

## CURRICULUM VITAE

### KAREN JODAS

*Director: Savannah Environmental (Pty) Ltd  
Environmental Scientist (MSc, Pr.Sci.Nat)*

#### SKILLS BASE AND CORE COMPETENCIES

- Eleven (11) years experience in the environmental management and assessment field
- Nine (9) years experience in Project Management
- Project management of large environmental assessment & environmental management projects
- Experienced in the identification & assessment of potential environmental impacts & benefits
- Experienced in the development of practical & achievable mitigation measures & management plans, and evaluation of risk
- Experienced in the formulation of environmental strategy, policy & guidelines
- Working knowledge of environmental planning processes, policies, regulatory frameworks & legislation
- Experienced in the compilation and review of the reports in accordance with all relevant environmental legislation
- Wide range of experience for public and private sector projects - completed more than 50 environmental projects for a wide variety of Clients
- Experienced in undertaking public participation processes for a variety of projects
- Completed projects in all nine Provinces of South Africa, as well as Zambia and Lesotho
- *Specialisation:* Strategic environmental assessment and advice; Project Management and co-ordination of environmental projects; Environmental Management; Environmental Impact Assessment; Integration of environmental studies and environmental processes into larger engineering-based projects and ensuring compliance to legislation and guidelines; Hydrology and Water Management; General Ecology
- Registered Professional Natural Scientist (Registration No 400106/99)

#### TERTIARY EDUCATION

B.Sc Earth Sciences, majoring in Geography and Zoology, *Rhodes University, Grahamstown, 1993*

B.Sc Honours in Geography (in Environmental Water Management), *Rhodes University, Grahamstown, 1994*. Major subjects included Water Resources Management, Streams Ecology, Fluvial Geomorphology and Geographic Information Systems.

M.Sc in Geography (Geomorphology), *Rhodes University, Grahamstown, 1996*

Water Quality Management, *Potchefstroom University, 1998*

Environmental Law Course, *Aldo Leopold Institute, 2002*

#### EMPLOYMENT HISTORY

Nov 2006 – present: Savannah Environmental (Pty) Ltd: Director; Environmental Scientist

Oct 1997 – Oct 2005: Bohlweki Environmental (Pty) Ltd: Associate, Environmental Scientist

#### SELECTED RELEVANT PROJECT EXPERIENCE

- EIA and EMP for the proposed wind energy facility and associated infrastructure at a site within the Western Cape (Eskom Generation) – project management & report compilation
- Development of a comprehensive site-specific EMP for the construction and operation of the Eskom Braamhoek Integration Project, Free State and KwaZulu-Natal Provinces (Eskom Transmission) - project management & report compilation
- EIA and EMP for the proposed Steelpoort Integration Project, Mpumalanga & Limpopo Provinces (Eskom Transmission) – report compilation
- Environmental Scoping Study for a new coal-fired power station in the Lephalale area, Limpopo Province (Eskom Generation) – report compilation
- Detailed Environmental Scoping Study & public participation for the proposed Capacity Increase Project at Arnot Power Station, Mpumalanga Province (Eskom Generation) - report compilation
- Numerous EIAs for various electricity sector projects (generation, transmission & distribution) in all nine provinces of South Africa

## **CURRICULUM VITAE**

### **JO-ANNE THOMAS**

*Director: Savannah Environmental (Pty) Ltd*

*Environmental Scientist*

#### **SKILLS BASE AND CORE COMPETENCIES**

- Ten (10) years experience in the environmental field
- Experienced in project management for a range of projects
- Experienced in the identification and assessment of potential negative environmental impacts and benefits through the review and manipulation of data
- Experienced in the identification of practical and achievable mitigation and management measures and the development of appropriate management plans
- Experienced in the compilation and review of environmental reports in accordance with relevant environmental legislative requirements
- Experienced in the formulation of environmental policies, strategies and guidelines
- Experienced in undertaking public participation processes for a variety of projects
- Experienced in providing strategic environmental advice to a wide variety of clients both in the public and private sectors
- Working knowledge of environmental planning processes, policies, regulatory frameworks and legislation
- Registered Professional Natural Scientist (Registration No 400024/00)

#### **TERTIARY EDUCATION**

B.Sc Earth Sciences, *University of the Witwatersrand, Johannesburg, 1993*

B.Sc Honours in Botany, *University of the Witwatersrand, Johannesburg, 1994*

M.Sc in Botany, *University of the Witwatersrand, Johannesburg, 1996*

#### **EMPLOYMENT HISTORY**

Nov 2006 – present: Savannah Environmental (Pty) Ltd: Director; Environmental Scientist

Oct 1997 – Oct 2005: Bohlweki Environmental (Pty) Ltd: Environmental Scientist

#### **SELECTED RELEVANT PROJECT EXPERIENCE**

- EIA and EMP for the proposed Steelpoort Integration Project, Mpumalanga & Limpopo Provinces (for Eskom Transmission)) – project management & report compilation
- EIA and EMP for the proposed wind energy facility and associated infrastructure at a site within the Western Cape (for Eskom Generation)) – report compilation
- Development of a comprehensive site-specific EMP for the construction and operation of the Eskom Braamhoek Integration Project, Free State and KwaZulu-Natal Provinces - project management & report compilation
- EIA and EMP for the proposed Open Cycle Gas Turbine (OCGT) Power Station and associated 400 kV Transmission lines and substation at Atlantis, Western Cape Province - project management & report compilation
- Environmental Scoping Study for a new coal-fired power station in the Lephalale area, Limpopo Province – report compilation
- Detailed Environmental Scoping Study & public participation for the proposed Capacity Increase Project at Arnot Power Station, Mpumalanga Province
- Numerous EIAs for various electricity sector projects (generation, transmission & distribution) in all nine provinces of South Africa

## **CURRICULUM VITAE**

### **JOHN VON MAYER**

*Savannah Environmental (Pty) Ltd  
Environmental Consultant*

#### **SKILLS BASE AND CORE COMPETENCIES**

- 2 years experience in environmental field
- Experience with identification and assessment of environmental impacts
- Experience in environmental compliance and monitoring
- Strong competencies in the assessment of renewable energy generation projects
- Report writing and presentations including Basic Assessments, EIA reports and EMPs.
- Knowledge of environmental legislation and policies, planning process and regulatory frameworks
- Knowledge and experience of public participation process
- Understanding of social patterns, problems and forces

#### **TERTIARY EDUCATION**

*University of the Witwatersrand (BSc)*

*University of Witwatersrand (BSc Hons)*

*Majors in geology and geography. Honours level geography courses in Environmental Management, Air Pollution Meteorology, Climate Change, Sustainable Development, Geomorphology. Biodiversity Conservation, Environmental Policy.*

#### **EMPLOYMENT HISTORY**

March – June 2008 Metago Environmental Engineers: Junior Environmental Consultant

June 2008 – Present Savannah Environmental: Junior Environmental Consultant

#### **SELECTED RELEVANT PROJECT EXPERIENCE**

- EIAs for Eskom Power Transmission Line Projects in Limpopo Province (Mokopane Integration Project) and Gauteng Province (Kyalami Strengthening Project)
- EIA for Wind Energy Facility near Hopefield, Western Cape Province
- EIAs for Wind Energy Facilities near Cookhouse and Indwe and Molteno, Eastern Cape Province
- Basic Assessments for Wind Monitoring Masts in the Western, Eastern and Northern Cape
- Environmental Audits for Eskom Duvha Mine Water Recovery Project
- Regional Assessment projects for siting of Proposed Wind Energy Facilities
- Scoping Report for proposed Cookhouse Wind Energy Facility in the Eastern Cape

## CURRICULUM VITAE

### SHAWN JOHNSTON

*Sustainable Futures ZA*

*Process Facilitator*

#### **SKILLS BASE AND CORE COMPETENCIES**

- Facilitator, Mediator and Trainer
- Planning, Process Design and Conceptualising
- Facilitation, Public and Stakeholder Liaison
- Process Coordination, Problem Solving and Negotiation Skills

#### **TERTIARY EDUCATION**

- B.Tech Environmental Management – Cape Peninsula University of Technology, Cape Town
- National Diploma in Horticulture – Cape Technikon, Cape Town
- Certificate in Conflict Resolution and Environmental Mediation – Partnership Lifeskills Centre/Global FutureLinks – Washington DC, USA

#### **EMPLOYMENT HISTORY**

- Leadership South Programme
- FutureLinks South Africa
- Common Ground Consulting
- Sustainable Futures ZA

#### **SELECTED RELEVANT PROJECT EXPERIENCE**

- **LEAD FACILITATOR, OLIFANTS/DORING RIVER WATER USER ASSOCIATION CAPACITY BUILDING PROJECT. (Current)** Acting as the lead facilitator and co-ordinator of the Olifant/Doring Water User Association Capacity Building for commercial farmers and emerging black farmers.
- **ESKOM PROCESS FACILITATOR, ESKOM ANKERLIG CLOSED CYCLE GAS TURBINE CONVERSION PROJECT AND ASSOCIATED PROJECTS, ATLANTIS – CAPE TOWN (Current)** Responsible for facilitating the public participation process for the Eskom Ankerlig gas turbine conversion from OCGT to CCGT and associated EIA studies relating to Ankerlig Power Station in Atlantis, Cape Town.
- **ESKOM PUBLIC PARTICIPATION PROCESS, ESKOM WIND ENERGY FACILITY, WEST COAST OF SOUTH AFRICA (Current)** Responsible for facilitating the public participation process for the EIA process of the proposed Eskom Wind Energy Facility near Koekenaap in the Matzikama Municipality on the Cape West Coast.
- **PART-TIME LECTURER, WATER AND CONFLICT, INTEGRATED WATER RESOURCES MANAGEMENT PROGRAMME AT THE UNIVERSITY OF THE WESTERN CAPE WESTERN CAPE (UWC) (2006 - Current)** Assisted with establishing the first Water and Conflict Resolution module in the M.Sc Integrated Water Resources Management degree course.

## **CURRICULUM VITAE**

### **TIMOTHY HART**

*UCT Archaeology, Archaeology Contracts Office (ACO)*

*Archaeologist and General Heritage Practitioner*

#### **SKILLS BASE AND CORE COMPETENCIES**

- Twenty (20) years experience in the archaeology and heritage specialist field
- Experienced in undertaking Archaeological assessments, Heritage Impact Assessments, Heritage Conservation Planning. ASAPA accredited for pre-colonial archaeology, colonial period, rock art, industrial archaeology, coastal archaeology, grave relocation
- Led and completed over 400 projects throughout the country ranging from minor assessments to participating as a specialist in a number of substantial EIA's as well as international research projects
- Professional member (no 50) Association of Southern African Professional Archaeologists (ASAPA)
- Principal Investigator, cultural resources management section (ASAPA)
- Professional member in specialist and generalist categories Association of Heritage Assessment Professionals
- Founder member of Association of Heritage Assessment Professionals
- Founder member and secretary CRM section ASAPA (1995)
- Council member (1995 – 2000) ASAPA
- Built environment and landscape committee member (2004-2007) Heritage Western Cape (provincial compliance authority for heritage)
- Honorary member of 2 historical associations.

#### **TERTIARY EDUCATION**

- Bachelor of Arts in Archaeology and Psychology
- BA Honours in archaeology
- MA in Archaeology

#### **SELECTED RELEVANT PROJECT EXPERIENCE**

- Development of a heritage management plan and ongoing annual mitigation for the De Beers Namaqualand Mines Division
- Heritage management for Namakwa Sands and other west coast and Northern Cape mining firms
- Specialist consultant – Eskom's Kudu Integration project (identifying transmission line routes across Namaqualand)
- Specialist consultant – Eskom's Atantis Open Cycle Gas Turbine project
- Specialist consultant – Nuclear 1
- Specialist consultant - PBMR
- Contracted by University of Stanford to set up and participate in Duinefontein Archaeological Research project, Koeberg Nuclear Power Station
- Specialist consultant – Department of Water Affairs raising of Clanwilliam Dam project
- Specialist consultant to De Beers Namaqualand Mines (multiple projects since 1995)

## **CURRICULUM VITAE**

### **TONY BARBOUR**

*Environmental Consultant and Researcher*

#### **SKILLS BASE AND CORE COMPETENCIES**

- Eighteen (18) years experience in the field of environmental management
- Undertaken in the region of 20 SIAs throughout South Africa
- Author of the Guidelines for Social Impact Assessments for EIAs commissioned by the Department of Environmental Affairs and Development Planning (DEA&DP) in the Western Cape
- Developed SIA Guidelines for the Department of Water Affairs and Forestry
- Work experience in South Africa, Namibia, Botswana, Zambia, Lesotho and Swaziland

#### **TERTIARY EDUCATION**

BSc (Geology and Economics) Rhodes, 1984

BEcon (Hons) Rhodes, 1985

MSc (Environmental Science) University of Cape Town, 1992

#### **EMPLOYMENT HISTORY**

Private Consultant: November 2004-current.

University of Cape Town: August 1996-October 2004

Environmental Evaluation Unit (EEU), University of Cape Town. Senior Environmental Consultant and Researcher.

1991-1996: Ninham Shand Consulting (Cape Town). Senior Environmental Scientist.

1996-August 2000: Steffen, Robertson and Kirsten (SRK Consulting) – Associate Director, Manager Environmental Section, SRK Consulting, Cape Town.

Lecturing: 1990-current

- University of Cape Town: Environmental Economics, Social Impact Assessment, Strategic Environmental Assessment and Environmental Impact Assessment.
- Cape Technikon: Environmental Economics and Waste Management.
- Peninsula Technikon: Environmental Economics and Waste Management.

#### **SELECTED RELEVANT PROJECT EXPERIENCE**

- Social Assessment for Darling Wind Farm, Western Cape, South Africa (2001 – 2002)
- Portnet Saldanha, Western Cape, SA. EIA for the expansion of a bulk iron ore export facility at the Port of Saldanha (2000)
- Social Assessment for road up-grade between Gansbaai and Bredadorp, Southern Cape (2005).
- Social Assessment Zeekoevlei Golf Estate, Somerset West, Western Cape (2005)
- Social Assessment Silwersand Golf and Resort Estate, Robertson, Western Cape (2003).
- Social Assessment for Valkenberg East Site, Cape Town (2003)
- Development of Social Impact Assessment Guidelines for the Western Cape DEA&DP (2006)
- Social Assessment for Riversonderend Road By-pass (1991)
- Internal Review Consultant for Golder Associates on Namakwa Sands Heavy Mineral Mining EIA, Western Cape (current)
- Review of EIA for Zeekoevlei Golf Course Estate, Somerset West, Western Cape (2005);
- Review of EIA for Oostenberg Waste Transfer Station, Brackenfell, Western Cape (2004);
- Review of EIA for N7 Road Up-grade, Clanwilliam, Western Cape (2002)

## **CURRICULUM VITAE**

**David Hoare**

*David Hoare Consulting*

*Botanist / Ecologist*

### **SKILLS BASE AND CORE COMPETENCIES**

- Botanical researcher in projects involving the description of terrestrial and coastal ecosystems.
- Broad expertise in the ecology and conservation of grasslands, wetlands, fynbos and coastal ecosystems. Project expertise includes baseline biological surveys for the mining, forestry and utility industries, national vegetation mapping programmes for government and research organisations, natural resource management using satellite remote sensing and aerial photography, environmental management and project management (research projects).
- Botanical Specialist responsible for vegetation inventories, vegetation, habitat and land-use mapping, threatened plant species survey, alien species survey.
- Professional Natural Scientist: South African Council for Natural Scientific Professions (2005) Reg. no. 400221/05.
- Professional member: South African Institute of Ecologists and Environmental Scientists (2001

### **TERTIARY EDUCATION**

B.Sc (Botany and Zoology) Rhodes University;

B.Sc Honours (Botany) Rhodes University,

M.Sc. (Botany) University of Pretoria

PhD (in progress) – Nelson Mandela Metropolitan University, Port Elizabeth

### **SELECTED RELEVANT PROJECT EXPERIENCE**

- Ecological consultant since 1995. Author of 13 scientific publications, 6 technical scientific reports, 15 scientific conference presentations and over 130 specialist consulting reports. Attended 15 national and international congresses & 5 expert workshops, lectured vegetation science at 2 universities and referee for 2 international journals.
- Wide experience in botanical studies within grassland, savanna and fynbos, as well as riparian, coastal and wetland vegetation. Senior author on Thicket Biome chapter, second author on Grassland Biome chapter and co-author on three other chapters in recent publication on vegetation of South Africa (SANBI). Also compiled map of the Eastern Cape vegetation for the same publication.

# CURRICULUM VITAE

## Lourens Martinus du Plessis

*MetroGIS (Pty) Ltd.*

*Director*

### SKILLS BASE AND CORE COMPETENCIES

- Data Sourcing and Acquisition
- Data Capture
- Data Evaluation
- Data Conversion and Transfer
- GIS Database Development, Implementation and Maintenance
- Spatial Analysis (Visibility, Slope, Aspect, etc.)
- Digital Elevation Modeling
- Terrain Evaluation
- Image Processing
- Visual Impact Assessment and Impact Management
- Environmental Management
- Decision Support Systems Interface Development
- Project Management
- Map Production, Display, Queries and Reporting
- Environmental Sciences Expertise
- Process Development
- Arc/Info, ArcGIS, ArcView and PlanetGIS software
- Various GIS support software packages
- Range of Microsoft standard applications

### TERTIARY EDUCATION

Degree: BA (University of Pretoria) Geography and Anthropology (Majors), 1993  
Other Subjects: Archaeology, Philosophy and Political Science

### EMPLOYMENT HISTORY

**GisLAB CC** (Geographic Information Systems Laboratory - University of Pretoria)

Period: 4/1990 - 9/1997

Position: Member/Project Manager

**GISBS** (Geographic Information Systems Business Solutions - Q Data Consulting)

Period: 10/1997 - 10/1999

Position: Project Manager

**MetroGIS (Pty) Ltd.**

Period: 11/1999 - to date

Position: Director/Project Manager

### SELECTED RELEVANT PROJECT EXPERIENCE

- Proposed Atlantis Open Cycle Gas Turbine power station VIA
- Kynoch Gypsum Tailings dam extension VIA
- N1 Western Bypass Shell service station VIA
- Coega regional hazardous waste processing facility VIA
- Robinson Deep landfill extension VIA
- Hazardous waste blending platform VIA
- Mercury-Ferrum-Garona transmission line integration VIA
- Matimba B proposed coal-fired power station VIA
- Concentrating Solar Power (CSP) plant VIA
- Zeus to Mercury transmission line (comparative viewshed analyses)
- Mmamabula (Botswana) transmission line and power station viewshed analyses
- Petronet new multi-products pipeline VIA

## **CURRICULUM VITAE**

### **JOHAN VAN DER WAALS**

#### **SKILLS BASE AND CORE COMPETENCIES**

Soil Scientist

#### **HIGHER EDUCATION**

BSc Soil Science and Botany Cum Laude, 1995, Potchefstroom University for CHE

BSc Honours Soil Science and Plant Nutrition, 1999, University of Pretoria

MSc Soil Science and Plant Nutrition, 2001, University of Pretoria

PhD Soil Science, 2006, University of Pretoria

#### **PROFESSIONAL REGISTRATION**

Soil Science Society of South Africa (SSSSA) – Memberr

South African Soil Surveyors Organisation (SASSO) – Accredited Member

South African Council for Natural Scientific Professions – Reg. no. 400160/08

#### **EMPLOYMENT HISTORY**

Johan Van Der Waals was a staff member in the department of Plant Production and Soil Science

of the University of Pretoria from 1999 to 2007 and presented 13 courses of which many were self developed. His strongest course was Soil Classification in which the students were intensively exposed to the South African Taxonomic System as well as to the World Reference Base for Soil Resources (WRB) of the Food and Agriculture Organisation (FAO) of the United Nations (UN) and the United States Department of Agriculture's (USDA) Soil Taxonomy. During his tenure at the University of Pretoria he was actively involved in research on soils. Since the establishment of Terra Soil Science CC, Johan has been involved in a range of soil consulting services. The bulk of the contribution to the industry entails soil surveys for EIAs as well as soil management plans and soil based wetland surveys and delineations. The recent focus on wetland conservation in SA led to a range of surveys to determine the status and extent wetlands that have had some form of human impact.

#### **SELECTED RELAVANT EXPERIENCE**

Peer Reviewed Journal Publications

- Van der Waals, J.H., & Claassens, A.S. 2002. Accurate lime recommendations under South African conditions. *Commun. Soil Sci. Plant Anal.*, 33(15-18), p 3059-3074.
- Van der Waals, J.H., Snyman, H.G. & Claassens A.S. 2005. Increase in metal extractability after liming of sacrificial sewage sludge disposal soils. *Water SA* 31(2) p. 271-273.

- Jackson, C.R., Lubbe, N.R., Robertson, M.P., Setsaas, T.H., Van der Waals, J. & Bennett, N.C. 2008. Soil properties and the distribution of the endangered Juliana's Golden Mole. *Journal of Zoology* 274(2008) 13-17.

#### Conference Proceedings Publications

- Van der Waals, J.H., Van der Merwe, C. & Erdmann, R. 2007. Detail assessment of metal distribution in polluted soil – a South African case study. In Fourie, A., Tibbett, M. & Wiertz, J. (Eds.), *Proceedings of the Second International Seminar on Mine Closure, Santiago, Chile, 16-19 October, 2007*. pp 8 5-820.

#### Technical Reports

Snyman, H.G. & van der Waals, J.H. 2004. Laboratory and field scale evaluation of agricultural use of sewage sludge. WRC Report No. 1210/1/04. ISBN: 1- 77005-230-5, Water Research Commission, Pretoria.