

## Karissa Nel

### Senior Environmental Scientist



**Profession:** Senior Environmental Scientist

**Nationality:** South Africa

**Education:** MEM (Environmental Management), UFS, 2007  
BSc (Hons) (Zoology), UFS, 2005  
BSc (Zoology, Microbiology), UFS, 2004

**Registrations and Affiliations:** Certified Environmental Assessment Practitioner (EAP(SA))  
Member, International Association of Impact Assessors (IAIA(SA))

**Awards:** Bloemwater Prize for Best Magister Student in Environmental Management at UFS

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

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**Expertise**      Karissa Nel has been involved in environmental projects for 10 years, with experience in the following:

- 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).

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### Employment

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

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**Languages**      Afrikaans – read, write, speak  
English – read, write, speak

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**Key Experience: ENVIRONMENTAL IMPACT ASSESSMENTS**

Name of Project: Jachtvlakte Precinct Sustainable Human Settlement Plan  
 Location: Nelson Mandela Bay, Eastern Cape  
 Project Description: EIA for the Mixed-use housing, commercial and industrial development at Jachtvlakte, Nelson Mandela Bay  
 Project duration/date: 2011 - present  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination; compilation of scoping and EIA reports; facilitation of public participation process.

Name of Project: Witteklip Wastewater Treatment Works  
 Location: Nelson Mandela Bay, Eastern Cape  
 Project Description: EIA for the proposed Wastewater Treatment Works at Witteklip, Nelson Mandela Bay  
 Project duration/date: 2012 - present  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination; compilation of scoping and EIA reports; facilitation of public participation process.

Name of Project: Realignment of the 132 kV powerline from Marconi Street to the Tembani line  
 Location: Nelson Mandela Bay, Eastern Cape  
 Project Description: EIA for the realignment of an existing powerline and additional of a new 132 kV powerline, Nelson Mandela Bay  
 Project duration/date: 2010 - 2012  
 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.

Name of Project: Mixed-use housing development at KwaNobuhle Extension 11, Uitenhage  
 Location: Uitenhage, Eastern Cape  
 Project Description: EIA for the Mixed-use housing development at KwaNobuhle Extension 11, Uitenhage  
 Project duration/date: 2011  
 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.

Name of Project: Subdivision of the Farm Morgenzon, Bloemfontein, Free State Province.  
 Location: Bloemfontein  
 Project Description: EIA for the subdivision of a farm  
 Project duration/date: 2006  
 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.

Name of Project: Fuel filling station on both sides of the N1 National Road on the Farm Harmonia 867, Winburg, Free State Province.  
 Location: Winburg  
 Project Description: EIA for the construction of a fuel filling station  
 Project duration/date: 2008 - 2009  
 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.

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Name of Project: Fuel filling station in Sluiters road in Colesberg, Northern Cape Province.  
Location: Colesberg  
Project Description: EIA for the construction of a fuel filling station  
Project duration/date: 2007  
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.

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Name of Project: Township establishment at Kuyasa (Colesberg), Northern Cape Province.  
Location: Colesberg  
Project Description: EIA for township establishment  
Project duration/date: 2006 – 2007  
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.

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Name of Project: Township establishment on the Farm Bayswater 2865, Bloemfontein, Free State Province.  
Location: Bloemfontein  
Project Description: EIA for town development in a sensitive area  
Project duration/date: 2006 – 2009  
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.

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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).  
Location: Bloemfontein  
Project Description: EIA for a large town development  
Project duration/date: 2007 – 2008  
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.

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Name of Project: Stafford Hill Golf and Polo Estate, Ficksburg, Free State Province.  
Location: Ficksburg  
Project Description: EIA for golf and polo estate  
Project duration/date: 2006 – 2007  
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.

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Name of Project: Grootrivier Golf Estate on the Vaal River, Christiana, Free State Province.  
Location: Christiana  
Project Description: EIA for a golf estate  
Project duration/date: 2007 – 2009  
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.

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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.

Location: Lindley

Project Description: EIA for the enlargement of a dam

Project duration/date: 2007

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.

Name of Project: Water pipeline development between Jagersfontein & Fauresmith, Free State Province.

Location: Jagersfontein tot Fauresmith

Project Description: Scoping for a water pipeline and reservoir

Project duration/date: 2006

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.

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.

Location: Bloemfontein

Project Description: EIA for overhead power line and cable, distribution centre and switching station.

Project duration/date: 2007 – 2008

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.

Name of Project: Proposed construction of a new solid waste site in Sterkspruit

Location: Sterkspruit, Eastern Cape Province.

Project Description: EIA for construction of a new solid waste site.

Project duration/date: 2008 – 2009

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.

Name of Project: Upgrading of Colesberg Wastewater Treatment Works

Location: Colesberg, Northern Cape Province

Project Description: EIA for Upgrading of Wastewater Treatment Works.

Project duration/date: 2007 – 2008

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.

#### **Key Experience: BASIC ASSESSMENTS**

Name of Project: Wittekleibosch Milking Parlour, Humansdorp, Eastern Cape Province

Location: Humansdorp, Eastern Cape Province

Project Description: Basic Assessment and Water Use License Application for a milking parlour near Humansdorp in the Eastern Cape Province

Project duration/date: 2015

Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; compilation of Basic Assessment report and Water Use License

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Application.

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Name of Project: Langbos Bulk Infrastructure, Addo, Eastern Cape Province  
 Location: 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  
 Project duration/date: 2014 - 2015  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; compilation of Basic Assessment report and Water Use License Application.

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Name of Project: Revetments along the Swartkops River at Redhouse  
 Location: Nelson Mandela Bay, Eastern Cape  
 Project Description: Basic Assessment for the installation of stormwater management structures along the portion of the Swartkops River  
 Project duration/date: 2011 – 2012  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination; compilation of Basic Assessment report; facilitation of public participation process.

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Name of Project: Upgrade of the National Road 10 Section 4 from Tafelberg to Middelburg South Interchange  
 Location: Middelburg, Eastern Cape  
 Project Description: Basic Assessment for the upgrade of the National Road 10 Section 4 from Tafelberg to Middelburg South Interchange  
 Project duration/date: 2009 – 2010  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination; compilation of Basic Assessment report; facilitation of public participation process.

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Name of Project: Upgrade and Rehabilitation of the National Road 2 Section 11, Coega to Colchester, Eastern Cape  
 Location: Coega to Colchester, Eastern Cape  
 Project Description: Basic Assessment for the upgrading of a road  
 Project duration/date: 2009 - 2010  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination; compilation of Basic Assessment report; facilitation of public participation process.

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Name of Project: Rezoning of erven in Graaff-Reinet for industrial purposes  
 Location: Graaff-Reinet, Eastern Cape  
 Project Description: Basic Assessment for the rezoning of erven  
 Project duration/date: 2009 - 2010  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination; compilation of Basic Assessment report; facilitation of public participation process.

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Name of Project: Establishment of a cemetery in Kleinpoort  
 Location: Kleinpoort, Eastern Cape  
 Project Description: Basic Assessment for the establishment of a cemetery  
 Project duration/date: 2009  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination; compilation of Basic Assessment report; facilitation of public participation process.

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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  
 Location: Bloemfontein, Free State Province  
 Project Description: Basic Assessment for a hotel, residential, business and office development  
 Project duration/date: 2007  
 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

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Name of Project: Leisure residential development on the Farm Welgelegen, Clarens  
 Location: Clarens, Free State Province  
 Project Description: Basic Assessment for the development of 15 leisure residential units.  
 Project duration/date: 2006 – 2008  
 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.

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Name of Project: Upgrading of the road between Kuruman van Vryburg  
 Location: Kuruman/ Vryburg, North West Province  
 Project Description: Basic Assessment for upgrading of a road.  
 Project duration/date: 2008  
 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.

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#### **Key Experience:      ATMOSPHERIC EMISSION LICENSE APPLICATIONS**

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

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

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#### **Key Experience:      ENVIRONMENTAL MANAGEMENT PLANS/ PROGRAMMES (to DMR or as a separate document – not associated with a BA or**

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**EIA)**

Name of Project: Upgrading of the National Road 10 Section 4 from Tafelberg to Middelburg South Interchange  
 Location: Middelburg, Eastern Cape  
 Project Description: EMPr for borrow pits for the upgrading of the National Road 10 Section 4 from Tafelberg to Middelburg South Interchange  
 Project duration/date: 2010  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination; compilation of Construction Environmental Management Programme.

Name of Project: Upgrading and Rehabilitation of the National Road 2 Section 11 from Coega to Colchester  
 Location: Colchester, Eastern Cape  
 Project Description: EMPr for borrow pits for the upgrading and rehabilitation of the National Road 2 Section 11 from Coega to Colchester  
 Project duration/date: 2009 - 2010  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination; compilation of Construction Environmental Management Programme.

Name of Project: Construction of Romany Road and associated infrastructure, Port Elizabeth  
 Location: Port Elizabeth, Eastern Cape  
 Project Description: Construction Environmental Management Plan for the construction of a road and associated infrastructure  
 Project duration/date: 2010  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination; compilation of Construction Environmental Management Plan.

Name of Project: EMPR for borrow pits between Coega and Colchester  
 Location: Between Coega and Colchester, Eastern Cape  
 Project Description: Environmental Management Plan for borrow pits  
 Project duration/date: 2009 - 2010  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination; compilation of Environmental Management Plan.

Name of Project: EMPR for borrow pits – Ladybrand, Free State Province  
 Location: Ladybrand  
 Project Description: EMPR for borrow pits  
 Project duration/date: 2007  
 Job Title and Duties: Liaison with client and mining authorities; compilation of Environmental Management Plan

**Key Experience: ENVIRONMENTAL AUDITING**

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

Name of Project: Monitoring of the Construction of Romany Road and associated infrastructure,

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Location: Port Elizabeth, Eastern Cape  
 Port Elizabeth, Eastern Cape  
 Project Description: Monitoring of the construction of a road and associated infrastructure  
 Project duration/date: 2010  
 Job Title and Duties: Liaison with client, contractor and environmental authorities; compilation of ECO reports.

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

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

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#### **Key Experience: WATER USE LICENSE APPLICATIONS**

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

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Name of Project: Wittekleibosch Milking Parlour, Humansdorp, Eastern Cape Province  
 Location: Humansdorp, Eastern Cape Province  
 Project Description: Water Use License Application for a milking parlour near Humansdorp in the Eastern Cape Province  
 Project duration/date: 2015  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; compilation of the Water Use License Application document.

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Name of Project: Langbos Bulk Infrastructure, Addo, Eastern Cape Province  
 Location: 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  
 Project duration/date: 2014 - 2015  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; compilation of the Water Use License Application document.

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Name of Project: Witteklip Wastewater Treatment Works  
 Location: Nelson Mandela Bay, Eastern Cape  
 Project Description: Water Use License Application for the proposed Wastewater Treatment Works at Witteklip, Nelson Mandela Bay



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Project duration/date: 2013 - present  
 Job Title and Duties: Project management; liaison with client and relevant authorities; compilation of the Water Use License Application Forms

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Name of Project: KwaNobuhle Extension 11 Mixed-use Housing Development  
 Location: Uitenhage, Eastern Cape  
 Project Description: Water Use License Application for a proposed mixed-use housing development at KwaNobuhle Extension 11, Nelson Mandela Bay  
 Project duration/date: 2013 - present  
 Job Title and Duties: Project coordinator; liaison with client and relevant authorities; compilation of the Water Use License Application Forms

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Name of Project: Khayamnandi Extension Housing Development  
 Location: Nelson Mandela Bay, Eastern Cape  
 Project Description: Water Use License Application for a proposed housing development at Khayamnandi, Nelson Mandela Bay  
 Project duration/date: 2012 - 2013  
 Job Title and Duties: Project coordinator; liaison with client and relevant authorities; compilation of the Water Use License Application Forms

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#### **Key Experience: WASTE LICENSE APPLICATIONS**

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

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

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#### **Key Experience: SPECIALIST & OTHER STUDIES**

Name of Project: Proposed Housing Development on Portions 25 & 45 of Farm Cragga Kamma No. 23, Port Elizabeth  
 Location: Port Elizabeth, Eastern Cape  
 Project Description: Wetland Impact Assessment for the proposed Housing Development on Portions 25 & 45 of Farm Cragga Kamma No. 23, Port Elizabeth  
 Project duration/date: 2015  
 Job Title and Duties: Liaison with client and environmental authorities; project co-ordination & management; site work and analysis, compilation of Wetland Impact Assessment Report.

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Name of Project: Proposed Fuel Service Station at Kenton-on-Sea  
 Location: Kenton-on-Sea, Eastern Cape  
 Project Description: Wetland Screening Study for the proposed Fuel Service Station at Kenton-on-Sea

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Project duration/date:	2015
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination & management; desktop research, compilation of Wetland Screening Study Report.

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Name of Project:	Proposed Upgrade of the Wastewater Treatment Works at Paterson
Location:	Paterson, Eastern Cape
Project Description:	Wetland Impact Assessment for the proposed Wastewater Treatment Works Upgrade at Paterson
Project duration/date:	2015
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination & management; site work and analysis, compilation of Wetland Impact Assessment Report.

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Name of Project:	Langbos Bulk Infrastructure, Addo, Eastern Cape Province
Location:	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
Project duration/date:	2014
Job Title and Duties:	Liaison with client and environmental authorities; project co-ordination & management; site work and analysis, compilation of Wetland Impact Assessment Report.

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

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Name of Project:	Terrestrial ecological specialist study for the proposed mixed-use housing development at KwaNobuhle Extension 11, Uitenhage
Location:	Uitenhage, Eastern Cape
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.
Project duration/date:	2011
Job Title and Duties:	Identification and assessment of impacts, compilation of specialist report; ArcGIS calculations and map generation.

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