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ELBI BREDEKAMP

Certified Professional Scientist (Pr.Sci.Nat. 400328/11) (SACNASP), Certified Carbon Footprint Assessor(CPSA), ISO 14064-3 International Standards Carbon Verifier
M.Sc Botany – University of the Free State (Cum Laude) (1994), ISO 14064-1/2/3/4 - Carbon Action (UK) Courses completed in England & Ireland on Carbon Footprint measuring and verification (2010)

QUALIFICATIONS

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| 1997 – 1999: | Mineral Laws Administration and Environmental Management Principles of the Rehabilitation of Disturbed Areas Environmental Impact Assessment Environmental Management Systems (SABS/ISO 14001) Environmental Policy and Management in Mining and Mineral The Measurement of Biodiversity | University of Pretoria University of the North-West University of the North-West University of the North-West University of Johannesburg University of the Free State |
| 2000 – 2002: | Principles of EIA Review Course Conflict Management Environmental Law | US EPA, in Pretoria Durban Aldo Leyboldt Institute, Pretoria |

WORK EXPERIENCE

- 1996:** **Department of Minerals and Energy, Free State: Case Officer**
- Served as a listed Environmental Specialist with the Department of Minerals and Energy gaining an extensive knowledge of mining impact and attributing management mechanisms.
 - Expertise were developed in rehabilitation, monitoring, reviewing and approval of EMPR's, field inspections, evaluating closure plans for mines, legal implications in the event of non-compliance, as well as slime dams and associated impact evaluation.
 - Project involvement was achieved through public participation processes, consultation phases, planning to incorporate environmental aspects, the evaluation of the environmental impact assessments, the compilation of conditions of approval and through the evaluation of the environmental management plans.
- 1997 – 2002:** **Department of Tourism, Environment and Economic Affairs, Free State (DTEEA-FS): Case Officer**
- Worked as a Case Officer reviewing Environmental Impact Assessments
 - Development of department administrative processes & organizational structures
 - Interprovincial department liaison work
 - Streamlining of report review processes
 - Through ongoing dealings with Environmental Legislation, an intimate familiarization with the National Environment Management Act (Act 107 of 1998 "NEMA") and NEMA EIA Regulations Government Notices 385, 386, 387 promulgated in terms of chapter 5 of NEMA, 1998 was achieved.

2002 – Today: Director and Carbon Verifier at Enviroworks Consultancy, National

- Extensive experience in the conducting of Environmental Impact Assessments, Risk Analysis, Auditing and Monitoring and Compiling of Environmental Management Plans. A familiarity with departmental mechanisms and functioning aided towards the success of these projects.
- An ongoing involvement with IAIA (International Association of Impact Assessments), led to key involvement in the holding of workshops between the then Department of Environmental Affairs and Tourism, applicants and consultants to discuss capacity constraints and enhance the assessment process. Contributed largely from a consultant standpoint.

Under the direction of Elbi, Enviroworks expanded to provide numerous services in the fields of soil, water, plants and waste.

- **Notable Public Sector Projects** have included the assessment for the construction of a Weir structure at Oranjedraai; Rehabilitation work for Nuwejaarspruit; the assessment for a Vulture Hide at Golden Gate National Park and development of eco-tourism facilities at the Golden Gate National Park Mountain Retreat; assessment as to the explanation of tourism facilities at Basotho Cultural Village and for the installation of a diesel tank in Qwa-Qwa for the Department of Arts and Culture; the review of 371 Section 24G applications on behalf of the DTEEA-FS.
- **Notable Private Sector Projects** comprise the completion of EIAs and water licence application for the Neotel Long-Haul Fibre Optic network between Johannesburg and Cape Town; EIAs of communication infrastructure for MTN, Cell C and Vodacom in the Free State and Western Cape; EIA's for the construction of Eskom Powerlines and Substation Nationally; management and business plans for the management and breeding of large predators in captivity in the Free State; EIA's for the construction of gauging weirs Nationally; EIA's for the construction of Residential developments Nationally; as well as Mining EMP's, Archaeological Assessments, Eco-tourism EIA's, risk assessments, Agricultural Upgrading and development, Waste handling and NEMA 24G Applications.

2010 – Today: Expansion into the Carbon Management Sector

In 2010, Elbi travelled to London and Cork to obtain training and certification with the ISO 14064 (1-4) standards on Greenhouse Gas Management. A consultancy partner to the Carbon Disclosure Project and member of the Carbon Protocol of South Africa, Elbi has developed an impressive spectrum of services ranging from carbon disclosure and verification to carbon footprinting, the provision of awareness workshops and emission reduction projects. A further network of international industry specialists (notably chemical and industrial engineers as well as carbon and energy experts) has been established to ensure service excellence and global standards are maintained.

PROJECT MANAGEMENT

- Handling and streamlining of Environmental Impact Assessment processes between the project consultant and Afridevo (the client), Metismatala and Xun & Khwe Solar Farms, Northern Cape;
- Coordination of project Environmental Control Officers for monitoring, auditing and induction provisions, for the installation of optic fibre cable between Cape Town and Johannesburg (N12, N8 and N1), Neotel Business Service Systems (NBSS);
- Project Management of Environmental Impact Assessment and Environmental Control Officers, for the installation of optic fibre cable, between Durbanville and Yzerfontein, via Atlantis and Darling and between Yzerfontein and Melkbosstrand, via the R27, Dark Fibre Africa;
- Provision of Environmental Impact Assessment and Environmental Control Officer services for the planning and construction of a 154km powerline, Eskom Central Region;
- Project management and coordination of Environmental Impact Assessment and Environmental Control Officer services for the planning and construction of the Kruisvallei Hydropower facility,

PROFESSIONAL ASSOCIATIONS

Elbi is associated with the following organizations:

- Member of the IAIA (International Association of Impact Assessors)
- Accredited Consultancy Partner with the Carbon Disclosure Project
- Member of the Carbon Protocol of South Africa
- Preferred supplier with the Financial Mail Green Business Guide
- Registered as a Professional Natural Scientist with the South African Council for Natural Scientific Professions

ACHIEVEMENTS

- Masters in Botany – Prize for best MSc Dissertation, Department of Botany and Genetics, University of the Free State
- Masters in Botany - Deans Metal (Best Magister Student), Department of Botany and Genetics, University of the Free State
- Z2A 3 – Gencor – Bronze Metal (Best MSc Thesis, Department of Botany and Genetics, University of the Free State.
- Overall winner of the Free State arm of the Small Enterprise Development Agency (SEDA) Small Business Stars 2011 competition.