

## **ENVIRONMENTAL SCIENTIST CV**

### **Personal particulars**

Mr Sive Mlamla (Pr. Sci.Nat, Reg. EAP (EAPASA))

20/10/1994

10 years of experience

### **Expertise**

Sive Mlamla is an environmental scientist with 10 years of experience in scientific research, lecturing and environmental consulting. His key expertise includes:

- Integrated Environmental Management
- Fluvial Geomorphology and Wetlands
- Soil Erosion Assessment
- Catchment Hydrological Modelling
- Remote sensing & GIS applications for land use/cover change mapping
- People Management

### **Qualifications**

- M.Sc. Geography (Catchment Ecohydrology, Remote Sensing and GIS)
- B.Sc. Honours Environmental Geography
- B.Sc. Environmental Sciences (Botany and Geography)

### **Botany-Zoology**

(Plant Ecology, Plant Ecophysiology, Applied Marine Botany, Population Ecology, Community Ecology, Comparative Vertebrate Anatomy, Animal Cell Biology and Histology, Animal Diversity, Plant Cell Biology, Plant Structure, Principles of Animal Evolution, Animal Patterns in Time and Space, Plant Evolution and Systematics, and Environmental Botany, Plant and Algal Systematics and Animal Physiology)

### **Geomorphology-Geospatial Sciences**

(Geomorphology, Physical Geology, Photogrammetry and Remote Sensing and Geographical Information Systems)

### **Registrations and memberships:**

- Professional Environmental Assessment Practitioner (EAPASA) Registration No. 2022/5204
- Professional Natural Scientist (Pr. Sci.Nat) (SACNASP) Registration No. 118495
- Member of the South African Wetlands Society Reg. No. S9BPP477
- International Association of Hydrological Sciences (IAHS) Reg. No. 16768
- Member of the Southern African Association of Geomorphologists
- Institute of Waste Management of Southern Africa (IWMSA) Reg No. 40120001

### **Training:**

- Earth Observation Data Analysis with Google Earth Engine (2023)
- People Management Skills - Nelson Mandela University (2017)
- Biodiversity spatial data management, acquisition, and analysis – SANB (2018)
- e-WULAAS - GIBB Environmental (Pty) Ltd (2020)
- Remote Sensing (land use/cover classification) and SWAT hydrologic modelling at Makerere University, Uganda (2017)

**Employer:** Abantu Environmental Services (Pty) Ltd

**Position:** Managing Director: Principal Environmental Scientist & EAP (2018-present)

**Roles:**

- Project Management
- Environmental Screening with NEMA Regulations as amended and GIS analysis and mapping
- Conducting Full EIA and Basic Assessments
- Specialist investigations
- Management of Specialists
- Conducting Environmental Compliance Audits
- EA amendment applications (Part 1 and Part 2)
- S24G applications
- Mining Rights and Permit Applications
- Water Use Licence Applications
- Plan, coordinate and undertake Public Participation Process
- Management public participation process and document findings
- Competent authority engagements
- Plan and compile proposals and projects
- Staff resourcing and management of specialists
- Approval of all project and proposals deliverables
- Authorised signatory for all contractual matters
- Financial management
- Operational efficiencies
- Overall business compliance

**Employer:** Nelson Mandela University (2019-present)

**Position:** Lecturer (Geomorphology, GIS and Remote Sensing)

**Roles:** Research and teaching in:

- Geomorphology
- Hillslope hydrology
- Soil erosion, land degradation and rehabilitation
- Land use/cover changes
- Hydrological modelling
- Remote Sensing
- Geographic Information System

**Employer:** GIBB Engineering (January 2016- March 2020)

**Position:** Environmental Scientist

**Roles:** Environmental Impact Assessments

**Legislation review: Identification of listed activities**

- Screening proposed infrastructure developments (housing, sewerage and bulk water) against the National Environmental Management Act (No 107 of 1998) Regulations of 2017 as amended (NEMA Regulations) to determine the type of environmental authorization required, Basic Assessment (BA) or Full Environmental Impact Assessment (EIA).
- Liaison with Design Engineers and requesting information gaps integral regarding the proposed development
- Also screening against other relevant intervening legislation such as the section 21 of the National Water Act (No. 36 of 1998) (NWA) and the National Heritage Resource Action (No 25 of 1999) (NHRA) to determine the type of application that needs to be followed by clients.

## **GIS based environmental sensitivity analysis and mapping**

- Undertaking environmental sensing mapping using the South African National Biodiversity (SANBI) online BGIS mapping tool to produce environmental sensitivity maps and inform decision-making.
- Mapping the development in relation to wetlands, Critical Biodiversity Areas (CBAs) and conservations plans of the particular jurisdictions.
- Perform mapping using BGIS online tool, QGIS/ArcGIS and Google Earth

## **Site assessment and observations**

- Conducting site assessments to make observations, vegetation assessment and identification of on-ground socio-economic and biophysical sensitivities
- Taking comprehensive photographs of the site and its surrounds (baseline conditions)
- Undertake plant identification and using SANBI to assign conservation status level

## **Compilation of technical reports and authority consultations**

- Compiling of high-level environmental screening and impact assessment reports with conclusions and recommendations pertinent to environmental approval requirements.
- Water Use Licence application (WUL)
- Submission of the screening report to the competent authority and further liaison regarding any queries.

## **SPECIALIST PROJECTS EXPERIENCE**

### **Authored**

#### **Aquatic and Wetlands Impact Assessments**

Proposed Willowvale taxi rank, Mbhashe Local Municipality (2023)

Proposed new exhibition complex in the Nelson Mandela Museum, Qunu, Eastern Cape (2023)

Proposed Tshatshatsha-Ngqebe bridge, Dr AB Xuma Municipality (2023)

Proposed Ndlunkulu bridge, Dr AB Xuma Municipality (2023)

Proposed Mangweni bridge, Dr AB Xuma Municipality (2023)

Proposed Lower Gqaga bridge and access road, Dr AB Xuma Municipality (2023)

Proposed upgrading of sewer pump stations in Somerset East, Blue Crane Route Municipality (2022)

Refurbishment of Kirkwood WWTW-Green Drop Prioritisation Project Within Sundays River Valley Local Municipality (2022)

### **Reviews**

#### **Terrestrial, Aquatic and Wetlands Impact Assessment:**

Proposed Bluegums stadium in Senqu Local Municipality (2023)

Proposed Enon-Bersheba Sanitation Upgrades, Sundays River Valley Municipality (2023)

Proposed mining of dolerite from the G7 Quarry in Keiskamahoe, Eastern Cape (2022)

Proposed mining of dolerite Sandile Dam Quarry in Keiskamahoe, Eastern Cape (2022)

Proposed Enon-Bersheba Sanitation Upgrades, Sundays River Valley Municipality (2022-2023)

Proposed Tshatshatsha-Ngqebe bridge, Dr AB Xuma Municipality (2023)

Proposed Ndlunkulu bridge, Dr AB Xuma Municipality (2023)

Proposed Mangweni bridge, Dr AB Xuma Municipality (2023)

Proposed Lower Gqaga bridge and access road, Dr AB Xuma Municipality (2023)

Proposed upgrading of sewer pump stations in Somerset East, Blue Crane Route Municipality (2022)

Proposed R352 road upgrade from Keiskammahoe to Stutterheim (2022)

Proposed DR08017 road upgrade from Mt Frere to Cedarville (2022)

Proposed construction of Entshilibeni Komkhulu To Ntshoma Via Access Road In King Sabata Dalindyebo Local Municipality, Eastern Cape (2022)

Proposed Maqadini access road situated in Ingquza Hill Local municipal area, Eastern Cape (2021)

Proposed Langbos Molly Bulk Water and Sewer Pipelines Project in Addo, Sundays River Valley Municipality (2021)

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Proposed Uitenhage waste Transfer Station, Nelson Mandela Bay Municipality (2018)

Proposed Motherwell Passenger Rail, Nelson Mandela Bay Municipality (2017)

**Marine and Estuarine Impact Assessments**

Proposed rehabilitation of the old Tug Jetty Sheet Pile Wall at the Port of Port Elizabeth (2022)

Proposed repair/replacement of Quays 3 & 4 and Ferry Landing within the port of East London (2022)

**ENVIRONMENTAL IMPACT ASSESSMENT PROJECTS EXPERIENCE**

**INTEGRATED ENVIRONMENTAL MANAGEMENT**

**MARINE**

Client	Type of Work Executed	Role	Period
Transnet SOC LTD	Proposed Upgrades of Quay Wall within the port of East London: <b>Full Scoping and Environmental Impact Assessment</b>	EAP and Social Facilitator	2022-2024
Transnet SOC LTD	Rehabilitation of the old Tug Jetty Sheet pile wall of Port of Port Elizabeth; <b>Full Scoping and Environmental Impact Assessment</b>	EAP and Social Facilitator	2022-2024
Bergrivier Municipality	Proposed Coastal Erosion Control Mitigation in Laaiplek, Bergrivier Municipality, Western Cape: <b>Basic Assessment and Civil Engineering Designs</b>	Lead EAP	2022-2024
Cederberg Municipality	Proposed Coastal Erosion Control Mitigation in Lamberts Bay, Western Cape: <b>Basic Assessment and Civil Engineering Designs</b>	Lead EAP	2024-2025
Montecartele Services (Pty) Ltd on behalf of Knysna Local Municipality	Upgrading of George Rex Drive along the Knysna Estuary Environmental Screening	Lead EAP	2021-2021

**ROADS AND BRIDGES**

Client	Type of Work Executed	Role	Period
<b>EIA</b>			
Gilgal for Blue Crane Route Municipality	Proposed Nilsig and Khanyiso Bridges: EIA and WULA	Lead EAP and Social Facilitator	2024

Client	Type of Work Executed	Role	Period
BM Infrastructure Development (Pty) Ltd	Upgrade of DR08017 Road from Mt Frere to Cedarville: Environmental Screening, Basic Assessment, EMPs, WULA and borrow permit applications and ECO services	Lead EAP and Social Facilitator	2021-2022
MBSA Consulting infrastructure on behalf of Department of Transport EC	Upgrade of R352 Road : Environmental Screening, Basic Assessment, EMPs, WULA and borrow permit applications and ECO services	Lead EAP and Social Facilitator	2021
<b>ECO</b>			
Engineering Advice and Services (Pty) Ltd	ECO services for refurbishments of bridges along R410 between Enoch Mgijima and Indwe Local Municipalities	Lead ECO	2023
Bosch Projects (Pty) Ltd	ECO services for phase 3 of N2 between Grahamstown and Ngqushwa	Lead ECO	2024

## BULK WATER AND BULK SEWER

Client	Type of Work Executed	Role	Period
<b>EIA</b>			
Lech Consulting Civil & Structural Engineers on behalf of Sundays River Valley Municipality	Environmental Services for Undertaking a Water Use Licence Application (WULA) for Kirkwood WWTW, for the Sundays River Valley Local Municipality	Lead EAP	2022-2023
Black Mountain Consulting Engineers on Behalf of Sundays River Municipality	Environmental Impact Assessment - refurbishment of Enon & Bersheba waterborne sanitation	Lead EAP and Social Facilitator	2022
iX Engineers on behalf of Blue Crane Route Municipality	Upgrading of sewer pumpstation and stormwater in Somerset East	Lead EAP	2022
Lech Consulting Civil and Structural Engineers	Proposed Langbos Bulk Water and Sewer Pipelines: Basic Assessment and EMP and Water Use Licence Application	Lead EAP	2021
<b>ECO</b>			
ROHM Consulting on behalf of Ndlambe Local Municipality	ECO Services for Ndlambe sewerage and WTW infrastructure remedial works: Environmental Management Programme	Lead ECO	2023
Lech Consulting Civil & Structural Engineers on behalf of Sundays River Valley Municipality	ECO Services: Construction of Langbos sewer outfall	Lead ECO	
Nafasi Water	Environmental Operational Audit for the Central Basin Acid Mine Drainage Treatment Plant's, Environmental Authorization (EA), Water Use Licence (WUL) and Environmental Management Programme (EMPr), in Gauteng Province, South Africa	Lead Auditor	2022
Nafasi Water	Environmental Operational Audit for the Eastern Basin Acid Mine Drainage Treatment Plant's, Environmental Authorization (EA), Water Use Licence (WUL) and Environmental Management Programme (EMPr), in Gauteng Province, South Africa	Lead Auditor	2022

Client	Type of Work Executed	Role	Period
Relethabo Construction	Environmental Control Officer (ECO) Services for Chatty Sewer Pipeline Construction in the Nelson Mandela Bay Municipality	Lead ECO	2016-2019

## BUILDINGS AND SIMILAR STRUCTURES

Client	Type of Work Executed	Role	Period
<b>EIA</b>			
Bulumko Education Foundation	Basic Assessment: Construction of a Technical school in Middelburg	Lead EAP and Social Facilitator	2024
BM development infrastructure on behalf of Mbhashe Local Municipality	Basic Assessment and WULA: Proposed Willowvale Taxi Rank	Lead	2023-2023
Senqu Local Municipality	Basic Assessment and WULA: Bluegums Sport Facility for Senqu local Municipality	Lead EAP and Social Facilitator	2022-2023
<b>ECO</b>			
Phuka tsa Nong	Environmental Compliance Monitoring of rehabilitation and Habitat Assessment at Enel Green Power Station	Lead Consultant	2021
Inakho Projects Solutions (Pty) Ltd	ECO Services: Construction of Mngqumashe Abattoir in Butterworth	Lead ECO	2018-2019

## WASTE PLANNING AND COMPLIANCE AUDITING

Client	Type of Work Executed	Role	Period
<b>Planning</b>			
Nelson Mandela Bay Development Agency	Waste transfer station site selection, environmental screening and environmental compliance auditing	Project Lead	2023
Department of Economic Development Environmental Affairs and Tourism	Phase 2: Appointment of a service provider for complementary waste management services to the inland region (Bisho/ King Williams Town Area) of Buffalo City Metropolitan Municipality: Waste transfer station design and environmental permitting	Project Manager and Social Facilitator	2022-2023
Department of Economic Development Environmental Affairs and Tourism	Phase 1: Appointment of a service provider for complementary waste management services in the Buffalo City Metropolitan Municipality: Profiling illegal dumping and site selection for waste transfer station	Project Manager and Social Facilitator	2020-2021
<b>COMPLIANCE AUDITING</b>			
ISUZU South Africa	ISUZU Waste Storage Facility Audits with Norms and Standards, Gqeberha	Lead Auditor	2023
Amahlathi local municipality	Landfill compliance auditing and operations management & EPWP labour recruitment	Project Lead	2020-2021

Client	Type of Work Executed	Role	Period
	General waste advisory and new cell development pre-feasibility		
Lech Consulting Civil & Structural Engineers on behalf of Sundays River Valley Municipality	Kirkwood- Landfill external compliance audits	Lead Auditor	2021
Lech Consulting Civil & Structural Engineers on behalf of Sundays River Valley Municipality	Patterson- Landfill external compliance audits	Lead Auditor	2021
Lech Consulting Civil & Structural Engineers on behalf of Sundays River Valley Municipality	Sunlands- Landfill external compliance audits	Lead Auditor	2021

## OTHER WASTE PLANNING EXPERIENCE

Employer	Client	Role	Period	Description
Gibb Environmental (Pty) Ltd	Oudtshoorn Local Municipality	Waste Planning Consultant	Jan 2019 – Dec 2019	Development of Oudtshoorn IWMP
Gibb Environmental (Pty) Ltd	Bitou Local Municipality	Waste Planning Consultant	Jan 2019 – Dec 2019	Review of Bitou IWMP
Gibb Environmental (Pty) Ltd	George Local Municipality	Waste Planning Consultant	Jan 2019 – Dec 2019	Review of George IWMP
Gibb Environmental (Pty) Ltd	Hessequa Local Municipality	Waste Planning Consultant	Jan 2019 – Dec 2019	Review of Hessequa IWMP
Gibb Environmental (Pty) Ltd	Kannaland Local Municipality	Waste Planning Consultant	Jan 2019 – Dec 2019	Review of Kannaland IWMP
Gibb Environmental (Pty) Ltd	Knysna Local Municipality	Waste Planning Consultant	Jan 2019 – Dec 2019	Review of Knysna IWMP
Gibb Environmental (Pty) Ltd	Mossel Bay Local Municipality	Waste Planning Consultant	Jan 2019 – Dec 2019	Review of Mossel IWMP

## QUARRY MINING

Client	Type of Work Executed	Role	Period
Zanokhanyo	Environmental Impact Assessment & WULA of the Proposed Mining of Dolerite from the Sandile Dam Quarry in Keiskammahoek, Amahlathi Local Municipality	Lead EAP and Social Facilitator	2022

## ENVIRONMENTAL MONITORING

### GROUNDWATER QUALITY MONITORING, ANALYSIS, INTERPRETATION AND/OR MODELLING

Client	Type of Work Executed	Role	Period
Senqu Local Municipality	Detailed geohydrological investigation and detailed groundwater quantitative exploitability	Project Manager	2021-2024
Senqu Local Municipality	Borehole sighting drilling, yield quantity and quality analysis	Project Manager	2021-2024

### MARINE AND SURFACE WATER QUALITY MONITORING, ANALYSIS AND INTERPRETATION

Client	Type of Work Executed	Role	Period
Transnet SOC LTD	Marine and Estuarine Water Quality Specialist Assessment: Proposed Upgrades of Quay Wall within the port of East London	Project Manager	2022-2024
Transnet SOC LTD	Marine Water Quality Specialist Assessment: Rehabilitation of the old Tug Jetty Sheet pile wall of Port of Port Elizabeth	Project Manager	2022-2024
East London Industrial Development Zone	Provision of water quality monitoring services (Marine water, storm water and trade effluent discharge)	Project Lead	2021

**Certification.**

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes my qualifications, my experience, and myself. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.



Signed at Gqeberha on the 10/01/2025