

CURRICULUM VITAE

Name: **ANTOINETTE BOOTSMA nee van Wyk**

Name of Firm: Limosella Consulting

Position: Principal Specialist

SACNASP Status: Professional Natural Scientist # 400222-09

Nationality: South African

Marital Status: Married

Languages: Afrikaans (mother tongue), English, basic French

EDUCATIONAL QUALIFICATIONS

- B. Sc (Botany & Zoology), University of South Africa (1997 - 2001)
 - B. Sc (Hons) Botany, University of Pretoria (2003-2005)
 - Short course in wetland delineation, legislation and rehabilitation, University of Pretoria (2007)
 - Short course in wetland soils, Terrasoil Science (2009)
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KEY QUALIFICATIONS

▶ **Sole Proprietor and Principal Specialist**

This entails all aspects of management and scientific investigation associated with a consultancy that focuses on wetland specialist investigations. This includes the following:

- Specialist investigations into wetland and riparian conditions on strategic, as well as fine scale levels in Gauteng, Limpopo, Mpumalanga KwaZulu Natal and the Eastern Cape.
- Maintenance of a network of fellow specialist who can be called upon to provide input where their field of expertise is required.
- Ensuring the scientific integrity of wetland reports including peer review and publications.

▶ **Team Leader – Wetland and Rehabilitation**

This entailed the management of wetland vegetation and rehabilitation related projects in terms of developing proposals, project management, technical investigation and quality control through the following:

- Reviewing of specialist reports as part of the company's Quality Management System, including faunal and floral assessments, aquatic, wetland and rehabilitation reports;
- Riparian Management Plan for Mixed-Use developments in Kagiso, Gauteng. August 2009;

- Rehabilitation Plan for the wetland associated with Heroes Bridge in Soweto. Technical investigation as well as management of a team of specialist, integration of information into a final report. The technical investigation for this project also included an investigation into the occurrence of Red Data vegetation. June 2009;
- Input into the wetland component of the Green Star SA rating system. April 2009;
- Strategic analysis of wetlands in Thohoyandou in conjunction with a strategic vegetation assessment of the area, March 2009;
- Strategic analysis of wetlands in Gauteng for the GDACE Regional Management Framework, August 2008;
- Successful completion of an audit of the wetlands in the City of Johannesburg. Specialist studies as well as project management and integration of independent datasets into a final report. July 2008.

► **Wetland Ecology**

Experience in the delineation and functional assessment of wetlands and riparian areas in order to advise proposed development layouts, project management, report writing and quality control.

Projects demonstrating this experience include:

- Project manager. More than 50 fine scale wetland and ecological assessments in Gauteng, Mpumalanga, KwaZulu Natal, Limpopo and the Western Cape. Liaison with clients, internal and external specialists assigned to projects including billing. April 2007, ongoing.
- Quality Review. Reviewing of specialist studies in the context of scientific defensibility, accuracy of data transfer and the correct use of language and grammar. April 2007, ongoing.
- Wetland specialist. An audit of the wetlands in the City of Johannesburg. Specialist studies as well as project management and integration of independent datasets into a final report. Commenced in August 2007, ongoing.
- Wetland specialist. A strategic assessment of wetlands in Gauteng to inform the GDACE Regional Environmental Management Framework. June 2008.
- Wetland specialist. As assessment of wetlands in southern Mozambique. This involved a detailed analysis of the vegetation composition and sensitivity associated with wetlands and swamp forest in order to inform the development layout of a proposed resort. May 2008.
- Wetland specialist. An assessment of three wetlands in the Highlands of Lesotho. This involved a detailed assessment of the value of the study sites in terms of functionality and rehabilitation opportunities. Integration of the specialist reports socio economic, aquatic, terrestrial and wetland ecology studies into a final synthesis. May 2007.
- Ecologist. Ecological studies on a strategic scale to inform an Environmental Management Framework for the Emakazeni Municipality and an Integrated Environmental Management Program for the Emalahleni Municipality. May and June 2007

▶ **Conservation ecology**

Experience in the implementation and management of projects related to long and short term studies on impacts and rehabilitation in a mining environment.

Projects demonstrating this experience include:

- Principal investigator. Species assemblages in the woody vegetation communities of coastal dune forests between the Umfolozi and Umlalazi rivers. This relates to colonisation trends across disturbance and rehabilitation age gradients, including aspects such as seed ecology and phenology. 2006/7
- Principal investigator. Biodiversity of the coastal dune forests and associated habitats in Richards Bay, particularly on the epiphytic orchids and ferns found on the mineral lease area of Richards Bay Minerals. 2006
- Technical assistant. Biodiversity of the coastal dune forests and associated habitats in Richards Bay, particularly on the herpetofauna found on the mineral lease area of Richards Bay Minerals. 2006
- Principal investigator. Baseline vegetation, and topsoil maps for Richards Bay Minerals' Zulti South lease area. 2005/6
- Technical assistant. A species list of woody and herbaceous plants of the Sekhukhune area. 2005
- Principal investigator. A phytosociological study of vegetation associated with the wetlands of Lake Chrissie, Mpumalanga. 2004

▶ **Environmental Controlling Officer:**

I was responsible for the environmental monitoring of the impact on sensitive areas during the construction of a new Sea Rescue Base in Richards Bay, including a Mangrove stand

▶ **Presentations:**

- City of Johannesburg Wetland Audit. Stakeholder workshop. 2007.
- The woody plant communities of coastal dune forests. South African Wildlife Management Association. 2006

- A phytosociological study of vegetation associated with the wetlands of Lake Chrissie, Mpumalanga. 2004.

▶ **Publications:**

- Haagner, A.S.H., van Wyk, A.A. & Wassenaar, T.D. 2006. *The biodiversity of herpetofauna of the Richards Bay Minerals leases*. CERU Technical Report 32. University of Pretoria.
- van Wyk, A.A., Wassenaar, T.D. 2006. *The biodiversity of epiphytic plants of the Richards Bay Minerals leases*. CERU Technical Report 33. University of Pretoria.
- Wassenaar, T.D., van Wyk, A.A., Haagner, A.S.H, & van Aarde, R.J.H. 2006. *Report on an Ecological Baseline Survey of Zulti South Lease for Richards Bay Minerals*. CERU Technical Report 29. University of Pretoria

MEMBERSHIPS IN SOCIETIES

- Botanical Society of South African (Member of the committee)
- Custodians of Rare and Endangered Wildflowers
- South African Soil Surveyors Organisation
- Gauteng Wetland Forum (Member of the committee)

EMPLOYMENT EXPERIENCE

- ▶ **Sole Proprietor – Limosella Consulting** (November 2009 - Ongoing) Tasks include:
- Wetland delineation studies, opinions and functional assessments including data collection and analysis.
 - Correspondence with stakeholders, clients, authorities and specialists.
 - Presentations to stakeholders, clients and specialists.
 - Marketing.
 - Writing project proposals, costings and progress reports.
 - Project management.
- ▶ **Wetland Scientist: Strategic Environmental Focus** (April 2007 – September 2009) Tasks include:
- Wetland delineation studies, opinions and functional assessments including data collection and analysis.
 - Correspondence with stakeholders, clients, authorities and specialists.
 - Presentations to stakeholders, clients and specialists.
 - Writing project proposals, costings and progress reports.
 - Project management.

- ▶ **Technical Assistant: Conservation Ecology Research Unit, University of Pretoria (April 2005 – March 2007)** Tasks include:
 - Identifying research methods and outcomes.
 - Writing project proposals and progress reports.
 - Planning and executing of fieldwork.
 - Analysis of data.
 - GIS spatial representation.
 - Submission of technical reports containing management recommendations.
 - General management of the research station and herbarium.
 - Supervise the activities of field assistants and technical assistants.

- ▶ **ECO: nDawonywe Independent Environmental Consultants (August 2006 – March 2007)** Tasks include:
 - Regular site visits.
 - Attendance of monthly meetings
 - Submission of monthly reports.

- ▶ **Technical Assistant: Greengrowth Development (May 2005 – August 2005)** Tasks include:
 - Literature review
 - Compilation of species lists.