Name	Henry Mukendwa	**Organisation**	HJ GeoEnviro
Qualifications	BTech, BSc(Hon), PGDIP (Business Administration), & MSc		
Countries of Experience	Namibia		

Summary of Experience

Mr H Mukendwa is a qualified Geoscientist with over 18 years of working experience in the field water resources, environmental management and infrastructure planning. He holds a BTech Geology and Geotechniques; BSc (Hon) Hydrogeology; MSc in Hydrogeology. He also holds Certificates of achievement in Project Management, groundwater modelling and pollution, risk management of groundwater aquifers, GIS, International water law, Emotional intelligence, Presentation skills, Natural resources accounting and Technical Writing Skills. He specialises in hydrogeology, hydrology and infrastructure planning, and also in systematic development and review of terms of references, project proposals, ongoing and finished projects. Mr H Mukendwa successfully developed a funding proposal submitted to the International Atomic Energy Agency (IAEA) on the use of environmental isotopes in groundwater studies in Namibia. In addition to the above, he also assisted the Environmental Investment Fund (EIF) of Namibia in formulating an Environmental and Social Risks Screening Report: Increasing Climate Change Resilience of CBNRM through adaptation in the Tourism Sector in Namibia for submission to the Green Climate Fund (GCF). He has a good understanding of water resources planning and management as well as water supply conveyance, distribution and holding infrastructure.

Membership and Affiliations

- 2010: Member of the Namibia Hydrogeological Association (Active)
- 2012: Associate Member of the Water Institute of Southern Africa (WISA) (Active)

Publications

- H. Mukendwa and G. Van Tonderi. (2010). Conceptual modelling of groundwater flow controls of the Kombat Aquifer. University of the Free State.
- Mukendwa H, and Sirunda J. (2017). The hydraulic response of fractured aquifers and their implication to sustainable use: the case of the Combat aquifer, Namibia. WaterNet Conference, Swakopmund, Namibia.
- Paulus P, Kgabi N and Mukendwa H. (2017). Geochemical Analysis of Groundwater in the Omaruru-Swakop Basin, Namibia. Waternet Conference, Swakopmund, Namibia.
- M, Kakola, N, Kgabi, and M. Mukendwa. (2019). Geochemical assessment of groundwater in the Kuiseb Basin, Namibia, Paper 237. WaterNet Conference, Johannesburg, South Africa.

Employment History	Job Title
2016 to Present	Director Geohydrology at HJ GeoEnviro Consulting Independent Consultant
July 2019 to present.	Senior Manager/Head of planning and water resources management at Namibia Water Corporation (PTY) LTD
2005 to 2014	Hydrogeologist at Namibia Water Corporation (PTY) LTD
2014 to June 2019	Manager: Geohydrology Division Namibia Water Corporation (PTY) LTD

Education

1. Bachelor of Technology Degree in Geology and GeoTechniques (**Tshwane University of Technology, Pretoria, South Africa**) **Major Subjects:** ▪ Engineering Geology ▪ Hydrogeology; ▪ Geology; ▪ Geophysics ▪ Soil Mechanics ▪ Environmental law	**2. Bachelor of Science Degree (Honours)** in Hydrogeology (**University of the Free State, Bloemfontein, South Africa**) **Major subjects:** ▪ Groundwater Modelling ▪ Numerical Methods: Groundwater Flow ▪ Aquifer Mechanics ▪ Groundwater Management; ▪ Hydrochemistry and Pollution ▪ Geophysics
3. Postgraduate Diploma Business Administration (**University of Cape Town, Graduate School of Business, Cape Town, South Africa**) **Major Subjects:** ▪ Value Based Leadership ▪ Transformational Leadership ▪ Critical Thinking ▪ System Thinking ▪ Integrative Thinking ▪ Managerial Statistics ▪ Personal Development ▪ Operation Management ▪ Business Strategy ▪ Finance ▪ Human Resources Management ▪ Strategic Marketing ▪ Governance and Ethics ▪ Emerging Markets	**4. Master of Science in Hydrogeology (University of the Free State, Bloemfontein, South Africa)** **Research Topic**: Conceptual Modelling of Groundwater Flow Controls, Kombat Aquifer, Namibia. **Focus Areas:** ▪ Hard Rock Aquifer Mechanics ▪ Hydrochemistry ▪ Conceptual Modelling

Selected water and environmental projects conducted and completed

PROJECTS UNDERTAKEN AND COMPLETED

WATER RESOURCES OR SUPPLY RELATED PROJECTS

- 2006: Bergsig, Erwee and Anker Groundwater Scheme Extensions: Groundwater Investigations, Drilling and Test Pumping of Boreholes.
- 2007: OMDEL Aquifer Upgrade: Groundwater Investigations, Drilling and Test of Pumping of 27 Boreholes in the Omdel Aquifer for supply to langer Henirich Mine.
- 2009: Re-Establishment of the Farm Rietfontein Wellfield: Test Pumping of Six Boreholes on farm Rietfontein, Grootfontein Distric, Otjozondjupa Region.
- 2010: Kombat Wellfield Establishment: Investigation, Drilling and Test Pumping four Deep Boreholes at Kombat.
- 2010: Establishment of the Rodenhof and Otjimbonde Wellfields at Kalkfekd: Investigation, Drilling and Test Pumping 14 Boreholes at Kalkfeld.
- 2011: MpunguVlei Groundwater Scheme Extension: Investigation, Drilling and Test Pumping 3 Boreholes at MpunguVlei.
- 2012: Various Projects aimed groundwater supply Sustenance: Gochas WSS, Omdel WSS, Kuiseb WSS
- 2013: Recommissioning of the Karst Boreholes: Investigation, Drilling and Test Pumping 18 Boreholes around the Karst Area.
- 2014: Water Supply Security to the Central Cost: Expedited and managed the onset of the drive to develop Numerical Groundwater Flow Models for the lower Kuiseb and Omdel Aquifers to secure sustainable water supply to the Central Coastal towns.
- 2015: Towards Sustainable Groundwater Use: Investigating the Omaruru Delta (ODEL) Southern Paleo-Channel, Central Namib, As a Potential Future Groundwater Source, an academic project conducted in associated with the University of the Free State.
- 2015: Re-Assess the Impacts of Abstraction on the Surrounding Environment of the Kuiseb Aquifer: Construction of a Numerical Groundwater Flow Model for the Kuiseb River Aquifer; an academic project conducted in associated with the University of the Free State.
- 2016: Geochemical Analysis of Groundwater in the Omaruru-Swakop Basin, Namibia: A joint Academic Project done in association with the Namibia University of Technology.
- 2016: Establishment of Eenhana Wellfield: Investigations, Drilling and Test Pumping of 3 Deep Boreholes in the Ohangwena II Aquifer.
- 2016: Sustenance Of Deployable Groundwater Output of Existing Sources: Systemization of the annual boreholes replacement and rehabilitation Programme.
- 2017: Compilation of the Tsumkwe Constituency Water Supply Schemes Desk study: A Detailed Structural Geology and Hydrogeology Aimed at delineating the hydrogeological Settings of the NamWater Groundwater Schemes in Tsumkwe Constituency.
- 2017: Kuiseb Aquifer Upgrade: Investigations, Drilling and Test Pumping of 26 Borehole in the Kuiseb Delta.

ENVIRONMENT RELATED INVESTIGATIONS COMPLETED

- 2013: Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) for the proposed granite exploration study by Stone Evolution and Equipment Hire Cc, Swakopmund.
- 2014: Environmental Impact Assessment (EIA) and Environmental Management for the proposed small scale surface mining for marble for EPL: 4692, Erongo Region, Karibib District, Namibia by Bohale Investment Cc, Karibib.

- 2014: Environmental Impact Assessment (EIA) and Environmental Management for the proposed small scale surface mining for marble for EPL: 4693, and 4694, Erongo Region, Karibib District, Namibia by Bohale Investment Cc, Karibib.
- 2014: Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) for the proposed domestic wastewater oxidation pond system for Okalongo Settlement, Omusati Region, Outapi District, Namibia.
- 2014: Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) for the proposed upgrading and renovation of domestic wastewater oxidation pond system for the Himarwa Ithete Senior Secondary School, Kavango West Region, Mpungu District, Namibia.
- 2015: Tender compilation, invitation of drillers, evaluations of tender, recommendation of successful tenderer, drilling and test pumping supervision, and ground water resources evaluation and reporting for the proposed expansion of the Nkurenkuru hospital for Conselect Engineering Cc.
- 2016: Full EIA; Pyrolithesis Plant project including hydrology and hydrogeology of the site aimed at producing oil from tyres under the University of Namibia's Multidisciplinary Research Centre.
- 2016: Hydrogeological characterization and dewatering design of the Foundation of the new Nictus Building, Windhoek, under Beimester Consulting Engineers Ltd Pty.
- 2017: Specialist groundwater and surface water study for the proposed Tobacco Plantation in Zambezi Region under Risk Based Solutions.
- 2018: Full EIA for the Kunene Vocational College project under D&P Engineers cc for Namibia Training Authority (NTA) in Khorixas.
- 2018: Specialist water study including hydrogeology and hydrology of the Gorengab Dam for the Goreanga Dam Fuel Station Project.
- 2019: Specialist water study including hydrogeology and hydrology of oil and gas exploration Project in Kavango Region for Risk Based Solutions cc.
- 2019: Specialist water study including hydrogeology and hydrology of the proposed Mayana irrigation project in the Kavango East Region under Geo Enviro Consultant.

KEYS SKILLS

- MS word, MS excel, and MS PowerPoint Statistical skills in SPSS 14.0 for window, and ARGIS, groundwater modelling in MODFLOW, Suffer, Global Mapper softwares, and geophysical investigations.

ASSOCIATION WITH THE SCIENTIFIC COMMUNITY/SOCIETY

Core Supervised 4 Masters Students in the Environment and Water Sector

- Ms Selma Kotjipati, MSc (Environmental Management). (2015). Towards Sustainable Groundwater Use: Investigating the Omaruru Delta (ODEL) Southern Paleo-Channel, Central Namib, As a Potential Future Groundwater Source, University of the Free Sate.
- Mr Imanuel Kahuva, MSC (Environmental Management). (2015). Construction of a Numerical Groundwater Flow Model for the River Aquifer to Re-Assess the Impacts of Abstraction on the Surrounding Environment, University of the Free Sate.
- Mr Petrus Paulus, MSC (Integrated Water Resources Management). (2016). Geochemical Analysis of Groundwater in the Omaruru-Swakop Basin, Namibia. Namibia University of Technology.
- Mr Moses Kakola, MSC (Integrated Water Resources Management). (2018). Geochemical Analysis and Resources estimation of Groundwater in the Kuiseb Basin, Namibia. Namibia University of Technology.

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H Mukendwa **Date: 2019/09/19**