

Marline is an Associate Environmental Consultant based in SLR's offices in Johannesburg. As a specialist environmental project manager, she has over 15 years of experience in the field of environmental management and consulting primarily in the mining sector and more recently self-generation renewable energy in the mining sector. Clients that she has worked for include Anglo American – Sishen Mine, Kolomela Mine, New Largo Colliery (now owned by Seriti New Largo Coal (Pty) Ltd) and the Alexander Project (now owned by Sasol Mining); Black Mountain Mining (Pty) Ltd – Black Mountain Mine; West Wits MLI (Pty) Ltd – West Wits Project; Tshipi é Ntle Manganese Mining (Pty) – Tshipi Borwa Mine; United Manganese of Kalahari Mine (Pty) Ltd – UMK Mine; and Taung Gold (Free State) (Pty) Ltd Jeanette Project.

Marline has worked on projects throughout the project's lifecycle from site identification through conceptual to pre-feasibility and feasibility, to operation and closure for the mining, power, infrastructure and built environment sectors. This includes conducting site identification, screening and scoping studies, baseline studies and specialist management, Basic Assessment and EIAs, management planning and implementation including Integrated Water and Wastewater Management Plans, as well as public participation processes. Marline has an excellent working relationship with the various DMRE offices in the Northern Cape, Mpumalanga and Limpopo.

Marline has worked extensively across South Africa and her mining experience constitutes coal mines (Mpumalanga & KwaZulu-Natal), diamond mines (Western Cape & Lesotho), gold mines (Free State, North West & Gauteng), iron ore mines (Northern Cape), manganese mines (Northern Cape), zinc mine (Northern Cape) and platinum mines (Limpopo).

Education

- MSc Major in Botany (Molecular Systematics), University of Johannesburg (2007)
- BSc (Hons) Majors in Natural & Environmental Science and Botany, Rand Afrikaans University (2004)
- BSc Majors in Natural & Environmental Science, Zoology and Botany, Rand Afrikaans University (2003)

Project Experience

Mining

Guinea Alumina Corporation, Guinea, (2020)**

Development of procedures for the social responsibility management system of Guinea Alumina Corporation in terms of the International Finance Corporation Compliance Standards.

Mine Closure Plan for the Kolomela Mine, Anglo American, Kumba Iron Ore Ltd, Northern Cape (2020) **

Assisting in the preparation and compilation of the mine closure plan for the Kolomela Mine.

Mine Closure Liability Updates for Anglo American Coal, Limpopo and KwaZulu-Natal (2020) **

Updating the mine closure liability updates for various Anglo American Coal legacy mine sites.

West Wits Mining Project for West Wits (MLI) (Pty) Ltd, Gauteng, (2018 – 2020)

Project Manager for the Environmental Impact Assessment (EIA) and EMPr in support of the Mining Right application for the West Wits Mining Project. The Project involved the application for an integrated environmental authorisation and waste management licence (WML) for the mining of gold at five open pits and two underground workings with associated infrastructure near Soweto and Roodepoort. In addition, 16 specialist studies were conducted, and a complex public participation process was undertaken in compliance with requirements of the National Environmental Management Act, 1998 (NEMA, No. 107 of 1998), as amended.

Tshipi Borwa Mine Ramp-Up Project for Tshipi é Ntle Manganese Mining (Pty) Ltd, Northern Cape (2019)

Project Manager for the Environmental Constraints Study for the Tshipi Borwa Mine Ramp-Up Project. The Project involved compilation of the environmental constraints report and continuous interaction with the client and project engineering team.

New Largo Overland Conveyor for Seriti New Largo Coal (Pty) Ltd, Mpumalanga (2019)

Project Manager for the Environmental Feasibility Study for the New Largo Overland Conveyor Project. The Project involved compilation of the environmental feasibility chapter and continuous interaction with the client and project engineering team.

Tshipi Borwa Mine Expansion Project for Tshipi é Ntle Manganese Mining (Pty) Ltd, Northern Cape (2018 – 2019)

Project Manager for the EIA and EMPr in support of an EMPr amendment for the expansion of the Tshipi Borwa Mine. The Project involved the application for an integrated environmental authorisation and WML for the extension of two existing waste rock dumps, construction of an overhead powerline and the construction of an overland conveyor within the Mining Right area. In addition, an application for the amendment of the integrated water use licence (IWUL) and integrated water and wastewater management plan (IWWMP) were compiled and submitted to the competent authority.

Tshipi Borwa Mine Section 24G for Tshipi é Ntle Manganese Mining (Pty) Ltd, Northern Cape (2018)

Project Manager for the Section 24G Environmental Assessment Report for the Tshipi Borwa Mine. The Project involved the application for a Section 24G rectification for the construction of a diesel farm and widening of a haul road.

Expansion of the United Manganese of Kalahari (Pty) Ltd Mine, Northern Cape (2017 – 2019)

Project Manager for the EIA and EMPr in support of an EMPr amendment for the expansion of the United Manganese of Kalahari Mine. The Project involved the application for an integrated environmental authorisation and WML for various changes to operations at the UMK mine, including optimisation of the mine pit requiring additional waste rock dumps, run-of-mine, product stockpiles and crushing operations with associated support and

administrative infrastructure. In addition, an application for the amendment of the IWUL and integrated water and IWWMP were compiled.

Compliance assessment for AngloGold Ashanti Ltd's Vaal River Operations, North-West & Free State (2016)

Project Manager for the IWUL environmental compliance assessment/ audit at the Vaal River gold mining operations. The Project involved a site investigation and compilation of the compliance assessment/ audit report.

Compliance assessment for AngloGold Ashanti Ltd's Mine Waste Solutions, NW, 2016

Project Manager for the IWUL environmental compliance assessment/ audit at the Mine Waste Solutions gold mining operations. The Project involved a site investigation and compilation of the compliance assessment/ audit report.

Compliance assessment at Hackney for Marula Platinum (Pty) Ltd, Limpopo (2016)

Project Manager for the EMPr performance assessment at the Hackney prospecting site. The Project involved a site investigation and compilation of the compliance assessment/ audit report.

Compliance assessment at Leeuwkop Platinum Mine for Afplats (Pty) Ltd, Limpopo (2016)

Project Manager for the EMPr performance assessment at the Leeuwkop Platinum Mine. The Project involved a site investigation and compilation of the compliance assessment/ audit report.

Jeanette Project for Taung Gold (Free State) (Pty) Ltd, Free State (2014 – 2015)

Project Manager for the EIA and EMPr in support of the Mining Right application for the Jeanette Project. The Project involved the application for an integrated environmental authorisation and WML for the underground mining of gold near Odendaalsrus. In addition, 12 specialist studies were conducted, and a complex public participation process was undertaken in compliance with requirements of NEMA.

Alexander Project for Anglo American Inyosi Coal (Pty) Ltd, Mpumalanga (2011 – 2015)

Project Manager for the EIA and EMPr in support of the greenfields Mining Right application for the Alexander Project. The Project involved the application for an integrated environmental authorisation and WML for the underground mining of coal near Kriel. In addition, 18 specialist studies were conducted, and a complex public participation process was undertaken in compliance with requirements of NEMA.

New Largo Project for Anglo American Inyosi Coal (Pty) Ltd, Mpumalanga (2011 – 2015)

Project Manager for the EIA and EMPr in support of the greenfields Mining Right application for the New Largo Project. The Project involved the application for environmental authorisation and a WML for the opencast mining of coal near Emalahleni. In addition, 13 specialist studies were conducted, and a complex stakeholder engagement process was undertaken in compliance with requirements of NEMA.

Phola Kusile Coal Conveyor for Anglo American Inyosi Coal (Pty) Ltd, Mpumalanga (2011 – 2012)

Project Manager for the EIA for the proposed development of the Phola Kusile Coal Conveyor. The Project involved the application for environmental authorisation and a WML for the construction of the overland conveyor to transport coal from the beneficiation plant to the Kusile Power Station near Emalahleni. In addition, 16 specialist studies were conducted,

and a complex stakeholder engagement process was undertaken in compliance with requirements of NEMA.

Sishen Expansion Project 2 for Anglo American, Kumba Iron Ore Ltd, Northern Cape (2009)

Project Coordinator for the Environmental Site Selection Study for the Sishen Expansion Project 2. The Project involved compilation of the environmental site selection report.

Sishen Mine's Protea Waste Dump Expansion for Sishen Iron Ore Company (Pty) Ltd, Northern Cape (2008 – 2012)

Project Manager for the EMPr Amendment Report for the extension of the Protea Waste Dump at Sishen Mine. The Project involved the application for an EMPr amendment.

Diepspruit Colliery Expansion for Exxaro Coal (Pty) Ltd, Mpumalanga (2008 – 2009)

Project Coordinator for the EIA and EMPr in support of the EMPr Amendment for the expansion of the Diepspruit Colliery. The Project involved the application for an EMPr amendment and WUL.

Letšeng Diamonds (Pty) Ltd Mine, Lesotho (2008)

Compilation of an environmental action plan for the Letšeng Diamonds (Pty) Ltd Mine.

Eerstelingsfontein Colliery for Exxaro Coal (Pty) Ltd, Mpumalanga (2007 – 2008)

Project Coordinator for the IWUL application and IWWMP for the Eerstelingsfontein Colliery.

Langklip South Project for De Beers Consolidated Mines (Pty) Ltd, Western Cape (2007)

Project Coordinator for the EIA in support of the Mining Right application for the Langklip South Project, near Kleinsee.

Platreef Project for Ivanhoe Nickel & Platinum Ltd, Limpopo (2007 – 2009)

Project Manager for providing environmental input into the baseline report for the Platreef Project.

Industry

Hydrogen Production Development Platform at the Mogalakwena Platinum Mine, Anglo American Platinum Ltd – Rustenburg Platinum Mine, Limpopo (2022)

Project Manager for the BA Report and EMPr for the proposed development of a hydrogen production development platform within the Mining Right area of the Mogalakwena Platinum Mine. The Project involved the application for an environmental authorisation. In addition, a public participation process was undertaken and 2 specialist studies were conducted in support of the BA Report and EMPr.

Kathu Supplier Park for Anglo American, Kumba Iron Ore Ltd and the Industrial Development Corporation of South Africa Ltd, Northern Cape (2014 – 2015)

Project Manager for the EIA for the proposed development of the proposed Kathu Industrial Park. The Project involved the application for environmental authorisation and water use

licence. In addition, a public participation process was undertaken and 6 specialist studies were conducted.

Infrastructure

Dingleton Resettlement for Anglo American, Kumba Iron Ore Ltd, Northern Cape (2008 - 2020)

Project Manager for the environmental authorisation amendment application process. The Project involved the application for amendment of the environmental authorisation, application for removal of protected species permit, provision of environmental management support and environmental input into the pre-feasibility and feasibility studies, and environmental compliance assessments during implementation phase for the resettlement and decommissioning of the town of Dingleton at Sishen Mine.

Sishen Western Expansion Project for Anglo American, Kumba Iron Ore Ltd, Northern Cape (2008 – 2015)

Project Manager for the BA and EIA for the Sishen Western Expansion Project. The Project involved the application for environmental authorisation, WML, WUL, mining permit and removal of protected species permits for the relocation of the Postmasburg-Hotazel railway line, Sishen-Lylyveld siding, Vaal Gamagara water pipeline, the 275 kV powerline and Dingleton-Dibeng public road in order for Sishen Mine to expand in a western direction. Provision of environmental management support, environmental input into the pre-feasibility and feasibility studies, and environmental compliance assessments during implementation phase were also provided. In addition, 10 specialist studies were conducted, and a complex stakeholder engagement process was undertaken in compliance with requirements of NEMA.

Fish Eagle Reserve CC, Gauteng (2007 – 2009)

Project Manager for providing environmental input into the response to the record of decision issued for the change in land use of Portion 75 and 76 of the Farm Uitvlucht 434 IR, near Vereeniging.

Power

Solar PV Facility and Associated Infrastructure at the Sishen Iron Ore Mine, Anglo American, Sishen Iron Ore Company (Pty) Ltd, Northern Cape (2022 - current)

Project Manager for the BA Report and EMPr for the proposed development of the 150MW Solar PV Facility and associated infrastructure within the Mining Right area of the Sishen Iron Ore Mine. The Project involves the application for an environmental authorisation, general authorisation application, and Section 53 application in terms of the MPRDA. In addition, a public participation process was undertaken and 7 specialist studies were conducted in support of the BA Report and EMPr.

Solar PV Facility at the Black Mountain Mine, Black Mountain Mining (Pty) Ltd, Northern Cape (2021)**

Project Manager for the BA Report and EMPr for the proposed development of the 30MW Solar PV Facility and associated infrastructure within the Mining Right area of the Black Mountain Mine. The Project involved the application for an environmental authorisation and an amendment of the IWUL through a general authorisation. In addition, a public

participation process was undertaken, and 12 specialist studies were conducted in support of the BA Report and EMPr.

Memberships and Associations

- International Association for Impact Assessment – Member in South Africa
- EAPASA Registration in progress

Publications

- *Gnidia* (Thymelaeaceae) is not monophyletic: taxonomic implications for Thymelaeoideae and a partial new generic taxonomy for *Gnidia*. Scientific article in the Botanical Journal of the Linnean Society, 2009.