reservoir (approx. 20 km)  
 Job Title and Duties: Liaison with client, contractor and environmental authorities; compilation of ECO reports.  
 Value of Project: n/a

Location: Port Elizabeth, Eastern Cape  
 Project duration & year: 2010  
 Client: Nelson Mandela Bay Municipality  
 Name of Project: Monitoring of the Construction of Romany Road and associated infrastructure, Port Elizabeth, Eastern Cape  
 Project Description: Monitoring of the construction of a road and associated infrastructure  
 Job Title and Duties: Liaison with client, contractor and environmental authorities; compilation of ECO reports.  
 Value of Project: n/a

Location: Port Elizabeth, Eastern Cape  
 Project duration & year: 2010 - Ongoing  
 Client: Confidential  
 Name of Project: Monitoring of the construction of the new FNB Building, Newton Park, Port Elizabeth  
 Project Description: Monitoring of the construction activities at the new FNB Building, Newton Park, Port Elizabeth  
 Job Title and Duties: Liaison with client, contractor and environmental authorities; compilation of ECO reports.  
 Value of Project: n/a

# Karissa Nel

## Senior Environmental Scientist

### Key Experience: Environmental Auditing

Location: Bloemfontein  
Project duration & year: 2008  
Client: Confidential  
Name of Project: Monitoring of environmental compliance at construction phase of Noordstad power line construction, Bloemfontein, Free State Province.  
Project Description: Monitoring of environmental compliance  
Job Title and Duties: Liaison with client and contractor; compilation of ECO report.  
Value of Project: n/a

## Karissa Nel

### Senior Environmental Scientist

#### **Key Experience: Water Use License Applications**

Location: Louterwater, Eastern Cape Province  
 Project duration & year: 2016 - Ongoing  
 Client: Granor Passi Landkloof  
 Name of Project: Proposed Effluent Ponds at Granor Passi, Louterwater, Eastern Cape Province  
 Project Description: Water Use License Application for Effluent Ponds at Granor Passi, Louterwater  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; compilation of the Water Use License Application document.  
 Value of Project: n/a

Location: Nelson Mandela Bay, Eastern Cape Province  
 Project duration & year: 2016 - Ongoing  
 Client: G5 Properties  
 Name of Project: Rezoning of Erf 4603, Despatch, Nelson Mandela Bay Municipality  
 Project Description: Water Use License Application for the rezoning and clearing of Erf 4603 for industrial purposes, Despatch, Nelson Mandela Bay Municipality  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; compilation of the Water Use License Application document.  
 Value of Project: n/a

Location: Chatty, Nelson Mandela Bay, Eastern Cape Province  
 Project duration & year: 2016 - Ongoing  
 Client: Nelson Mandela Bay Municipality  
 Name of Project: Chatty Bulk Stormwater Infrastructure, Port Elizabeth  
 Project Description: Water Use License Application for the installation of Bulk Stormwater Infrastructure at Chatty, Port Elizabeth  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; compilation of the Water Use License Application document.  
 Value of Project: n/a

Location: Nelson Mandela Bay, Eastern Cape  
 Project duration & year: 2015  
 Client: Nelson Mandela Bay Municipality  
 Name of Project: Jachtlakte Precinct Sustainable Human Settlement Plan  
 Project Description: Water Use License Application for Phase 1 of the Mixed-use housing, commercial and industrial development at Jachtlakte, Nelson Mandela Bay  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; compilation of the Water Use License Application document.  
 Value of Project: n/a

Location: Humansdorp, Eastern Cape Province  
 Project duration & year: 2016 - Ongoing  
 Client: Wittekleibosch Dairy Trust  
 Name of Project: Wittekleibosch Milking Parlour, Humansdorp, Eastern Cape Province  
 Project Description: Water Use License Application for a milking parlour near Humansdorp in the Eastern Cape Province  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; compilation of the Water Use License Application document.  
 Value of Project: n/a

## Karissa Nel

### Senior Environmental Scientist

#### **Key Experience:      Water Use License Applications**

Location:	Addo, Eastern Cape Province
Project duration & year:	2014 - 2015
Client:	Sundays River Vallay Local Municipality
Name of Project:	Langbos Bulk Infrastructure, Addo, Eastern Cape Province
Project Description:	Water Use License Application for the installation of bulk water and sewer infrastructure for Langbos, near Addo in the Eastern Cape Province
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination & management; compilation of the Water Use License Application document.
Value of Project:	n/a
Location:	Nelson Mandela Bay, Eastern Cape
Project duration & year:	2013 - 2015
Client:	Nelson Mandela Bay Municipality
Name of Project:	Witteklip Wastewater Treatment Works
Project Description:	Water Use License Application for the proposed Wastewater Treatment Works at Witteklip, Nelson Mandela Bay
Job Title and Duties:	Project management; liaison with client and relevant authorities; compilation of the Water Use License Application Forms
Value of Project:	n/a
Location:	Uitenhage, Eastern Cape
Project duration & year:	2013 - 2015
Client:	Nelson Mandela Bay Municipality
Name of Project:	KwaNobuhle Extension 11 Mixed-use Housing Development
Project Description:	Water Use License Application for a proposed mixed-use housing development at KwaNobuhle Extension 11, Nelson Mandela Bay
Job Title and Duties:	Project coordinator; liaison with client and relevant authorities; compilation of the Water Use License Application Forms
Value of Project:	n/a
Location:	Nelson Mandela Bay, Eastern Cape
Project duration & year:	2012 - 2013
Client:	Nelson Mandela Bay Municipality
Name of Project:	Khayamnandi Extension Housing Development
Project Description:	Water Use License Application for a proposed housing development at Khayamnandi, Nelson Mandela Bay
Job Title and Duties:	Project coordinator; liaison with client and relevant authorities; compilation of the Water Use License Application Forms
Value of Project:	n/a



## Karissa Nel

### Senior Environmental Scientist

#### **Key Experience: Waste License Applications / Integrated Waste License Applications**

Location: Louterwater, Eastern Cape Province  
 Project duration & year: 2016 - Ongoing  
 Client: Granor Passi Landkloof  
 Name of Project: Proposed Effluent Ponds at Granor Passi, Louterwater, Eastern Cape Province  
 Project Description: Integrated Environmental Authorisation and Waste License Application for Effluent Ponds at Granor Passi, Louterwater  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; compilation of the Water Use License Application document.  
 Value of Project: n/a

Location: Humansdorp, Eastern Cape Province  
 Project duration & year: 2015  
 Client: Confidential  
 Name of Project: Wittekleibosch Milking Parlour, Humansdorp, Eastern Cape Province  
 Project Description: Integrated Environmental Authorisation and Waste License Application for a milking parlour near Humansdorp in the Eastern Cape Province  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; compilation of the of Basic Assessment report, EMPr and Water Use License Application.  
 Value of Project: n/a

Location: Nelson Mandela Bay, Eastern Cape  
 Project duration & year: 2012 - present  
 Client: Confidential  
 Name of Project: Witteklip Wastewater Treatment Works  
 Project Description: Waste License Application for the proposed Wastewater Treatment Works at Witteklip, Nelson Mandela Bay  
 Job Title and Duties: Project management; liaison with client and environmental authorities; compilation of the Waste License Application Form  
 Value of Project: n/a

Location: Nelson Mandela Bay, Eastern Cape  
 Project duration & year: 2012 - 2013  
 Client: Confidential  
 Name of Project: Newco Tyre Recycling Plant in Markman  
 Project Description: Waste License Application for the proposed Tyre Recycling Plant in Markman, Nelson Mandela Bay  
 Job Title and Duties: Project management; liaison with client and environmental authorities; compilation of the Waste License Application Form  
 Value of Project: n/a

## Karissa Nel

### Senior Environmental Scientist

#### **Key Experience: Wetland / Aquatic Specialist Assessments**

Location:	Nelson Mandela Bay, Eastern Cape
Project duration & year:	2016
Client:	Nelson Mandela Bay Municipality
Name of Project:	Coega Kop Well Field, Port Elizabeth, Nelson Mandela Bay Municipality
Project Description:	Aquatic Impact Assessment for the Coega Kop Well Field, Port Elizabeth, Nelson Mandela Bay Municipality
Job Title and Duties:	Liaison with client; project co-ordination & management; site work and analysis, compilation of Aquatic Impact Assessment Report.
Value of Project:	n/a
Location:	Nelson Mandela Bay, Eastern Cape
Project duration & year:	2016 - ongoing
Client:	Nelson Mandela Bay Municipality
Name of Project:	Bloemendal Arterial Extension, Port Elizabeth
Project Description:	Aquatic Impact Assessment for the proposed Extension of the Bloemendal Arterial, Port Elizabeth
Job Title and Duties:	Liaison with client; project co-ordination & management; site work and analysis, compilation of Aquatic Impact Assessment Report.
Value of Project:	n/a
Location:	Port Elizabeth, Eastern Cape
Project duration & year:	2015
Client:	Confidential
Name of Project:	Proposed Housing Development on Portions 25 & 45 of Farm Cragga Kamma No. 23, Port Elizabeth
Project Description:	Wetland Impact Assessment for the proposed Housing Development on Portions 25 & 45 of Farm Cragga Kamma No. 23, Port Elizabeth
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination & management; site work and analysis, compilation of Wetland Impact Assessment Report.
Value of Project:	n/a
Location:	Kenton-on-Sea, Eastern Cape
Project duration & year:	2015
Client:	Confidential
Name of Project:	Proposed Fuel Service Station at Kenton-on-Sea
Project Description:	Wetland Screening Study for the proposed Fuel Service Station at Kenton-on-Sea
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination & management; desktop research, compilation of Wetland Screening Study Report.
Value of Project:	n/a
Location:	Paterson, Eastern Cape
Project duration & year:	2015
Client:	Confidential
Name of Project:	Proposed Upgrade of the Wastewater Treatment Works at Paterson
Project Description:	Wetland Impact Assessment for the proposed Wastewater Treatment Works Upgrade at Paterson
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination & management; site work and analysis, compilation of Wetland Impact Assessment Report.
Value of Project:	n/a

## Karissa Nel

### Senior Environmental Scientist

#### **Key Experience: Wetland / Aquatic Specialist Assessments**

Location: Addo, Eastern Cape Province  
 Project duration & year: 2014  
 Client: Confidential  
 Name of Project: Langbos Bulk Infrastructure, Addo, Eastern Cape Province  
 Project Description: Wetland Impact Assessment for the installation of bulk water and sewer infrastructure for Langbos, near Addo in the Eastern Cape Province  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; site work and analysis, compilation of Wetland Impact Assessment Report.  
 Value of Project: n/a

#### **Key Experience: Other Specialist Studies**

Location: Bruintjies Hoogte, Eastern Cape Province  
 Project duration & year: 2016  
 Client: MSBA on behalf of SANRAL  
 Name of Project: Vegetation Identification and Demarcation, Bruintjies Hoogte, Eastern Cape Province  
 Project Description: Identify and mark indigenous and protected plant species along road reserve and approximately 2 m beyond the existing fence boundary which are to be protected/ avoided during the fence maintenance activity.  
 Job Title and Duties: Project management, project co-ordination, field work, report review, client liaison.  
 Value of Project: n/a

Location: Nelson Mandela Bay, Eastern Cape Province  
 Project duration & year: 2013  
 Client: Confidential  
 Name of Project: CBA trade-off study for the proposed Jachtlakte Precinct Sustainable Human Settlement Plan  
 Project Description: An investigation into potential trade-offs in the Jachtlakte Precinct to be made for proposed development areas that were originally planned in Critical Biodiversity Areas. The study included much work in ArcGIS.  
 Job Title and Duties: Project management; compilation of trade-off report; ArcGIS calculations and plans; liaison with client and environmental authorities.  
 Value of Project: n/a

Location: Uitenhage, Eastern Cape  
 Project duration & year: 2011  
 Client: Confidential  
 Name of Project: Terrestrial ecological specialist study for the proposed mixed-use housing development at KwaNobuhle Extension 11, Uitenhage  
 Project Description: Main author of the terrestrial ecological specialist study done for the EIA for the proposed mixed-use housing development at KwaNobuhle Extension 11, Uitenhage. The study involved much ArcGIS work.  
 Job Title and Duties: Identification and assessment of impacts, compilation of specialist report; ArcGIS calculations and map generation.  
 Value of Project: n/a

**Karien Killian**  
**Environmental Scientist**



**Profession** Environmental Scientist

**Education** MSc Marine Botany, Nelson Mandela Metropolitan University, 2011  
 BSc Hons Zoology, Nelson Mandela Metropolitan University, 2006  
 BSc, Zoology, Botany, Geography, GIS, Nelson Mandela Metropolitan University, 2005

**Registrations/Affiliations** None

**Specialisation** Basic Assessments, Environmental Impact Assessments, Environmental Management Plans, Waste License Applications, Water Use License Applications, Environmental Auditing, Atmospheric Emission Licencing, Section 24G Applications.

**Expertise** Karien Killian has previous experience in the aquaculture industry, specifically involving the Pacific Oyster (*Crassostrea gigas*) Hatchery in the Port Elizabeth Harbour where she worked for one year. Her expertise includes water quality / nutrient analyses (relating to mariculture and phytoplankton), algal culturing and surf-zone phytoplankton dynamics, as well as Harmful Algal Blooms in which she has four years' experience.

Karien also has previous experience in GIS, working for NAVTEQ (now HERE) as a Geographical Analyst for 3 years. Expertise includes map data collection and verification, database management, and map production.

**Employment**

**2014 - present** SRK Consulting (Pty) Ltd, Environmental Scientist (Consultant), Port Elizabeth

**2013 - 2014** Dynamic Commodities, Product Development Specialist, Coega

**2009 - 2012** NAVTEQ, Geographic Analyst, Port Elizabeth

**2008 - 2009** B & G Mariculture / Kowie Oysters, Hatchery Supervisor, Port Elizabeth

**2004 - 2008** NMMU Botany and Zoology Departments, Research / Laboratory Assistant

**Languages** English – read, write, speak (Excellent)  
 Afrikaans – read, write, speak (Excellent)

## Karien Killian Environmental Scientist

### **Key Experience: Environmental impact assessments**

Location: Petrusville, Northern Cape, South Africa  
 Project duration & year: 2015 - 2017  
 Client: Kloofsig Solar (Pty) Ltd.  
 Name of Project: Proposed 75 MW Kloofsig Solar PV Energy Facility, Northern Cape (Kloofsig 1, 2 and 3)  
 Project Description: Scoping and Environmental assessment process of three 75 MW proposed solar photovoltaic (PV) energy generation facilities and associated infrastructure in the Northern Cape Province.  
 Job Title and Duties: Compilation of three separate Scoping and Environmental Impact Reports for Kloofsig 1, 2 and 3.  
 Value of Project: R 1.3 Million

### **Key Experience: Basic assessments**

Location: St. Marks to Sabalele, Eastern Cape, South Africa  
 Project duration & year: 2014 - 2015  
 Client: SANRAL  
 Name of Project: Upgrade of the DR 08376 from the R61 at St Marks to Sabalele Village  
 Project Description: Environmental Assessment of the widening and surfacing of the R61 at St Marks to Sabalele Village (19 km), including assessment of borrow pits and river crossings  
 Job Title and Duties: Compilation of Basic Assessment Report and Mining Environmental Management Programme.  
 Value of Project: R 300 000

Location: Alexandria area, Eastern Cape, South Africa  
 Project duration & year: November 2014 - ongoing  
 Client: Wycombevale Broers Boerdery  
 Name of Project: Wycombevale Vegetation Clearing BA  
 Project Description: Basic Assessment for clearing of agricultural land for pastures  
 Job Title and Duties: Compilation of Basic Assessment reports and Environmental Management Programme  
 Value of Project: R 150 000

Location: Humansdorp, Eastern Cape Province  
 Project duration & year: 2015  
 Client: Eastern Cape Department of Rural Development and Agrarian Reform  
 Name of Project: Wittekleibosch Milking Parlour, Humansdorp, Eastern Cape Province  
 Project Description: Basic Assessment and Waste License Application for a milking parlour near Humansdorp in the Eastern Cape Province  
 Job Title and Duties: Compilation of Basic Assessment report and Environmental Management Programme.  
 Value of Project: R 150 000

Location: Kenton on Sea, Eastern Cape Province  
 Project duration & year: 2015  
 Client: Seriso 616 (Pty) Ltd  
 Name of Project: Fuel Service Station, Kenton-on-Sea, Eastern Cape Province  
 Project Description: Basic Assessment for a fuel service station in Kenton on Sea in the Eastern Cape Province  
 Job Title and Duties: Compilation of Basic Assessment report and Environmental Management Programme.  
 Value of Project: R 330 000

## Karien Killian Environmental Scientist

Location: Louterwater, Eastern Cape Province  
 Project duration & year: 2016 - 2017  
 Client: Granor Passi Langkloof (Pty) Ltd.  
 Name of Project: Proposed Granor Passi Evaporation Ponds, Louterwater, Eastern Cape  
 Project Description: Basic Assessment for evaporation ponds for a fruit processing plant in Louterwater in the Eastern Cape Province  
 Job Title and Duties: Compilation of Basic Assessment report and Environmental Management Programme.  
 Value of Project: n/a

Location: Despatch, Eastern Cape Province  
 Project duration & year: 2016 - ongoing  
 Client: G5 Properties (Pty) Ltd.  
 Name of Project: Proposed Rezoning of Erf 4603, Despatch, Nelson Mandela Bay Municipality  
 Project Description: Basic Assessment for the rezoning of Erf 4603, Despatch from Undetermined to Industrial use.  
 Job Title and Duties: Compilation of Basic Assessment report and Environmental Management Programme.  
 Value of Project: n/a

Location: Grahamstown, Queenstown and Middelburg, Eastern Cape Province  
 Project duration & year: 2016 - ongoing  
 Client: Department of Rural Development and Agrarian Reform  
 Name of Project: Proposed Replacement of Incinerators at Veterinary Laboratories in Queenstown, Middleburg & Grahamstown.  
 Project Description: Basic Assessment processes for the replacement of incinerators at three state veterinary facilities in the Eastern Cape Province.  
 Job Title and Duties: Compilation of three Basic Assessment reports and Environmental Management Programmes.  
 Value of Project: n/a

### **Key Experience: Waste license applications**

Location: Witteklip, Port Elizabeth  
 Project duration & year: 2012 - 2015  
 Client: NMBM  
 Name of Project: Isizwe Witteklip Housing Wastewater Treatment Works  
 Project Description: Basic assessment and waste license application for a wastewater treatment works associated with the proposed Witteklip housing development  
 Job Title and Duties: Assisting with compilation of waste licence application  
 Value of Project: R 560 000

Location: Humansdorp, Eastern Cape Province  
 Project duration & year: 2015  
 Client: Eastern Cape Department of Rural Development and Agrarian Reform  
 Name of Project: Wittekleibosch Milking Parlour, Humansdorp, Eastern Cape Province  
 Project Description: Waste License Application for a milking parlour near Humansdorp in the Eastern Cape Province  
 Job Title and Duties: Compilation of Integrated Waste License Application.  
 Value of Project: R 150 000

Location: Louterwater, Eastern Cape Province  
 Project duration & year: 2016 - ongoing  
 Client: Granor Passi Langkloof (Pty) Ltd.  
 Name of Project: Proposed Granor Passi Evaporation Ponds, Louterwater, Eastern Cape  
 Project Description: Waste licence application for evaporation ponds for a fruit processing plant in

## Karien Killian Environmental Scientist

**Job Title and Duties:** Louterwater in the Eastern Cape Province  
 Compilation of Integrated Waste Licence application  
**Value of Project:** n/a

**Location:** Grahamstown, Queenstown and Middelburg, Eastern Cape Province  
**Project duration & year:** 2016 - ongoing  
**Client:** Department of Rural Development and Agrarian Reform  
**Name of Project:** Proposed Replacement of Incinerators at three State Veterinary Facilities in the Eastern Cape Province.  
**Project Description:** Waste Licence Applications for incinerators at Veterinary Laboratories in Queenstown, Middleburg & Grahamstown.  
**Job Title and Duties:** Compilation of three Waste Licence applications  
**Value of Project:** n/a

### **Key Experience: Water use license applications**

**Location:** St. Marks to Sabalele, Eastern Cape, South Africa  
**Project duration & year:** 2014 - 2015  
**Client:** SANRAL  
**Name of Project:** Upgrade of provincial road DR 08376 from the R61 at St Marks to Sabalele Village  
**Project Description:** Water Use Licence application for the upgrade of district road DR 08376 from gravel to surface standard  
**Job Title and Duties:** Compilation of Water Use Licence Applications  
**Value of Project:** R 300 000

**Location:** Cookhouse, Eastern Cape, South Africa  
**Project duration & year:** March 2014 – September 2015  
**Client:** Blue Crane Route Municipality  
**Name of Project:** Cookhouse WWTW Upgrade BA and WULAs  
**Project Description:** Basic Assessment and WULAs for upgrade of existing wastewater treatment works  
**Job Title and Duties:** Assisting with compilation of Water use Licence Application.  
**Value of Project:** R150 000

**Location:** Humansdorp, Eastern Cape Province  
**Project duration & year:** 2015  
**Client:** Eastern Cape Department of Rural Development and Agrarian Reform  
**Name of Project:** Wittekleibosch Milking Parlour, Humansdorp, Eastern Cape Province  
**Project Description:** Water Use License Application for a milking parlour near Humansdorp in the Eastern Cape Province  
**Job Title and Duties:** Compilation of Water Use License Application.  
**Value of Project:** R 150 000

**Location:** Louterwater, Eastern Cape Province  
**Project duration & year:** 2016 - ongoing  
**Client:** Granor Passi Langkloof (Pty) Ltd.  
**Name of Project:** Proposed Granor Passi Evaporation Ponds, Louterwater, Eastern Cape  
**Project Description:** Water Use Licence application for evaporation ponds for a fruit processing plant in Louterwater in the Eastern Cape Province  
**Job Title and Duties:** Compilation of Water Use Licence application  
**Value of Project:** n/a

**Location:** Despatch, Eastern Cape Province  
**Project duration & year:** 2016 - ongoing  
**Client:** G5 Properties (Pty) Ltd.

## Karien Killian Environmental Scientist

Name of Project: Proposed Rezoning of Erf 4603, Despatch, Nelson Mandela Bay Municipality  
 Project Description: Water Use Licence application for the rezoning of Erf 4603, Despatch from Undetermined to Industrial use.  
 Job Title and Duties: Compilation of Water Use Licence application  
 Value of Project: n/a

### **Key Experience: Environmental auditing**

Location: Kuyga, Greenbushes, Eastern Cape  
 Project duration & year: 2015  
 Client: AECOM (on behalf of NMBM)  
 Name of Project: Upgrade of Kuyga sewers and construction of sewer pumpstation  
 Project Description: Environmental Control Officer function for the upgrade of the Kuyga sewers and construction of the sewer pump station in Kuyga Township, Greenbushes  
 Job Title and Duties: Monitoring construction of the sewers and pumpstation, compiling monthly audit reports and liaising with the contractors.  
 Value of Project: R 60 000

Location: Humansdorp, Eastern Cape Province  
 Project duration & year: 2016 - 2017  
 Client: Eastern Cape Department of Rural Development and Agrarian Reform  
 Name of Project: Wittekleibosch Milking Parlour, Humansdorp, Eastern Cape Province  
 Project Description: Environmental Control Officer function for a milking parlour near Humansdorp in the Eastern Cape Province  
 Job Title and Duties: Monitoring construction of the milking parlour, compiling monthly audit reports and liaising with the contractors and engineers.  
 Value of Project: R 150 000


### **Key Experience: Atmospheric Emission Licence Applications**

Location: Nelson Mandela Bay, Eastern Cape  
 Project duration & year: 2017  
 Client: Transnet Port Terminals  
 Name of Project: Manganese Ore Berth AEL  
 Project Description: Atmospheric Emission License Application for the Manganese Ore Berth at the Port Elizabeth Port, Nelson Mandela Bay  
 Job Title and Duties: Online compilation and submission (via SAAELIP) of Atmospheric Emission Licence application.  
 Value of Project: n/a

Location: Grahamstown, Queenstown and Middelburg, Eastern Cape Province  
 Project duration & year: 2016 - ongoing  
 Client: Department of Rural Development and Agrarian Reform  
 Name of Project: Atmospheric Emission License (AEL) Applications for incinerators at Veterinary Laboratories in Queenstown, Middleburg & Grahamstown.  
 Project Description: AEL Applications, including a Section 22A process, for incinerators at Veterinary Laboratories in Queenstown, Middleburg & Grahamstown  
 Job Title and Duties: Online compilation and submission (via SAAELIP) of three Atmospheric Emission Licence applications.  
 Value of Project: n/a



**Karien Killian**  
**Environmental Scientist**

<b>Karien Killian</b>	
<b>Certification: MSc (Botany)</b>	
I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.	
 <p>SRK Consulting - Certified Electronic Signature          Karien Killian          1650-2754-100-KILK          This signature has been printed digitally. The Author has given permission for its use for this document. The details are stored in the SRK Signature Database.</p>	Date: 8 August 2017
Full name of staff member:	<b>Karien Killian</b>