

Present Appointment	Senior Environmental Practitioner; Environmental Division
Date of Birth	22 June 1976
ID Number	7606225098083
Nationality	South African
Education	Greenside High School, Johannesburg, South Africa Matriculated 1994. Full Colours Award for Academics, 1993
Professional Qualifications	B.A. (Hons) (Geography and Environmental Studies) 1995-1998. Awards: Postgraduate Merit Award for outstanding marks, Certificate of First Class for Honours Year Coursework: Environmental Management, Geographical Information Systems (GIS-Idrisi) and Remote Sensing applications, Climatology, Rural and International Development Studies, History, Anthropology. Honours Research Paper "GIS as a Social Technology" was published in the September 1999 issue of the South African Geographical Journal
Professional Registration	Member of the International Association of Impact Assessment (IAIAsa)
Field of Specialisation	Visual Impact Assessments, Tourism Impact Assessments, EIA process management
Languages	English, Afrikaans

SYNOPSIS

Paul has worked at SiVEST in the capacity of Senior Environmental Practitioner in the Environmental Division in Johannesburg since February 2005. During his time at SiVEST he has worked on a number of projects, including Strategic Environmental Assessments, Environmental Impact Assessments, Environmental Management Plans, and Environmental Auditing. He has been the project manager for a number of EIAs including the Eskom Thyspunt Transmission Lines project. He has completed specialist visual and tourism assessment work on a number of projects. Paul has also worked in the water field during his time at SiVEST and as part of previous roles.

Paul has worked previously for the Mondi Wetland Project, and has gained extensive experience of wetland delineation, wetland threat identification, and wetland restoration during work undertaken for the Mondi Wetlands Project and during his time at SiVEST. Paul has gained international environmental management experience; In addition to working in the USA as an intern for the US National Park Service, Paul worked in the UK for three years, and in this time worked in various regulatory and water resources assessment roles for both the Environment Agency in England and Wales and the Scottish Environment Protection Agency. In this time Paul gained excellent experience and skills relating to catchment management planning, hydro-ecological risk assessment, water resource regulation and involvement in water resources strategies.

Professional Training

- Course on soil form classification and wetland delineation; presented by Terra Soil Science, Johannesburg, October 2008
- Course on Grass Identification; presented by Frits van Outshoorn, Johannesburg, January 2009
- Advanced Course on Grass Identification, presented by Frits van Outshoorn, Modimolle, February 2010

Computer Training / Knowledge

- Successfully completed a training course on ArcGIS (ArcInfo 8.1) through GIMS (Geographic Information Management Systems – associates of ESRI in South Africa), October 2001.
- Proficient working knowledge of ArcView and ArcGIS software.

PROFESSIONAL HISTORY

Feb 2005 to present time

Senior Environmental Practitioner: SIVEST SA (PTY) LTD Environmental Division

Paul has acted as a project leader, managing the finances, and technical content of a number of projects. He is a senior staff member in the division. Paul has also undertaken specialist wetland, as well as visual impact and tourism assessments on a number of projects.

VISUAL IMPACT SPECIALIST ASSESSMENTS

- Visual Impact Assessment for the proposed relocation of the Skukuza Conference Centre
- Visual Impact Assessment for the proposed re-commercialisation of the Skukuza Airport
- Visual Impact Assessment for the proposed development of residential apartments in Ramsgate, KZN
- Strategic Visual Impact Assessment for the Marula Region Strategic Environmental Assessment, Kruger National Park
- Visual Impact Assessment for the redevelopment of the Newmarket Racecourse, Alberton, Gauteng
- Visual Impact Assessment a new Eskom Transmission Substation, Malelane, Mpumalanga
- Visual Impact Assessment for the Thyspunt Transmission Lines Integration Project, Eastern Cape
- Visual Impact Assessment for proposed Eskom Distribution Power lines, Delareyville – Kophela, North West Province
- Visual Impact Assessments for the Spoornet Coallink Powerline Projects in KZN and Mpumalanga (projects currently underway)
- Visual Impact Assessments for Concentrated Solar Power Projects in De Aar and Kimberley, Northern Cape

TOURISM IMPACT SPECIALIST ASSESSMENTS

Responsible for overseeing and completing Tourism Impact Assessments for:

- Tourism Impact Assessment – Thyspunt Nuclear 400kV Transmission Lines
- Tourism Assessment for a railway line and water pipeline for manganese mine-Kalagadi Manganese
- Tourism Impact Assessment – Proposed Humansrus Concentrating Solar Power Plant, Northern Cape Province
- Tourism assessment for the CSP and PV plants in Kimberley, Northern Cape Province
- Tourism assessment for the CSP and PV plants in Loeriesfontein, Northern Cape Province
- Tourism assessment for the CSP and PV plants in De Aar, Northern Cape Province
- Tourism assessment for the proposed substation near Kombe with associated turn-in power lines and two new 88kV power lines-Ulundi to Emekwezini
- Tourism Impact Assessment for the Eskom Steelpoort Pumped Storage Scheme
- Tourism Impact Assessment for the Matimba B Power Station EIA
- Amajuba Battlefields Development Plan

ENVIRONMENTAL IMPACT ASSESSMENTS, ENVIRONMENTAL MANAGEMENT PLANS, ENVIRONMENTAL AUDITING

Linear Infrastructure

- EIA studies for the proposed New Multi Products Pipeline (Transnet Pipelines): Inland Routes – Kendal to Waltloo and Jameson Park to Langlaagte.
- Compilation of Construction Environmental Management Plan (CEMP) for

- the Eskom Transmission Lines between Zeus and Atlas Substations (Mpumalanga / Gauteng)
- Project Manager of the EIA for the Thyspunt Transmission Lines Integration Project (proposed construction of Eskom 400kV lines from the proposed Thyspunt Nuclear Power Station to Grassridge near Coega, Eastern Cape Province)
- Project Manager for the Mookodi Integration Project (proposed construction of Eskom Distribution Power lines and Substations – Vryburg / Stella area, North West Province)

General

- Detailed Scoping Study for new luxury camp at Ngala Private Game Reserve.
- EIA for new Eskom Transmission Substation in Malelane, Mpumalanga
- EIA for redevelopment of Newmarket Racecourse, Alberton, Gauteng
- Project Manager for the Basic Assessment Study for proposed Relocation of Skukuza Conference Centre, Kruger National Park

Filling Stations and other commercial developments

- Detailed Scoping Studies (under the ECA environmental regulations) for Proposed Sasol / Exel Filling Stations at:
 - Mafikeng
 - Kimberley
 - Randfontein
 - Zwartkops Raceway - Pretoria
 - Vanderbijlpark (Riverside Boulevard)
 - Witbank (Highveld Mall)

Environmental Auditing

- Marataba Bush Lodge (Marakele National Park) Environmental Auditing
- Forum Homini Lodge (Cradle of Mankind) Environmental Auditing
- Auditing of new lodge – Timbavati Private Nature Reserve
- Environmental Auditing for the Emfuleni Mall (Vanderbijlpark)
- Environmental Auditing of the construction of the Skukuza Conference Centre, Kruger National Park

STRATEGIC ENVIRONMENTAL ASSESSMENTS & SPATIAL ENVIRONMENTAL PLANNING

- Clarens Area Strategic Environmental Assessment and micro Spatial Development Framework – spatial environmental assessment
- Gert Sibande Municipality Spatial Development Framework
- Strategic Environmental Assessment for the Marula Region, Kruger National Park

WATER-RELATED

Wetlands

Numerous wetland delineations and assessments including:

- Wetland delineation and assessment for the Proposed NMPP Petronet Pipeline – Inland Routes
- Development of a wetland inventory and wetland assessment for the Greater Clarens Area Strategic Environmental Assessment.
- Wetland Delineation and Assessment for the EIA for the proposed luxury camp at Ngala Private Game Reserve
- Wetland Functional Assessment for the Eskom Project Lima (proposed pump-storage scheme) in Mpumalanga.
- Wetland Delineation at a community centre site in Cato Manor, Durban
- Wetland Delineation and Functional Assessment for the construction of a new road in Isipingo, Durban.
- Wetland Delineation, Functional and Health Assessment, and Rehabilitation Planning for the Upper Klip River and Klipspruit Catchments, Johannesburg
- Wetland Delineation and Assessment for the proposed UCG Project, near Majuba Power Station, Mpumalanga

- Surface Water Assessment for the proposed Eskom Transmission Lines from Thuyspunt to Port Elizabeth
- Auditing of the construction of the New Multi Products Pipeline (NMPP) Inland lines from Kendal to Waltloo and Jameson Park to Langlaagte through sensitive wetlands. Duties include training of the ECO's, review and approval of all wetland crossing methodologies and on-site auditing (Project currently underway).
- Wetland Delineation and Impact Assessment for an Eskom Distribution powerline between Marathon and Delta Substations, Nelspruit area, Mpumalanga
- Wetland and Surface Water specialist input into the Tlokwe Local Municipality Environmental Management Framework
- Wetland Delineation and Impact Assessment for the rectification application for bridge upgrading on the D622 road in the Bethal area, Mpumalanga
- Wetland Delineation and Assessment for a township establishment in Glen Erasmia, Gauteng
- Wetland Delineation and Functional Assessment for proposed powerlines to supply the NMPP Inland Terminal in the Nigel Area, Gauteng
- Wetland Delineation and Assessment for proposed Eskom Distribution Powerlines in the Delmas Area, Mpumalanga
- Wetland Delineation and Assessment for the proposed upgrading of the Rand Water C6 Pipeline, East Rand, Gauteng
- Wetland Delineation and Assessment for a proposed Eskom Distribution underground cable in the Fourways Area, Johannesburg

Hydromorphology

- Specialist restoration and ecological input to Montecasino Phase II Upgrade (design of Ecolink)
- Assessment of River Crossings and input into rehabilitation along the overland section of the Gautrain Rapid Rail construction phase, Gauteng.
- Assessment of a number of sites in the Soweto Area where impacts on wetlands are present. Assessment of the nature of the threats, with suggestion of rehabilitation and remediation actions.

OTHER

- Review of a number of EIA's in the Newcastle Area (under the old ECA Regulations) as part of the delegation of DAEA regulatory duties to SiVEST.
- Pre-feasibility assessment for proposed commercial developments, Port St. Johns, Eastern Cape
- Facilitation of a DWAF workshop with national wetland stakeholders on the compilation of guidelines for the wise use of wetlands

Oct 2003 - mid Dec 2004 S

COTTISH ENVIRONMENT PROTECTION AGENCY Aberdeen, UK: Senior Water Resources Officer,

Responsible for regulating abstraction and impoundment in the Highlands and Grampian Region of Scotland, and assisting with the development and implementation of new regulatory regimes related to the EU Water Framework Directive (WFD).

WATER RESOURCES REGULATORY AND POLICY DEVELOPMENT

- The development of internal abstraction technical guidance for use in the risk assessment of impacts of abstraction proposals across the whole of SEPA; & development of training provided to regulatory staff relating to the use of the guidance.
- Applying the requirements for protection of the water environment and sustainable water usage under the WFD to various different abstraction & impoundment consultations, primarily hydropower, public water supply consultations and other EIA consultations.

- Liaising with internal SEPA functions such as hydrology, hydrogeology and area environmental improvement and regulation teams to develop tools and work methodologies for instituting and implementing new regulatory regimes and impact assessment techniques.
- Responsible for external liaison with various water usage sectors to ensure that abstraction / impoundment activities are undertaken in a sustainable manner.
- Acquired a comprehensive working knowledge of the EIA process, having assessed a number of EIA consultations at screening, scoping and environmental assessment stages.

CATCHMENT MANAGEMENT PLANNING

- Project management of a pilot Water Resources Management Strategy in the Spey Catchment.

ABSTRACTION RISK ASSESSMENT

- Acquired an excellent working knowledge of the principles of abstraction / impoundment risk assessment and mitigation, and of best practice in environmental regulation.

HYDROPOWER

- Represented SEPA on the Scottish Hydropower Working Group, a UK government-led initiative for better regulation of the Scottish Hydropower industry.
- Acquired a comprehensive understanding of hydropower scheme dynamics, as well as an understanding of the ecological impacts of hydropower schemes, mitigation of hydropower impacts, & cost-benefit analysis techniques relating to development of hydropower schemes.

Sep 2002 to Oct 2003.

THE ENVIRONMENT AGENCY Ipswich, UK CAMS Officer

CATCHMENT MANAGEMENT PLANNING

Responsible for the delivery of the North Norfolk CAMS (Catchment Abstraction Management Strategy)

Responsibilities included:

- Undertaking technical work to assess the impacts of water abstraction in various hydrometric catchments within North Norfolk.
- Managing contributions from various Agency functions to ensure the delivery and completion of the project.
- Liaising with external stakeholders to ensure that the project took account of the needs of the environment, as well as the reasonable needs of all water users.
- Acquired an excellent understanding of the principles of catchment management and water resources management planning.
- Acquired experience of working in technical disciplines of hydrology and ecology.
- Acquired project management experience and experience of stakeholder involvement and consultation in the context of development of water resource strategies.

April 2002 – Sep2002

THE ENVIRONMENT AGENCY Ipswich, UK; Water Resources Licensing Officer

WATER RESOURCES REGULATORY AND TECHNICAL ASSESSMENT

- Worked as a licensing officer in the water resources regulatory team in the eastern area of the Environment Agency's Anglian region.
- Responsible for assessing proposals to abstract water as part of the water abstraction licensing determination process. Conducted assessments of hydromorphological and ecological impacts of abstraction.

- Responsible for the management of a project to converge time-limited abstraction licenses in North Norfolk to a common end date in the context of the UK Habitats Regulations.
- Acquired experience of the water abstraction licensing system and underlying legislation in England, as well as in-depth knowledge of the EU Birds and Habitats Directives and the principles and stipulations contained within it.
- Gained a thorough understanding of the principles of environmental regulation, environmental risk assessment and requirements of protecting the water environment.

1998 – 1999, 2001**MONDI WETLANDS PROJECT – MWP (formerly the Rennies wetlands project) South Africa: Field Assistant and Survey Team Leader****WETLAND ASSESSMENT AND RESTORATION**

- Participated in wetland surveys in 10 major river catchments in 6 South African provinces.
- Extensive field experience in wetland delineation, wetland threat identification, and wetland restoration.
- Undertook contract work with the Working for Water govt. Project (Northern Province) to survey and identify wetland rehabilitation sites in the Nyl and Mokolo River catchments, Feb-April 2001.
- As a wetland survey team leader trained and educated wetland survey participants about wetland conservation and impact assessment in the field.

Feb – Oct 2000**NATURAL RESOURCES DIVISION AT GATEWAY NRA, NYC, USA
Volunteer Intern in the Division****GIS**

- Responsible for operating the Division's GIS system (ArcView 3.1, ArcInfo 7) and undertaking spatial analysis and creating maps for various park projects, primarily the JABERRT Project.

CONSERVATION AND ENVIRONMENTAL MANAGEMENT

- Participant and field assistant in various studies and projects related to the Jamaica Bay Ecosystem Restoration (JABERRT) Project (Fisheries seining and trawling, water quality testing, mammal surveys, GIS mapping of salt marshes).
- Responsible for undertaking a monitoring programme of wildlife habitation and recreational usage of various park beaches. Co-author of NPS Internal report concerning the study.