

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

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 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).

Employment

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

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.

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.

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.

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.

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.

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: Walmer 132 kV Powerline, Port Elizabeth

Location: Walmer, Nelson Mandela Bay, Eastern Cape Province

Project Description: Installation of a 132 kV overhead powerline from the Lorraine Substation to the 17th Avenue Substation

Project duration/date: 2015 - ongoing

Job Title and Duties: Liaison with client and environmental authorities; project co-ordination &

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management; compilation of Basic Assessment Report and EMPr and responding to public comments.

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

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, EMPr and Water Use License Application.

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.

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.

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.

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.

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.

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

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.

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

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

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

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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 Nooitgedagt-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 Nooitgedagt 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, Port Elizabeth, Eastern Cape
 Location: 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.

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.

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.

Key Experience: WATER USE LICENSE APPLICATIONS

Name of Project: Jachtlakte 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 Jachtlakte, 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.

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

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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.

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.

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
 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

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

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

Key Experience: WASTE LICENSE/ INTEGRATED WASTE LICENSE APPLICATIONS

Name of Project: Wittekleibosch Milking Parlour, Humansdorp, Eastern Cape Province
 Location: Humansdorp, Eastern Cape Province
 Project Description: Integrated Environmental Authorisation and Waste 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 of Basic Assessment report, EMPr and Water Use License Application.

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

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Job Title and Duties: Project management; liaison with client and environmental authorities; compilation of the Waste License Application Form

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

Key Experience: WETLAND/ AQUATIC SPECIALIST ASSESSMENTS

Name of Project: Bloemendal Arterial Extension, Port Elizabeth
 Location: Nelson Mandela Bay, Eastern Cape
 Project Description: Aquatic Impact Assessment for the proposed Extension of the Bloemendal Arterial, Port Elizabeth
 Project duration/date: 2016 - ongoing
 Job Title and Duties: Liaison with client; project co-ordination & management; site work and analysis, compilation of Aquatic Impact Assessment Report.

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.

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
 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.

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.

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

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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.

Key Experience: OTHER SPECIALIST STUDIES

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.

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.
