

CURRICULUM VITAE



STEVEN NICHOLAS BOK

NAME OF FIRM : JEFFARES & GREEN (PTY) LTD

NAME OF PERSON : STEVEN BOK

NATIONALITY : SOUTH AFRICAN

DATE OF BIRTH : 1979/05/30

PROFESSION : GEOLOGIST

POSITION IN FIRM : ENGINEERING GEOLOGIST

QUALIFICATION : B.Sc. (Hons) Pr.Sci.Nat

SPECIALISATION IN FIRM : ENGINEERING GEOLOGY, GEOTECHNICAL

YEARS OF EXPERIENCE : 9

YEARS WITH FIRM : 9

SUMMARY OF EXPERIENCE

After completing a BSc (Hons) in geology at the University of Port Elizabeth, Mr Bok commenced work at Jeffares & Green. He obtained registration as a *Professional Natural Scientist* in 2007. Main responsibilities have been the undertaking and managing of various geotechnical investigations. Tasks have included planning and conducting field investigations (trial pit profiling, geotechnical core logging, geological mapping, sampling, percolation testing etc) and compilation of geotechnical reports. Experience has been gained in geotechnical investigations for housing developments, residential, commercial and industrial buildings, dams, pipelines and infrastructure including bridges, water treatment works and reservoirs. Mr Bok has undertaken road prism investigations and materials investigation for roads.

Recent projects include a geotechnical investigation for a bridge over the Zambizi River between Botswana and Zambia and centre line and materials investigations for a 70km section of haul road / railway line in Sierra Leone. Other projects in the last three years include investigations for the design of slope stability measures for 6km of cuttings on Transnet's Coal Line in northern KwaZulu Natal, Rand Water's H35 and R5 pipelines, a geotechnical and road construction materials investigation for the Sakoa Coal Mine project in Madagascar, a geotechnical investigation for a bulk water treatment works for the Metolong Dam project in Lesotho and the geotechnical investigation for the Maseru Waste Water Project (two waste water treatment works and pump stations).

He has been involved in geotechnical investigations for earth fill and concrete dams including the proposed Ludeke Dam (Eastern Cape), Black Umfolozi Dam (Zululand), Thuni Dam (Botswana) and the Bulwer Dam (KwaZulu Natal Midlands).

Mr Bok was involved in undertaking an assessment of road construction materials for the entire West Coast District gravel road network which resulted in the creation of a database of existing and potential gravel wearing course borrow pits for the Provincial Administration of the Western Cape.

Mr Bok has undertaken geophysical investigations for quarries and borrow pits, groundwater

identification and bridge and dam site investigation. Geophysical methods used are p- and s -wave seismic surveys, 2D resistivity and EM-34 electromagnetic surveys.

SOCIETY MEMBERSHIP

None

EDUCATION

1997 : **Matric** – Grey High, Port Elizabeth
2001 : **BSc (Hons)** (Geology) – University of Port Elizabeth

SPECIFIC EXPERIENCE

2009 to date *Jeffares & Green (Pty) Ltd – Johannesburg, South Africa*

Engineering Geologist

Geotechnical investigations for:

- Proposed wind farms near Lady Grey, Noupoot, Prieska & Loerisfontein:
Desktop geotechnical feasibility studies
- A 900m long cable stay bridge over the Zambezi River at Kazungula
- Involvement in the field investigations for a 50km long section of haul road /
railway line for African Minerals in Sierra Leone
- Large reservoirs and pump station infrastructure at Rand Water's Palmiet
Pumping Station
- Slope stability assessment for the widening of 5km of cuttings on Transnet's
Coalline at Dumbe, KwaZulu Natal
- The Rand Water F5 pipeline (600mm diameter), H35 pipeline (1000mm diameter)
and R5 pipeline (1500mm diameter), Gauteng
- The Maseru Waste Water Project, Lesotho

2002 to 2009 *Jeffares & Green Pty (Ltd).- Pietermaritzburg, South Africa*

Engineering Geologist

2007 - 2009

Geotechnical investigations for:

- The Rand Water F5 pipeline (600mm diameter) and H35 pipeline (1000mm
diameter), Gauteng
- The Metolong Dam Water Treatment Works, Lesotho
- Kasumbalesa Border Post upgrade in DRC for Tenke Fungurume Mining
- Sakoa Coal Mine, Madagascar – preliminary geotechnical investigation: Mine
Infrastructure & road materials investigation
- Embuthweni Community Water Supply Scheme
- Lesotho Lowlands Water Supply Scheme Zones 1, 4/5 & 8
- New England Road bridge over the N3, Pietermaritzburg
- Showroom complex, Erf 3554 Ballito Business Park
- Additions to the East London and Mount Ruth Stations, Eastern Cape
- Valentine Bridge and access road, uMkomaas River near Richmond
- Webroy Holdings new factory site, Pietermaritzburg
- Shell service station in Phoenix
- Dukuza-Hoffenthal Water Supply Scheme

Geotechnical investigations for various housing estates and residential developments including:

- Mount Verde, Otto's Bluff
- Erf 69 Hardingsdale
- Farm Fordoun No 14783
- Rawdons Hotel, Nottingham Road
- Farm Koppieskraal, Kokstad
- Farm Tweefontein, Kokstad
- Potsdam Peri-urban and Ikhwezi Block II, Mdantsane, Eastern Cape

2005 - 2006

Geotechnical and materials investigations for:

- South Coast Pipeline – 48km bulk supply pipeline, KZN South Coast
- Ozwathini CWSS – 30km bulk reticulation pipeline, pump stations and rising mains
- Mthembu West CWSS – 8km bulk reticulation pipeline and two reservoirs
- Thuni Dam – Detailed investigation - 1.6km earth fill dam in eastern Botswana
- Thin Strip Mill at Zone II of the Coega IDZ, Port Elizabeth.
- Middeldrift Phase II water supply scheme
- Upgrading to surface standards of Main Road P68 km near St Faiths – Road Prism & materials investigation

Geotechnical investigations for various housing estates and residential developments including:

- Craigieburn Agri-village near Mooi River
- Falls Downe development, Howick
- Kamberg Farms, Kamberg Valley
- Boddington Farm 20 unit housing development, Nottingham Road
- Spurwing Lodge, Albert Falls Dam
- Gated & small holding estate at Himeville
- Simplex development on Erf 330 Hilton
- 100 unit upmarket residential development at Lamonts Vale & Leliefontein, near Pietermaritzburg
- Phase II of the Bosch Hoek residential and golf course development
- Ptn 17 of Erf 107 Merrivale

Geotechnical investigations for low cost housing developments at:

- Esikhawini, Richards Bay
- Vulamehlo, Nqutu

2004 : Zululand Rudimentary Water Supply Program – Location and testing of production boreholes
 : Black Umfolozi Weir and Dam - Geotechnical investigation for a 30m high concrete dam and associated weir in Zululand, KZN
 : Toscana Ridge Estate, Hilton – Preliminary geotechnical investigation and road centerline survey
 : Kwahlophe & Matimatolo CWSS – Assistant to Resident Engineer: 3 months on site

2002 – 2003 : Lesotho Lowlands Water Supply Scheme – Geophysical investigation at three proposed dam sites
 : West Coast gravel road network – assessment of construction materials for the complete district gravel road network
 : Ludeke Dam near Bizana, Eastern Cape – Geotechnical & materials investigation

- : Geotechnical and materials investigation for various community water supply schemes
- : EIA Scoping investigations for 8 filling stations in the Pietermaritzburg and Durban areas

LANGUAGES

English : *Very Good*
Afrikaans : *Fair*