



Professional Registrations:

- (SACNASP) South African Council for Natural Scientific Professions
- (IAIAsa) International Association for Impact Assessment – South Africa
- (SANCOR) South African Network for Coastal and Oceanographic Research.

Occupation:

- Senior Environmental Scientist

Specialisation:

- Environmental and Social Impact Assessments
- Strategic Environmental Assessments
- Estuarine Ecological Assessments
- Project Management and GIS

Education:

- Ph.D., Zoology, 2012 Nelson Mandela Metropolitan University
- M.Sc., Zoology, 2003 University of Port Elizabeth
- B.Sc. Hons, Zoology, 2001 University of Port Elizabeth
- B.Sc., Zoology and Botany, 2000 University of PE

Dr. Mathys Vosloo

KEY EXPERIENCE

Dr. Mathys Vosloo is a well-qualified and technically proficient environmental and natural scientist with more than 10 years scientific research experience and 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, experience in ecosystem and ecological modelling, including the impact of recreational and subsistence fishing on several Eastern Cape estuaries, and ecosystem analysis of two estuaries in the former Transkei area.

PROJECT EXPERIENCE

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| 2015 | Solar Park WULA | R 547 000 |
| | WULA for Solar Park to Nieuwehoop 400 kV power line near Upington, Northern Cape. | |
| 2015 | BA Clanwilliam | R 409 000 |
| | Proposed Re-alignment of the Bulshoek Dam and Doring River Weirs near Clanwilliam, Western Cape. | |
| 2015 | BA Klipspruit Valley | R 244 000 |
| | BA and WULA for the Klipspruit Valley Road Upgrade. | |
| 2014 - 2016 | EIA Koffiefontein Slimes Dam | R1 million |
| | EIA for the new Koffiefontein Slimes Dam Development, Kimberley. | |

PROJECT EXPERIENCE (continued)

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| 2014 - 2015 | BA Kuruman Upgrade | R1.3 million |
| BA for 132kV power line upgrade from Hotazel to Kuruman and Kathu, Northern Cape. | | |
| 2013 - 2016 | EIA Kendal 30 year Ash Disposal Facility | R6 million |
| EIA, WMLA and WULA for a new Ash Disposal Facility for Kendal Power Station near Ogies in Mpumalanga. | | |
| 2013 - 2014 | Design of 3 canals | R 700 000 |
| 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. | | |
| 2013 - 2014 | BA for Vaalbank | R 380 000 |
| Basic Assessment for Vaalbank Switching Station and 2 x 88 kV Powerlines, Free State. | | |
| 2012 - 2015 | EIA Solar Park | R5 million |
| EIA, EMP &WULA for the Solar Park 132/400 kV Sub Station and Associated lines, Northern Cape. | | |
| 2012 - 2015 | Kusile 60 year Ash Disposal Facility | R11 million |
| EIA, WML and WULA for the 60 year Ash Disposal Project near Balmoral in Mpumalanga. | | |
| 2012 - 2015 | WULA Wilge Pipeline | R 900 000 |
| WULA for the sewage and water pipeline from Wilge Township to Phola, Mpumalanga. | | |
| 2012 | BA Kouga Dam Wall | R 250 000 |
| The rehabilitation of the Kouga Dam wall and associated mining activities. | | |
| 2012 | EMP City of Cape Town Stormwater | R1.5 million |
| Maintenance and management interventions undertaken by the City of Cape Town in its surface stormwater systems. | | |
| 2012 | BA Melkhout Powerlines | R 100 000 |
| The installation of 132kV transmission lines from Melkhout to Dieprivier, including the construction of a new substation at Dieprivier, Cacadu District. | | |
| 2012 | BA Diepriver Powerlines | R 100 000 |
| The installation of 132kV transmission lines from Dieprivier to Kareedouw, including the extension of the existing substation at Kareedouw, Cacadu District. | | |
| 2012 | BA Patensie Powerlines | R 100 000 |
| The installation of 132kV transmission lines from Melkhout to Patensie, including the construction of a new substation at Patensie, Cacadu District. | | |
| 2012 | Mmthatha 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. | | |

PROJECT EXPERIENCE (continued)

2010 - 2012 ATTP Flow Limiters installation

NMBM Assistance to the poor (ATTP) and schools leakages repairs and flow limiters installation.

2010 - 2012 ATTP Database Management Flow Limiters installation

R4 million

NMBM 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

R 60 000

The extension of McAdam Street from Worraker to Mangold Street, NMBM.

2009 - 2011 EIA Motherwell Housing Development

R 270 000

Motherwell NU 31 housing development, NMBM.

2009 - 2011 Coega Integrated Stormwater Management Plan

Coega IDZ Eastern Sector Integrated Stormwater Management Plan, Coega Development Corporation.

2009 - 2011 EIA Kouga Wind Farm

R 350 000

Kouga 300 MW wind farm, Kouga Local Municipality.

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.

2009 - 2010 SOER State of the Environment Report

R 350 000

NMBM State of the Environment Report.

2009 - 2010 ISWMP Coega IDZ

R 350 000

Coega IDZ Eastern Sector Integrated Stormwater Management Plan, CDC.

2009 - 2010 SOER Flood Plain and Spatial Analysis

Nelson Mandela Metropolitan Municipality SOER flood plain and spatial analysis, NMBM.

2009 - 2010 EIA – Red Cap Developments

Kouga Local Municipality wind farm development EIA, RedCap Developments.

2008 - 2009 Port Harcourt City Open Space System Plan

Port Harcourt City Open Space System Plan, Government of Nigeria.

2008 - 2009 ECO Kwazakhele stormwater infrastructure

Construction of stormwater detention ponds and upgrading of stormwater infrastructure in Kwazakhele, Phase 3.

PROJECT EXPERIENCE (continued)

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| 2008 | ECO Sherwood Road Upgrade | |
| | Upgrading of Devon and Fairley Roads in Port Elizabeth, NMBM. | |
| 2008 | OR Tambo District Municipality water conservation and demand management | |
| | OR Tambo District Municipality water conservation and demand management. | |
| 2008 | SOER Eden District Municipality | |
| | Eden District Municipality SOER, Eden District Municipality. | |
| 2008 | Kouga Local Municipality catchment and flood attenuation analysis | |
| | Jeffreys Bay Marina Martinique catchment and flood attenuation analysis, Kouga Local Municipality. | |
| 2008 | EIA Bethelsdorp Housing Development | R 230 000 |
| | Bethelsdorp Phase 3 social housing development, NMBM. | |
| 2008 | BA Beacon Maritime Navigational Structure Upgrade | R 60 000 |
| | Beacon maritime navigational structure upgrading, NMBM. | |
| 2008 | BA Moffet Dam Rehabilitation | R 60 000 |
| | Moffet Dam breach remedial works, Kouga Local Municipality. | |
| 2008 | BA Pollok Beach light mast installation | R 50 000 |
| | Pollok Beach light mast installation, NMBM. | |
| 2008 | BA Humewood Road Re-alignment | R 60 000 |
| | Humewood Road re-alignment along the S-bend section, NMBM. | |
| 2008 | SOER Hessequa Local Municipality | R 200 000 |
| | Hessequa Local Municipality State of the Environment Summary Report. | |
| 2008 | SEA Coastline redevelopment | R 250 000 |
| | North End Coastline redevelopment SEA, NMBM. | |
| 2008 | Mzimkhulu River catchment and flood attenuation analysis | |
| | Mzimkhulu River catchment and flood attenuation analysis, Umzimkhulu Municipality. | |
| 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 | R 40 000 |
| | Jagersfontein farm 432 commercial production of chicken and operation of an abattoir, Kouga Local Municipality. | |
| 2007 | BA Zwide Roads Upgrade | R 55 000 |
| | Tarring of roads in Zwide, NMBM. | |
| 2007 | BA McAdam Street Construction | R 40 000 |
| | Construction and extension of McAdam Street, NMBM. | |
| 2007 | BA Tygerbay Reconstruction | R 60 000 |
| | Repair and reconstruction of water retaining structures at Tyger Bay EIA NMBM. | |

PROJECT EXPERIENCE (continued)

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| 2007 | BA Lorraine Infill development Erf 306 Lorraine Infill development, NMBM. | R 40 000 |
| 2007 | BA Sherwood Roads Upgrade Tarring of roads in Sherwood, NMBM. | R 40 000 |
| 2007 | BA Zwide Roads Upgrade Tarring of Ntsele, Mkutuka, Nanto and Vabaza Streets in Zwide, NMBM. | R 40 000 |
| 2007 | BA Pollok Beach Parking Lot Pollok Beach, Summerstrand, parking lot relocation, NMBM. | R 50 000 |
| 2007 | BA Uitenhage Roads Upgrade Tarring of Dube, Grootboom and Luzipho Streets in Uitenhage, NMBM. | R 40 000 |
| 2007 | BA PE ICC Site Assessment Port Elizabeth International Convention Centre Rapid site assessment, NMBM. | R 150 000 |
| 2007 | BA Sardinia Bay Parking Lot Sardinia Bay car park relocation site assessment, NMBM. | R 80 000 |
| 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. | |
| 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 Hyperbenthos and zooplankton field assessment in Berg River estuary. | R 150 000 |
| 2005 | Olifants River Reserve Determination study, Western Cape 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). | R 300 000 |

PROJECT EXPERIENCE (continued)

- 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

1. Vosloo, M.C. 2012. Network analysis of trophic linkages in two sub-tropical estuaries along the south-east coast of South Africa. PhD thesis, Nelson Mandela Metropolitan University.
2. Vosloo, M.C. 2009. Marine and estuarine meiofauna: Contribution to the National Marine Ecosystem Diagnostic Analysis. Agulhas and Somali Current Large Marine Ecosystems.
3. Vosloo, M C and Hendricks, M G J *In Prep*. Marine and estuarine nematodes in southern Africa, Book Chapter. In Plant nematology in Southern Africa. Mc Donald, Fourie, De Waele, Spaul (Eds).
4. Vosloo, M.C. 2004. A comparative assessment of the impact of recreational and subsistence fishing on selected Eastern Cape estuarine ecosystems using the Ecopath modelling approach. MSc Dissertation, University of Port Elizabeth, Port Elizabeth.

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)
3. South African Network for Coastal and Oceanographic Research (SANCOR)

EMPLOYMENT RECORD

| | | |
|----------------|--|--|
| 2013 - Present | Zitholele Consulting | Manager: Licencing and Permitting, Senior Environmental Consultant |
| 2012 | GIBB Engineering and Science | Senior Environmental Scientist |
| 2007 – 2011 | GIBB Engineering and Science | Environmental Scientist |
| 2008 – 2011 | Nelson Mandela Metropolitan University | Postgraduate (part-time) Student |
| 2005 – 2007 | Nelson Mandela Metropolitan University | Full time Postgraduate (PhD) Student |
| 2001 - 2003 | University of Port Elizabeth | Full time postgraduate (MSc) student |
| 2006 | University of Ghent, Belgium | Exchange Ecologist |