

Manda Hinsch

Principle Scientist / Associate Partner



Profession	Water Scientist
Education	BSc (Hons), Water Utilisation, University of Pretoria, 1993 BSc, Biochemistry & Chemistry, University of Johannesburg (former RAU), 1981
Registrations/ Affiliations	Pr Sci Nat (South Africa), 400164/09 Member, FWISA

Specialisation

Water quality management, water allocation, waste management, project management, water and environmental legislation, policy development; policy implementation, environmental authorisations, water resource management

Expertise

Manda Hinsch has been involved in the water sector field for the past 31 years. Her expertise includes:

- thorough and in depth understanding of the South African water legislation; National Water Act (1998) associated with links to the Water Act of 1956;
- water reform strategies and reallocation. development of policies for implementing water allocation reform (WAR) in South Africa with associated pilot implementation;
- implementation of WAR in selected catchments the implementation of validation,
- development of awareness material for the implementation of Water Allocation Reform;
- evaluation of impacts and management through the issuing of Water Use Authorisations and the management of hazardous and solid waste for industrial, mining water and waste water systems;
- implementation and policy development in water and related fields particular focus on water quality management and management of water quality in urban and informal areas;
- waste management strategies for the then Pretoria Council and project management;
- institutional development in the water sector- establishment of Catchment Management Agency in the Crocodile West Water Management Area and diffuse source pollution;
- member of various steering Committees, e.g Development of Classification System, 2010 Water Quality Standards etc. And basic environmental assessments;
- extensive experience in the environmental and water legislation both in policy development and implementation and environmental (hydrology and water quality) investigation for nuclear sites;
- surface water specialist studies including monitoring protocols and plans;
- annual water monitoring studies and small towns water reconciliation studies;
- steering and guiding of research projects in the water field through the Water Research Commission;
- extensive international experience gained in water management from study tours to Europe, the USA and China on the management of Water quality and related fields;
- development and implementation of policy and strategy on pollution from urban areas.

Employment

Jan 2008 - present	SRK Consulting (Pty) Ltd, Water Scientist, Pretoria
Aug 1993 – Dec 2007	Department Of Water Affairs, Deputy Director: Water Quality Management, Pretoria
1991 - 1993	Bergman & Partners Inc. Consulting Engineers, Senior Consultant< Johannesburg
1988 - 1991	Waste Tech, Hazardous Waste Consultant, Germiston
1983 - 1988	Council For Mineral Technology, (Mintek), Research Assistant, Johannesburg
1981 - 1983	UCOR, Technical Officer, Pellindaba

Publications

Selected publications and contribution to professional reports, and study tours

Languages

English – read, write, speak (Excellent)
Afrikaans – read, write, speak (Excellent)
German – read, write, speak (Fair)

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Publications

1. Presented paper at the AMCOW meeting in Ethiopia in preparation for the UN Sustainable Development Meeting in New York 2004
2. Presented a paper at the United Nations Habitat meeting in Weihai in preparation for the African Ministers Committee of Water (AMCOW) meeting in Ethiopia in December 2003
3. Hinsch, M. and Quibell G Managing the water quality effects of Settlements, Department of Water Affairs and Forestry
4. R.G. M. Heath; Hinsch M, and Pulles. Unique implication of policies and solutions to diffuse pollution management in a developing country – South Africa
5. NATO Meeting in Canada regarding the rehabilitation of contaminated land by Industries.
6. Various papers were read at local conferences on topics relating to Catchment Management, Water Quality Management and remediation of contaminated land
7. Harmonising land use management with catchment management.
8. The Bigger Picture: Managing water quality impacts in an urban context

Manda Hirsch

Principle Scientist / Associate Partner

Key Experience: Integrated water- and environmental management

Location: South Africa, Gauteng
 Project duration & year: Apr 2013 – Mar 2014
 Client: African Exploration Mining & Finance Corp
 Name of Project: Vlak Ph3
 Project Description: Vlakfontein Phase 3 EMP
 Job Title and Duties: Principal Scientist
 Value of Project: R2 000 000.00

Location: South Africa
 Project duration & year: Mar 2013 – Mar 2014
 Client: Optimum Coal Services (Pty) Ltd
 Name of Project: Iwula Kwagga
 Project Description: Environmental Authorisation & Iwula Kwagga
 Job Title and Duties: Principal Scientist
 Value of Project: R1 800 000.00

Location: South Africa, North-West
 Project duration & year: Sep 2013 – Nov 2013
 Client: Bafokeng Rasimone Platinum Mine JV
 Name of Project: Styldrift 2013 Audit
 Project Description: Styldrift 2013 WUL & EMP Audit
 Job Title and Duties: Principal Scientist
 Value of Project: R1 000 000.00

Location: South Africa, Gauteng
 Project duration & year: Sep 2013 – Nov 2013
 Client: City of Tshwane Metropolitan Municipality
 Name of Project: Tshwane ERM
 Project Description: Tshwane ERM Services
 Job Title and Duties: Principal Scientist
 Value of Project: R1 000 000.00

Location: DRC
 Project duration & year: Jun 2013 – Nov 2013
 Client: Nyumba Akiba S.A.R.L
 Name of Project: Nyumba Water
 Project Description: Nyumba Ahiba Water
 Job Title and Duties: Principal Scientist
 Value of Project: R1 000 000.00

Location: Phalaborwa
 Project duration & year: Ongoing , 2011
 Client: Foskor Mining Division
 Name of Project: Water Use Licence Audit and IWWMP Update
 Project Description: Water Use licence audit on the mine in terms of compliance with all licensing conditions. Updating of the IWWMP
 Job Title and Duties: Project Auditor
 Value of Project: R300K

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Key Experience: **Integrated water- and environmental management**

Location: Thyspunt, Bantamsklip and Duynefontein
 Project duration & year: 2009 - 2011
 Client: Eskom Holdings Soc Limited
 Name of Project: EIA for the Nuclear 1 Project (Hydrology)
 Project Description: The Environmental Impact Assessment (EIA) relates to the construction and operation of a Conventional Nuclear Power Station and associated infrastructure in the Eastern or Western Cape areas. The Sites, which will be investigated during this EIA, have been identified based on previous site investigations undertaken since the 1980s. The Environmental Impact Report (EIR) comprises the baseline information and an impact assessment for the following Sites: Duynefontein; Bantamsklip; and Thyspunt.
 Job Title and Duties: Responsible for the water quality component and impact assessment
 Value of Project: R1500K

Location: Nkomati and Mputo Basins
 Project duration & year: 22 months, 2009- 2011
 Client: PRIMA, TPTC
 Name of Project: Progressive Realisation of the IncuMaputo Agreement, Development of a Disaster management Plan for the catchments
 Project Description: Development of a water disaster management plan for the two catchments. The objective of the assignment was to prepare sets of comprehensive disaster preparedness, implementation and management plans, protocols and decision support systems for each of the identified basins to mitigate the possible effects of floods, droughts and major pollution accidents.
 Job Title and Duties: Leading Consultant in the team for the Water Quality Component
 Value of Project: R5 800K

Location: Mogalakwena Municipality
 Project duration & year: 18 months, Jan 2008 – July 2009
 Client: Mogalakwena Municipality
 Name of Project: Environmental Authorisation for the pipeline for bulk water supply.
 Project Description: Obtaining an environmental authorisation for the bulk water supply pipeline from Flag Bosheillo dam to the municipality from the relevant authority. Specialist studies for the project included biodiversity and aquatic evaluations which were performed by specialists in this field
 Job Title and Duties: Project Manager and technical advisor
 Value of Project: R600K