

APPENDIX 1

Curriculum Vitae of EAP

Curriculum Vitae of Louis de Villiers



Nationality : South Africa
Profession : Environmental Consultant
Specialization : Environmental Management and GIS
Date of birth : 22 December 1983
ID Number : 831222 5030 080

CONTACT DETAILS

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QUALIFICATIONS:

- **UNIVERSITY OF THE FREE STATE**

2010: B.Sc. Environmental Geography

- **NOSA Bloemfontein**

2013: SAMTRAC

EXPERIENCE:

2009:

Practical demonstrator at the UFS (Geography Department): Second Year Geographic Information Systems Students

2010:

Practical demonstrator at the UFS:

- First year Introduction to Chemistry
- Second year Soil Science
- First year Introduction to Geography
- First year Urban Geography

- Second year Geographic Information Systems

Dec 2010 – March 2018:

Environmental Consultant at Eko Environmental

April 2018 – Current:

Director and Environmental Consultant at Turn 180 Environmental Consultants

FIELD OF EXPERTISE:

Environmental Impact Assessments

Environmental Management Reports

Mining authorisations

Waste license applications

Atmospheric Emission license applications

Water Use Authorisations

Data and GIS management

Environmental Compliance Audits and Monitoring

PROJECTS:

The following table indicates relevant experience under Turn 180 Environmental Consultants and previous employers:

Start and end Date	Project	Applicant
2011	Application for Environmental Authorization through BAR process for the construction of chicken broiler houses and an abattoir on the farm Welton RE/1587, Bloemfontein	Department of Public Works – Free State
2011	Applications for Environmental Authorization through BAR Process for the construction of chicken broiler houses on various farms (Approximately 15) in the Reits District of the Free State	Various applicants – Project managed by Grain Field Chickens
2011	Applications for Environmental Authorization through BAR Process for the construction of a pipeline for the bulk transportation of water on the farms Loverswalk 1063, Holpan 260 and Smithskraal 1519, Boshof RD	Mr. J. Greyling
2012	Application for Environmental Authorization through S&EIR Process in terms of Section 24G of the NEMAA and an application for an Atmospheric Emissions License for the operation of an incinerator on the farm Grootvlei RE/206, Bloemfontein	Department of Public Works – Free State
2012	Applications for mining authorisations for borrow pits and quarries on the N6 Bloemfontein – Onze Rust road upgrade project, Bloemfontein District, Free State	SANRAL
2013	Application for Environmental Authorization through BAR Process in terms of Section 24G of the NEMAA for the infilling of material into a watercourse for access on the farm Jagersfontein 16/14, Fauresmith RD	Jagersfontein Developments (Pty) Ltd
2013	Application for a mining permit for the dolerite mining operation on the farm Plooyfontein 177, Hanover, Northern Cape	African Mining and Crushing
2013 – current	Environmental Compliance monitoring for the diamond tailings operation at Jagersfontein, including monthly dust fallout sampling and water quantity and quality monitoring	Jagersfontein Developments (Pty) Ltd
2013 – current	Environmental Compliance monitoring for the alluvial diamond mining operation at Rooipoort, Kimberley District, including water quantity and quality monitoring	Rooipoort Developments (Pty) Ltd
2013 (Issued in	Application for a Water Use License for the Rooipoort	Rooipoort

2016)	Developments Diamond Mining Operation, Kimberley District, Northern Cape	Developments (Pty) Ltd
2014 (Issued in 2018)	Application for a Water Use License for the Jagersfontein Diamond Tailings Operation, Fauresmith District, Free State	Jagersfontein Developments (Pty) Ltd
2014	Applications for Environmental Authorization through BAR Process for the construction of chicken houses on the farm Daniels Kuil RE/393, Bloemfontein RD	Sunell Griesel Trust
2014	Applications for Environmental Authorization through BAR Process for the construction of chicken houses on the farm Opdiekoppie RE/2904, Bloemfontein RD	Opdiekoppie Trust
2014	Application for Environmental Authorization through BAR Process in terms of Section 24G of the NEMAA for the clearance of more than 1 ha of indigenous vegetation of the farm Zand Plaats 15/102, Kimberley RD.	Rooipoort Developments (Pty) Ltd
2014	Application for a mining permit for the dolerite mining operation on Erven 226 and 238/RE, Indwe, Eastern Cape	Tau-Pele Construction (Pty) Ltd
2014	Application for a mining permit and Water Use License Application for the sand mining operation on the farm Van Niekerksrust RE/1782, Bloemfontein, Free State	Mr. C. Van Niekerk
2015	Applications for Environmental Authorization through BAR Process and a Water Use License for the construction of a weir in the Wilge River on the farm Riverview RE/1062, Reitz	Department of Water and Sanitation
2015	Applications for Environmental Authorization through BAR Process and a Water Use License for the construction of a weir in the Vals River on the farm Brandhoek RE/20, Lindley	Department of Water and Sanitation
2015	Application for 2 mining authorisations for the dolerite mining operation on the farm Lower Tele 15 (communal land), Musong Village, Sterkspruit District, Eastern Cape	Department of Roads and Public Works – Eastern Cape
2016	Application for a mining permit and Water Use License Application for the sand mining operation on the farm Glen Alphen 4/73, Ladybrand, Free State	Tewie Wessels Familie Trust
May 2018	Storm Water Management Plan for the kimberlite diamond operation on the farm Blaauwboschfontein 4/229, Boshoff, Free State	Kophia Diamonds
April 2018	Storm Water Management Plan for the alluvial diamond operation on the farm Slangheuvel 4/160, Barkley West	Thunderstone Investments (Pty) Ltd

2018	Application for an Atmospheric Emission permit to establish a mobile asphalt plant on Portion 10 of Portion 7 of the farm Mooiplaats 328, Belfast, Mpumalanga.	Tau-Pele Construction (Pty) Ltd
2018	Environmental Compliance monitoring for the special maintenance of national route R56 sections 6 and 7 between Indwe and Maclear, Eastern Cape.	KBK Engineers
2018 - 2019	Application for an amendment of the Environmental Authorization for the sand mining operations on Portion 3 of the farm Glen Alphen 74, Ladybrand, Free State.	Tewie Wessels Familie Trust
2018 - 2019	Application for Environmental Authorisation, Water Use License and Mining Permit for a dolerite mine on the remainder of the farm Johns Rust 1361, Harrismith, Free State.	Tau-Pele Construction (Pty) Ltd
2018 - 2019	Application for Environmental Authorisation for the erection of a telecommunication mast on the remainder of the farm Bloemfontein 654 (Naval Hill Nature Reserve), Bloemfontein, Free State.	Iclix (Pty) Ltd
2019 - Ongoing	Application for Environmental Authorization and an Atmospheric Emission License for the establishment of an Emulsion Plant on erf 1559, Hardustria, Harrismith, Free State.	South African Road Binders (Pty) Ltd.
2019 - Ongoing	Application for Environmental Authorization and a Water Use License for the Establishment of a public garage on Portion 15 of the farm Musket 2718, Bloemfontein, Free State.	PAP Properties (Pty) Ltd
2019 - Ongoing	Application for Environmental Authorization for the establishment of an agricultural related sales and storage area and a public garage on the remaining extent of the farm Outspan 1960, Bloemfontein, Free State.	Oos Vrystaat Kaap Bedryf (Edms) Bpk

Curriculum Vitae of Lizel Kennedy



Nationality : South Africa
Profession : Geohydrologist
Specialization : Geochemistry and Geohydrology
Date of birth : 10 May 1992
ID Number : 9205100036082

CONTACT DETAILS

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e-mail : lizel@turn180.co.za

QUALIFICATIONS:

- **UNIVERSITY OF THE FREE STATE**

2014: B.Sc. Geochemistry

2015: B.Sc. Honores Geochemistry

2020: M.Sc. Geohydrology

EXPERIENCE:

2016-2019 GCS Environmental and Groundwater Consulting (Internship)
Project with Water Research Commission of South Africa

- Water quality monitoring and hydro-geochemical investigations of coal mine pit lakes
- Hydro census, aquifer testing and associated reporting

2020 Free-lance and pro-bono work in Exploration Geology projects;

- Geological data processing, Field geological mapping, GIS (maps, sections, interpolation modelling),
- Sample management and supervision of RC drilling programs

Jan. 2021 – Current Junior Environmental Consultant and EAP Assistant at Turn 180 Environmental Consultants

- Writing Basic Assessment Reports
- Mine permit applications
- Water quality and monitoring reporting

FIELD OF EXPERTISE:

- Water quality sampling and monitoring
- Drilling supervision
- Mine permit applications
- Basic Assessment Reports/ Environmental Authorisation

PROJECTS:

The following table indicates relevant experience under Turn 180 Environmental Consultants and previous employers:

Start and end Date	Project	Client
October 2016- April 2019	Water quality and water balance assessments of coal mine pit lakes of Anglo Coal, Sasol, Kangra and BHP Biliton, Mpumalanga, KZN and Limpopo Provinces. <i>Title: An investigation to determine if South African coal mine pitlakes are a viable closure option.</i>	Water Research Commission and GCS Water and Environmental Consultants
February 2018	Magnetic survey for geological exploration of fissures on the Farm Blaauwboschfontein 4/229, Boshoff, Free State	Kophia Diamonds
February 2020- November 2020	Geological exploration drilling and resource estimation of Fe-Mn ore body near Postmasburg, Northern Cape.	4 Arrows Mining
January 2021- ongoing	Mine Permit Application and Basic Assessment Report for a borrow pit on the Farm Vlakfontein 210. Lady Grey District, Eastern Cape.	Tau Pele (Pty) Ltd
January 2021 - ongoing	Water quality monitoring and environmental auditing	Jagersfontein Developments