

CONSULTING EXPERIENCE

Environmental consulting experience as project manager or team member is broad and covers a number of key areas. Specific experience includes the following:

Environmental Impact Assessment and pre-feasibility assessments

- Environmental assessment of the impact of the breach of a slimes settling pond for a corporate client
- EIA for Waainek wind energy facility outside Grahamstown (Eastern Cape)
- EIA for 1 million m³ per year sugarcane-to-ethanol biofuel development (Chemba, Mozambique)
- Scoping study for one large wind farm near Cookhouse (Eastern Cape)
- Environmental pre-feasibility assessment for 14 wind farms in the Western Cape, South Africa
- Basic Environmental Assessment for a 3MW wood to energy project near Grahamstown (Eastern Cape)
- Basic Environmental Assessments for wind measurement masts and cattle feedlot
- EIA for the proposed Exxaro AlloyStream and Kalagadi manganese smelters in the Coega IDZ
- Environmental Impact Assessment of the proposed regional hazardous waste site (Port Elizabeth, Eastern Cape)
- Environmental Scoping study and EMPR amendment for proposed salt mining and beneficiation plant (Coega IDZ, Eastern Cape)
- Scoping-level environmental assessment for a stainless steel strip mill (Coega IDZ, Eastern Cape)

Strategic Environmental Assessment

- Scoping-level Strategic Environmental Assessment (SEA) for the Port of Mossel Bay as well as contributions to the SEAs for the Ports of Port Elizabeth and East London

Climate change

- Climate change adaptation and mitigation policy for the Eastern Cape Province, South Africa (ongoing)
- Preliminary carbon footprint assessment for Kenmare Moma Heavy Mineral Sands Mine, Mozambique
- Climate change risk assessment for the South African Ports (TNPA)

Waste Management

- Waste management specialist studies for international heavy mineral mining, projects (Egypt and Madagascar), the Exxaro and Kalagadi manganese smelters (South Africa), a Rabai power station (Kenya) and two bio-ethanol projects (Sierra Leone and Mozambique)
- Integrated Waste Management Plan for the Port of Mossel Bay
- Development of strategies and biological systems for the treatment and beneficiation of domestic grey water within the Scenery Park low-cost “eco-village” (Buffalo City, Eastern Cape)

Environmental Due Diligence and Business Risk

- Environmental and social due diligence assessment for a pulp mill and forest plantation on behalf of the German Development Bank (DEG)
- Environmental risk assessment of alternative bunkering modes for the Port of Port Elizabeth (PE, Eastern Cape)
- Environmental risk assessment for private developer on the west coast, South Africa
- Environmental liability assessment for the Port of Durban

- Environmental due diligence (Phase 1 and 2) assessment for Zones 5 and 6 of the Coega Industrial Development Zone
- Phase 1 and 2 contaminated land assessments for a private manufacturer and one parastatal organization

Policy and Guidelines

- Development of a municipal sanitation policy for Buffalo City Municipality
- Development of EIA guidelines for the Roundtable on Sustainable Biofuels

Environmental Auditing and compliance

- Project management of the environmental component of the Completion Test for Kenmare heavy mineral mining project, Mozambique.
- IFC Performance Standards deviation assessment for Kenmare heavy mineral mining project, Mozambique
- Environmental audit for mechanical sugarcane harvesting operation, Swaziland
- Development, implementation and auditing of industry-specific environmental management system for brick manufacturing companies in the Eastern cape, South Africa
- Internal ISO 14001 audits at SAB Ibhayi Brewery (Port Elizabeth, Eastern Cape)
- Trainee Auditor: Certification audit of car component manufacturer

RESEARCH & TEACHING EXPERIENCE

I have successfully supervised 3 PhD, 6 research and 15 coursework MSc / MBA students. Research has been published in peer-reviewed journals and presented at conferences. A full list of publications is available upon request. Areas of research include environmental biotechnology, integrated waste management and environmental management in business. From 2001 – 2003 I was responsible for coordinating the Environmental biotechnology MSc programme (Department of Biotechnology, Rhodes University) where I taught bioremediation. I have also taught environmental management and integrated pollution & waste management at the undergraduate and Honours level for the Department of Environmental Science (2004 – present) and have taught extensively on the Rhodes University MBA programme (2004 – present). Subjects taught at the MBA level include business and sustainable development, environmental risk assessment, technology assessment, life cycle assessment and climate change risk.

THOMAS KING

Languages: English (Good), Afrikaans (Fair)
Date of Birth: 13 October 1987

QUALIFICATIONS

- **Bachelor of Science with Honours (Biodiversity and Conservation)**

- Rhodes University, South Africa, 2010.
- Thesis title: Extent of subtropical thicket degradation after heavy grazing by ostriches: A baseline study to assess natural recovery.
- Subjects studied: Diversity rarity and endemism, Geographical information systems, Statistics, Rehabilitation ecology, Community based natural resource management.
- Skills acquired include: Thesis writing, reading and understanding scientific papers, experimental design, data collection, essay writing.
- Extracurricular activities: Volunteer work at SPCA, rugby.

- **Bachelor of Science (Zoology)**

- University of Pretoria, South Africa, 2007-2009
- Subjects studied: Statistics, Botany, Chemistry, Genetics, Microbiology, Physics, Mathematics, Zoology, Biochemistry, Animal Science, Ecology.
- Skills acquired include: Time management, computer competency, academic writing, and positive studying habits.
- Extracurricular activities: Community engagement (JOOL), rugby.

EMPLOYMENT EXPERIENCE

- **Workshop Assistant, *On the Road Again***

- December 2009 – January 2010
- Responsibilities: Vehicle maintenance, problem diagnosis, part changes.
- Skills learnt: Knowledge of how a vehicle works, common problems and their solutions, maintenance for optimum performance.
- Reference: Gerard van der Merwe (Manager/Owner), *On the Road Again*, +27 (0) 46 72 941 0900.

- **Field Assistant, *Remote Exploration Services***

- March –December 2006
- Responsibilities: As a field assistant it was my responsibility to organise all my important documents (for example: passports and vaccination certificates) to ensure a successful border crossing. Once within the country of operation it was our teams' responsibility to navigate to the necessary site using GPS's and to negotiate with local chiefs or leaders to allow to us to conduct a mineral survey within their district. Once a base camp was established, it was our responsibility to hire translators and to organise bearers and labourers that would assist us to reach our target sites and collect minerals for analysis. Using 4x4 vehicles, our feet and GPSs we would reach our site and conduct the survey. Labour would be organised to conduct the sieving and digging and then the carrying.
- Skills learnt: Leadership (managing labourers in inhospitable environments), time management, keeping calm in dangerous or tense situations, mental and physical toughness to operate in the harsh conditions.
- Reference: Brett van Coller (Supervisor), *Remote Exploration Services*, +27 (0) 21 531 3162

- **Junior GIS Technician, *Conservation Support Services***

- January-March 2011

- Responsibilities: 1:50000 map updates in Mpumalanga, Free State, Kwazulu-Natal. Dealing with clients; determining what they want; creating and printing maps.
- Skills learnt: Data management, client handling.
- Reference: Ben Cobbing (Director), *Conservation Support Services*, +27 (0) 46 622 4526