




## Resume

### Stephan Meyer Hydrogeologist Director

Stephan has 13 years' experience as a hydrogeological consultant with a key focus on mine dewatering, water supply and associated sustainability practices with a focus on cost efficiency. Stephen is proficient in Feflow® modelling software.

#### Summary of Experience

- Worked on a wide variety of hydrological and hydrogeological projects with a strong emphasis on numerical groundwater flow modelling, water census and hydrogeological monitoring, hydrogeological risking and management as well as dewatering design and implementation.
- Countries of experience include Republic of South Africa (RSA), Democratic Republic of Congo (DRC), Zambia, Botswana, Namibia, Zimbabwe, Sierra Leone, Kenya, Spain and Siberia.
- Key study projects are provided below;
  - Goldfields Twin Shaft Depressurisation, South Africa
  - Goldfields Doornpoort TSF Scavenger Well implementation, South Africa
  - Alphamin Tin HydroGeological Assessment, Democratic Republic of Congo (DRC)
  - Karowe Diamond Mine dewatering design and UG planning assessment, Botswana
  - Kinsevere Copper Mine Dewatering Oxide and Sulphide Zones, DRD
  - Nokeng Fluorspar Water Supply which included numerical modelling and Dewatering Design, South Africa
  - Kenya Fluorspar Dewatering Assessment Study, Kenya
  - KCC KOV & Kamoto Underground Dewatering Phase 1, DRC
  - Musonoi Detailed Dewatering Assessment: Numerical Modelling Study, DRC
  - Kisanfu Copper Mine: Detailed Mine Dewatering Design, DRC
  - Platmin Sedibelo Rural Water Supply, South Africa
  - Platmin Update of Hydrogeological Specialist Study, South Africa
  - SLR Otjikoto Mine Dewatering study, Namibia
  - Lonmin Regional Water Supply, South Africa
  - KML KOV Piezometer Installation and Packer Testing Supervision, DRC
  - Skorpion Zinc Hydrogeological Specialist Study, Namibia
- **2007-2017 Exigo Sustainability (Pty) Ltd, Hydrogeological Consultant, South Africa**  
Key achievements include;
  - Hydrogeological unit manager 2010-2012
  - Extensive work in geohydrological field assessment programs, testing and detailed numerical modelling with scientific reports drafted and presented to clients.
  - Scoping of projects, project development and management of numerical groundwater flow modelling using Feflow®.
  - Environmental geohydrological impact and risk assessments.
  - Environmental decision making and sustainability assessments.

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- Mine water and regional water resources management for open pit and underground mine design for feasibility studies focusing on surface water and ground-water impact particularly with geotechnical risks.

- **2017 – ongoing consulting Noa Agencies (Pty) Ltd**

- Numerical groundwater flow modelling, water and monitoring as well as dewatering design, implementation and commissioning.
- Groundwater and water management reviews and implementations.
- Project and operational assessment and report writing.

- **Professional analytical strengths**

- Evaluation of groundwater specialist studies in the mining industry, which includes water supply, ground water flow, mine dewatering design and groundwater pollution. Experience in PFS and DFS mine studies.
- Groundwater flow and contaminant transport modelling. Statistical modelling for water supply assurance levels, risk assessments, dewatering design and contaminant transport.
- Environmental geohydrological impact and risk assessments.
- Groundwater management for water supply and Environmental Management Programmes (EMP's).
- Borehole drilling supervision and design (water supply, dewatering and monitoring boreholes).
- Aquifer testing design and implementation: packer testing, constant discharge, falling head tests and constant head tests.
- Environmental monitoring and development of project scale monitoring protocols.
- Analytical groundwater balances and aquifer sustainability and conceptual models.
- Characterization of aquifers with a focus on management of regional groundwater systems.
- Data evaluation and interpretations.
- Analytical and Strategic/Environmental thinking and decision making.
- Data capturing, database development and management.

### **Qualifications**

- 2004-2008 Bachelor of Applied Science in Geohydrology (Honours), University of Free State South Africa
- 2007 Bachelor of Science Environmental and Engineering Geology, University of Pretoria, South Africa

### **Professional Membership**

- Geological Society of South Africa (GSSA)
- Groundwater Division of the Geological Society of South Africa
- SA Council for Natural Scientific Professions (SACNASP)

### **Languages**

- English (written and spoken)
- Afrikaans (written and spoken)