

## Marissa Botha (Pr.Sci.Nat)

ENVIRONMENTAL SCIENTIST

SACNASP Reg. 117526

### Contact Details



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Thabazimbi, Limpopo Province

### Personal Details

**Firm:** Naledzi Environmental Consultants (Pty) Ltd

**Position:** Senior Environmental Assessment Practitioner, Project Manager

**Years' Experience:** 18 Years

**Years with Firm:** 14 Years

### Professional Membership/s:

Registered Environmental Scientist with the South African Council for Natural Scientific Professions (SACNASP)

**SACNASP Reg. number:** 117526

**Language:** Afrikaans, English

## Profile

Marissa Botha is an environmental scientist with Naledzi Environmental Consultants (Pty) Ltd, a consulting firm based in Polokwane in the Limpopo Province of South Africa. Marissa joined Naledzi in mid-2007. She is a Professional Environmental Scientist registered with South African Council for Natural Scientific Professions (SACNASP) (registration number 117526) with 18 years working experience in the environmental management industry. She started her career in 2004 at Ecotechnik Environmental Consultants, a small consulting firm in Nelspruit, as an administrative assistant which later grew to a Junior Environmental Assessment Practitioner. In 2005 she moved to Enpact Environmental Consultants CC as a Junior EAP concentrating mostly on residential development EIA Studies. In 2007 she moved to Naledzi seeking a greater diversity of projects. Her work at Naledzi primarily focuses on Environmental Authorisation Processes (Basic Assessments, Environmental Impact Assessments, Environmental Management Plans, and Water Use License Applications Waste Management Licenses), Stakeholder engagement and Atmospheric Emission License Postponement Applications in terms of the South African Legislative Framework. Marissa has participated in multitude of projects ranging from mining, rail infrastructure, residential, mixed land use developments, industrial development, sports complex, electricity-and water supply, roads, education institutions, wastewater treatment plant, hospital, cemetery, waste facilities including renewable energy projects.

## Expertise

- Preparation of proposals / tenders
- Project and Budget Management
- Mining Right, Mining Permit and Prospecting Right Applications
- Basic Assessment process, Scoping and Environmental Impact Assessment
- Environmental Management Programmes
- Environmental Authorisations (incl. Waste Management Licenses)
- Water Use License Application Procedures
- GIS (Environmental Sensitivity Mapping, buffer zones, no go zones)
- Public Participation Processes / Stakeholder Engagement
- Ecological Screening -, Environmental Screening -, Site Verification Reports
- Wetland Delineation and Assessment

## Key Qualifications

18 Years' experience in:

- Integrated Environmental Management
- Project management of minor to large scale projects
- Working knowledge of environmental legislation and regulations

## Registration/Accreditation/Certificates /Training

**Registered Natural Scientist / Environmental Scientist:** SACNASP Registration: 117526 (Recognition of Prior Learning)

**Rhodes University, Department of Geography, Tools for Wetland Assessment:** Competent in Wetland Assessment in 2021

**Certificate in Introduction to Wetland Delineation,** Department of Water & Sanitation (former Water Affairs) in 2004

**Certificate in Geographic Information Systems (GIS),** Planet GIS, Lynnwood Pretoria in 2008

## Professional Experience

Year	Firm	Position held
2007-Present	Naledzi Environmental Consultants Pty Ltd - (Rustenburg, Polokwane, Thabazimbi)	Senior EAP, Project Manager
2005-2007	Enpact Environmental Consultants CC Nelspruit (Mbombela)	Junior EAP
2004-2005	Ecotechnik Environmental Consultants CC - Nelspruit (Mbombela)	Junior EAP, Receptionist, Assistant to Senior EAP

**MARISSA BOTHA – PROJECT EXPERIENCE /RECORD**

Date	Client	Description	Locality
<b>STRATEGIC PROJECTS</b>			
2021 - 2022	Eskom Holdings SOC Limited  (Air Quality Centre of Excellence)	Waterberg Cost Benefit Analysis - Conduct Health impact focussed cost-benefit analysis to show the cost and benefit of implementing alternative emission reduction technologies at Medupi and Matimba power station. Naledzi Environmental Consultants Pty Ltd is working alongside Prime Africa Consult (Pty) Ltd (resource economics and environmental management firm).  Responsibilities: Project lead, project management, programme management, management of specialist (Prime Africa). The project has just been commissioned and is in progress.	Lephalale, Waterberg District, South Africa
2020	Eskom Holdings SOC Limited  (Air Quality Centre of Excellence)  (Decision pending)	Application for Suspension of the Minimum Emission Standards (MES) New Plant Emission Limits and Compliance Timeframes for NOx and SO <sub>2</sub> for Grootvlei Power Station. The project entailed conducting an Atmospheric Impact Assessment and associated public participation process. Eskom prepared the motivation for the application. Naledzi Environmental Consultants Pty Ltd is working alongside Prime Africa Consult (Pty) Ltd (resource economics and environmental management firm) to complete the project.  Responsibilities: Project and schedule management, management of specialists including conducting the public participation process and submitting the application to the National Air Quality Officer.	Balfour, Gert Sibande District, Mpumalanga Province
2018-2019	Eskom Holdings SOC Limited  (Air Quality Centre of Excellence)  (Decision pending)	Application for the Postponement of the Minimum Emission Standards (MES) for Eskom's coal-fired power stations located in the Vaal - and Mpumalanga Highveld Region. The project entailed a Health impact focussed cost-benefit analysis, Individual Atmospheric Impact Assessments for each power station including a Cumulative Atmospheric Impact Assessment for the Mpumalanga Highveld and Vaal Region inclusive of a broad public participation process for all application areas. Naledzi Environmental Consultants was the principle consultant working with a multidisciplinary team of specialists (Prime Africa, SES Solutions, uMoya Nilu) on the project. SES Solutions conducted majority	Lethabo Power Station, Sasolburg, Vaal Region, Fezile Dabi District, Free State Province  Arnot, Duvha, Hendrina, Kendal, Komati, Kriel and Matla Power Stations, Nkangala District, Mpumalanga Province.  Majuba and Camden Power Stations in the Gert Sibande District, Mpumalanga

		<p>of the project management and instructions to specialists.</p> <p>Responsibility: Manage and conduct the public participation programme, liaise with specialists alongside SES Solutions, finalise and submit applications to the National Air Quality Officer and relevant District Air Quality Officers.</p>	Province.
2018-2019	Transnet SOC Limited	<p>Proposed expansion of the Lephalale Railway Yard from a 100 to a 200 wagon train yard with associated infrastructure along the existing Thabazimbi-Lephalale railway track at Lephalale. This is a SIP 1 to unlock the northern mineral belt of the Waterberg as a catalyst' by creating rail capacity to Mpumalanga and Richards Bay. This project entailed a full EIA process, Water Use License Application and Borrow Pit Application.</p> <p>Responsibility: Lead and conduct the EIA process and WULA, specialist management, preparing the Basic Assessment Report and Environmental Management Programme for the Borrow Pit Application and to obtain the Environmental Authorisation, water use license and mining permit for a borrow pit. Duties included reviewing project documentation, reviewing specialist reports and managing the project programme.</p>	Lephalale, Waterberg District, Limpopo Province
2017 -2018	<p>Eskom Holdings SOC Limited (Air Quality Centre of Excellence)</p> <p>(Decision pending)</p>	<p>Application for the Postponement of the Minimum Emission Standards (MES) for Eskom's Tutuka Power Station. Responsible for management of project programme, public participation programme, preparation of Public Participation Chapter, updating and finalisation of application, submission of Application and Atmospheric Impact Report to the National Air Quality Officer for decision making.</p>	Standerton, Gert Sibande District, Mpumalanga Province
<b>SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT (S&amp;EIR) APPLICATIONS</b>			
2020-2022 (In progress)	Samara Mining (Pty) Ltd	<p>Prospecting Right application with bulk sampling for alluvial diamonds on the left bank of the Orange River boundary to Portion of the Remainder of Farm Richtersveld No. 11 in the Richtersveld National Park between De Hoop Camp Site and Sendelingsdrift. (PRAA 1 - NCS 30/5/1/1/2/1 (12664) PR). Samara will prospect for diamonds from the bed, banks and various terraces along the Orange River, near the Sendelingsdrif. Water for processing will be abstracted from the Orange River.</p> <p>The project entails conducting a full EIA process and Water Use License Application Procedure. The Scoping Phase is currently complete. The</p>	Orange River, Richtersveld National Park, Namakwa District, Northern Cape Province

		<p>Scoping Report has been submitted to the DMRE for approval.</p> <p>Responsibility: Conduct EIA Process, public participation programme, management of specialists and WULA consultant to obtain Prospecting Right, Environmental Authorisation and Water Use License.</p>	
2020-2022 (In progress)	Samara Mining (Pty) Ltd	<p>Prospecting Right Application with bulk sampling for alluvial diamonds on the left bank of the Orange River boundary to Portion of the Remainder of the Farm No. 18 between Sendelingsdrift and old Baken mine. (PRAA 2 - 30/5/1/1/2/1 (12663) PR). As per above description for PRAA 1.</p> <p>The project entails conducting a full EIA process and Water Use License Application Procedure. The Scoping Phase is currently complete. The Scoping Report has been submitted to the DMRE for approval.</p> <p>Responsibility: Conduct EIA Process, public participation programme, management of specialists and WULA consultant to obtain Prospecting Right, Environmental Authorisation and Water Use License.</p>	Orange River, Richtersveld, Namakwa District, Northern Cape Province
2018	Samin Group (Pty) Ltd	<p>Proposed Prospecting Right with bulk sampling on unsurveyed stated land located west of the Kruger National Park at Gumbu. The project entailed a full EIA process and obtaining a Prospecting Right.</p> <p>Responsibility: Project management, conduct EIA process, specialist management and public participation process. Ultimately obtain Environmental Authorisation and Prospecting Right.</p>	West of Kruger National Park, Gumbu Village, Musina, Vhembe District, Limpopo Province
2015-2017	Rakhoma Mining Resources (Pty) Ltd  (aka Vanchem Vanadium Products)	<p>Integrated EIA and Waste Management License Application for the proposed Geluk Mine, an iron and vanadium ore surface mine, over farms Geluk 512KS, Geluk Oos 513KS and Ironstone 847KS. The project entailed an integrated EIA process inclusive of an application for water use license.</p> <p>Responsibility: Project- programme- and specialist management, conduct EIA process. Ultimately obtain integrated Environmental Authorisation and Waste Management License including water use license.</p>	Maphopa, Steelpoort, Sekhukhune District, Limpopo Province
2013-2015	Gauteng Department of Local Government and Housing	Proposed establishment of a subsidized residential development on approximately 378 hectares at Palm Ridge in Ekurhuleni, East Rand region of Gauteng Province. Project entailed a full EIA process.	Palm Ridge, Katlehong, City of Ekurhuleni Metropolitan Municipality, Gauteng Province

		Responsibility: Project-, schedule and specialist management, conduct EIA process. The project proceeded to the preparation of the draft EIR however was placed on hold before the draft EIR could be released for public review due the absence of landowner consent/tenure.	
2007-2008	Eskom Holdings SOC Limited  (Eskom Transmission)	Proposed Soweto Integration Project involving the construction of a 30km, 400kV power line from Etna Substation at Lenasia South to Quattro Substation at Soweto in Gauteng. Responsible for managing the EIA Process from start to finish, to manage the specialists, to complete the S&EIR process to obtain Environmental Authorisation. Including reviewing project documentation and managing the project programme.	Soweto, City of Johannesburg Metropolitan Municipality, Gauteng Province
2007-2008	Royal Bafokeng	Proposed construction of the Lebone II College in Phokeng. The project entailed a full EIA process and specialist studies.  Responsibilities: Execution of the EIA process, manage project programme and specialists. Ultimately obtain the Environmental Authorisation. Certain budget, management aspects of this project were dealt with by Naledzi Environmental Consultants CC MD Desmond Musetsho.	Phokeng, Rustenburg, Bonjanala District, North West Province
2006-2007	Civicon Engineers Pty Ltd	Proposed Shandon Heights Phase 4 upmarket residential estate and associated access road at Nelspruit, Mbombela Local Municipality. The project entailed a full EIA process.  Responsibility: Conduct and manage the EIA process, to manage the specialists. Ultimately obtain Environmental Authorisation. Some project management aspects (budget) were handled by Senior EAP at Enpact CC.	Mbombela, Ehlanzeni District, Mpumalanga Province
2006-2007	Belton Park Trading 27 (Pty) Ltd aka Laeveld Trust	Proposed Karino Urban Development on 500 hectares of mixed bushveld and previously cultivated agriculture land at Karino outside Nelspruit.  Responsible for managing and conducting the EIA process including management of specialists, reviewing of project documentation. Ultimately obtain Environmental Authorisation. Including reviewing. Some project management aspects (incl. budget) were handled by Senior EAP at Enpact CC.	Karino, Mbombela, Ehlanzeni District, Mpumalanga Province
2006-2007	South Africa National Roads Agency	Proposed construction of the Matsulu to N4 Highway bypass route, flyover to N4 and bridge crossing over Crocodile River. The project	Matsulu, Nkomazi Local Municipality, Mpumalanga Province

	(SANRAL)	<p>entailed a full EIA process and Water Use License Application including borrow pit applications.</p> <p>Responsibility: Conduct the EIA process, Public Participation process, preparing environmental reports. Overall project management was conducted by Enpact CC Senior EAP Mr Heinrich Kammeyer.</p>	
2005-2006	Pierre Zondach / aka Drumrock Country Estate	<p>Proposed development of Mountain View Residential Estate at Nelspruit. The project entailed a full EIA process including specialist studies.</p> <p>Responsible for managing and conducting the EIA process including specialists. Ultimately obtain the Environmental Authorisation (then RoD). Some project management aspects (budget) were handled by Senior EAP at the time Mr. Heinrich Kammeyer from Enpact CC.</p>	Drumrock, Mbombela, Ehlanzeni District, Mpumalanga Province
2005-2006	Thaba Chweu Local Municipality	<p>Proposed refurbishment and upgrade of the Sabie Waste Water Treatment Works on the banks of the Sabie River outside the town of Sabie. The project entailed a full EIA process and CAPCO license (the now known Atmospheric Emission License).</p> <p>Responsible for conducting the EIA Process, public participation programme, prepare environmental reports, obtain Environmental Authorisation. Submission of application for CAPCO license. Enpact CC Senior EAP Mr. Heinrich Kammeyer conducted certain project management aspects.</p>	Sabie, Thaba Chweu, Ehlanzeni District, Mpumalanga Province
2004-2005	Nkomazi Local Municipality	<p>Proposed construction of the Masibekela bulk water pipeline, reservoir and reticulation system at Masibekela village, along the R571 close to the Swaziland Mananga Border Post. The project entailed a full EIA process and water use license application.</p> <p>Responsibility: Assisting the Senior EAP at Ecotechnik in managing the public participation process, drafting environmental impact reports.</p>	Masibekela, Komatipoort, Nkomazi, Ehlanzeni District, Mpumalanga Province
<b>BASIC ASSESSMENT (BA) PROCESS APPLICATIONS</b>			
2022 - current	City of Ekurhuleni Metropolitan Municipality and Vumesa Consulting Engineers	Proposed development of the new Leachville Extension 2 Sewer Pump Station and replacement of midblock pipes located near Brakpan on Erf 374 at Leachville Township, Gauteng Province. The project entails a Basic Assessment process and Water Use License Application to obtain Environmental Authorisation and a Water Use License.	Brakpan, Leachville Extension 2 , Gauteng Province.
2022 - current	Department of Water and Sanitation	Proposed rehabilitation of Casteel Dam Safety Rehabilitation project located on the farm Kasteel 231-KU 15km north of Bushbuckridge on the	Bushbuckridge, Mpumalanga Province

		Tlulandziteka River in the Ehlanzeni District of Mpumalanga Province. The project entails the undertaking of a Basic Assessment process and Water Use License Application to obtain Environmental Authorisation and a Water Use License.	
2018- Current  (Process on hold)	Gauteng Department of Infrastructure Development (GDID) & iPDSA	Proposed development of new 500 bed Dr Yusuf Dadoo Hospital at Monument Ext. 1 in Krugersdorp East. Project entails a Basic Assessment Process and water use license application. Responsible for managing and conducting the BA Process to obtain Environmental Authorisation including reviewing project documentation and managing the project programme. This project is currently on hold.	Krugersdorp, West Rand District, Gauteng Province
2015-2016	Mogale City Local Municipality	Proposed establishment of a cemetery and construction of a waste transfer station on Portion 22 Rietspruit 395JQ 11km west of Magaliesburg. The project entailed a Basic Assessment process and Water Use License Application. Responsible for managing and conducting the BA process, management of specialists, project programme and ultimately obtain Environmental Authorisation. The WULA was outsourced.	Magaliesburg, Mogale City Local Municipality, West Rand District, Gauteng Province.
2015	Bidfuel Pty Ltd  on behalf of Enpact Environmental Consultants CC	Proposed development of Gemsbokfontein Filling Station on a Portion of Portion 1 of the farm Gemsbokfontein 199JR next to the R 573 Moloto / Marble Hall road in the settlement of Mabhoko Ext 1, 3km south of Kwaggafontein. The project entailed a Basic Assessment process.  Responsible for preparing the Basic Assessment Report and Environmental Management Programme and MDARDLEA site inspection.	Kwaggafontein, Thembisile Hani Local Municipality, Nkangala District, Mpumalanga Province.
2014	Naledzi Environmental Consultants CC	Prospecting Right Application for the prospecting of Coal, Iron ore and Copper north east of Alldays on the farms Polton, Salton and Hosselappe. Completed this project in my personal capacity and was responsible to undertake the public participation process and development the prospecting Environmental Management Plan (EMP).	Alldays, Capricorn District, Limpopo Province
2014	Thanduko Minerals Pty Ltd	Proposed Prospecting Right Application for the prospecting of Limestone in the Kalkbank area located halfway between Dendron and Polokwane. The project entailed an application for Prospecting Right to DMRE.  Responsible for the public participation process and to development of the prospecting Environmental Management Plan (EMP).	Kalkbank, towards Dendron, Aganang Local Municipality, Capricorn District, Limpopo Province
2014	Belton Park Trading 27 Pty Ltd	Mining Permit application for proposed borrow pit on a Portion of Erf 12, Karino Township 10km east of Nelspruit in the area of Karino.	Karino, Mbombela, Ehlanzeni District, Mpumalanga Province.

		Responsible for preparing the Environmental Management Programme on behalf of Enpact Environmental Consultants CC.	
2014	Pinzari Limited	Mining Permit application for proposed borrow pit on a Remaining extent of Portion 5, farm De Rust 12 JU 2km south east of Hazyview. Responsible for preparing the Environmental Management Programme.	Hazyview, Ehlanzeni District, Mpumalanga Province.
2013-2014	Eskom Holdings SOC Limited  (Eskom Distribution, Nelspruit)	Proposed construction of a 30km, 132kV power line from the existing Merensky Substation to the proposed 2 new substations at Kennedy's Vale and Kalkfontein, between the Steelpoort and Roosenekal area. Responsibilities included preparation of amended Basic Assessment Report and Environmental Management Programme based on DEA's request to revise the route plan for power line including public participation and obtaining Environmental Authorisation.	Steelpoort, Sekhukhune District, Limpopo Province.
2013	Mantra Mineral Development	Proposed Prospecting Right Application for iron ore at Koedoeskop / Nootgedacht area, Thabazimbi Local Municipality, Limpopo Province -. Responsible for public participation process and to develop the Environmental Management Plan (EMP).	Koedoeskop (Thabazimbi) Waterberg District, Limpopo Province.
2012-2013	Eskom Holdings SOC Limited  Eskom Distribution, Menlyn)	Proposed construction of a 25km 132kV power line from Rayton Substation to a proposed new Rhinosterfontein substation with associated feeder lines at Rayton. Responsible for managing and conducting the BA Process, specialists and project programme including extensive public consultation. Although prepared the final BAR was not submitted for approval to DEA due to continuous public resistance to power line routes considered.	Rayton, Tshwane District, Gauteng Province
2012-2013	Eskom Holdings SOC Limited  (Eskom Distribution, Northern Region-Polokwane)	Proposed construction of a 40km, 132kV power line from Spitskop (Northam) substation to Mamba (Koedoeskop) substation. Responsible for managing and conducting the BA Process, managing specialists, project programme and obtaining Environmental Authorisation.	Northam, Waterberg District, Limpopo Province
2012	Thanduko Minerals Pty Ltd	Proposed Prospecting Right for coal north of Louis Trichardt and also north of the Soutpansberge just east of the N1 National Toll Road in the magisterial district of Makhado in the Limpopo Province -. Responsible for conducting the public participation process and development the prospecting Environmental Management Plan (EMP).	Makhado, Vhembe District, Limpopo Province.
2011-2012	Cape Malting House Aka Foundation for African Business and	Proposed state of the art Commercial Malt Production Plant in Ritchie. Responsible for managing the BA Process and associated specialist studies, project programme and obtaining Environmental Authorisation.	Ritchie (area of Kimberley), Sol Plaatjie Local Municipality, Frances Baard District, Northern Cape Province.



	Consumer Services (FABCOS)		
2011-2012	Eskom Holdings SOC Limited  (Eskom Distribution, Witbank)	Proposed construction of a 15km, 132kV power line from Erasmus (Bronkhorstpruit) substation to Bonamanzi substation (Bronkhorstpruit Dam). Responsibilities included conducting the public participation process, preparing environmental reports, managing specialists, site visits, and field work and obtaining Environmental Authorisation.	Bronkhorstpruit, Kungwini Municipality, Metsweding District, Gauteng Province
2011-2012	Eskom Holdings SOC Limited  (Eskom Distribution, Menlyn)	Proposed construction of a 12km, 132kV power line from Rayton substation to Bynes substation in the Rayton area, east of Pretoria. Responsibilities included preparation of the Basic Assessment Report and Environmental Management Programme, public participation process and obtaining the Environmental Authorisation.	Rayton, Tshwane District, Gauteng Province
2009	Limpopo Department of Roads and Transport.	Proposed upgrade/resurfacing of the Madikwe Game Reserve/Derdepoort Border Post gravel road. Responsible for managing the BA Process, specialists, project programme and obtaining Environmental Authorisation.	Derdepoort, North West Province
2007 - 2008	Eskom Holdings SOC Limited  (Eskom Distribution, Rustenburg)	Proposed construction of a 20km, 132kV power line from Moedwil (Moedwil farming area, outside Rustenburg) substation to Swartruggens substation – Eskom Distribution. Responsible for managing the BA Process, specialists, project programme and obtaining Environmental Authorisation.	Rustenburg, Bojanala District, North West Province
2007	Royal Bafokeng Administration	Proposed construction of Royal Bafokeng Sports Palace in Phokeng in preparation for 2010 World Cup Soccer Tournament in Rustenburg, North West Province - Royal Bafokeng Administration. Responsible for managing the BA Process, review of specialist studies, preparation of Basic Assessment Report and obtain Environmental Authorisation.	Rustenburg, Bojanala District, North West Province
2006-2007	South African Police Service (Nelspruit Office)	Construction of 3 SAPS radar masts to expand a wide-ranging radar system to monitor the N4 Highway Nelspruit to Maputo corridor and other important transport routes. All three masts were located within the Mpumalanga Province. Responsible for BA processes, public participation process, obtaining Environmental Authorisation and registering the masts with the Civil Aviation Authority (due to height of structure and potential risks to aircraft).	Positions of the 3 radar masts included; Mauchberg (Graskop); mountain west of Kwena Dam (west of R36), Gustav Klingbiel Nature Reserve (Lydenburg), Ehlanzeni District, Mpumalanga Province.
2006	Fail to remember	Proposed 12 hectare upmarket residential expansion north of Colts Hill suburb in northern outskirts of White River town, (accessed from Oaks Road). Responsible for managing the BA Process, public participation process and obtaining Environmental Authorisation. Some project	White River, Mbombela Local Municipality, Ehlanzeni District, Mpumalanga Province

		management aspects were conducted by Enpact CC Senior EAP, Mr Heinrich Kammeyer.	
2005-2007	HL Hall and Sons	Proposed development of the 10 hectare Maggiesdal Residential Extension south of Stonehenge residential area, magisterial district of Nelspruit, Responsibilities included managing the EIA Process, the specialists, to complete the environmental report and obtain Environmental Authorisation. Some project management aspects (budget) were completed by Senior EAP Mr. Heinrich Kammeyer from Enpact CC.	Nelspruit (Mbombela), Ehlanzeni District, Mpumalanga Province
2005	Hanneen van der Stoep	Proposed Katoen Industrial Development at Rocky's Drift, north of Nelspruit. Responsibilities included verify concerns from competent authority, revise environmental report and EMP, respond to competent authority concerns and obtain Environmental Authorisation.	Rocky's Drift, Mbombela Local Municipality, Ehlanzeni District, Mpumalanga Province.
<b>WATER USE LICENSE APPLICATIONS</b>			
2018-2020	Rakhoma Mining Resources Pty Ltd	WULA for proposed Geluk Mine surface operation. Responsible for managing the specialists conducting the WULA procedure and obtaining the Water Use License.	Maphoha, Sekhukhune District, Limpopo Province.
2018-2019	Transnet SOC Limited	WULA for the proposed expansion of the Lephalale Railway Yard. Responsible for managing the specialists complete the WULA process in order to obtain a Water Use License. Including review of project information, project programme. The water use technical report has been submitted to DWS. The process is yet to be completed. The technical report has rejected in the absence of a signed landowner consent letter to be provided by Transnet. Once the matter has been addressed this application will be resubmitted.	Lephalale, Waterberg District, Limpopo Province.
2018-current	Gauteng Department of Infrastructure Development (GDID)	WULA for the proposed development of new 500 bed Dr Yusuf Dadoo Hospital at Monument Ext. 1 in Krugersdorp East. Responsible for managing the specialists complete the WULA process in order to obtain a Water Use License. This process has been placed on hold by iPDSA until further instruction.	Krugersdorp, West Rand District, Gauteng Province
<b>SECTION 24G RECTIFICATION APPLICATIONS</b>			
2013	Tshumisano Trading CC	Section 24G Rectification Application for the Sasol Tshilidzini Filling Station located along the Punda Maria Road in the Thohoyandou area, Limpopo Province -. Responsibility included the public participation process, preparation of the Environmental Report and associated Environmental Management Plan (EMP) and submission to LEDET to obtain Environmental Authorisation	Thohoyandou, Vhembe District, Limpopo Province.
<b>ENVIRONMENTAL AUTHORISATION AMENDMENT APPLICATIONS</b>			

2017	Eskom SOC Limited (Eskom Distribution)	Amendment of the Environmental Authorisation for the Lethaba-Resinga 66kV power line due to route deviations at Nkowankowa village close to Letsitele. Responsible for conducting the public participation process and obtaining specialist statements, project and budget management.	Letsitele, Mopani District, Limpopo Province
<b>MONITORING REPORTS AND OTHER</b>			
2022	Golden Tropic Mining	Establishment of an Environmental Monitoring Committee Framework for Golden Tropic Mining Granite Quarry at Pofadder, Northern Cape Province. Golden Tropic Mining (Pty) Ltd has applied for a mining right in terms of the Mineral and Petroleum Resources Development Act, 2002 (Act 22 of 2002) (MPRDA) to the Department of Mineral Resources and Energy (DMRE) under reference NC 30/5/1/2/2/10193MR for the proposed development and operation of a granite quarry on a Portion of the farm Zwart Modder Mountain No. 446 located 45km northeast of Pofadder in the Namakwa District of the Northern Cape Province. I assisted to resolve the IMA issue and advice on alternative measures that can be put in place to address landowner concerns.	Pofadder, Namakwa District, Northern Cape
2022	Zijin Garatau Platinum Mine	Assistant Chairperson for Environmental Monitoring/Management Committee (EMC) at Zijin Garatau Platinum Mine. The EMC is a requirement of the WUL (Licence Ref No. 06/B41J/GICABJ/5390) conditions. The EMC oversees compliance with the mine EMPR, water use license.	Garatau, Maandagshoek, Sekhukune District, Limpopo Province
2019	Vanchem Vanadium Products (Pty) Ltd	Prepare Water Use License and Waste Management License Ground and Surface Water Quality Monitoring Requirements Report for Vanchem's new Slimes and Calcine Disposal Facility. situated in.	Ferrobank, Emalahleni, Nkangala District, Mpumalanga Province
2010	Royal Bafokeng Platinum	Facilitate the consultation of landowners on 7 different farms (various farm portions) identified as possible locations for a proposed Tailings Dam for Rasimone Mine as part of the new Styldrift Phase 1 project. This consultation served to seek consent from landowners to undertake a Geotechnical Investigation on each farm portion forming part of the 7 site options considered. This consultation assisted to select the optimum site alternative and opened further discussions with other mines for procure of land.	Boshoek (Rustenburg), Bojanala District, North West Province
<b>ATMOSPHERIC EMISSION LICENSE APPLICATIONS / RENEWALS / VARIATION REQUESTS AND ASSOCIATED PUBLIC PARTICIPATION PROGRAMME</b>			
2019	Eskom SOC Limited	Conduct public participation process in support of applications for renewal of the Atmospheric Emission Licenses for several of Eskom's power stations namely Acacia (Cape Town), Port Rex (East London), Ankerlig (Atlantis), Camden (Ermelo), Grootvlei (Balfour), Majuba	Cape Town, East London, Ermelo, Balfour, Amersfoort, Standerton, South Africa

		(Amersfoort) and Tutuka (Standerton).	
2018	Eskom SOC Limited	Conduct the public participation process in support of an application for renewal of the Atmospheric Emission License for Gourikwa power station.	Mossel Bay, Western Cape Province
2018	Eskom SOC Limited	Conduct a public participation process in support of an Atmospheric Emission License variation request for Gourikwa power station.	Mossel Bay, Western Cape Province
2017	Eskom SOC Limited	Conduct a public participation process in support of an Atmospheric Emission License variation request for Medupi power station south west of Lephalale town in the Limpopo Province.	Lephalale, Waterberg District, Limpopo Province
2017	Eskom SOC Limited	Conduct a public participation process in support an Atmospheric Emission License variation request for Ankerlig power station Atlantis Industrial.	Atlantis Industrial, Cape Town, Western Cape Province
2006	Thaba Chweu Local Municipality	Application for CAPCO Permit for the proposed installation of an Incinerator at Sabie Waste Water Treatment Works. Responsible for preparation of application, submission, authority site inspection to obtain CAPCO license.	Sabie, Ehlanzeni District, Mpumalanga Province
<b>WASTE MANAGEMENT LICENSE APPLICATIONS/RENEWALS AND ASSOCIATED PUBLIC PARTICIPATION PROGRAMME</b>			
2015	Mogale City Local Municipality	Luipaardsvlei Landfill Site Expansion Area Waste Management License Renewal. The process involved bringing the application to the attention of any affected parties/public; submitting the status quo of the landfill site conditions and records of adherence to the standing waste management license through an Application for WML Renewal to GDARD. The project area is located south of Krugersdorp East in the area of Wentworth Park. It is east of Paardekraal Road (M13) and south of Windsor Road (R28). Responsibilities included conducting a public participation process.	Krugersdorp, West Rand District, Gauteng Province.
<b>ECOLOGICAL SITE SCANS</b>			
2018	Tholoana Sustainable Development and Environmental Consultants.	Preparation of Ecological Sensitivity Scan for proposed Pam Brink Water Connection Feeder Pipe from Pam Brink Reservoir to Geduld water reticulation network.	Springs, Ekurhuleni Metropolitan Municipality of Gauteng Province
<b>FINALISATION OF ENVIRONMENTAL MANAGEMENT PLANS (STAND-ALONE DOCUMENTS)</b>			
2010	Eskom SOC Limited	Final Walkthrough (field survey) and preparation of a final Environmental Management Programme for the Etna-Glockner 30km, 400kV power line from Glockner (near Vaal Triangle) substation to Etna (near Soweto) substation. Responsible to manage the project, specialists, conduct fieldwork, preparation of the final Environmental Management Programme and obtaining approval from DEA.	Soweto, Gauteng Province.

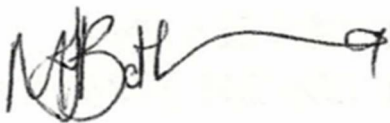
<b>REVIEW OF ENVIRONMENTAL IMPACT REPORTS</b>			
2015	BPC Capital	Review Environmental Impact Report and conduct EIR public participation meeting for the construction the 72 000 metric ton Magareng Grain Storage Silos and Collection Facility with an extent of 30 hectares.	Warrenton, Magareng Local Municipality, Frances Baard District, Northern Cape.
<b>LAND TENURE UPGRADE</b>			
2005	Fail to remember	Survey and capture all stand details within the Thulani Section of Matsulu, as well as document details of current occupants for registration of title deeds 27km east of Nelspruit. Entailed excessive public consultation, community liaison and field work. Assisted Ecotechnik CC with the consultation, community liaison and field work.	Matsulu, Nkomazi Local Municipality, Ehlanzeni District, Mpumalanga Province.

## REFERENCES

- Heinrich Kammeyer, Enpact Environmental Consultants (Pty) Ltd  
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- Khangwelo Desmond Musetsho, Naledzi Environmental Consultants (Pty) Ltd  
Contact: +2783 410 1477
- Lorraine Ndala, Eskom SOC Limited  
Contact: (011) 800 4622
- Ndi Mofokeng, NDI Geological Consultants (Pty) Ltd  
Contact: +2761 017 3302

## CERTIFICATION

I, the undersigned, certify that to the best of my knowledge, this data correctly describes my work experience and professional registration to date.

A handwritten signature in black ink, appearing to read 'Ndi Mofokeng', with a long horizontal flourish extending to the right.

2 September 2022

**herewith certifies that**

**Marissa Ilse Botha**

Registration Number: 117526

**is a registered scientist**

in terms of section 20(3) of the Natural Scientific Professions Act, 2003  
(Act 27 of 2003)  
in the following field(s) of practice (Schedule 1 of the Act)

Environmental Science (Professional Natural Scientist)

Effective **24 January 2018**

Expires **31 March 2023**



*Botha*

Chairperson

*M. J. ...*

Chief Executive Officer

