



Zinzi Portia Xakayi

Environmental Consultant

Summary

Zinzi is an environmental consultant at Zutari. She has experience in the compilation of environmental management programmes (EMPrs), basic assessment reports (BARs), and environmental screening reports. She has also assisted in undertaking public participation processes for renewable energy projects.

Zinzi has previous working experience in geo-informatics and geographic information systems (GIS). She has two years of experience working with GIS, which she has gained whilst working on projects for the private sector. She has specialised in spatial analysis, data processing and mapping, while her technical responsibilities include inter alia the evaluation of data, digitising, editing, and converting spatial data and non-spatial data from various formats and manipulating data in Esri ArcMap, GeoMedia and QGIS.

Since joining Zutari, she has worked extensively on renewable energy projects, during which she assisted in compiling basic assessment reports, environmental management programmes and undertaking the public participation process. She is also involved in various feasibility screenings for photovoltaic (solar PV) projects in Limpopo and works as an environmental compliance officer (ECO) for green buildings projects in Gauteng.

Relevant experience

Strengthening of TR1/1, South Africa, Western Cape, Provincial Government of the Western Cape (PGWC): Department of Transport and Public Works (DTPW), 06/2018 - 01/2026, Environmental Consultant

Zutari was appointed by the Department of Transport and Public Works: Roads Infrastructure Branch of the Western Cape Government (WCG) to undertake full engineering services of the strengthening of TR1/1 – George to Oudtshoorn. Zutari provided advice on the scope of work and also provided design input and deliverables to the client, as well as procurement and contract administration. Responsible for finalising the final basic assessment report for submission to the competent authority.

God's Window Skywalk, South Africa, Mpumalanga, Motsamay Tourism Group (Pty) Ltd, 08/2021 - 06/2025, Environmental Consultant

Zutari was appointed to conduct an environmental impact assessment (EIA) and water use licence application (WULA) for the proposed construction of a skywalk and skybridge at God's Window in the Mpumalanga Province. These services are to ensure compliance with the National Environmental Management Act (Act No. 107 of 1998) (NEMA), National Water Act, 1998, as well as other associated or required environmental authorisations. Responsible for compiling the project EMPr and coordinating the public participation process for the basic assessment process.

New Pacaltsdorp reservoir, tower and pump station, South Africa, Western Cape, George Local Municipality, 03/2022 - 06/2024, GIS Consultant

To address the inadequate security of potable water supply in Pacaltsdorp (West), George Municipality required the construction of a new reservoir and pumpstation. Zutari's scope of works entail the management and design for the new 2.5 Ml reinforced concrete reservoir, tower, pump station and interconnecting pipework as well as the design of a new supply main should the existing 315mm Ø supply main be found inadequate. This also includes the management of the documentation and procurement of contractor/s for the civil, mechanical and electrical works; contract administration and site supervision. Responsible for producing maps.

Environmental impact assessment (EIA) and water use licence application (WULA) for the proposed Bierspruit Opencast development at the Amandelbult mine complex, South Africa, Limpopo, Rustenburg Platinum Mines, 03/2019 - 06/2024, Environmental Consultant

Qualifications

BSc (Hons) Geography and Environmental Science
BSc Geography

Professional registrations

Member, Golden Key International Honour Society (GKIHS)
Member, Geo-Information Society of South Africa (GISSA)
Member, International Association for Impact Assessment (IAIA)

Specialisation

Geographic information systems (GIS) and telecommunication masts

Years in industry

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Zutari was appointed to conduct an environmental impact assessment and water use licence application for the proposed Bierspruit Opencast development at the Amandelbult mine complex near Thabazimbi in the Limpopo Province. Responsible for assisting with coordinating the public participation process and stakeholder engagement.

Cato Ridge environmental impact assessment (EIA), South Africa, KwaZulu-Natal, Cato Ridge Development Company Ltd, 07/2021 - 12/2023, Environmental Consultant

The Cato Ridge Development is an initiative of the land holder to strategically release land on commercial terms to end users and developers for the development of a large-scale logistics hub and intermodal transport facility. The land holdings comprise 1885 ha of land that is strategically located with high potential for development. Responsible for adapting the impact assessment tables from various specialist reports into the draft EIAR.

Anglo American prefeasibility studies, South Africa, Botswana, Namibia and Zimbabwe, Anglo Corporate Services SA, 07/2021 - 12/2023, Environmental Consultant

Anglo American is aiming for carbon neutrality by 2040 and appointed Zutari for technical advisory services to develop an energy strategy for its sites in South Africa, Botswana, Namibia, and Zimbabwe. This strategy needs to provide a procurement perspective per site, in consideration on certain scenarios and criteria to be taken into account, among others: capacity and energy availability, finance, reliability, changing energy landscape, etc. based on taking all the criteria into account. Responsible for undertaking a due diligence exercise for the Great Kei WEF and the Ngxwabangu site.

Environmentally sustainable design (ESD) for KSB Pumps, South Africa, Gauteng, Messaris Wapenaar Consulting Service, 08/2022 - 11/2023, Environmental Control Officer (ECO)

Zutari was appointed for environmentally sustainable design (ESD) services for the major refurbishment of a 2 500 m² office development in Johannesburg to achieve Green Star Certification. Responsible as Environmental Control Officer (ECO), which included monthly auditing for compliance to environmental requirements according to Man-6 Sustainability Green building criteria.

Waste management support, South Africa, Limpopo, Rustenburg Platinum Mines, 07/2021 - 06/2023, Environmental Compliance Officer

Zutari was appointed to assess the waste management practices at Mogalakwena Mine to make recommendations for improvement. This included developing a Waste Management Plan (WMP); conducting site assessments for both internal and external waste facilities including contractors; developing a waste inventory as well as developing and conducting training for four levels within the operations for Mogalakwena Complex (MC). Responsible for conducting an environmental assessment (EA) and environmental management programme (EMPr) audit for the Mogalakwena Fuel Depot.

Improvement and management of gravel roads, South Africa, Western Cape, Provincial Government of the Western Cape (PGWC): Department of Transport and Public Works (DTPW), 05/2020 - 05/2023, Environmental Consultant

Zutari was appointed to assist with the material supply and planning, design and control aspects for the maintenance of gravel roads in the Central Karoo and Eden District Municipalities. Services include engineering geology, environmental studies, materials source identification and project management. Responsible for assisting with closure applications, compiling closure plans and environmental risk reports.

Kokerboom 2, South Africa, Business Venture Investments No 178, 01/2015 - 04/2023, Environmental Consultant

Zutari was appointed by Business Venture Investments, as the independent environmental assessment practitioner to undertake the Part 1 Amendment in terms of the 2014 Environmental Impact Assessment (EIA) Regulations of 2014 (Regulation 29(a)) (as amended) pursuant to the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA). Responsible for coordinating the Public Participation Process and undertaking the part 1 amendment process.

Upgrading of Marakabei-Monontša road, Lesotho, China Geo-Engineering Corporation Lesotho (Pty) Ltd (China Geo), 01/2019 - 04/2023, Environmental Consultant

Zutari is assisting the Lesotho Government in improving the way of life for its citizens, this time by providing detailed design services for the upgrading of Marakabei-Monontša road in Butha-Buthe District of northern Lesotho. As project designer to the Design and Build Contractor, China Geo, Zutari is delivering detailed design, including geometric, materials and pavement design, as well as geotechnical investigations for the road, the bridge and the accompanying drainage structures. Responsible for auditing the construction site and writing an addendum report to the existing environmental management programme (EMPr).

Ilanga Emoyeni, South Africa, Windlab Developments South Africa, 04/2022 - 03/2023, Environmental Consultant

Windlab Developments South Africa (Pty) Ltd appointed Zutari as the independent environmental assessment practitioner (EAP) to undertake the applications for Environmental Authorisation (EA) in terms of the National Environmental Management Act (Act No 107 of 1998) (NEMA) and its Environmental Impact Assessment (EIA)

Regulations (2014 as amended in 2017). Responsible for compiling basic assessment reports for Ilanga Emoyeni PV2 and PV3 and the environmental management programmes (EMPr) for the Ilanga Emoyeni Solar Suite.

Environmental and social impact assessment (ESIA) for Serengeti Energy Baoma Project Phase II, Sierra Leone, CEMMATS Group Limited, 09/2022 - 01/2023, Environmental Consultant

Serengeti Energy contracted CEMMATS Group Ltd, in association with Zutari, to conduct an Environmental and social impact assessment (ESIA) study for its solar power plant construction and operation. Responsible for ensuring that all the relevant documents are reviewed, according to the IFC performance standards, by the different specialists.

Seriti KHU Coal Improvement, South Africa, Mpumalanga, Seriti Power (Pty) Ltd, 01/2022 - 12/2022, Environmental Consultant

Zutari was appointed to undertake a coal quality improvement pre-feasibility study (PFS) to further develop the options identified by the concept study and select a go-forward case that is sustainable and cost-effective as an option that would provide the Kendal "240" quality specification from the Khutala complex and supplementary Seriti Power equity coal. Responsible for environmental screening.

Sibanye photovoltaic plant: amendment of environmental authorisation (EA), South Africa, Gauteng, Sibanye Gold Limited, 08/2021 - 12/2022, Environmental Consultant

Zutari was appointed to amend conditions of the environmental authorisations (EAs) for the Sibanye Gold solar PV plant and associated powerlines that were issued in 2017. These processes include ecological walkdown assessments of the solar PV plant and powerlines, revision of the environmental management plans for both components, and an application for a basic assessment to authorise an additional EIA "listed activity". Responsible for compiling the basic assessment report (BAR), environmental management programme (EMPr) and public participation documentation.

Water feasibility study for a combined treatment plant at Arnot Coal Mine closed colliery, South Africa, Seriti Coal (Pty) Ltd, 01/2020 - 10/2022, Environmental Consultant

Zutari was appointed to undertake a feasibility study for further definition of the integrated water management plan (IWMP) for the collection of excess water and the treatment and discharge of reclaimed water from the Arnot mining area, as well as the management of all waste material produced due to the implementation of the IWMP. Responsible for the compilation of the DW901, DW902, and Section 21(A) water use licence applications (WULAs) on the Electronic Water Use Licence Application and Authorisation System (e-WULAAS).

Simba CM Projects, South Africa, Simba (Pty) Ltd, 05/2021 - 10/2022, Environmental Consultant

Zutari was appointed to undertake an impact assessment process is to identify, assess and report on any potential impacts that the proposed project may have on the receiving environment, if implemented. The investigation outcome described how impacts on the biophysical and socio-economic environment can be, as far as possible, enhanced or mitigated and managed as the case may be. Responsible for compiling a NEMA inquiry for the Shakaskraal IP to CNG piping burner modifications.

Housing maintenance at Mogalakwena Mine, South Africa, Rustenburg Platinum Mines, 10/2021 - 09/2022, Social People Assistant

Zutari was appointed to undertake condition assessments of mining houses for the community living the Ga-Puka village and working at the Mogalakwena Mine. Responsible for conducting condition assessments.

Traffic impact assessment (TIA) for a solar photovoltaic (PV) plant at Mogalakwena Mine, South Africa, Rustenburg Platinum Mines, 07/2020 - 04/2022, Environmental Consultant

Zutari was appointed to undertake a traffic impact assessment (TIA) for a proposed 70-90 MW solar farm at Mogalakwena Mine in the Limpopo Province. The TIA was undertaken as part of an application for an environmental authorisation scoping phase of the legislated impact assessment process. Responsible for compiling sub-consultancy agreements for specialists, public participation documents and authorisation reports for submission to the competent authority.

Venetia Diamond Mine independent power producer (IPP) project, South Africa, Cresco Project Finance, 04/2021 - 04/2022, Environmental Consultant

Zutari was appointed as the environmental assessment practitioner (EAP) to undertake the application for an environmental authorisation for an independent power producer (IPP) for Venetia Diamond Mine in Limpopo. Responsible for assisting with the public participation process (PPP) during the environmental implementation review (EIR) phase and assisting with the compilation of the environmental management programme (EMPr) report.