**DETAILS OF EAP AND DECLARATION OF INTEREST**

<table>
<thead>
<tr>
<th>File Reference Number:</th>
<th>(For official use only)</th>
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</thead>
<tbody>
<tr>
<td>NEAS Reference Number:</td>
<td>12/12/20/</td>
</tr>
<tr>
<td>Date Received:</td>
<td>DEA/EIA/</td>
</tr>
</tbody>
</table>


**PROJECT TITLE**
**Proposed 30-year Ash Disposal Facility at Kendal Power Station, Mpumalanga**

<table>
<thead>
<tr>
<th>Environmental Assessment Practitioner (EAP):¹</th>
<th>Zitholele Consulting (Pty) Ltd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact person:</td>
<td>Tania Oosthuizen</td>
</tr>
<tr>
<td>Postal address:</td>
<td>PO Box 6002, Halfway House</td>
</tr>
<tr>
<td>Postal code:</td>
<td>1685</td>
</tr>
<tr>
<td>Telephone:</td>
<td>011 207 2060</td>
</tr>
<tr>
<td>E-mail:</td>
<td><a href="mailto:taniao@zitholele.co.za">taniao@zitholele.co.za</a></td>
</tr>
<tr>
<td>Professional affiliation(s) (if any)</td>
<td>SACNAPS (Cert Level B), EAPSA</td>
</tr>
</tbody>
</table>

| Project Consultant:                         | Eskom SOC Ltd                  |
| Contact person:                             | Emmy Molepo                     |
| Postal address:                             | PO Box 1091, Johannesburg      |
| Postal code:                                 | 2001                           |
| Telephone:                                   | 011 800 4211                   |
| E-mail:                                      |                                |
4.2 The Environmental Assessment Practitioner

I, ___________________________________________, declare that –

General declaration:

I act as the independent environmental practitioner in this application

I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant

I declare that there are no circumstances that may compromise my objectivity in performing such work;

I have expertise in conducting environmental impact assessments, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;

I will comply with the Act, regulations and all other applicable legislation;

I will take into account, to the extent possible, the matters listed in regulation 8 of the regulations when preparing the application and any report relating to the application;

I have no, and will not engage in, conflicting interests in the undertaking of the activity;

I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;

I 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;

I 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;

I will keep a register of all interested and affected parties that participated in a public participation process; and

I 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

all the particulars furnished by me in this form are true and correct;

will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and

I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.
Disclosure of Vested Interest (delete whichever is not applicable)

I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2014;

I have a vested interest in the proposed activity proceeding, such vested interest being:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Signature of the environmental assessment practitioner:

Name of company:

Date:
Tania Oosthuizen

KEY EXPERIENCE

Tania has twelve years working experience in the Environmental Management field. She is certified by the Interim Board of Environmental Assessment Practitioners of South Africa (EAPASA) and registered as Certified Natural Scientist, Level B with the South African Council for Natural Scientific Professionals (SACNASP). She holds a Master’s Degree in Environmental Management from the North West University. Tania manages many large scale environmental authorisation projects and specialises in water use licences.

PROJECT EXPERIENCE

2015 – 2016  Camden Biodiversity Management Plan R 500
Project Managing the compilation of a Biodiversity Management Plan for the Camden Power Station.

2013 – 2016  Kendal 30-year Ash Disposal Facility R6 million
Project Managing the environmental authorisation processes (EIA, WMLA and IWULA) for a new Ash Disposal Facility for Kendal Power Station near Ogies in Mpumalanga. Tania is managing all aspects of this study.

2013 – 2016  EIA Kendal Continuous Ash Disposal Facility R4.8 million
Project Managing the IWULA process for the continuation of ash disposal on new footprint for the Kendal Power Station near Ogies in Mpumalanga.

2014 – 2016  Camden New Ash Disposal Facility R1 million
Project Managing the environmental authorisation processes (EIA, WMLA and IWULA) for a new Ash Disposal Facility for Camden Power Station near Ermelo in Mpumalanga. Tania took over the project in 2014 and saw it to completion.

2015  Camden Grave Relocation Process R600 000
Acted as a Project Manager for the grave relocation process for 45 graves situated on the area earmarked for the new Camden Ash Disposal Facility.

2015  Kusile 60 year Ash Disposal Facility R11 million
Provide project support for the compilation of the IWULA and IWWMP for the Kusile 60-year Ash Disposal Project near Balmoral in Mpumalanga.

2015  EIA Medupi Flue Gas Desulphurisation Project R5 million
Acted as a Project Manager on the EIA, WML and IWULA for the retro fitment of the Medupi Power Station.

Professional Registrations:
- Certified Environmental Assessment Practitioner
- SACNASP Cert Level B

Occupation:
- Environmental Practitioner

Specialisation:
- Environmental Consulting
- IWULA , IWWMP

Education:
- Masters Environmental Management (Cum Laude), 2010 North-West University
- B.Sc. Hons Geography, 2004 RAU
- B.Sc. Natural and Environmental Science, 2003 RAU
## PROJECT EXPERIENCE (continued)

**2012 - 2013  Wallmannsthal Fluorspar Mine**  
**Project Manager** - Environmental authorisation processes (EIA and EMPR) for a Greenfields fluorspar mine in Gauteng. 

**2012  Eureka Mine**  
Due diligence audit and Pre-feasibility study. 

**2012  Marsfontein Mine**  
Closure Plan for this decommissioned Mine. 

**2012  Middelburg Ferrochrome**  
Undertook an audit on facility’s compliance to their water use licence and GN77. 

**2011  Neckartal Dam**  
Facilitator for the public meetings held in Namibia. Tania reviewed the ESIA. 

**2012 - 2013  Wayland Iron Ore Mine**  
Project management for the environmental authorisation processes (EIA and EMPR) for a Greenfields iron ore mine in Limpopo. Tania also managed the public participation and GIS components of the study. 

**2011 - 2013  Grootvlei - Burnstone Power Line**  
Project Manager in the compilation of two Basic Assessment Reports and Environmental Management Plans as well as an S21(c) and (i) water use license for the crossings of wetlands. 

**2011 - 2013  Kusile Power Station**  
Project Manager for the water use license update process for the Kusile Power Station. Also project managed the (c) and (i) water use license for the ash dump. 

**2007 - 2012  Burnstone Gold Mine**  
Project Manager for the compilation of a new EIA, EMPR update, and IWULA update for proposed expansions to the mine. The project included a full public participation programme. 

**2010 - 2011  Luwumbu and Mibango Exploration Projects**  
**Project Manager** - Development of EMPs for exploration activities in Tanzania. Tania undertook site visits and made recommendations regarding environmental issues and risks and future environmental applications. 

**2007 - 2008  Lumwana Uranium Project, Zambia**  
Environmental assessments for the uranium component of the Lumwana project. Tania was responsible for the site visit, baseline chapters and to undertake the alternatives assessment for the siting of the Tailings Storage Facility and uranium processing plant.
PROJECT EXPERIENCE (continued)

2006-2007  Kayelekera Uranium Mine, Malawi  R4 million
Tania was part of the team who undertook the World Bank EIA for the Kayelekera Uranium Project in Malawi. Tania assisted with day to day aspects of the EIA and was specifically responsible for the water quality monitoring and analysis, the sensitivity mapping and certain aspects of the public participation.

2004  Cullinan Diamond Mine
Tania was sub-contracted to Cullinan Diamond Mine to work as Environmental Officer. There, she was part of a team who were responsible to maintain an Environmental Management System. Tania was responsible to give environmental induction training and to set up a GIS system for the mine.

EMPLOYMENT RECORD

<table>
<thead>
<tr>
<th>Year</th>
<th>Company</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013 - Present</td>
<td>Zitholele Consulting</td>
<td>Environmental Practitioner</td>
</tr>
<tr>
<td>2012 – 2013</td>
<td>AGES</td>
<td>Senior Environmental Consultant</td>
</tr>
<tr>
<td>2005 – 2012</td>
<td>Knight Piésold</td>
<td>Senior Environmental Scientist</td>
</tr>
<tr>
<td>2004 – 2005</td>
<td>Information Decision Systems</td>
<td>GIS and Environmental Scientist</td>
</tr>
</tbody>
</table>
Dr. Mathys Vosloo

KEY EXPERIENCE

Dr. Mathys Vosloo is a well-qualified and technically proficient environmental and natural scientist with more than 12 years environmental management experience. His experience include Environmental Impact Assessments (EIAs) and the development of Environmental Management Programmes during environmental assessments of construction projects, environmental compliance monitoring and reporting, and Environmental Control Officer (ECO) services for construction projects. Recent experience includes project management and execution of large waste related projects, such as the application for development of Ash Disposal Facilities, and large linear projects such as the management EIA process for the implementation of extensive power lines for renewable projects. Mathys also has substantial experience in Geographical Information Systems (GIS), creating and analysing digital terrain models, runoff and stream flow analysis, stormwater design and map-making for projects in Africa. Further experience include the development and completion of State Of the Environment Reporting (SOER), Strategic Environmental Assessments (SEA) and feasibility studies. Mathys’ experience in natural science include aquatic ecological assessments, project management and sample collection in several west, south and east coast estuaries, including ecosystem analysis of estuaries in the Eastern Cape and former Transkei area.

PROJECT EXPERIENCE

2016

EA Amendment for Kuruman Powerline Upgrade  
R 60 000  
EA Amendment application i.t.o. EIA 2014 regulations for amendment to the approved 132 kV powerline corridor between Hotazel, Kuruman and Kathu, Northern Cape.

2016

Breede-Gourits CMS: Estuarine component  
R 81 000  
Estuary Situation Assessment to inform the Breede-Gourits Catchment Management Strategy for Breede-Gourits Water Management Area.

2016

BA for Tshepisong Extension 4 development  
R 198 000  
Basic Assessment for Mixed Business and Residential Development within Portion 64 of Farm Vlakfontein 238 IQ, Tshepisong Extension 4, Johannesburg West, Gauteng Province.

2016

BA for Patensie Housing Development  
R 283 000  
Basic Assessment for the Patensie Housing Development, Eastern Cape.
### PROJECT EXPERIENCE (continued)

<table>
<thead>
<tr>
<th>Year</th>
<th>Project Description</th>
<th>Fee</th>
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<tbody>
<tr>
<td>2016</td>
<td>Specialist Walkdown for Kuruman Powerline upgrade</td>
<td>R 355 000</td>
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<tr>
<td></td>
<td>Specialist walkdown of approved 132 kV powerline servitude between Hotazel and Kuruman, Northern Cape.</td>
<td></td>
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<tr>
<td>2016</td>
<td>Solar Park EA Amendment</td>
<td>R 248 000</td>
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<tr>
<td></td>
<td>EA Amendment application i.t.o. EIA 2014 regulations for amendments to the Solar Park to Nieuwehoop 400 kV power line corridor near Upington, Northern Cape.</td>
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<tr>
<td>2015-2016</td>
<td>Solar Park WULA</td>
<td>R 547 000</td>
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<tr>
<td></td>
<td>WULA for Solar Park to Nieuwehoop 400 kV powerline development near Upington, Northern Cape.</td>
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<tr>
<td>2015-2016</td>
<td>BA Clanwilliam</td>
<td>R 409 000</td>
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<tr>
<td></td>
<td>Proposed Re-alignment of the Bulshoek Dam and Doring River Weirs near Clanwilliam, Western Cape.</td>
<td></td>
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<tr>
<td>2015-2016</td>
<td>BA Klipspruit Valley</td>
<td>R 244 000</td>
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<tr>
<td></td>
<td>BA and WULA for the Klipspruit Valley Road Upgrade.</td>
<td></td>
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<tr>
<td>2014-2016</td>
<td>EIA Koffiefontein Slimes Dam</td>
<td>R 1 million</td>
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<tr>
<td></td>
<td>EIA for the new Koffiefontein Slimes Dam Development, Kimberley.</td>
<td></td>
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<tr>
<td>2014-2015</td>
<td>BA and WULA Kuruman Upgrade</td>
<td>R 1.3 million</td>
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<td></td>
<td>BA and WULA for 132kV power line upgrade from Hotazel to Kuruman and Kathu, Northern Cape.</td>
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<tr>
<td>2013-2016</td>
<td>EIA Kendal 30 year Ash Disposal Facility</td>
<td>R 6 million</td>
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<tr>
<td></td>
<td>EIA, WMLA and WULA for a new Ash Disposal Facility for Kendal Power Station near Ogies in Mpumalanga.</td>
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<tr>
<td>2013-2014</td>
<td>Design of 3 canals</td>
<td>R 700 000</td>
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<tr>
<td></td>
<td>3 x BAs for the proposed prevention of water ingress into previously mined out areas in the Witwatersrand Mining Basin (canalisation of 3 streams), Gauteng.</td>
<td></td>
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<td>2013-2014</td>
<td>BA for Vaalbank</td>
<td>R 380 000</td>
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<td></td>
<td>Basic Assessment for Vaalbank Switching Station and 2 x 88 kV Powerlines, Free State.</td>
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<tr>
<td>2012-2015</td>
<td>EIA Solar Park</td>
<td>R 5 million</td>
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<tr>
<td></td>
<td>EIA, EMP &amp;WULA for the Solar Park 132/400 kV Sub Station and Associated lines, Northern Cape.</td>
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<tr>
<td>2012-2015</td>
<td>Kusile 60 year Ash Disposal Facility</td>
<td>R 11 million</td>
</tr>
<tr>
<td></td>
<td>EIA, WMLA and WULA for the 60 year Ash Disposal Project near Balmoral in Mpumalanga.</td>
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<tr>
<td>2012-2015</td>
<td>WULA Wilge Pipeline</td>
<td>R 900 000</td>
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<tr>
<td></td>
<td>WULA for the sewage and water pipeline from Wilge Township to Phola, Mpumalanga.</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>BA Kouga Dam Wall</td>
<td>R 250 000</td>
</tr>
<tr>
<td></td>
<td>The rehabilitation of the Kouga Dam wall and associated mining activities.</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>EMP City of Cape Town Stormwater</td>
<td>R 1.5 million</td>
</tr>
<tr>
<td></td>
<td>Maintenance and management interventions undertaken by the City of Cape Town in its surface stormwater systems.</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>BA Melkhout Powerlines</td>
<td>R 100 000</td>
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<tr>
<td></td>
<td>The installation of 132kV transmission lines from Melkhout to Dieprivier, including the construction of a new substation at Dieprivier, Cacadu District.</td>
<td></td>
</tr>
</tbody>
</table>
# PROJECT EXPERIENCE (continued)

<table>
<thead>
<tr>
<th>Year</th>
<th>Project Description</th>
</tr>
</thead>
</table>
| 2012 | **BA Diepriver Powerlines**  
*The installation of 132kV transmission lines from Dieprivier to Kareedouw, including the extension of the existing substation at Kareedouw, Cacadu District.*  
R 100 000 |
| 2012 | **BA Patensie Powerlines**  
*The installation of 132kV transmission lines from Melkhout to Patensie, including the construction of a new substation at Patensie, Cacadu District.*  
R 100 000 |
| 2012 | **Mmnthatha River System**  
*Catchment delineation and stream calculation for the Mnthatha River System, GIBB Durban.* |
| 2011 - 2012 | **PRASA Passenger rail and shunting yard proposed sites**  
*Environmental Screening for the PRASA passenger rail and shunting yard proposed sites in Cape Town, Gauteng and Durban.* |
| 2010 - 2012 | **ATTP Flow Limiters installation**  
*NM BM Assistance to the poor (ATTP) and schools leakages repairs and flow limiters installation.* |
| 2010 - 2012 | **ATTP Database Management Flow Limiters installation**  
*R 4 million  
*NM BM Assistance to the poor (ATTP) and schools leakages repairs and flow limiters installation database management.* |
| 2010 - 2011 | **Nelson Mandela Bay Provincial Department of Housing**  
*Nelson Mandela Bay and Cradock low cost housing rectification audits. Management of incoming and outgoing GIS data and GIS mapping, Provincial Department of Housing.* |
| 2010 - 2011 | **ECO Bulk Stormwater Infrastructure Motherwell**  
*Installation of bulk storm water infrastructure in Motherwell NU29 and 30 and Implementation of an artificial wetland at the Motherwell stormwater canal outlet structure.* |
| 2010 | **BA McAdam Street Upgrade**  
*The extension of McAdam Street from Worraker to Mangold Street, NMBM.*  
R 60 000 |
| 2009 - 2011 | **EIA Motherwell Housing Development**  
*Motherwell NU 31 housing development, NMBM.*  
R 270 000 |
| 2009 - 2011 | **Coega Integrated Stormwater Management Plan**  
*Coega IDZ Eastern Sector Integrated Stormwater Management Plan, Coega Development Corporation.* |
| 2009 - 2011 | **EIA KougaWind Farm**  
*Kouga 300 MW wind farm, Kouga Local Municipality.*  
R 350 000 |
| 2009 - 2010 | **ECO Swartkops River Artificial Wetland**  
*Swartkops River, NMBM.* |
| 2009 - 2010 | **ECO Humewood Road Upgrade**  
*Realignment of the S-bend section of Humewood Road in Humewood.* |
| 2009 - 2010 | **ECO Paapenkuils Sewer Augmentation**  
*Paapenkuils Main Sewer Augmentation in Port Elizabeth NMBM.* |
<table>
<thead>
<tr>
<th>Year</th>
<th>Project Description</th>
<th>Cost</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>ISWMP Coega IDZ</td>
<td>R 350 000</td>
<td>Coega IDZ Eastern Sector Integrated Stormwater Management Plan, CDC.</td>
</tr>
<tr>
<td>2009</td>
<td>SOER Flood Plain and Spatial Analysis</td>
<td></td>
<td>Nelson Mandela Metropolitan Municipality SOER flood plain and spatial analysis, NMBM.</td>
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<tr>
<td>2009</td>
<td>EIA – Red Cap Developments</td>
<td></td>
<td>Kouga Local Municipality wind farm development EIA, RedCap Developments.</td>
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<tr>
<td>2008</td>
<td>Port Harcourt City Open Space System Plan</td>
<td></td>
<td>Port Harcourt City Open Space System Plan, Government of Nigeria.</td>
</tr>
<tr>
<td>2008</td>
<td>ECO Sherwood Road Upgrade</td>
<td></td>
<td>Upgrading of Devon and Fairley Roads in Port Elizabeth, NMBM.</td>
</tr>
<tr>
<td>2008</td>
<td>OR Tambo District Municipality water conservation and demand management</td>
<td></td>
<td>OR Tambo District Municipality water conservation and demand management.</td>
</tr>
<tr>
<td>2008</td>
<td>Kouga Local Municipality catchment and flood attenuation analysis</td>
<td></td>
<td>Jeffreys Bay Marina Martinique catchment and flood attenuation analysis, Kouga Local Municipality.</td>
</tr>
<tr>
<td>2008</td>
<td>EIA Bethelsdorp Housing Development</td>
<td>R 230 000</td>
<td>Bethelsdorp Phase 3 social housing development, NMBM.</td>
</tr>
<tr>
<td>2008</td>
<td>BA Beacon Maritime Navigational Structure Upgrade</td>
<td>R 60 000</td>
<td>Beacon maritime navigational structure upgrading, NMBM.</td>
</tr>
<tr>
<td>2008</td>
<td>BA Moffet Dam Rehabilitation</td>
<td>R 60 000</td>
<td>Moffet Dam breach remedial works, Kouga Local Municipality.</td>
</tr>
<tr>
<td>2008</td>
<td>BA Pollok Beach light mast installation</td>
<td>R 50 000</td>
<td>Pollok Beach light mast installation, NMBM.</td>
</tr>
<tr>
<td>2008</td>
<td>BA Humewood Road Re-alignment</td>
<td>R 60 000</td>
<td>Humewood Road re-alignment along the S-bend section, NMBM.</td>
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<tr>
<td>2008</td>
<td>SEA Coastline redevelopment</td>
<td>R 250 000</td>
<td>North End Coastline redevelopment SEA, NMBM.</td>
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<tr>
<td>2008</td>
<td>Mzimkhulu River catchment and flood attenuation analysis</td>
<td></td>
<td>Mzimkhulu River catchment and flood attenuation analysis, Umzimkhulu Municipality.</td>
</tr>
</tbody>
</table>
PROJECT EXPERIENCE (continued)

2008  
**PE Paapenkuils River catchment and flood attenuation analysis**
Port Elizabeth Paapenkuils River catchment and flood attenuation analysis, NMBM.

2007 - 2008  
**ECO Mavuso Road Upgrade**
Construction of Mavuso Road in Kwazakhele, NMBM.

2007  
**BA Jagersfontein Chicken Farm**  
Jagersfontein farm 432 commercial production of chicken and operation of an abattoir, Kouga Local Municipality.

2007  
**BA Zwide Roads Upgrade**  
Tarring of roads in Zwide, NMBM.

2007  
**BA McAdam Street Construction**  
Construction and extension of McAdam Street, NMBM.

2007  
**BA Tygerbay Reconstruction**  
Repair and reconstruction of water retaining structures at Tyger Bay EIA NMBM.

2007  
**BA Lorraine Infill development**  
Erf 306 Lorraine Infill development, NMBM.

2007  
**BA Sherwood Roads Upgrade**  
Tarring of roads in Sherwood, NMBM.

2007  
**BA Zwide Roads Upgrade**  
Tarring of Ntsele, Mkutuka, Nanto and Vabaza Streets in Zwide, NMBM.

2007  
**BA Pollok Beach Parking Lot**  
Pollok Beach, Summerstrand, parking lot relocation, NMBM.

2007  
**BA Uitenhage Roads Upgrade**  
Tarring of Dube, Grootboom and Luzipho Streets in Uitenhage, NMBM.

2007  
**BA PE ICC Site Assessment**  
Port Elizabeth International Convention Centre Rapid site assessment, NMBM.

2007  
**BA Sardinia Bay Parking Lot**  
Sardinia Bay car park relocation site assessment, NMBM.

2007  
**EIA Exemptions Applications Motherwell**  
Motherwell/Coega outfall canal upgrade.

2007  
**EIA Exemptions Applications Lorraine Infill Development**  
Erf 17, Lorraine, infill development.

2007  
**EIA Exemptions Applications Korsten Upgrade**  
Korsten Modal Interchange Upgrade.

2007  
**SANRAL outdoor advertising opportunities**  
SANRAL outdoor advertising opportunities in the Eastern Cape, SANRAL.

2007  
**Coega Integrated Stormwater Plan**  
Coega Integrated Stormwater Plan, Coega Development Corporation.
PROJECT EXPERIENCE (continued)

2007  NMMM 2010 World Cup pedestrian Bridges
NMMM 2010 World Cup pedestrian Bridges: Sheya Khulati, NMBM.

2007  Uitenhage Stormwater Master Plan
Uitenhage Stormwater Master Plan, NMBM.

2006  Nelson Mandela Metropolitan University exchange programme
Analyses and identification of nematode collected samples from the Mngazi Estuary in the Eastern Cape (former Transkei), South Africa, University of Ghent, Belgium – Nelson Mandela Metropolitan University exchange programme.

2005 - 2006  Berg River estuary Field Assessment  R 150 000
Hyperbenthos and zooplankton field assessment in Berg River estuary.

2005  Olifants River Reserve Determination study, Western Cape  R 300 000
Specialised field ecologist - Field assessment: subtidal macrozoobenthos, hyperbenthos and zooplankton in Olifants River estuary for the Olifants River Reserve Determination study, Western Cape., Contracted sampling for CSIR Stellenbosch (Environmentek).

2004- 2005  DWAF - Kromme and Seekoei Estuary Catchment Reserve Study  R 200 000
Specialised field ecologist - Kromme and Seekoei Estuary Catchment Reserve Study. Contracted sampling for Department of Water Affairs and Forestry (DWAF).

2003 - 2004  Berg River Baseline Monitoring Program (UCT)  R 350 000
Berg River Baseline Monitoring Program (UCT). Collecting subtidal macrozoobenthos.

2002 - 2006  University of Port Elizabeth Ecological analysis  R4 million
Specialised field ecologist - Field assessment: subtidal macrozoobenthic and hyperbenthic invertebrates, zooplankton, microzooplankton, meiofauna at Mngazi and Mngazana River estuaries.

2002 - 2003  University of Port Elizabeth Ecological analysis
Ecological analysis of the functioning Sundays, Swartkops, Kromme, and Gamtoos estuaries using Ecopath with Ecosim, and assessment of the impact of recreational fishing on these ecosystems. MSc dissertation, University of Port Elizabeth.

2002  Sylt Ecosystem, Germany  R 250 000
Assistant ecosystem modeller - Assisting in preparation and balancing of ecosystem carbon flow models of the Sylt Ecosystem, Germany.

2002  Field assessment: subtidal macrozoobenthos, hyperbenthos and zooplankton in Rooiels  R 400 000
Specialised field ecologist - Field assessment: subtidal macrozoobenthos, hyperbenthos and zooplankton in Rooiels, Palmiet, Heuningnes, Breede, Klein Brak and Kaaimans River estuaries, Western Cape.

2002  Field Assessment - intertidal invertebrates Eastern Cape  R 150 000
Specialised field ecologist - Field assessment: intertidal invertebrates in Kabeljous, Gamtoos, Swartkops, Sundays and Kariga River estuaries, Eastern Cape.
PAPERS, PUBLICATIONS, PRESENTATIONS AND PROFESSIONAL SOCIETIES

PAPERS, PUBLICATIONS


PROFESSIONAL SOCIETIES

1. Member of International Association for Impact Assessment – South Africa (IAIAsa)

2. Registered member of South African Council for Natural Scientific Professions, (SACNASP)

EMPLOYMENT RECORD

<table>
<thead>
<tr>
<th>Year</th>
<th>Institution</th>
<th>Position</th>
</tr>
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<tbody>
<tr>
<td>2013 - Present</td>
<td>Zitholele Consulting</td>
<td>Manager: Licencing and Permitting, Senior Environmental Consultant</td>
</tr>
<tr>
<td>2012</td>
<td>GIBB Engineering and Science</td>
<td>Senior Environmental Scientist</td>
</tr>
<tr>
<td>2007 – 2011</td>
<td>GIBB Engineering and Science</td>
<td>Environmental Scientist</td>
</tr>
<tr>
<td>2008 – 2011</td>
<td>Nelson Mandela Metropolitan University</td>
<td>Postgraduate (part-time) Student</td>
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<tr>
<td>2005 – 2007</td>
<td>Nelson Mandela Metropolitan University</td>
<td>Full time Postgraduate (PhD) Student</td>
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<tr>
<td>2001 - 2003</td>
<td>University of Port Elizabeth</td>
<td>Full time postgraduate (MSc) student</td>
</tr>
<tr>
<td>2006</td>
<td>University of Ghent, Belgium</td>
<td>Exchange Ecologist</td>
</tr>
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