
Present Appointment	Senior Environmental Scientist
Year of Birth	22 May 1976
Nationality	South African
Place of Birth	Johannesburg
ID NO.	7605225040087
Education	Kearsney College, Botha's Hill, KZN (1990 – 1993) Matric Exemption (Natal Education Department) University of Natal, Pietermaritzburg, KZN 1994 – 1998 University of Natal, Durban, KZN 2001 – 2004
Professional Qualifications	Bachelor of Science (Botany and Ethno Economic Botany) (1998), University of Natal, Pietermaritzburg, KZN Bachelor of Science Honours (Geography & Environmental Management) (2001), University of Natal, Durban, KZN Currently Master of Science (Environmental Science), UKZN, Durban
Professional Registration	Member of South African Council for Natural Scientific Professions (Pr.Sci.Nat) – Ecological Sciences (Reg No. 400151/07)
Associations:	IAIA(SA) (KZN Committee member 2007-2009) KZN Wetland Forum Ethekwini Biodiversity Forum
Field of Specialisation	Wetland Ecology: Delineation, Functional / Health Assessment, Management and Rehabilitation Integrated Environmental Management: Environmental Impact Assessment / BA, Environmental Management, Feasibility/Environmental Risk Assessment; Remediation and Auditing
Languages	English, Afrikaans

Synopsis Greg joined SiVEST on 1 April 2007 as a Wetland Ecologist and Environmental Scientist in the Environmental Division.

Wetlands Ecology:

Greg has undertaken a number of wetland delineations, has provided general and site-specific wetland management steps to avoid or mitigate impacts and improve system health. In further addressing the issues of wetland health and value, Greg has integrated the specialist field of Wetland Health and Functional Assessment into the delineation process. Through the inclusion of this component, the delineation process moves from merely placing the wetland boundary on a map to providing vital and very relevant information on the status health of the wetland, the goods and services provided by the system and guides the rehabilitation planning for the system. This information can be integrated into development planning and helps guide impact assessment, resource utilisation and management and biodiversity conservation.

Core skills utilised in this field include:

- Field data collection including soil sampling; field mapping and vegetation sampling.
- Mapping of the wetland boundary using GIS and CAD packages;
- Vegetation assessment and mapping;
- Assessment of the wetlands health, functionality and the impacts that have occurred in the system using WET-Health & WET-EcoServices;
- Recommend suitable buffers to wetland environments that take into account the sensitivity of the system as well as the nature of the activity proposed around the wetland;

- Provision of suitable management protocols & steps to avoid or mitigate further impacts;
- Compilation of detailed wetland rehabilitation and management plans for degraded systems that require restoration; and Monitoring of rehabilitation progress.

Key Projects (Selected)

- Cornubia Mixed-Use Development – Mt Edgecombe – Wetland Impact Assessment;
- Various wetland studies for low-cost housing projects including Trenance Park, Madumeni, Molweni, Lower Langefontein, Lower Thornwood, Philani Valley, Klaarwater, Emalangeneni, Mpola and Zamani
- Various ESKOM Powerline Projects
- Ntuzuma Trunk Sewer, Amanzimtoti Trunk Sewer and Phoenix Trunk Sewer
- Makhatini Flats, Pongola – Wetland specialist study;
- Grindrod Bulk Terminals Expansion, Richards Bay – Wetland Assessment
- Foskor Expansion, Richards Bay – Site Assessment and Off-set Planning
- Lake Sibaya Community-based Eco Estate – Wetland Assessment

Integrated Environmental Management:

Greg has successfully managed a number of impact assessment related projects. These include desktop and site assessments as part of feasibility planning exercises, Basic Assessments, Environmental Impact Assessments (EIA), Strategic Environmental Assessments (SEA) and Environmental Management Frameworks (EMF). Coupled with this is the subsequent alignment of Construction and Operational Environmental Management Plans (EMP) with authorisations to ensure best environmental practice on site for the life of the project.

Greg's Impact Assessment experience includes capital infrastructure projects such as powerlines, major roads and pipelines; a variety of housing projects (both low-cost as well as residential estates); game lodges; fuel filling stations; construction auditing

Core skills utilised in this field include:

- Project management
- Detailed Reporting writing
- Impact Assessment using various approved methods;
- Mitigation planning;
- Conducting various levels of Public Participation;
- Construction and operational phase environmental management
- Pre-acquisition auditing
- Environmental compliance monitoring
- Strategic Environmental Planning and Management

Key Projects (Selected)

EIA

- Bulwer Dam EIA;
- Ngcebo Pipeline EIA
- Rorqual Estate EIA;
- Farm Isonti Low Income Housing EIA;
- Canelands Industrial Park EIA;
- Canonbrae Housing EIA
- Umkomaas Waste Water Treatment Works (WWTW) EIA
- Izotsha WWTW EIA
- Crookes Brothers – Renishaw EMF
- Thanda Game Reserve – various lodges – SEA
- Cornubia Mixed-use Development - Wetland Impact Assessment (WIA)

Environmental Compliance Monitoring

- Cornubia Phase 1A – Environmental Auditing;
- Philani Valley Housing – Auditing
- Campbell Rd, Wager Rd, Mahogany Dr – Auditing
- Kindlewood Housing – Auditing
- Warwick Triangle –N3 Inbound/Outbound Flyovers - Auditing
- Havaan Forest Estate – Compliance Auditing
- New Multi Product Pipeline (NMPP) – Wetland Auditing;
- SATI/AECI – Glucose Spill – wetland monitoring

Professional History**Apr 2007 – to date****SiVEST Environmental Division: Senior Environmental Scientist**

Various environmental projects including Specialist Wetland Studies (Delineation, Functional Assessments and Rehabilitation Plans).EIA/Scoping Reports, Environmental Management Plans, Environmental Monitoring and Auditing and Re-vegetation Plans

May 2005 – Apr 2007**NMH Consulting, Durban, KZN : Environmental Scientist**

Management of a number of environmental studies including EIA/Scoping Reports, Environmental Management and Monitoring. Re-vegetation Plans and Specialist Wetland Studies (Delineation, Functional Assessments and Rehabilitation Plans).

June 2004-Dec 2005**SRK Consulting (Durban) Durban, KZN Environmental Scientist (Contract)**

Various environmental projects including EIA/Scoping Reports, Environmental Management Plans, Auditing and specialist wetland studies.

Jan 2001 - April 2004**Various Specialist Wetland Contracts and Environmental Impact Assessments**

Involved in various projects run and managed by the Centre for Environment and Development (CED) in the Geography Department of UKZN, Durban. Projects included a variety of wetland ecological studies as well as involvement in a series of EIA's managed through the Department.

Oct 1999-Nov 2000**SEEBoard plc. Worthing, UK: EMS Project member**

Involved in the development and implementation of the company wide Environmental Management System in accordance with ISO 14000 compliance regulations.

July 1996**Natal Parks Board, St Lucia and Mkhuze, KZN: Field Researcher**

Involved in the collection of animal distribution data as part of the Mkhuze GR and Eastern Shores Large Herbivore Census.

Dec 1995-Jan 1996**Key Guarding & Training, Bulwer, KZN: Farm Security Manager / Anti-poaching**

Farm security manager involved in stock and wildlife protection and anti-poaching patrols for Natal Trust Farms (121 000 Ha). Duties involved management of 6 guard outposts and 26 security staff

Earlier Publications

Ellery W.N and Mullins R.G (2004), Cotswold Downs Residential Estate and Golf Course: Wetland Delineation and Assessment – Waterfall, School of Life and Environmental Sciences, University of Natal Durban.

Ellery W.N, Herman K.R and Mullins R.G (2003), Wetland Report for Trans Africa Development Company – Reservoir Hills, School of Life and Environmental Sciences, University of Natal Durban.

Ellery W.N, Herman K.R and Mullins R.G (2003), Specialist environmental input for uMkhuze – Ophanzi crossing: Floodplain hydrological and ecological assessment, School of Life and Environmental Sciences, University of Natal Durban.

Ellery W.N and Mullins R.G. (2002), Vegetation Distribution on the Eastern Shores of Lake St. Lucia. Paper presented at the SAIE&ES and SASAQS Conference, University of the Free State, Free State.

Mullins R.G. (2001), Vegetation Distribution on the Eastern Shores of Lake St. Lucia with Particular reference to Hydrology and Soils. Unpublished B.Sc. (Hons) Thesis, School of Life and Environmental Sciences, University of Natal Durban.