



Appendix 2

Expertise of EAP and Project Team



Dr. Neville Bews & Associates – Johannesburg, South Africa

EDUCATION

- *B.A. (Soc), University of South Africa, 1980*
- *B.A. (Soc) (Hons), University of South Africa, 1984*
- *The Henley Post Graduate Certificate in Management, Henley Management College, United Kingdom*
- *M.A. (Cum Laude), Rand Afrikaans University, 1999*
- *D. Litt. et Phil., Rand Afrikaans University, 2000*

Dr Neville Bews is a senior social scientist and human resource professional with 38 years' experience. He consults in the fields of Social Impact Assessments and research, and human resource management. He has worked on a number of large infrastructure, mining and water resource projects. He at times lectures on social impact assessment for the Department of Sociology, University of Johannesburg.

EXPERIENCE – EXAMPLES

Water resources and regional planning Social Impact Assessments

Department of Water Affairs and Forestry

South Africa

Social impact assessment for the Mokolo and Crocodile River (West) Water Augmentation Project for increased and assurance of water supply. Research socio-economic circumstances, data analysis, assessment, authored report.

Mzimvubu Water Project Eastern Cape. Research socio-economic circumstances, data analysis, assessment, authored report. Umkhomazi Water Project Phase 1 – Raw Water Component Smithfield Dam - 14/12/16/3/3/3/94; Water Conveyance Infrastructure - 14/12/16/3/3/3/94/1; Balancing Dam - 14/12/16/3/3/3/94/2.

Umkhomazi Water Project Phases 1 – Raw Water Components

Smithfield Dam – 14/12/16/3/3/3/94/

Water Conveyance Infrastructure – 14/12/16/3/3/3/94/1

Balancing Dam – 14/12/16/3/3/3/94/2

Umkhomazi Water Project Phases 2 – Potable Water Component – 14/12/16/3/3/3/95.

The Aveng (Africa) Group Limited (Grinaker LTA)

South Africa

Assisting the construction company with the social management of the Mokolo and Crocodile River (West) Water Augmentation Project. Consult and mediate between contractors and affected parties advise on strategies to reduce tensions between contractors and the public.

Sedibeng District Municipality

South Africa

Social impact assessment for the Environmental Management Plan for the Sedibeng District, on behalf of Felehetsa Environmental (Pty) Ltd. Research socio-economic circumstances, data analysis, assessment, authored report.

Felehetsa Environmental (Pty) Ltd

South Africa

Social Impact Assessment for Waterfall Wedge housing and business development situated in Midrand Gauteng. Research socio-economic circumstances, data analysis, assessment, authored report.

NEMAI Consulting Environmental & Social Consultants

South Africa

Ncwabeni: Off-Channel Storage Dam, KwaZulu-Natal. Research socio-economic circumstances, data analysis, assessment, authored report.

Social Assessments for mining clients

Vale

Mozambique

Socio-economic impact assessment of proposed Moatize power plant, Tete. Research socio-economic circumstances, data analysis, assessment, authored report.

Exxaro Resources Limited

South Africa

Social impact assessment for the social and labour plan for Leeuwpan Coal Mine, Delmas. Research socio-economic circumstances, data analysis, assessment, authored report.

Social impact assessment for the social and labour plan for Glen Douglas Dolomite Mine, Henley-on-Klip. Research socio-economic circumstances, data analysis, assessment, authored report.

Social impact assessment for the social and labour plan for Grootegeluk Open Cast Coal Mine, Lephallale. Research socio-economic circumstances, data analysis, assessment, authored report.

Social and labour plan for the Paardekraal Project, Belfast. Research socio-economic circumstances, data analysis, assessment, authored report.

Social impact assessment for the Paardekraal Belfast Project Belfast. Research socio-economic circumstances, data analysis, assessment, authored report.

Kumba Resources Ltd

South Africa

Social Impact Assessments for the Sishen Iron Ore Mine in Kathu Northern Cape. Research socio-economic circumstances, data analysis, assessment, authored report.

Social Impact Assessments for the Sishen South Project in Postmasburg, Northern Cape. Research socio-economic circumstances, data analysis, assessment, authored report.

Social Impact Assessments for the Dingleton resettlement project at Sishen Iron Ore Mine Kathu, Northern Cape. Research socio-economic circumstances, data analysis, assessment, authored report.

Gold Fields

South Africa

Social Impact Assessment for the Gold Fields West Wits Project. Research socio-economic circumstances, data analysis, assessment, authored report.

Anglo Coal

South Africa

Review of social impact assessment for the proposed Waterberg Gas 37-spot coalbed methane (CBM) bulk yield test project.

Sekoko Mining

South Africa

Sekoko Wayland Iron Ore, Molemole Local Municipalities in Limpopo Province. Research socio-economic circumstances, data analysis, assessment, authored report.

Memor Mining (Pty) Ltd

South Africa

Langpan Chrome Mine, Thabazimbi, Limpopo. Research socio-economic circumstances, data analysis, assessment, authored report.

Prescali Environmental Consultants (Pty) Ltd

South Africa

Vlakpoort Open Cast Mine – Thabazimbi, Limpopo. Research socio-economic circumstances, data analysis, assessment, authored report.

Afrimat Ltd

South Africa

1. Marble Hall Lime Burning Project: Social Impact Assessment – Limpopo.
2. Glen Douglas Lime Burning Project: Social Impact Assessment - Henley-on Klip, Midvaal

Social assessments for regional and linear projects

Gautrans

South Africa

Social impact for the Gautrain Rapid Rail Link, Pretoria to Johannesburg and Kempton Park. Managed a team of 10 field workers, research socio-economic circumstances, data analysis, assessment, and co-authored report.

South African National Road Agency Limited

South Africa

Social Impact of tolling the Gauteng Freeway Improvement Project. Research socio-economic circumstances, data analysis, assessment, authored report.

Social Impact of the N2 Wild Coast Toll Highway. Managed a team of three specialists. Research socio-economic circumstances, data analysis, assessment, co-authored report.

SIA for the N3 Keeversfontein to Warden (De Beers Pass Section). Research socio-economic circumstances, data analysis, assessment, authored report.

Transnet

South Africa

Social impact assessment for the Transnet New Multi-Product Pipeline Project (555 km) (Commercial Farmers). Research socio-economic circumstances, data analysis, assessment, authored report.

Expansion of Railway Loops at Arthursview; Paul; Phokeng and Rooiheuvel Sidings in the Bojanala Platinum District Municipality in the North West Province for Transnet Soc Ltd.

Eskom Holdings Limited

South Africa

Social Impact Assessment for the Ubertas 88/11kV Substation in Sandton, Johannesburg. Research socio-economic circumstances, data analysis, assessment, authored report.

Nuclear 1 Power Plant. Assisted with the social impact assessment consulting to Arcus GIBB Engineering & Science. Peer review and adjusted the report and assisted at the public participation feedback meetings.

Social impact assessment for Eskom Holdings Limited, Transmission Division's Neptune-Poseidon 400kV Power Line in the Eastern Cape. Research socio-economic circumstances, data analysis, assessment, authored report.

Social Impact assessment for Eskom Holdings Limited, Transmission Division, Forskor-Mernsky 275kV±130km Powerline and Associated Substation Works in Limpopo Province. Research socio-economic circumstances, data analysis, assessment, authored report.

Eskom Holdings Limited, Transmission Division

South Africa

Social Impact assessment for Eskom Holdings Limited, Transmission Division, Tubatse Strengthening Phase 1 – Senakangwedi B Integration in Limpopo Province. Research socio-economic circumstances, data analysis, assessment, authored report.

Basic SIA study for Proposed 1 X 400 kV Eskom Maphutha - Witkop 170 km Powerline.

Social Impact Assessment for the Mulalo Main Transmission Substation and Power Line Integration Project, Secunda

MGTD Environmental

South Africa

Social impact assessment for a 150MW Photovoltaic Power Plant and Associated Infrastructure in Mpumalanga. Research socio-economic circumstances, data analysis, assessment, authored report.

10MWp Photovoltaic Power Plant & Associated Infrastructure, North West Province. Research socio-economic circumstances, data analysis, assessment, authored report.

eThekweni Municipality

South Africa

Social impact assessment for the proposed infilling of the Model Yacht Pond at Blue Lagoon, Stiebel Place, Durban. Research socio-economic circumstances, data analysis, assessment, authored report.

Kennedy Road Housing Project, Ward 25 situated on 316 Kennedy Road, Clare Hills (Erf 301, Portion 5).

Afzelia Environmental Consultants and Environmental Planning & Design

South Africa

Proposed Cato Ridge Crematorium In Kwazulu-Natal Province

MGTD Environmental

South Africa

ABC Prieska Solar Project; Proposed 75 MWp Photovoltaic Power Plant and its associated infrastructure on a portion of the remaining extent of ERF 1 Prieska, Northern Cape. Research socio-economic circumstances, data analysis, assessment, authored report.

ABC Prieska Solar Project; Proposed 75 MWp Photovoltaic Power Plant and its associated infrastructure on a portion of the remaining extent of ERF 1 Prieska, Northern Cape.

Assessments for social projects and social research

Australia – Africa 2006 Sport Development Program

South Africa

To establish and assess the impact of the Active Community Clubs Initiative on the communities of NU2 (in the township of Mdantsane)*and Tshabo (a rural village). Lead researcher social, data collection and analysis, assessment.

United Nations Office on Drugs and Crime **South Africa**
Evaluation of a Centre for Violence Against Women in Upington. Research socio-economic circumstances, data analysis, assessment, co-authored report.

University of Johannesburg **South Africa**
Research into research outputs of academics working in the various departments of the university. Research socio-economic circumstances, data analysis, assessment, authored report.

Human Resource and management training

Various national companied **South Africa**
Developed and run various management courses such as, recruitment selection & placement; industrial relations / disciplinary hearings; team building workshops; multiculturalism workshop.
1986-2007

University of South Africa, Department of Industrial Psychology **South Africa**
Developed the performance development study guide for industrial psychology 3. 2000

Authored Chapters in HR books **South Africa**
In Slabbert J.A. de Villiers, A.S. & Parker A (eds.). Managing employment relations in South Africa. Teamwork within the world-class organisation. 2005

In Muchinsky, P. M. Kriek, H. J. & Schreuder, A. M. G. Personnel Psychology 3rd Edition
Chapter 9 – Human resource planning.
Chapter 10 – The changing nature of work. 2005

In Rossouw, G. J. and van Vuuren, L. Business Ethics - Made in Africa 4th Edition.
Chapter 11 – Building Trust with Ethics. 2010

South African Management Development Institute (SAMDI) **Democratic Republic of the Congo**
Developed a course on Strategic Human Resource Planning for SAMDI and the Democratic Republic of the Congo as well as trainer's manuals for this course. 2006.

Competition Tribunal **South Africa**
Developed a Performance Management System and Policy for the Competition Tribunal South Africa. 2006

PUBLICATIONS

Bews, N. & Martins, N. 2002. An evaluation of the facilitators of trustworthiness. SA Journal of Industrial Psychology. 28(4), 14-19.

Bews, N. Martins, N. & von der Ohe, H. 2002. Editorial. SA Journal of Industrial Psychology. 28(4), 1.

Bews, N. & Rossouw, D. 2002. Contemporary organisational change and the importance of trust. SA Journal of Industrial Psychology. 28(4), 2-6.

Bews, N. & Uys, T. 2002. The impact of organisational restructuring on perceptions of trustworthiness. SA Journal of Industrial Psychology. 28(4), 21-28.

Bews, N & Rossouw, D. 2002. A role for business ethics in facilitating trustworthiness. Journal of Business Ethics. 39: 377-390.

Bews, N. 2009. A matter of trust – Gaining the confidence of the public and client. IAIA Newsletter Forthcoming (Spring 2009).

Bews, N. 2009. Does he who pays the bill call the shots? Sitting astride client and public interest – the dilemma of maintaining credibility in impact assessments. IAIA Newsletter Winter – 2009.

Bews, N. 2002. Reducing your company's risk of sexual harassment claims. HR Future. (2) 2 10-11.

Bews, N. & Martins, N. von der Ohe, H. 2002. Organisational change and trust: Experiences here and abroad. Management Today, (18) 8 34-35.

Martins, N. Bews, N. & von der Ohe, H. 2002. Organisational change and trust. Lessons from Europe and South African organisations. HR Future, (2)9 46-47.

Rossouw, D. & Bews, N. 2002. The importance of trust within a changing business environment. Management Today. 18(2) 26-27.

Bews, N. 2001. You can put a value to trust in the new economy. HR Future, (1)1 48-49.

Bews, N. 2001. Maintaining trust during organisational change. Management Today, (17) 2 36-39.

Bews, N. 2001. Business ethics, trust and leadership: how does Africa fare? Management Today, (17) 7 14-15.

Rossouw, D & Bews, N. 2001. Trust is on the decline in the workplace, yet it's vital for modern organisational success. People Dynamics. (18) 6 28-30.

Bews, N. & Uys, T. 2001. The effects of restructuring on organisational trust. *HR Future*, (1)8 50-52.

Rossouw, G. J. & Bews, N. F. 2010. Building Trust with Ethics. In Rossouw, G. J. and van Vuuren, L. *Business Ethics - Made in Africa 4th Edition*. Cape Town: Oxford University Press.

Bews N. 2005. Teamwork within the world-class organisation. In Slabbert J.A. de Villiers, A.S. & Parker A (eds.). *Managing employment relations in South Africa*. Durban : Butterworths.

Bews, N. F. 2005. Human resource planning. In Muchinsky, P. M. Kriek, H. J. & Schreuder, A. M. G. 2005. *Personnel Psychology 3rd Edition*. Cape Town; Oxford University Press.

Bews, N. F. 2005. The changing nature of work. In Muchinsky, P. M. Kriek, H. J. & Schreuder, A. M. G. 2005. *Personnel Psychology 3rd Edition*. Cape Town; Oxford University Press.

Bews, N. F. 2005. Chapter 9 & 13. In Muchinsky, P. M. Kriek, H. J. & Schreuder, A. M. G. 2005. *Instructor's Manual. Personnel Psychology 3rd Edition*. Cape Town; Oxford University Press.

Bews, N. F., Schreuder, A. M. G. & Vosloo, S. E. 2000. *Performance Development. Study guide for Industrial Psychology 3*. Pretoria: University of South Africa.

Uys, T. and Bews, N. 2003. "Not in my Backyard": Challenges in the Social Impact Assessment of the Gautrain. Department of Sociology Seminar, RAU. 23 May 2003.

Bews, N. 2002. The value of trust in the new economy. Industrial Relations Association of South Africa (Irasa). Morning seminar 21 August 2002.

Bews, N. 2002. The issue of trust considered. Knowledge Recourses seminar on Absenteeism. The Gordon Institute of Business. 27 August 2002.

Bews, N. & Uys, T. 2001. The impact of organisational trust on perceptions of trustworthiness. South African Sociological Association Conference. Pretoria.

Bews, N. 2001. Business Trust, Ethics & Leadership:- Made in Africa. International Management Today/Productivity Development Conference. Hosted by Productivity Development (Pty) Ltd & Management Today. Best Knowledge in Leadership Practice Conference 23-24 July 2001.

Bews, N. 2001. Charting new directions in leading organisational culture and climate change. Workplace Transformation and Organisational Renewal. Hosted by The Renaissance Network. November 2001.

Bews, N. 2000. Towards a model for trust. South African Sociological Association Conference. Saldanha.

Bews, N. 2003. 'Social Impact Assessments, theory and practice juxtaposed – Experience from a South African rapid rail project.' New Directions in Impact Assessment for Development: Methods and Practice Conference. University of Manchester, Manchester, England.

MEMBERSHIP OF PROFESSIONAL BODIES

Member of South African Affiliate of the International Association for Impact Assessment (IAIASa).
Membership Number: 2399

Registered on database for scientific peer review of iSimangaliso GEF project outputs

CURRICULUM VITAE

ELIZE BUTLER

PROFESSION: Palaeontologist

YEARS' EXPERIENCE: 25 years in Palaeontology

EDUCATION: B.Sc Botany and Zoology, 1988

University of the Orange Free State

B.Sc (Hons) Zoology, 1991

University of the Orange Free State

Management Course, 1991

University of the Orange Free State

M. Sc. *Cum laude* (Zoology), 2009

University of the Free State

Dissertation title: The postcranial skeleton of the Early Triassic non-mammalian Cynodont *Galesaurus planiceps*: implications for biology and lifestyle

Registered as a PhD fellow at the Zoology Department of the UFS

2013 to current

Dissertation title: A new gorgonopsian from the uppermost *Daptocephalus Assemblage Zone*, in the Karoo Basin of South Africa

MEMBERSHIP

Palaeontological Society of South Africa (PSSA) 2006-currently

EMPLOYMENT HISTORY

Part time Laboratory assistant Department of Zoology & Entomology
University of the Free State Zoology 1989-
1992

Part time laboratory assistant Department of Virology
University of the Free State Zoology 1992

Research Assistant National Museum, Bloemfontein 1993 –
1997

Principal Research Assistant National Museum, Bloemfontein
and Collection Manager 1998–currently

TECHNICAL REPORTS

Butler, E. 2014. Palaeontological Impact Assessment of the proposed development of private dwellings on portion 5 of farm 304 Matjesfontein Keurboomstrand, Knysna District, Western Cape Province. Bloemfontein.

Butler, E. 2014. Palaeontological Impact Assessment for the proposed upgrade of existing water supply infrastructure at Noupoort, Northern Cape Province. 2014. Bloemfontein.

Butler, E. 2015. Palaeontological impact assessment of the proposed consolidation, re-division and development of 250 serviced erven in Nieu-Bethesda, Camdeboo local municipality, Eastern Cape. Bloemfontein.

Butler, E. 2015. Palaeontological impact assessment of the proposed mixed land developments at Rooikraal 454, Vrede, Free State. Bloemfontein.

Butler, E. 2015. Palaeontological exemption report of the proposed truck stop development at Palmiet 585, Vrede, Free State. Bloemfontein.

Butler, E. 2015. Palaeontological impact assessment of the proposed Orange Grove 3500 residential development, Buffalo City Metropolitan Municipality East London, Eastern Cape. Bloemfontein.

Butler, E. 2015. Palaeontological Impact Assessment of the proposed Gonubie residential development, Buffalo City Metropolitan Municipality East London, Eastern Cape Province. Bloemfontein.

Butler, E. 2015. Palaeontological Impact Assessment of the proposed Ficksburg raw water pipeline. Bloemfontein.

Butler, E. 2015. Palaeontological Heritage Impact Assessment report on the establishment of the 65 mw Majuba Solar Photovoltaic facility and associated infrastructure on portion 1, 2 and 6 of the farm Witkoppies 81 HS, Mpumalanga Province. Bloemfontein.

Butler, E. 2015. Palaeontological Impact Assessment of the proposed township establishment on the remainder of portion 6 and 7 of the farm Sunnyside 2620, Bloemfontein, Mangaung metropolitan municipality, Free State, Bloemfontein.

Butler, E. 2015. Palaeontological Impact Assessment of the proposed Woodhouse 1 photovoltaic solar energy facilities and associated infrastructure on the farm Woodhouse729, near Vryburg, North West Province. Bloemfontein.

Butler, E. 2015. Palaeontological Impact Assessment of the proposed Woodhouse 2 photovoltaic solar energy facilities and associated infrastructure on the farm Woodhouse 729, near Vryburg, North West Province. Bloemfontein.

Butler, E. 2015. Palaeontological Impact Assessment of the proposed Orkney solar energy farm and associated infrastructure on the remaining extent of Portions 7 and 21 of the farm Wolvehuis 114, near Orkney, North West Province. Bloemfontein.

Butler, E. 2015. Palaeontological Impact Assessment of the proposed Spectra foods broiler houses and abattoir on the farm Maiden Manor 170 and Ashby Manor 171, Lukhanji Municipality, Queenstown, Eastern Cape Province. Bloemfontein.

Butler, E. 2016. Palaeontological Impact Assessment of the proposed construction of the 150 MW Noupoot concentrated solar power facility and associated infrastructure on portion 1 and 4 of the farm Carolus Poort 167 and the remainder of Farm 207, near Noupoot, Northern Cape. Prepared for Savannah Environmental. Bloemfontein.

Butler, E. 2016. Palaeontological Impact Assessment of the proposed Woodhouse 1 Photovoltaic Solar Energy facility and associated infrastructure on the farm Woodhouse 729, near Vryburg, North West Province. Bloemfontein.

Butler, E. 2016. Palaeontological Impact Assessment of the proposed Woodhouse 2 Photovoltaic Solar Energy facility and associated infrastructure on the farm Woodhouse 729, near Vryburg, North West Province. Bloemfontein.

Butler, E. 2016. Proposed 132kV overhead power line and switchyard station for the authorised Solis Power 1 CSP project near Upington, Northern Cape. Bloemfontein.

Butler, E. 2016. Palaeontological Impact Assessment of of the proposed Senqu Pedestrian Bridges in Ward 5 of Senqu Local Municipality, Eastern Cape Province. Bloemfontein.

Butler, E. 2016. Recommendation from further Palaeontological Studies: Proposed Construction of the Modderfontein Filling Station on Erf 28 Portion 30, Founders Hill, City Of Johannesburg, Gauteng Province. Bloemfontein.

Butler, E. 2016. Recommendation from further Palaeontological Studies: Proposed Construction of the Modikwa Filling Station on a Portion of Portion 2 of Mooihoek 255 Kt, Greater Tubatse Local Municipality, Limpopo Province. Bloemfontein.

Butler, E. 2016. Recommendation from further Palaeontological Studies: Proposed Construction of the Heidedal filling station on Erf 16603, Heidedal Extension 24, Mangaung Local Municipality, Bloemfontein, Free State Province. Bloemfontein.

Butler, E. 2016. Recommended Exemption from further Palaeontological studies: Proposed Construction of the Gunstfontein Switching Station, 132kv Overhead Power Line (Single Or Double Circuit) and ancillary infrastructure for the Gunstfontein Wind Farm Near Sutherland, Northern Cape Province. Savannah South Africa. Bloemfontein.

Butler, E. 2016. Palaeontological Impact Assessment of the proposed Galla Hills Quarry on the remainder of the farm Roode Krantz 203, in the Lukhanji Municipality, division of Queenstown, Eastern Cape Province. Bloemfontein.

Butler, E. 2016. Chris Hani District Municipality Cluster 9 water backlog project phases 3a and 3b: Palaeontology inspection at Tsomo WTW. Bloemfontein.

Butler, E. 2016. Palaeontological Impact Assessment of the proposed construction of the 150 MW Noupoot concentrated solar power facility and associated infrastructure on portion 1 and 4 of the farm Carolus Poort 167 and the remainder of Farm 207, near Noupoot, Northern Cape. Savannah South Africa. Bloemfontein.

Butler, E. 2016. Palaeontological Impact Assessment of the proposed upgrading of the main road MR450 (R335) from the Motherwell to Addo within the Nelson Mandela Bay Municipality and Sunday's river valley Local Municipality, Eastern Cape Province. Bloemfontein.

Butler, E. 2016. Palaeontological Impact Assessment construction of the proposed Metals Industrial Cluster and associated infrastructure near Kuruman, Northern Cape province. Savannah South Africa. Bloemfontein.

Butler, E. 2016. Palaeontological Impact Assessment for the proposed construction of up to a 132kv power line and associated infrastructure for the proposed Kalkaar Solar Thermal Power Plant near Kimberley, Free State and Northern Cape Provinces. PGS Heritage. Bloemfontein.

Butler, E. 2016. Palaeontological Impact Assessment of the proposed development of two burrow pits (DR02625 and DR02614) in the Enoch Mgijima Municipality, Chris Hani District, Eastern Cape..

Butler, E. 2016. Ezibeleni waste Buy-Back Centre (near Queenstown), Enoch Mgijima Local Municipality, Eastern Cape. Bloemfontein.

Butler, E. 2016. Palaeontological Impact Assessment for the proposed construction of two 5 Mw Solar Photovoltaic Power Plants on Farm Wildebeestkuil 59 and Farm Leeuwbosch 44, Leeudoringstad, North West Province. Bloemfontein.

Butler, E. 2016. Palaeontological Impact Assessment for the proposed development of four Leeuwberg Wind farms and basic assessments for the associated grid connection near Loeriesfontein, Northern Cape Province. Bloemfontein.

Butler, E. 2016. Palaeontological impact assessment for the proposed Aggeneys south prospecting right project, Northern Cape Province. Bloemfontein.

Butler, E. 2016. Palaeontological impact assessment of the proposed Motuoane Ladysmith Exploration right application, Kwazulu Natal. Bloemfontein.

Butler, E. 2016. Palaeontological impact assessment for the proposed construction of two 5 MW solar photovoltaic power plants on farm Wildebeestkuil 59 and farm Leeuwbosch 44, Leeudoringstad, North West Province. Bloemfontein.

Butler, E. 2016: Palaeontological desktop assessment of the establishment of the proposed residential and mixed use development on the remainder of portion 7 and portion 898 of the farm Knopjeslaagte 385 Ir, located near Centurion within the Tshwane Metropolitan Municipality of Gauteng Province. Bloemfontein.

Butler, E. 2017. Palaeontological impact assessment for the proposed development of a new cemetery, near Kathu, Gamagara local municipality and John Taolo Gaetsewe district municipality, Northern Cape. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment Of The Proposed Development Of The New Open Cast Mining Operations On The Remaining Portions Of 6, 7, 8 And 10 Of The Farm Kwaggafontein 8 In The Carolina Magisterial District, Mpumalanga Province. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment for the Proposed Development of a Wastewater Treatment Works at Lanseria, Gauteng Province. Bloemfontein.

Butler, E. 2017. Palaeontological Scoping Report for the Proposed Construction of a Warehouse and Associated Infrastructure at Perseverance in Port Elizabeth, Eastern Cape Province.

Butler, E. 2017. Palaeontological Desktop Assessment for the Proposed Establishment of a Diesel Farm and a Haul Road for the Tshipi Borwa mine Near Hotazel, In the John Taolo Gaetsewe District Municipality in the Northern Cape Province. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment for the Proposed Changes to Operations at the UMK Mine near Hotazel, In the John Taolo Gaetsewe District Municipality in the Northern Cape Province. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment for the Development of the Proposed Ventersburg Project-An Underground Mining Operation near Ventersburg and Henneman, Free State Province. Bloemfontein.

Butler, E. 2017. Palaeontological desktop assessment of the proposed development of a 3000 MW combined cycle gas turbine (CCGT) in Richards Bay, Kwazulu-Natal. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment for the Development of the Proposed Revalidation of the lapsed General Plans for Elliotdale, Mbhashe Local Municipality. Bloemfontein.

Butler, E. 2017. Palaeontological assessment of the proposed development of a 3000 MW Combined Cycle Gas Turbine (CCGT) in Richards Bay, Kwazulu-Natal. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment of the proposed development of the new open cast mining operations on the remaining portions of 6, 7, 8 and 10 of the farm Kwaggafontein

8 10 in the Albert Luthuli Local Municipality, Gert Sibande District Municipality, Mpumalanga Province. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment of the proposed mining of the farm Zandvoort 10 in the Albert Luthuli Local Municipality, Gert Sibande District Municipality, Mpumalanga Province. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment for the proposed Lanseria outfall sewer pipeline in Johannesburg, Gauteng Province. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment of the proposed development of open pit mining at Pit 36W (New Pit) and 62E (Dishaba) Amandelbult Mine Complex, Thabazimbi, Limpopo Province. Bloemfontein.

Butler, E. 2017. Palaeontological impact assessment of the proposed development of the sport precinct and associated infrastructure at Merrifield Preparatory school and college, Amathole Municipality, East London. PGS Heritage. Bloemfontein.

Butler, E. 2017. Palaeontological impact assessment of the proposed construction of the Lehae training and fire station, Lenasia, Gauteng Province. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment of the proposed development of the new open cast mining operations of the Impunzi mine in the Mpumalanga Province. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment of the construction of the proposed Viljoenskroon Munic 132 KV line, Vierfontein substation and related projects. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment of the proposed rehabilitation of 5 ownerless asbestos mines. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment of the proposed development of the Lephalale coal and power project, Lephalale, Limpopo Province, Republic of South Africa. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment of the proposed construction of a 132KV powerline from the Tweespruit distribution substation (in the Mantsopa local municipality) to the Driedorp rural substation (within the Naledi local municipality), Free State province. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment of the proposed development of the new coal-fired power plant and associated infrastructure near Makhado, Limpopo Province. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment of the proposed construction of a Photovoltaic Solar Power station near Collett substation, Middelberg, Eastern Cape. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment for the proposed township establishment of 2000 residential sites with supporting amenities on a portion of farm 826 in Botshabelo West, Mangaung Metro, Free State Province. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment for the proposed prospecting right project without bulk sampling, in the Koa Valley, Northern Cape Province. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment for the proposed Aroams prospecting right project, without bulk sampling, near Aggeneys, Northern Cape Province. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment of the proposed Belvior aggregate quarry II on portion 7 of the farm Maidenhead 169, Enoch Mgijima Municipality, division of Queenstown, Eastern Cape. Bloemfontein.

Butler, E. 2017. PIA site visit and report of the proposed Galla Hills Quarry on the remainder of the farm Roode Krantz 203, in the Lukhanji Municipality, division of Queenstown, Eastern Cape Province. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment of the proposed construction of Tina Falls Hydropower and associated power lines near Cumbu, Mthlontlo Local Municipality, Eastern Cape. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment of the proposed construction of the Mangaung Gariep Water Augmentation Project. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment of the proposed Belvoir aggregate quarry II on portion 7 of the farm Maidenhead 169, Enoch Mgijima Municipality, division of Queenstown, Eastern Cape. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment of the proposed construction of the Melkspruit-Rouxville 132KV Power line. Bloemfontein.

Butler, E. 2017 Palaeontological Desktop Assessment of the proposed development of a railway siding on a portion of portion 41 of the farm Rustfontein 109 is, Govan Mbeki local municipality, Gert Sibande district municipality, Mpumalanga Province. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment of the proposed consolidation of the proposed Ilima Colliery in the Albert Luthuli local municipality, Gert Sibande District Municipality, Mpumalanga Province. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment of the proposed extension of the Kareerand Tailings Storage Facility, associated borrow pits as well as a storm water drainage channel in the Vaal River near Stilfontein, North West Province. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment of the proposed construction of a filling station and associated facilities on the Erf 6279, district municipality of John Taolo Gaetsewe District, Ga-Segonyana Local Municipality Northern Cape. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment of the proposed of the Lephallale Coal and Power Project, Lephallale, Limpopo Province, Republic of South Africa. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment of the proposed Overvaal Trust PV Facility, Buffelspoort, North West Province. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment of the proposed development of the H2 Energy Power Station and associated infrastructure on Portions 21; 22 And 23 of the farm Hartebeestspruit in the Thembisile Hani Local Municipality, Nkangala District near Kwamhlanga, Mpumalanga Province. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment of the proposed upgrade of the Sandriver Canal and Klippan Pump station in Welkom, Free State Province. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment of the proposed upgrade of the 132kv and 11kv power line into a dual circuit above ground power line feeding into the Urania substation in Welkom, Free State Province. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment of the proposed Swaziland-Mozambique border patrol road and Mozambique barrier structure. Bloemfontein.

Butler, E. 2017. Palaeontological Impact Assessment of the proposed diamonds alluvial & diamonds general prospecting right application near Christiana on the remaining extent of portion 1 of the farm Kaffraria 314, registration division HO, North West Province. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment for the proposed development of Wastewater Treatment Works on Hartebeesfontein, near Panbult, Mpumalanga. Bloemfontein.

Butler, E. 2017. Palaeontological Desktop Assessment for the proposed development of Wastewater Treatment Works on Rustplaas near Piet Retief, Mpumalanga. Bloemfontein.

Butler, E. 2018. Palaeontological Impact Assessment for the Proposed Landfill Site in Luckhoff, Letsemeng Local Municipality, Xhariep District, Free State. Bloemfontein.

Butler, E. 2018. Palaeontological Impact Assessment of the proposed development of the new Mutsho coal-fired power plant and associated infrastructure near Makhado, Limpopo Province. Bloemfontein.

Butler, E. 2018. Palaeontological Impact Assessment of the authorisation and amendment processes for Manangu mine near Delmas, Victor Khanye local municipality, Mpumalanga. Bloemfontein.

Butler, E. 2018. Palaeontological Desktop Assessment for the proposed Mashishing township establishment in Mashishing (Lydenburg), Mpumalanga Province. Bloemfontein.

Butler, E. 2018. Palaeontological Desktop Assessment for the Proposed Mlonzi Estate Development near Lusikisiki, Ngquza Hill Local Municipality, Eastern Cape. Bloemfontein.

Butler, E. 2018. Palaeontological Phase 1 Assessment of the proposed Swaziland-Mozambique border patrol road and Mozambique barrier structure. Bloemfontein.

Butler, E. 2018. Palaeontological Desktop Assessment for the proposed electricity expansion project and Sekgame Switching Station at the Sishen Mine, Northern Cape Province. Bloemfontein.

Butler, E. 2018. Palaeontological field assessment of the proposed construction of the Zonnebloem Switching Station (132/22kV) and two loop-in loop-out power lines (132kV) in the Mpumalanga Province. Bloemfontein.

Butler, E. 2018. Palaeontological Field Assessment for the proposed re-alignment and decommissioning of the Firham-Platrand 88kv Powerline, near Standerton, Lekwa Local Municipality, Mpumalanga province. Bloemfontein.

Butler, E. 2018. Palaeontological Desktop Assessment of the proposed Villa Rosa development In the Buffalo City Metropolitan Municipality, East London. Bloemfontein.

Butler, E. 2018. Palaeontological field Assessment of the proposed Villa Rosa development In the Buffalo City Metropolitan Municipality, East London. Bloemfontein.

Butler, E. 2018. Palaeontological desktop assessment of the proposed Mookodi – Mahikeng 400kV line, North West Province. Bloemfontein.

Butler, E. 2018. Palaeontological Desktop Assessment for the proposed Thornhill Housing Project, Ndlambe Municipality, Port Alfred, Eastern Cape Province. Bloemfontein.

Butler, E. 2018. Palaeontological desktop assessment of the proposed housing development on portion 237 of farm Hartebeestpoort 328. Bloemfontein.

Butler, E. 2018. Palaeontological desktop assessment of the proposed New Age Chicken layer facility located on holding 75 Endicott near Springs in Gauteng. Bloemfontein.

Butler, E. 2018 Palaeontological Desktop Assessment for the development of the proposed Leslie 1 Mining Project near Leandra, Mpumalanga Province. Bloemfontein.

Butler, E. 2018. Palaeontological field assessment of the proposed development of the Wildealskloof mixed use development near Bloemfontein, Free State Province. Bloemfontein.

Butler, E. 2018. Palaeontological Field Assessment of the proposed Megamor Extension, East London. Bloemfontein.

Butler, E. 2018. Palaeontological Impact Assessment of the proposed diamonds Alluvial & Diamonds General Prospecting Right Application near Christiana on the Remaining Extent of Portion 1 of the Farm Kaffraria 314, Registration Division HO, North West Province. Bloemfontein.

CONFERENCE CONTRIBUTIONS

NATIONAL

PRESENTATION

Butler, E., Botha-Brink, J., and F. Abdala. A new gorgonopsian from the uppermost *Dicynodon Assemblage Zone*, Karoo Basin of South Africa. 18th the Biennial conference of the PSSA 2014. Wits, Johannesburg, South Africa.

INTERNATIONAL

Attended the Society of Vertebrate Palaeontology 73th Conference in Los Angeles, America. October 2012.

CONFERENCES: POSTER PRESENTATION

NATIONAL

Butler, E., and J. Botha-Brink. Cranial skeleton of *Galesaurus planiceps*, implications for biology and lifestyle. University of the Free State Seminar Day, Bloemfontein. South Africa. November 2007.

Butler, E., and J. Botha-Brink. Postcranial skeleton of *Galesaurus planiceps*, implications for biology and lifestyle. 14th Conference of the PSSA, Matjiesfontein, South Africa. September 2008:

Butler, E., and J. Botha-Brink. The biology of the South African non-mammaliaform cynodont *Galesaurus planiceps*. 15th Conference of the PSSA, Howick, South Africa. August 2008.

INTERNATIONAL VISITS

Natural History Museum, London

July 2008

Paleontological Institute, Russian Academy of Science, Moscow

November 2014

CURRICULUM VITAE
Dr Brian Michael Colloty
7212215031083

1 Rossini Rd
Pari Park
Port Elizabeth, 6070
brian@itsnet.co.za
083 498 3299

Profession: Ecologist & Environmental Assessment Practitioner (Pr. Sci. Nat. 400268/07)
Member of the South African Wetland Society
Specialisation: Ecology and conservation importance rating of inland habitats, wetlands, rivers & estuaries
Years experience: 25 years

SKILLS BASE AND CORE COMPETENCIES

- 25 years experience in environmental sensitivity and conservation assessment of aquatic and terrestrial systems inclusive of Index of Habitat Integrity (IHI), WET Tools, Riparian Vegetation Response Assessment Index (VEGRAI) for Reserve Determinations, estuarine and wetland delineation throughout Africa. Experience also includes biodiversity and ecological assessments with regard sensitive fauna and flora, within the marine, coastal and inland environments. Countries include Mozambique, Kenya, Namibia, Central African Republic, Zambia, Eritrea, Mauritius, Madagascar, Angola, Ghana, Guinea-Bissau and Sierra Leone. Current projects also span all nine provinces in South Africa.
- 15 years experience in the coordination and management of multi-disciplinary teams, such as specialist teams for small to large scale EIAs and environmental monitoring programmes, throughout Africa and inclusive of marine, coastal and inland systems. This includes project and budget management, specialist team management, client and stakeholder engagement and project reporting.
- GIS mapping and sensitivity analysis

TERTIARY EDUCATION

- 1994: B Sc Degree (Botany & Zoology) - NMU
- 1995: B Sc Hon (Zoology) - NMU
- 1996: M Sc (Botany - Rivers) - NMU
- 2000: Ph D (Botany – Estuaries & Mangroves) – NMU

EMPLOYMENT HISTORY

- 1996 – 2000 Researcher at Nelson Mandela University – SAB institute for Coastal Research & Management. Funded by the WRC to develop estuarine importance rating methods for South African Estuaries
- 2001 – January 2003 Training development officer AVK SA (reason for leaving – sought work back in the environmental field rather than engineering sector)
- February 2003- June 2005 Project manager & Ecologist for Strategic Environmental Focus (Pretoria) – (reason for leaving – sought work related more to experience in the coastal environment)
- July 2005 – June 2009 Principal Environmental Consultant Coastal & Environmental Services (reason for leaving – company restructuring)
- June 2009 – August 2018 Owner / Ecologist of Scherman Colloty & Associates cc
- August 2018 Owner / Ecologist - EnviroSci (Pty) Ltd

SELECTED RELEVANT PROJECT EXPERIENCE

World Bank IFC Standards

- Kenmare Mining Piliivilli, Mozambique - wetland (mangroves, peatlands and estuarine) assessment and biodiversity offset analysis - current
- Botswana South Africa 400kv transmission line (400km) biodiversity assessment on behalf of Aurecon - current
- Farim phosphate mine and port development, Guinea Bissau – biodiversity and estuarine assessment on behalf of Knight Piesold Canada – 2016.
- Tema LNG offshore pipeline EIA – marine and estuarine assessment for Quantum Power (2015).
- Colluli Potash South Boulder, Eritrea, SEIA marine baseline and hydrodynamic surveys co-ordinator and coastal vegetation specialist (coastal lagoon and marine) (on-going).
- Wetland, estuarine and riverine assessment for Addax Biofeuls Sierra Leone, Makeni for Coastal & Environmental Services: 2009
- ESHIA Project manager and long-term marine monitoring phase coordinator with regards the dredge works required in Luanda bay, Angola. Monitoring included water quality and biological changes in the bay and at the offshore disposal outfall site, 2005-2011

South African

- Plant search and rescue, for NMBM (Driftsands sewer, Glen Hurd Drive), Department of Social Development (Military veterans housing, Despatch) and Nxuba Wind Farm, - current
- Wetland specialist appointed to update the Eastern Cape Biodiversity Conservation Plan, for the Province on behalf of EOH CES appointment by SANBI – current. This includes updating the National Wetland Inventory for the province, submitting the new data to CSIR/SANBI.
- CDC IDZ Alien eradication plans for three renewable projects Coega Wind Farm, Sonop Wind Farm and Coega PV, on behalf of JG Afrika (2016 – 2017).
- Nelson Mandela Bay Municipality Baakens River Integrated Wetland Assessment (Inclusive of Rehabilitation and Monitoring Plans) for CEN IEM Unit - Current
- Rangers Biomass Gasification Project (Uitenhage), biodiversity and wetland assessment and wetland rehabilitation / monitoring plans for CEM IEM Unit – current.
- Gibson Bay Wind Farm implementation of the wetland management plan during the construction and operation of the wind farm (includes surface / groundwater as well wetland rehabilitation & monitoring plan) on behalf of Enel Green Power - current
- Gibson Bay Wind Farm 133kV Transmission Line wetland management plan during the construction of the transmission line (includes wetland rehabilitation & monitoring plan) on behalf of Eskom – 2016.
- Tsitsikamma Community Wind Farm implementation of the wetland management plan during the construction of the wind farm (includes surface / biomonitoring, as well wetland rehabilitation & monitoring plan) on behalf of Cennergi – completed May 2016.
- Alicedale bulk sewer pipeline for Cacadu District, wetland and water quality assessment, 2016
- Mogalakwena 33kv transmission line in the Limpopo Province, on behalf of Aurecon, 2016
- Cape St Francis WWTW expansion wetland and passive treatment system for the Kouga Municipality, 2015
- Macindane bulk water and sewer pipelines wetland and wetland rehabilitation plan 2015
- Eskom Prieska to Copperton 132kV transmission line aquatic assessment, Northern Cape on behalf of Savannah Environmental 2015.
- Joe Slovo sewer pipeline upgrade wetland assessment for Nelson Mandela Bay Municipality 2014
- Cape Recife Waste Water Treatment Works expansion and pipeline aquatic assessment for Nelson Mandela Bay Municipality 2013
- Pola park bulk sewer line upgrade aquatic assessment for Nelson Mandela Bay Municipality 2013
- Transnet Freight Rail – Swazi Rail Link (Current) wetland and ecological assessment on behalf of Aurecon for the proposed rail upgrade from Ermelo to Richards Bay
- Eskom Transmission wetland and ecological assessment for the proposed transmission line between Pietermaritzburg and Richards Bay on behalf of Aurecon (2012).
- Port Durnford Exxaro Sands biodiversity assessment for the proposed mineral sands mine on behalf of Exxaro (2009)
- Fairbreeze Mine Exxaro (Mtunzini) wetland assessment on behalf of Strategic Environmental Services (2007).
- Wetland assessment for Richards Bay Minerals (2013) – Zulti North haul road on behalf of RBM.
- Biodiversity and aquatic assessments for 105 renewable projects in the past 6 years in the Western, Eastern, Northern Cape, KwaZulu-Natal and Free State provinces. Clients included RES-SA, RedCap, ACED Renewables, Mainstream Renewable, GDF Suez, Globeleq, ENEL, Abengoa amongst others. Particular aquatic sensitivity assessment and Water Use License Applications on behalf of Mainstream Renewable Energy (8 wind farms and 3 PV facilities.), Cennergi / Exxaro (2 Wind farm), WKN Wind current (2 wind farms & 2 PV facilities), ACED (6 wind farms) and Windlab (3 Wind farms) were also conducted. Several of these projects also required the assessment of the proposed transmission lines and switching stations, which were conducted on behalf of Eskom.
- Vegetation assessments on the Great Brak rivers for Department of Water and Sanitation, 2006 and the Gouritz Water Management Area (2014)
- Proposed FibreCo fibre optic cable vegetation assessment along the PE to George, George to Graaf Reinet, PE to Colesburg, and East London to Bloemfontein on behalf of SRK (2013-2015).

CURRICULUM VITAE

Andrea Gibb

Name Andrea Gibb

Profession Environmental Practitioner

Name of Firm SiVEST SA (Pty) Ltd

Present Appointment Divisional Manager
Environmental Division

Years with Firm 8 Years

Date of Birth 29 January 1985

ID Number 8501290020089

Nationality South African



Education

Matriculated 2003, Full Academic Colours, Northcliff High School, Johannesburg, South Africa

Professional Qualifications

BSc (Hons) Environmental Management (University of South Africa 2008-2010)

BSc Landscape Architecture (with distinction) (University of Pretoria 2004-2007)

Awards: Cave Klapwijk prize for highest average in all modules in the Landscape Architecture programme, ILASA book prize for the best Landscape Architecture student in third year design, Johan Barnard planting design prize for the highest distinction average in any module of plant science.

ArcGIS Desktop 1 (ESRI South Africa December 2010)

Environmental Impact Assessment (EIA) 2014 Legal Regime Workshop (Imbewu 2015)

Employment Record

Sept 2018 – to date	SiVEST SA (Pty) Ltd: Divisional Manager: Environmental Division
May 2017 – Aug 2018	SiVEST SA (Pty) Ltd: Senior Manager: Environmental Division
Aug 2010 – Apr 2017	SiVEST SA (Pty) Ltd: Environmental Practitioner
Jan 2008 – July 2010	Cave Klapwijk and Associates: Environmental Assistant and Landscape Architectural Technologist
Feb 2006 – Dec 2006	Cave Klapwijk and Associates: Part time student

Language Proficiency

LANGUAGE	SPEAK	READ	WRITE
English	Fluent	Fluent	Fluent

Key Experience

Andrea has over **10 years' work experience** and is employed by SiVEST's Environmental Division as the Divisional Manager heading up the Renewable Energy Sector in the Johannesburg Office. She specialises in overseeing large scale multifaceted Environmental Impact Assessments (EIAs) and Basic Assessments (BAs) throughout South Africa, undertaken according to International Finance Corporation (IFC) standards and Equator Principles, within the renewable energy generation and electrical distribution sectors. From a business development perspective Andrea assists the division by marketing the environmental services and identifying prospective clients. She enjoys guiding, mentoring and motivating the team to find their niche and improve their input. Andrea further specialises in visual impact assessments (VIAs) and has developed a specialist team who she oversees.

Skills include:

- Project and team management
- Marketing and business development
- Financial management
- Client liaison and relationship management
- Team leadership
- Mentorship and training
- Report writing and review
- Documentation / quality control

Projects Experience

Aug 2010 – to date

ENVIRONMENTAL IMPACT ASSESSMENT (EIA) / BASIC ASSESSMENT (BA)

- BA for the proposed construction of the Grasskoppies Substations and Power Line near Loeriesfontein, Northern Cape Province.
- BA for the proposed construction of the Ithemba Substations and Power Line near Loeriesfontein, Northern Cape Province.
- BA for the proposed construction of the Hartebeest Leegte Substations and Power Line near Loeriesfontein, Northern Cape Province.
- BA for the proposed construction of the !Xha Boom Substations and Power Line near Loeriesfontein, Northern Cape Province.
- EIA for the proposed construction of the Grasskoppies Wind Farm near Loeriesfontein, Northern Cape Province.
- EIA for the proposed construction of the Ithemba Wind Farm near Loeriesfontein, Northern Cape Province.
- EIA for the proposed construction of the Hartebeest Leegte Wind Farm near Loeriesfontein, Northern Cape Province.
- EIA for the proposed construction of the !Xha Boom Wind Farm near Loeriesfontein, Northern Cape Province.
- Application for an Amendment of the Environmental Authorisation (EA) for the proposed construction of the Droogfontein II PV Plant near Kimberley, Northern Cape Province.
- Amendment and Resubmission of the FBAR for the Eskom Longdown Substation and Vyeboom 66kV Turn-in Power Lines near Villiersdorp, Western Cape Province.
- BA for the proposed construction of the Leeuwbosch Power Plant near Leeudoringstad, North West Province.

CURRICULUM VITAE

Andrea Gibb

- BA for the proposed construction of the Wildebeestkuil Power Plant near Leeudoringstad, North West Province.
- EIA for the proposed development of the Tlisitseng 1 and 2 75MW Solar Photovoltaic (PV) Energy Facilities near Lichtenburg, North West Province.
- EIAs for the proposed development of the Sendawo 1, 2, and 3 75MW Solar PV Energy Facilities near Vryburg, North West Province.
- EIA for the proposed construction of the Sendawo Common Collector Substation and power line near Vryburg, North West Province.
- EIA for the proposed construction of the Aletta 140MW Wind Energy Facility near Copperton, Northern Cape Province.
- Application for an Amendment of the Environmental Authorisation (EA) for the proposed construction of the 100MW Limestone Solar Thermal Power Project near Danielskuil, Northern Cape Province.
- Applications for the Amendment of the EAs for the proposed construction of three 75MW solar PV facilities near Prieska, Northern Cape Province.
- Applications for the Amendment of the EAs for the proposed construction of the 75MW Arriesfontein and Wilger Solar Power Plants near Danielskuil, Northern Cape Province.
- Completion and submission of the final EIA report for the proposed Rooipunt PV Solar Power Park Phase 1 and proposed Rooipunt PV Solar Power Park Phase 2 near Upington, Northern Cape Province.
- EIAs for the proposed construction of the Helena 1, 2 and 3 75MW Solar PV Energy Facilities near Copperton, Northern Cape Province.
- EIA for the proposed construction of the Nokukhanya 75MW Solar PV Power Plant near Dennilton, Limpopo Province.
- EIA for the proposed development of the Dwarsrug Wind Farm near Loeriesfontein, Northern Cape Province.
- BA for the proposed construction of two 132kV power lines and associated infrastructure from the Redstone Solar Thermal Power Project site to the Olien MTS near Lime Acres, Northern Cape Province.
- BA for the proposed construction of two 132kV power lines and associated infrastructure from Silverstreams DS to the Olien MTS near Lime Acres, Northern Cape Province.
- BA for the proposed Construction of the SSS1 5MW Solar PV Plant on the Western Part of Portion 6 (Portion of Portion 5) of Farm Spes Bona 2355 near Bloemfontein, Free State Province.
- BA for the proposed Construction of the SSS2 5MW Solar PV Plant on the Eastern Part of Portion 6 (Portion of Portion 5) of Farm Spes Bona 2355 near Bloemfontein, Free State Province.
- BA for the proposed Mookodi Integration Phase 2: Proposed Construction of a 132kV power line from the proposed Bophirima Substation to the existing Schweizer-Reneke Substation, North West Province.
- BA for the proposed Mookodi Integration Phase 2: Proposed Construction of a 132kV power line from the Mookodi Substation to the existing Magopela Substation, North West Province.
- BA for the proposed Mookodi Integration Phase 2: Proposed Construction of the Mookodi - Ganyesa 132kV power line, proposed Ganyesa Substation and Havelock LILO, North West Province.
- Amendment of the Final Environmental Impact Report for the Proposed Mookodi 1 Integration Project near Vryburg, North West Province.
- BA for the proposed 132kV power line and associated infrastructure for the proposed Redstone Solar Thermal Energy Plant near Lime Acres, Northern Cape Province.
- BA for the proposed construction of a 132kV power line and substation associated with the 75MW PV Plant on the Farm Droogfontein (PV 3) in Kimberley, Northern Cape Province.
- BA for the proposed establishment of a Learning and Development Retreat and an Executive Staff and Client Lodge at Mogale's Gate, Gauteng Province.
- Application for an Amendment of the EA to increase the output of the proposed 40MW PV Facility on the farm Mierdam to 75MW, Northern Cape Province.

- BA for the proposed construction of a power line and substation near Postmasburg, Northern Cape Province.
- BA for the proposed West Rand Strengthening Project – 400kV double circuit power line and substation extension in the West Rand, Gauteng.
- EIA for the proposed construction of a wind farm and PV plant near Prieska, Northern Cape Province.
- Public Participation assistance as part of the EIA for the proposed Thyspunt Transmission Lines Integration Project – EIA for the proposed construction of 5 x 400kV transmission power lines between Thyspunt to Port Elizabeth, Eastern Cape Province.
- EIA assistance for the proposed construction of three Solar Power Plants in the Northern Cape Province.
- Public Participation as part of the EIA for the proposed Delareyville Kopela Power Line and Substation, North West Province.
- Public Participation as part of the EIA for the Middelburg Water Reclamation Project, Mpumalanga Province.

VISUAL IMPACT ASSESSMENT (VIA)

- VIA for the proposed construction of the Mlonzi Golf Estate and Hotel Development, Eastern Cape Province.
- VIA for the proposed Tinley Manor South Banks Beach Enhancement Solution, KwaZulu-Natal Province.
- VIA for the proposed construction of the Grasskoppies Wind Farm near Loeriesfontein, Northern Cape Province.
- VIA for the proposed construction of the Ithemba Wind Farm near Loeriesfontein, Northern Cape Province.
- VIA for the proposed construction of the Hartebeest Leegte Wind Farm near Loeriesfontein, Northern Cape Province.
- VIA for the proposed construction of the !Xha Boom Wind Farm near Loeriesfontein, Northern Cape Province.
- VIA for the proposed Phezukomoya Wind Energy Facility near Noupoot, Northern Cape Province.
- VIA for the proposed San Kraal Wind Energy Facility near Noupoot, Northern Cape Province
- VIA for the proposed Assagay Valley Mixed Use Development, KwaZulu-Natal Province.
- VIA for the proposed Kassier Road North Mixed Use Development, KwaZulu-Natal Province.
- VIA for the proposed construction of a power line and associated infrastructure for the proposed Kalkaar Solar Thermal Power Plant near Kimberley, Free State and Northern Cape Provinces.
- VIA (Scoping Phase) for the proposed construction of a 3000MW Wind Farm and associated infrastructure near Richmond, Northern Cape Province.
- VIA for the proposed construction of the Aletta 140MW Wind Energy Facility near Copperton, Northern Cape Province.
- VIA for the proposed construction of a power line and associated infrastructure for the proposed Rooipunt Solar Thermal Power Plant near Upington, Northern Cape Province.
- VIAs (Impact Phase) for the proposed construction of the Sendawo 1, 2 and 3 solar PV energy facilities near Vryburg, North West Province.
- VIA (Impact Phase) for the proposed construction of the Sendawo substation and associated power line near Vryburg, North West Province.
- VIAs (Impact Phase) for the proposed construction of the Tlisitseng 1 and 2 solar PV energy facilities near Lichtenburg, North West Province.
- VIA for the proposed construction of the Tlisitseng substation and associated 132kV power line near Lichtenburg, North West Province.
- VIA (Scoping Phase) for the proposed construction of the Sendawo substation and associated power line near Vryburg, North West Province.
- VIA (Scoping Phase) for the proposed construction of the Sendawo 1, 2 and 3 solar PV energy facilities near Vryburg, North West Province.

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- VIA (Scoping Phase) for the proposed construction of the Tlisitseng 1 and 2 solar PV energy facilities near Lichtenburg, North West Province.
 - Visual recommendations for Phase 1 of the proposed Renishaw Estate Mixed Use Development, KwaZulu-Natal Province.
 - VIA for the proposed Tinley Manor South Banks Development, KwaZulu-Natal Province.
 - VIAs (Impact Phase) for the proposed construction of the Helena 1, 2 and 3 75MW Solar PV Energy Facilities near Copperton, Northern Cape Province.
 - VIA (Scoping Phase) for the proposed construction of the Helena 1, 2 and 3 75MW Solar PV Energy Facilities near Copperton, Northern Cape Province.
 - Visual Due Diligence Report for the possible rapid rail extensions to the Gauteng network, Gauteng Province.
 - Visual Status Quo and Constraints Report for the possible rapid rail extensions to the Gauteng network, Gauteng Province.
 - VIA for the proposed agricultural components of the Integrated Sugar Project in Nsoko, Swaziland.
 - VIA for the proposed Tweespruit to Welroux power lines and substation, Free State Province.
 - VIA for the proposed construction of the Nokukhanya 75MW Solar PV Power Plant near Dennilton, Limpopo Province.
 - VIA (Impact Phase) for the proposed development of the Dwarsrug Wind Farm near Loeriesfontein, Northern Cape Province.
 - VIA for the proposed amendment to the authorised power line route from Hera Substation to Westgate Substation, Gauteng Province.
 - VIA (Impact Phase) for the Eastside Junction Mixed Use Development near Delmas, Mpumalanga Province.
 - VIA for the proposed construction of two 132kV power lines and associated infrastructure from the Redstone Solar Thermal Power Project site to the Olien MTS near Lime Acres, Northern Cape Province.
 - VIA for the proposed construction of two 132kV power lines and associated infrastructure from Silverstreams DS to the Olien MTS near Lime Acres, Northern Cape Province.
 - VIA (Scoping Phase) for the proposed development of the Dwarsrug Wind Farm near Loeriesfontein, Northern Cape Province.
 - VIA for the proposed Rorqual Estate Development near Park Rynie on the South Coast of KwaZulu Natal.
 - VIA (Scoping Phase) for the proposed construction of a Coal-fired Power Station, Coal Mine and Associated Infrastructure near Colenso, KwaZulu-Natal Province.
 - VIA for the proposed Mookodi Integration Phase 2: Proposed Construction of the Mookodi - Ganyesa 132kV power line, proposed Ganyesa Substation and Havelock LILO, North West Province.
 - VIA for the proposed construction of the Duma transmission substation and associated Eskom power lines, KwaZulu-Natal Province.
 - VIA for the proposed construction of the Madlanzini transmission substation and associated Eskom power lines, Mpumalanga Province.
 - VIA for the proposed rebuild of the 88kV power line from Normandie substation to Hlungwane substation, Mpumalanga and KwaZulu-Natal Provinces.
 - VIA for the proposed construction of the Nzalo transmission substation and associated Eskom power lines, KwaZulu-Natal Province.
 - VIA for the proposed construction of the Sheepmoor traction substation with two 20MVA transformer bays and a new associated 88kV turn-in power line, Mpumalanga Province.
 - VIA for the proposed rebuild of the 88kV power line from Uitkoms substation to Antra T-off, Mpumalanga Province.
 - VIA for the proposed rebuild of the 88kV power line from Umfolozi substation to Eqwasha traction substation including an 88kV turn-in power line to Dabula traction substation, Kwazulu-Natal Province.
 - VIA for the proposed construction of the new 88/25kV Vryheid traction substation with two 20MVA transform bays and a new associated 88kV turn-in power line, KwaZulu-Natal Province.

- VIA for the proposed construction of a 132kV power line and substation associated with the 75MW PV Plant on the Farm Droogfontein (PV 3) in Kimberley, Northern Cape Province.
- VIA (Impact Phase) for the proposed Construction of a Solar PV Power Plant near De Aar, Northern Cape Province.
- VIA for the (Impact Phase) proposed Construction of the Renosterberg Wind Farm near De Aar, Northern Cape Province.
- VIA for the (Impact Phase) proposed Construction of the Renosterberg Solar PV Power Plant near De Aar, Northern Cape Province.
- VIA for the proposed construction of a 132kV power line for the Redstone Thermal Energy Plant near Lime Acres, Northern Cape Province.
- VIA for the proposed Mookodi Integration phase 2 132kV power lines and Ganyesa substation near Vryburg, North West Province.
- VIA for the proposed 132kV power lines associated with the PV Plants on Droogfontein Farm near Kimberley, Northern Cape Province.
- VIA (Scoping phase) for the Eastside Junction Mixed Use Development near Delmas, Mpumalanga Province.
- VIA for the proposed development of a learning and development retreat and an executive and staff lodge at Mogale's Gate, Gauteng Province.
- VIA for the proposed construction of a substation and 88kV power line between Heilbron (via Frankfort) and Villiers, Free State Province.
- Visual Status Quo Assessment for the Moloto Development Corridor Feasibility Study in the Gauteng Province, Limpopo Province and Mpumalanga Province.
- VIA the West Rand Strengthening Project – 400kV double circuit power line and substation extension in the West Rand, Gauteng.
- VIA for the proposed construction of a wind farm and solar photovoltaic plant near Loeriesfontein, Northern Cape Province.
- Visual sensitivity mapping exercise for the proposed Mogale's Gate Expansion, Gauteng.
- VIA (Scoping Phase) for the proposed Renosterberg Solar PV Power Plant and Wind Farm near De Aar, Northern Cape Province.
- Scoping level VIAs for the proposed construction of three Solar Power Plants in the Northern Cape Province.
- VIAs for the Spoornet Coallink Powerline Projects in KZN and Mpumalanga.
- Visual Constraints Analysis for the proposed establishment of four Wind Farms in the Eastern and Northern Cape Province.
- VIA (Scoping Phase) for the proposed development of a solar energy facility in De Aar, Northern Cape.
- VIA (Scoping Phase) for the proposed development of a solar energy facility in Kimberley, Northern Cape.

STRATEGIC ENVIRONMENTAL PLANNING

- Assistance with the Draft Environmental Management Framework for the Mogale City Local Municipality, Gauteng Province.
- Sensitivity Negative Mapping Analysis for the proposed Mogale's Gate Development, Gauteng Province.

CURRICULUM VITAE

Dr. David Barry Hoare

B.Sc. (Hons), M.Sc., Ph.D., Pr.Nat.Sci. (Ecology, Botany)

Contact details

Postnet Suite #116
Private Bag X025, Lynnwood Ridge, 0040
Tel.: (012) 804 2281
Fax: 086 550 2053
Cell: 083 284 5111
E-mail: dhoare@lantic.net

Personal information

Date of birth: 04 November 1966, Grahamstown, South Africa
Citizenship: Republic of South Africa
ID no.: 661104 5024 088

Education

Matric - Graeme College, Grahamstown, 1984
B.Sc (majors: Botany, Zoology) - Rhodes University, 1991-1993
B.Sc (Hons) (Botany) - Rhodes University, 1994 with distinction
M.Sc (Botany) - University of Pretoria, 1995-1997 with distinction
PhD (Botany) – Nelson Mandela Metropolitan University, Port Elizabeth

Main areas of specialisation

- Vegetation ecology, primarily in grasslands, thicket, coastal systems, wetlands.
- Plant biodiversity and threatened plant species specialist.
- Alien plant identification and control / management plans.
- Remote sensing, analysis and mapping of vegetation.
- Specialist consultant for environmental management projects.

Membership

Professional Natural Scientist, South African Council for Natural Scientific Professions, 16 August 2005 – present. Reg. no. 400221/05 (Ecology, Botany)
Member, International Association of Vegetation Scientists (IAVS)
Member, Ecological Society of America (ESA)
Member, International Association for Impact Assessment (IAIA)
Member, Herpetological Association of Africa (HAA)

Employment history

1 December 2004 – present, Director, David Hoare Consulting (Pty) Ltd. Consultant, specialist consultant contracted to various companies and organisations.
1 January 2009 – 30 June 2009, Lecturer, University of Pretoria, Botany Dept.
1 January 2013 – 30 June 2013, Lecturer, University of Pretoria, Botany Dept.
1 February 1998 – 30 November 2004, Researcher, Agricultural Research Council, Range and Forage Institute, Private Bag X05, Lynn East, 0039. Duties: project management, general vegetation ecology, remote sensing image processing.

Experience as consultant

Ecological consultant since 1995. Author of over 380 specialist ecological consulting reports. Wide experience in ecological studies within grassland, savanna and fynbos, as well as riparian, coastal and wetland vegetation.

Publication record:

Refereed scientific articles (in chronological order):

Journal articles:

- HOARE, D.B. & BREDEKAMP, G.J. 1999. Grassland communities of the Amatola / Winterberg mountain region of the Eastern Cape, South Africa. *South African Journal of Botany* 64: 44-61.
- HOARE, D.B., VICTOR, J.E., LUBKE, R.A. & MUCINA, L., 2000. Vegetation of the coastal fynbos and rocky headlands south of George, South Africa. *Bothalia* 30: 87-96.
- VICTOR, J.E., HOARE, D.B. & LUBKE, R.A., 2000. Checklist of plant species of the coastal fynbos and rocky headlands south of George, South Africa. *Bothalia* 30: 97-101.
- MUCINA, L., BREDEKAMP, G.J., HOARE, D.B. & MCDONALD, D.J. 2000. A National Vegetation Database for South Africa *South African Journal of Science* 96: 1-2.
- HOARE, D.B. & BREDEKAMP, G.J. 2001. Syntaxonomy and environmental gradients of the grasslands of the Stormberg / Drakensberg mountain region of the Eastern Cape, South Africa. *South African Journal of Botany* 67: 595 – 608.
- LUBKE, R.A., HOARE, D.B., VICTOR, J.E. & KETELAAR, R. 2003. The vegetation of the habitat of the Brenton blue butterfly, *Orachrysops niobe* (Trimen), in the Western Cape, South Africa. *South African Journal of Science* 99: 201–206.
- HOARE, D.B. & FROST, P. 2004. Phenological classification of natural vegetation in southern Africa using AVHRR vegetation index data. *Applied Vegetation Science* 7: 19-28.
- FOX, S.C., HOFFMANN, M.T. and HOARE, D. 2005. The phenological pattern of vegetation in Namaqualand, South Africa and its climatic correlates using NOAA-AVHRR NDVI data. *South African Geographic Journal*, 87: 85–94.
- PFAB, M.F., COMPAAN, P.C., WHITTINGTON-JONES, C.A., ENGELBRECHT, I., DUMALISILE, L., MILLS, L., WEST, S.D., MULLER, P., MASTERSON, G.P.R., NEVHUTALU, L.S., HOLNESS, S.D., HOARE, D.B. 2017. The Gauteng Conservation Plan: Planning for biodiversity in a rapidly urbanising province. *Bothalia*, Vol. 47:1. a2182. <https://doi.org/10.4102/abc.v47i1.2182>.

Book chapters and conference proceedings:

- HOARE, D.B. 2002. Biodiversity and performance of grassland ecosystems in communal and commercial farming systems in South Africa. Proceedings of the FAO's Biodiversity and Ecosystem Approach in Agriculture, Forestry and Fisheries Event: 12–13 October, 2002. Food and Agriculture Organisation of the United Nations, Viale delle Terme di Caracalla, Rome, Italy. pp. 10 - 27.
- STEENKAMP, Y., VAN WYK, A.E., VICTOR, J.E., HOARE, D.B., DOLD, A.P., SMITH, G.F. & COWLING, R.M. 2005. Maputaland-Pondoland-Albany Hotspot. In: Mittermeier, R.A., Gil, P.R., Hoffmann, M., Pilgrim, J., Brooks, T., Mittermeier, C.G., Lamoreux, J. & Fonseca, G.A.B. da (eds.) *Hotspots revisited*. CEMEX, pp.218–229. ISBN 968-6397-77-9
- STEENKAMP, Y., VAN WYK, A.E., VICTOR, J.E., HOARE, D.B., DOLD, A.P., SMITH, G.F. & COWLING, R.M. 2005. Maputaland-Pondoland-Albany Hotspot. <http://www.biodiversityhotspots.org/xp/hotspots/maputaland/>.
- HOARE, D.B., MUCINA, L., RUTHERFORD, M.C., VLOK, J., EUSTON-BROWN, D., PALMER, A.R., POWRIE, L.W., LECHMERE-OERTEL, R.G., PROCHES, S.M., DOLD, T. and WARD, R.A. *Albany Thickets*. in Mucina, L. and Rutherford, M.C. (eds.) 2006. The vegetation of South Africa, Lesotho and Swaziland. *Strelitzia* 19, South African National Biodiversity Institute, Pretoria.
- MUCINA, L., HOARE, D.B., LÖTTER, M.C., DU PREEZ, P.J., RUTHERFORD, M.C., SCOTT-SHAW, C.R., BREDEKAMP, G.J., POWRIE, L.W., SCOTT, L., CAMP, K.G.T., CILLIERS, S.S., BEZUIDENHOUT, H., MOSTERT, T.H., SIEBERT, S.J., WINTER, P.J.D., BURROWS, J.E., DOBSON, L., WARD, R.A., STALMANS, M., OLIVER, E.G.H., SIEBERT, F., SCHMIDT, E., KOBISI, K., KOSE, L. 2006. *Grassland Biome*. In: Mucina, L. & Rutherford, M.C. (eds.) The vegetation of South Africa, Lesotho and Swaziland. *Strelitzia* 19. South African National Biodiversity Institute, Pretoria.
- RUTHERFORD, M.C., MUCINA, L., LÖTTER, M.C., BREDEKAMP, G.J., SMIT, J.H.L., SCOTT-SHAW, C.R., HOARE, D.B., GOODMAN, P.S., BEZUIDENHOUT, H., SCOTT, L. & ELLIS, F., POWRIE, L.W., SIEBERT, F., MOSTERT, T.H., HENNING, B.J., VENTER, C.E., CAMP, K.G.T., SIEBERT, S.J., MATTHEWS, W.S., BURROWS, J.E., DOBSON, L., VAN ROOYEN, N., SCHMIDT, E., WINTER, P.J.D., DU PREEZ, P.J., WARD, R.A., WILLIAMSON, S. and HURTER, P.J.H. 2006. *Savanna Biome*. In: Mucina, L. & Rutherford, M.C. (eds.) The vegetation of South Africa, Lesotho and Swaziland. *Strelitzia* 19. South African National Biodiversity Institute, Pretoria.
- MUCINA, L., RUTHERFORD, M.C., PALMER, A.R., MILTON, S.J., SCOTT, L., VAN DER MERWE, B., HOARE, D.B., BEZUIDENHOUT, H., VLOK, J.H.J., EUSTON-BROWN, D.I.W., POWRIE, L.W. & DOLD, A.P.

2006. *Nama-Karoo Biome*. In: Mucina, L. & Rutherford, M.C. (eds.) The vegetation of South Africa, Lesotho and Swaziland. *Strelitzia* 19. South African National Biodiversity Institute, Pretoria.
- MUCINA, L., SCOTT-SHAW, C.R., RUTHERFORD, M.C., CAMP, K.G.T., MATTHEWS, W.S., POWRIE, L.W. and HOARE, D.B. 2006. *Indian Ocean Coastal Belt*. In: Mucina, L. & Rutherford, M.C. (eds.) The vegetation of South Africa, Lesotho and Swaziland. *Strelitzia* 19. South African National Biodiversity Institute, Pretoria.

Conference Presentations:

- HOARE, D.B. & LUBKE, R.A. *Management effects on diversity at Goukamma Nature Reserve, Southern Cape*; Paper presentation, Fynbos Forum, Bienne Donne, July 1994
- HOARE, D.B., VICTOR, J.E. & LUBKE, R.A. *Description of the coastal fynbos south of George, southern Cape*; Paper presentation, Fynbos Forum, Bienne Donne, July 1994
- HOARE, D.B. & LUBKE, R.A. *Management effects on fynbos diversity at Goukamma Nature Reserve, Southern Cape*; Paper presentation, South African Association of Botanists Annual Congress, Bloemfontein, January 1995
- HOARE, D.B. & BOTHA, C.E.J. *Anatomy and ecophysiology of the dunegrass Ehrharta villosa var. maxima*; Poster presentation, South African Association of Botanists Annual Congress, Bloemfontein, January 1995
- HOARE, D.B., PALMER, A.R. & BREDENKAMP, G.J. 1996. *Modelling grassland community distributions in the Eastern Cape using annual rainfall and elevation*; Poster presentation, South African Association of Botanists Annual Congress, Stellenbosch, January 1996
- HOARE, D.B. *Modelling vegetation on a past climate as a test for palaeontological hypotheses on vegetation distributions*; Paper presentation, Randse Afrikaanse Universiteit postgraduate symposium, 1997
- HOARE, D.B., VICTOR, J.E. & BREDENKAMP, G.J. *Historical and ecological links between grassy fynbos and afro-montane fynbos in the Eastern Cape*; Paper presentation, South African Association of Botanists Annual Congress, Cape Town, January 1998
- LUBKE, R.A., HOARE, D.B., VICTOR, J.E. & KETELAAR, R. *The habitat of the Brenton Blue Butterfly*. Paper presentation, South African Association of Botanists Annual Congress, Cape Town, January 1998
- HOARE, D.B. & PANAGOS, M.D. *Satellite stratification of vegetation – structure or floristic composition?* Poster presentation at the 34th Annual Congress of the Grassland Society of South Africa, Warmbaths, 1-4 February 1999.
- HOARE, D.B. & WESSELS, K. *Conservation status and threats to grasslands of the northern regions of South Africa*, Poster presentation at the South African Association of Botanists Annual Congress, Potchefstroom, January 2000.
- HOARE, D.B. *Phenological dynamics of Eastern Cape vegetation*. Oral paper presentation at the South African Association of Botanists Annual Congress, Grahamstown, January 2002.
- HOARE, D.B., MUCINA, L., VAN DER MERWE, J.P.H. & PALMER, A.R. *Classification and digital mapping of grasslands of the Eastern Cape* Poster presentation at the South African Association of Botanists Annual Congress, Grahamstown, January 2002.
- HOARE, D.B. *Deriving phenological variables for Eastern Cape vegetation using satellite data* Poster presentation at the South African Association of Botanists Annual Congress, Grahamstown, January 2002.
- MUCINA, L., RUTHERFORD, M.C., HOARE, D.B. & POWRIE, L.W. 2003. *VegMap: The new vegetation map of South Africa, Lesotho and Swaziland*. In: Pedrotti, F. (ed.) Abstracts: Water Resources and Vegetation, 46th Symposium of the International Association for Vegetation Science, June 8 to 14 – Napoli, Italy.
- HOARE, D.B. 2003. *Species diversity patterns in moist temperate grasslands of South Africa*. Proceedings of the VIIth International Rangeland Congress, 26 July – 1 August 2003, Durban South Africa. African Journal of Range and Forage Science. 20: 84.

Unpublished technical reports:

- PALMER, A.R., HOARE, D.B. & HINTSA, M.D., 1999. *Using satellite imagery to map veld condition in Mpumalanga: A preliminary report*. Report to the National Department of Agriculture (Directorate Resource Conservation). ARC Range and Forage Institute, Grahamstown.
- HOARE, D.B. 1999. *The classification and mapping of the savanna biome of South Africa: methodology for mapping the vegetation communities of the South African savanna at a scale of 1:250 000*. Report to the National Department of Agriculture (Directorate Resource Conservation). ARC Range and Forage Institute, Pretoria.

- HOARE, D.B. 1999. The classification and mapping of the savanna biome of South Africa: size and coverage of field data that exists on the database of vegetation data for South African savanna. Report to the National Department of Agriculture (Directorate Resource Conservation). ARC Range and Forage Institute, Pretoria.
- THOMPSON, M.W., VAN DEN BERG, H.M., NEWBY, T.S. & HOARE, D.B. 2001. Guideline procedures for national land-cover mapping and change monitoring. Report no. ENV/P/C 2001-006 produced for Department of Water Affairs and Forestry, National Department of Agriculture and Department of Environment Affairs and Tourism. Copyright: Council for Scientific and Industrial Research (CSIR) and Agricultural Research Council (ARC).
- HOARE, D.B. 2003. Natural resource survey of node O R Tambo, using remote sensing techniques, Unpublished report and database of field data for ARC Institute for Soil, Climate & Water, ARC Range and Forage Institute, Grahamstown.
- HOARE, D.B. 2003. Short-term changes in vegetation of Suikerbosrand Nature Reserve, South Africa, on the basis of resampled vegetation sites. Gauteng Department of Agriculture, Conservation, Environment and Land Affairs, Conservation Division.
- BRITTON, D., SILBERBAUER, L., ROBERTSON, H., LUBKE, R., HOARE, D., VICTOR, J., EDGE, D. & BALL, J. 1997. The Life-history, ecology and conservation of the Brenton Blue Butterfly (*Orachrysops niobe*) (Trimen)(*Lycaenidea*) at Brenton-on-Sea. Unpublished report for the Endangered Wildlife Trust of Southern Africa, Johannesburg. 38pp.
- HOARE, D.B., VICTOR, J.E. & MARNEWIC, G. 2005. Vegetation and flora of the wetlands of Nylsvley River catchment as component of a project to develop a framework for the sustainable management of wetlands in Limpopo Province.

Consulting reports:

Total of over 380 specialist consulting reports for various environmental projects from 1995 – present.

Workshops / symposia attended:

- International Association for Impact Assessment Annual Congress, Durban, 16 – 19 May 2018.
- Workshop on remote sensing of rangelands presented by Paul Tueller, University of Nevada Reno, USA, VIIth International Rangeland Congress, 26 July – 1 August 2003, Durban South Africa.
- VIIth International Rangeland Congress, 26 July – 1 August 2003, Durban South Africa.
- BioMap workshop, Stellenbosch, March 2002 to develop strategies for studying vegetation dynamics of Namaqualand using remote sensing techniques
- South African Association of Botanists Annual Congress, Grahamstown, January 2002.
- 28th International Symposium on Remote Sensing of Environment, Somerset West, 27-31 March 2000.
- Workshop on Vegetation Structural Characterisation: Tree Cover, Height and Biomass, 28th International Symposium on Remote Sensing of Environment, Strand, 26 March 2000.
- South African Association of Botanists Annual Congress, Potchefstroom, January 2000
- National Botanical Institute Vegmap Workshop, Kirstenbosch, Cape Town, 30 September-1 October 1999.
- Sustainable Land Management – Guidelines for Impact Monitoring, Orientation Workshop: Sharing Impact Monitoring Experience, Zithabiseni, 27-29 September 1999.
- WWF Macro Economic Reforms and Sustainable Development in Southern Africa, Environmental Economic Training Workshop, development Bank, Midrand, 13-14 September 1999.
- 34th Annual Congress of the Grassland Society of South Africa, Warmbaths, 1-4 February 1999
- Expert Workshop on National Indicators of Environmental Sustainable Development, Dept. of Environmental Affairs and Tourism, Roodevallei Country Lodge, Roodeplaas Dam, Pretoria, 20-21 October 1998.
- South African Association of Botanists Annual Congress, Cape Town, January 1998
- Randse Afrikaanse Universiteit postgraduate symposium, 1997.
- South African Association of Botanists Annual Congress, Bloemfontein, January 1995.

Referees:

- Prof. Roy Lubke, Associate Professor Emeritus, Botany Department, Rhodes University, Grahamstown
Tel: 0461-318 592. E-mail: r.lubke@ru.ac.za
- Prof. Richard Cowling, Botany Department, Nelson Mandela Metropolitan University, Tel (042) 298 0259 E-mail: rmc@kingsley.co.za
- Michele Pfab, Scientific Co-ordinator: Scientific Authority, Applied Biodiversity Research, South African National Biodiversity Institute, (012) 843 5025, E-mail: M.Pfab@sanbi.org.za

Johann Lanz

Curriculum Vitae

Education

- M.Sc. (Environmental Geochemistry) University of Cape Town 1996 - June 1997
- B.Sc. Agriculture (Soil Science, Chemistry) University of Stellenbosch 1992 - 1995
- BA (English, Environmental & Geographical Science) University of Cape Town 1989 - 1991
- Matric Exemption Wynberg Boy's High School 1983

Professional work experience

I am registered as a Professional Natural Scientist (Pri.Sci.Nat.) in the field of soil science, registration number 400268/12.

- **Soil Science Consultant** **Self employed** **2002 - present**
I run a soil science consulting business, servicing clients in both the environmental and agricultural industries. Typical consulting projects involve:
 - Soil specialist study inputs to EIA's, SEA's and EMPR's. These have focused on impact assessments and rehabilitation on agricultural land, rehabilitation and re-vegetation of mining and industrially disturbed and contaminated soils, as well as more general aspects of soil resource management. Recent clients include: CSIR; SRK Consulting; Aurecon; Mainstream Renewable Power; SiVEST; Savannah Environmental; Subsolar; Red Cap Investments; MBB Consulting Engineers; Enviroworks; Sharples Environmental Services; Haw & Inglis; BioTherm Energy; Tiptrans.
 - Soil resource evaluations and mapping for agricultural land use planning and management. Recent clients include: Cederberg Wines; Unit for Technical Assistance - Western Cape Department of Agriculture; Wedderwill Estate; Goedgedacht Olives; Zewenwacht Wine Estate, Lourensford Fruit Company; Kaarsten Boerdery; Thelema Mountain Vineyards; Rudera Wines; Flagstone Wines; Solms Delta Wines; Dornier Wines.
 - I have conducted several research projects focused on conservation farming, soil health and carbon sequestration.
- **Soil Science Consultant** **Agricultural Consultants International (Tinie du Preez)** **1998 - end 2001**
Responsible for providing all aspects of a soil science technical consulting service directly to clients in the wine, fruit and environmental industries all over South Africa, and in Chile, South America.
- **Contracting Soil Scientist** **De Beers Namaqualand Mines** **July 1997 - Jan 1998**
Completed a contract to make recommendations on soil rehabilitation and re-vegetation of mined areas.

Publications

- Lanz, J. 2012. Soil health: sustaining Stellenbosch's roots. In: M Swilling, B Sebitosi & R Loots (eds). *Sustainable Stellenbosch: opening dialogues*. Stellenbosch: SunMedia.
- Lanz, J. 2010. Soil health indicators: physical and chemical. *South African Fruit Journal*, April / May 2010 issue.
- Lanz, J. 2009. Soil health constraints. *South African Fruit Journal*, August / September 2009 issue.
- Lanz, J. 2009. Soil carbon research. *AgriProbe*, Department of Agriculture.
- Lanz, J. 2005. Special Report: Soils and wine quality. *Wineland Magazine*.

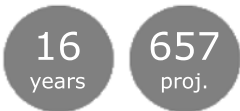
I am a reviewing scientist for the *South African Journal of Plant and Soil*.

Profile



Miguel Mascarenhas is a Manager and an Ecological Environmental specialist that likes challenges, innovation and be a solution designer. As a consequence, at Bioinsight, Miguel assumes the role of business developer focused on leading a highly motivated team that also loves to be challenged, whether by complex project or the development of disruptive solutions.

📁 Experience:



🌐 Worked in countries:

- Portugal
- Mozambique

🌐 Projects for countries:

- South Africa
- Cape Verde
- Mexico
- Mozambique
- Poland
- Portugal

Skills

Corporate management



Environmental Impact



Ecology



+ Employment

CHAIRMAN OF THE BOARD | BIODINÂMICA, MOZAMBIQUE

Since 2017

SENIOR CONSULTANT | BIO3 LDA., PORTUGAL

2012 - 2016

CEO AND BUSINESS DEVELOPMENT DIRECTOR | BIO3 LDA., PORTUGAL

2011 - 2012

CEO | BIOINSIGHT (BIO3), PORTUGAL

Since 2011

CEO | BIO3 LDA., PORTUGAL

2005 - 2011

CEO | BIO3 LDA., PORTUGAL

2005 - 2013

FREELANCER | SEVERAL COMPANIES SUCH AS DHVFBO, ENERPRO, PROCESL E PGG, PORTUGAL

2003 - 2005

RESEARCHER | LABORATÓRIO DE BIOLOGIA CELULAR - INSTITUTO DE BIOLOGIA EXPERIMENTAL E TECNOLÓGICA, PORTUGAL

2002 - 2003

+ Education

MSC IN BUSINESS MANAGEMENT (EQF LEVEL 7)

INDEG Business School, Portugal

2011 - 2013

POS-GRADUATION IN GEOGRAPHIC INFORMATION SYSTEMS

Higher Institute of Agronomy, Portugal

2006 - 2006

MSC IN ENVIRONMENTAL IMPACT ASSESSMENT (EQF LEVEL 7)

Institute of Ecology Investigation of Málaga, Spain

2003 - 2004

GRADUATION IN APPLIED PLANTS BIOLOGY (EQF LEVEL 6)

Sciences Faculty of the University of Lisbon, Portugal

1995 - 2001

Bioinsight group projects

2018	Nature Conservation	Ecological Component of the Environmental Incidence Assessment of na Aviary in Évora, Portugal. Portugal.
2018	Electric sector	Ecological Component of the Environmental Incidence Assesmen of an Execution Project for the Eletrification of the section Marco de Canaveses - Régua da Linha do Douro, Portugal. Portugal.
2018	Nature Conservation	Characterization of Flora and Vegetation of a Rural Hotel in Herdade da Comporta. Portugal.
2018	Wind Energy	Ecological Component of the Environmental Impact Assesmen of Arrimal's Wind Farm, Portugal. Portugal.
2018	Wind Energy	Annual Monitoring Study of Birds and Bats (daytime and nighttime) in 2018 in the Park and in the Eletric Line of Bii Stinu Wind Farm (EDI), Oaxaca, Mexico. Mexico.
2018	Oil & Gas	Ecological Monitoring of the Construction of the Replacement Village (RV) Ecological Monitoring of a Replacement Village Project associated to the development of a Liquefied Natural Gas Project of Anadarko Moçambique Area 1 Limitada (AMA 1) in Palma. Mozambique.
2018	Mining	Ecological Component of the Environmental Impact Assesmen of an Mining Instalation enlargement in Aljustrel, Portugal. Portugal.
2018	Land Management	Ecological and climate componente of a Special Program for Ribeiradio-Ermida Dam, Portugal. Portugal.
2018	Electric sector	Environmental and Social Impact Assessment (ESIA) of a 220kV interconnection between Metoro - Palma (Mozambique). Mozambique.
2018	Electric Sector	Ecological Component of the Environmental Impact Assesmen of a substation of an Electric Energy Transformation - Tabaqueira, Portugal. Portugal.
2018	Wind Energy	Environmental Report for legal framework application to the Portuguese Environmental Authority (APA) on the Overcapacity Equipment in Archeira Wind Farm. Portugal.
2018	Wind Energy	Wind farm of Terreiro das Bruxas - Environmental report containing the legal framework as request from the Portuguese Environmental Authority (APA). Portugal.
2018	Animal Production	EIA Ecological Component of a Cattle Exploitation Project in Portel. Portugal.
2018	Animal Production	Ecology Component of the Environmental Impact Study of the Poultry Facility in S. João das Lampas, Portugal. Portugal.
2018	Wind Energy	Birds and Bats monitoring in the Torcha II Wind Farm - Year 0 (pre-construction). Portugal.
2018	Hydic Energy	Ecological component of the Environmental Impact Assessment study of the small hydro of Abrantes, Martinchel and Cascata do Zêzere, Portugal.. Portugal.
2018	Water Treatment	Ecological Component of RECAPE of the Sewage treatment of Funchal , Portugal.. Portugal.
2018	Transports	Ecological Component of the Environmental Studies of the Road Network - Variant to the Cemetery - EN 115-4,Portugal.. Portugal.
2018	Hydic Energy	Monitoring of Terrestrial Fauna of the Foz Tua Hydroelectric Deployment - Construction Phase Balance Report. Portugal.
2018	Solar energy	Componente Ecológica do Estudo de Impacte Ambiental de 2 Centrais Solares em Salvaterra de Magos,Portugal.. Portugal.
2018	Wind Energy	Detailed Report of the Environmental Programs for 5 Wind Farms, Rio Grande do Norte state, Brazil. .
2018	Wind Energy	Support to the implementation of the Iberwind Environmental Management System to obtain ISO 14001 Certification. Portugal.
2018	Urban	Monitoring of aquatic birds at Loures Riverside Pathway. Portugal.
2018	Maritime	Water Quality and Biological Communities monitoring in the area of internvetion of the Ria Formosa's Hydrodynamic Valorisation and Risk Mitigation of the barrier islands - Post-Dredging phase. Portugal.
2018	Tourism	Scientific expeditions. Portugal.
2018	Solar Energy	Faunal Impact Assessment for 3 proposed Solar Energy Facilities: Heuningklip, Doornfontein & Kruispad. South Africa.
2018	Wind Energy	Update of Avifaunal Specialist Reports for Boulders Wind Energy Farm. South Africa.
2018	Wind Energy	Juno Wind Energy Farm - Additional for Bat Report Updates. South Africa.
2018	Wind Energy	Diamond Wind Energy Farm Bird and Bat Data Validity, Monitoring and Impact Assessment Reports for Basic Assessment Process. South Africa.
2018	Wind Energy	Kudusberg Wind Energy Farm Bird and Bat Specialist Studies for Basic Assessment Process. South Africa.
2018	Wind Energy	Bird and Bat Pre-Construction Campaign at Rondekop Wind Energy Facility. South Africa.
2017	Mining	Active monitoring of vegetation, foreseen in the Environmental Management Plan for the operation of the Moatize Coal Mine, Tete. Mozambique.

2017	Animal Production	Addendum to the project "Technical prescription for the Assessment, Management and Monitoring of High Conservation Values (HCV)": Production of cartographic information for HCV 1, 2, 3 and 4 for the new Portucel DUAT areas of Zambézia. Mozambique.
2017	Solar Energy	Ecological Section of the Environmental Impact Study of a Solar Power Plant in Ourique. Portugal.
2017	Electric sector	Bird Monitoring at Ponte de Lima - Vila Nova Famalicão powerline (400kV). Portugal.
2017	Electric sector	Bird Monitoring at the powerlines of Estremoz-Divor, Vieira do Minho - Pedralva 2, Recarei - Vila Nova de Famalicão, Vermoim - Vila Nova de Famalicão. Portugal.
2017	Wind Energy	Bird and Bat Monitoring at Chavães and Sendim Wind Farms' and associated powerline (operation phase - 3rd year). Poland.
2017	Nature Conservation	Design of the Management Plan of Agolada's and Monte da Barca's Dams. Portugal.
2017	Electric sector	Ecological Section of the Environmental Impact Study and Preliminary Environmental Compliance Report study of the Beira Alta's Powerline - Modernization Project of Pampilhosa-Mangualde powerline. Portugal.
2017	Tourism	Ecological Section of the Environmental Impact Study of Praia Campsite. Portugal.
2017	Tourism	Ecological Section of the Environmental Impact Study of a Land subdivision for a Tourist Resort located in Herdade da Mata do Rei (Sesimbra). Portugal.
2017	Land Management	Characterization of the natural values (Nature Conservation - fauna, flora, biodiversity) and Strategic Environmental Assessment aiming the Revision of Arronches Municipal Director Plan. Portugal.
2017	Wind Energy	Bat monitoring at Três Marcos and Douro Sul's Wind Farms. Portugal.
2017	Wind Energy	Flora and Vegetation Monitoring and invasive flora species' control at Três Marcos and Douro Sul's Wind Farms. Portugal.
2017	Nature Conservation	Monitoring of the State of Water Masses, Rivers and Reservoirs - RHS (River Habitat Survey) component, Portugal . Portugal.
2017	Nature conservation	Design and installation of an Interpretive Center - Iberian Wolf - in Vinhais in partnership with the City Council. Portugal.
2017	Tourism	Implementation of an Environmental Awareness Program and Promotion of Nature Tourism in Vinhais, in partnership with the City Council, Portugal - Sector Promotion of Conservation Tourism. Portugal.
2017	Urban	Pigeons Population Control in Caldas da Rainha's City, Portugal. Portugal.
2017	Wind Energy	Bird and Bat Monitoring of the expansion area of Caramulo's Wind Farm (pre-construction). Portugal.
2017	Wind Energy	Bird and Bat Monitoring of the expansion area of Gardunha's Wind Farm (pre-construction). Portugal.
2017	Roads	Ecological Section of the Environmental Impact Study of the En103 road - Vinhais/Bragança, Portugal. Portugal.
2017	Wind Energy	Update of the Ecological Section of Malhadas' Wind Farm Environmental Impact Study, Portugal . Portugal.
2017	Hydric Energy	Ecological Monitoring of the Calheta's Dam Expansion Project (Pre-Construction Phase), Portugal. Portugal.
2017	Industry	Ecological Section of the Environmental Impact Study of na aviary at Terceira Island -Azores, Portugal. Portugal.
2017	Wind Energy	Pandion halietus e Falco alexandri Collision Risk Analysis, at Boa Vista Wind Farm. Cape Verde.
2017	Wind Energy	Flora and Vegetation monitoring of the expansion area of Gardunhas', Caramulo and Pinhal Interior Wind Farms - Year 0, Portugal. Portugal.
2017	Wind Energy	Flora and Vegetation monitoring of the expansion area of Gardunhas', Caramulo and Pinhal Interior Wind Farms - Year 0, Portugal. Portugal.
2017	Wind Energy	Flora and Vegetation monitoring of the expansion area of Gardunhas', Caramulo and Pinhal Interior Wind Farms - Year 0, Portugal. Portugal.
2017	Wind Energy	Ecological Section of the expansion area monitoring at Malhadas' Wind Farm - Year 0, Portugal. Portugal.
2017	Maritime	Water Bird Monitoring aiming the "Hydrodynamic valorization and risk mitigation of the Armona sea wall to reinforce the dune strand in Barril beach and Cavacos beach" (pre operation phase), Portugal. Portugal.
2017	Hydric Energy	Monitoring of the effectiveness and optimization of the watergates of Borland Crestuma-Lever, Carrapatelo and Régua - 12K Compensatory Measure - Increase of the Douro Fluvial Connectivity, Portugal. Portugal.
2017	Electric Sector	Environmental Impact Study and Preliminary Environmental Compliance Report in the Ecological Section of Feira - Ribeira da Pena powerline (400kV) and in its expansion area, Portugal. Portugal.
2017	Electric Sector	Flora Monitoring Plan of Ponte de Lima - Vila Nova de Famalicão powerline (400kV), Portugal. Portugal.
2017	Electric Sector	Ecological Component of the Reference Situation for a High Voltage Power Line and Substation, in Almada, Portugal. Portugal.
2017	Offshore Aquaculture	Ecological Section of the Environmental Impact Assessment of an Offshore Fish Farm Expansion in Madeira, Portugal. Portugal.
2017	Wind Energy	Bird, Bat and Flora Monitoring at Arrimal's Wind Farm (Year 0), Portugal. Portugal.
2017	Airports	Bird Monitoring at Francisco Sá Carneiro's Airport and surrounding area, Portugal . Portugal.
2017	Nature Conservation	Water Quality and Biological Communities Monitoring of the project area "Hydrodynamic valorization and risk mitigation of the Armona sea wall to reinforce the dune strand in Barril beach and Cavacos beach",

		Portugal. Portugal.
2017	Urban	Design of the Habitat Management Plan for IKEA Loulé. Portugal.
2017	Wind Energy	Flora Monitoring at S. Macario's Wind Farm, Portugal. Portugal.
2017	Urban	Ecological Section of the Environmental Studies of the "EN229 - IP5 / Mundão Business Park" Execution Project. Portugal.
2017	Maritime	Non-permanent monitoring by a specialized biologist of the misalignment in Mira Bar with transposition of Coast Sediments, Portugal. Portugal.
2017	Industry	Ecological Component of EINCA for the expansion of an industrial waste management unit in Batalha, Portugal. Portugal.
2017	Aquaculture	Environmental Evaluation of a Microalgae Production project, Portugal. Portugal.
2017	Urban	Ecological Section of the Environmental Impact Study of the Execution Plan for a Pedestrian and Cyclable Course on the Frente Ribeirinha in Loures, Portugal. Portugal.
2017	Nature Conservation	Arachnofauna Inventory in Areas Under Management of Parques de Sintra - Monte da Lua. Portugal.
2017	Maritime/ Ports	Ecological Section of the Environmental Impact Study of the Modernization Project in Alcântara Container Terminal, Portugal. Portugal.
2017	Oil & Gas	Environmental Impact Study of the Onshore Natural Gas Surveys in concessions of Batalha and Pombal, Portugal. Portugal.
2017	Hydric Energy	Non ecological Section of PIMA - Exploration phase in Foz Tua. Portugal.
2017	Animal Production	Ecological Section of the Environmental Impact Study of the Regulation Project and Licencing of a livestock in Ponte de Sor, Portugal. Portugal.
2017	Wind Energy	Ecological Monitoring: Birds carcass removal tests in LMAT Palmela-Évora, Portugal. Portugal.
2017	Tourism	Ecological Component of the Environmental Impact Assessment of the Aldeia das Cegonhas Tourist Village. Portugal.
2017	Electric sector	Ecological Component of the Environmental Incidence Assessment of "Linha do Alentejo - Troço Poceirão-Bombel e Bifurcação de Águas de Moura Sul" - elimination of constraints, Portugal. Portugal.
2016	Forestry	Portucel Forest Project in Zambézia: Technical prescription for the Assessment, Management and Monitoring of High Conservation Values (HCV), according to the FSC Principles and Criteria. Mozambique.
2016	Wind Energy	Iberian wolf monitoring at Serra de Bornes Wind Farm (construction phase), Portugal. Portugal.
2016	Wind Energy	Bird and Bat Carcass search monitoring at Alto do Marco's Wind Farm (operation phase - 2016). Portugal.
2016	Wind Energy	Technical Advisory in environmental licensing of wind farms in sensitive areas. Portugal.
2016	Wind Energy	Flora and vegetation monitoring at Picos - Vale do Chão Wind Farm and powerline (operation phase). Portugal.
2016	Wind Energy	Bird Monitoring at Serra dos Candeeiros' Wind Farm. Portugal.
2016	Wind Energy	Ecological Management Advisory on the Environmental Impact Assessment (EIA) and post-EIA of Wind Farms. Portugal.
2016	Animal Production	Ecological Section of AvePark's Environmental Impact Assessment Study. Portugal.
2016	Wind Energy	Bird and Bat Monitoring at Caramulo's Wind Farm. Portugal.
2016	Wind Energy	Implementation of an invasive flora species (Acacia sp.) management plan at Pampilhosa da Serra Wind Farm (operation phase - continuation), Portugal. Portugal.
2016	Wind Energy	Implementation of an invasive flora species (Acacia sp.) Management Plan at Lousã I Wind Farm (operation phase - continuation), Portugal. Portugal.
2016	Wind Energy	Bird, Bat, Flora and Vegetation monitoring at Lousã II Wind Farm and its expansion area (operation phase). Portugal.
2016	Electric sector	Design and implementation of the bird monitoring plan at six 220 kV and 400 kV power lines at Lagoaça-Macedo de Cavaleiros crossing the International Douro Natural Park (continuation). Portugal.
2016	Hydric Energy	Ecological Section of the Preliminary Environmental Compliance Report study Of Calheta's Dam Expansion Project, Portugal. Portugal.
2016	Oil & Gas	Cabrera's vole (<i>Microtus cabreræ</i>) monitoring under the Preliminary Environmental Compliance Report study Celorico-Vale de Frades' Gas pipeline. Portugal.
2016	Electric sector	Bird monitoring at the power intensification station of Salamonde II, Venda Nova III and Vieira do Minho. Portugal.
2016	Wind Energy	Bird, Bat and Iberian Wolf Monitoring at Lomba da Seixa and Cabeço Alto and Wind Farm (Year 0) and Montalegre's Wind Farm (operation phase, year 1). Portugal.
2016	Wind Energy	Bird, Bat, Flora, Vegetation and Iberian Wolf Monitoring at the expansion area of Bornes' Wind Farm (operation phase). Portugal.
2016	Wind Energy	Bird and Bat Monitoring at Chão Falcão II & III Wind Farm and associated expansion areas (operation phase). Portugal.
2016	Animal Production	Ecological Section of the Environmental Impact Study of an existing Cattle Fattening infrastructure. Portugal.
2016	Animal	Ecological Section of the Environmental Impact Study of an existing Cattle Fattening infrastructure.

	Production	Poland.
2016	Land Management	Strategic Ecological Assessment of Vale da Telha's Detail Plan. Portugal.
2016	Nature Conservation	Bird Census and Vulnerability Assessment Study of the Disturbance of the International Douro Natural Park - Life Rupis Project. Portugal.
2016	Wind Energy	Iberian Wolf Monitoring of Montalegre's Wind Farm (operation phase, year 1), Portugal. Portugal.
2016	Wind Energy	Vegetation Recovery Status Checking of Lousã 2's Wind Farm Platforms. Portugal.
2016	Wind Energy	Bird and Bat Monitoring of Vila Lobos' Wind Farm (construction and operation phase). Portugal.
2016	Hydric Energy	Identification of floristic species with conservation interests of Foz Tua's powerlines (pre-construction phase). Portugal.
2016	Wind Energy	Bird and Bat Monitoring at Serra da Candeeiros' Wind Farm and its expansion area (operation phase). Portugal.
2016	Agriculture	Bat Monitoring at Caligos-Machados' Hydraulic circuit of Alqueva's Irrigation System (EFMA). Portugal.
2016	Tourism	Ecological Section of the Environmental Impact Study of Guia's Inn. Portugal.
2016	Hydric Energy	Zebra mussel monitoring at Alqueva's Irrigation System (EFMA) dams (2016/2017). Portugal.
2016	Wind Energy	Success Evaluation of the Implementation of the Management Plan for temporary lagoons at Lagoa Funda Wind Farm. Portugal.
2016	Hydric Energy	Monitoring of the phish populations and the emptying of the Dam of Hortas-Lever. Portugal.
2016	Nature Conservation	Ecological characterization of Jamor's River. Portugal.
2016	Urban	Ecological Section of the Environmental Impact Study of an Continuous Health Care Unit Project in Pedreiras, Porto de Mós city, Portugal. Portugal.
2016	Roads	Monitoring of the ecological systems of Baixo Alentejo's Highway (construction phase). Portugal.
2016	Wind Energy	Environmental Report of the Arrimal Wind Farm - legal framework for the Portuguese Environmental Authority (APA - Portuguese Environment Agency) . Portugal.
2016	Wind Energy	Verification of the Recovery of Intervened Areas in Vila Lobos' Wind Farm. Portugal.
2016	Maritime	Ecological Impact Assessment of the Dune Cord's Reinforcement Environmental Compliance Report of Armona and Tavira's Islands - Fuseta-Mar Beach and west of Tavira Island. Portugal.
2016	Maritime	Monitoring of the Ecological and Evolutionary Components of the Estuarine bottoms for the Sediment Transposition Project of Mira's river mouth for dune Reinforcement purposes. Portugal.
2016	Wind Energy	Flora Monitoring at the expansion area of Candeeiros' Wind Farm (operation phase). Portugal.
2016	Maritime	Ecological technical note on Cavacos and Barril beaches. Portugal.
2016	Wind Energy	Design of the mortality monitoring plan of Malhadas' Wind Farm (year 0 update). Portugal.
2016	Wind Energy	Avifauna Specialist Pre-feasibility analysis and Risk Assessment of the proposed Inkamcwa Wind Energy Facility, Eastern Cape, South Africa. South Africa.
2016	Solar Energy	Fauna Specialist Impact Assessment: Cape Leopard for the proposed Bonnievale Solar Energy Facility, Western Cape, South Africa. South Africa.
2016	Solar Energy	Peer-revision of the Environmental Impact Assessment (Avifauna specialist impact assessment draft report) of the proposed Bonnievale Solar Energy Facility, Western Cape, South Africa. South Africa.
2016	Wind Energy	Environmental Impact Assessment (Avifauna specialist impact assessment) of the proposed Sommerset East Wind Energy Facility, Eastern Cape, South Africa. South Africa.
2016	Wind Energy	Avifauna community pre-construction phase monitoring program of the proposed Haga Haga Wind Energy Facility, Eastern Cape Province, South Africa. South Africa.
2016	Wind Energy	Avifauna Pre-feasibility analysis and Risk Assessment of the proposed Stutterhein Wind Energy Facility, Eastern Cape, South Africa. South Africa.
2016	Wind Energy	za43 - Spitskop East WEF
2016	Wind Energy	Bats and Avifauna Pre-feasibility analysis and Risk Assessment of the proposed Suurvlake Wind Energy Facility, Western Cape, South Africa. South Africa.
2016	Wind Energy	Environmental Impact Assessment (Bat specialist impact assessment) of the proposed De Boom Wind Energy Facility, Western Cape, South Africa.. South Africa.
2016	Wind Energy	Bird and Bat Pre-Construction Monitoring and Impact Assessment for the proposed Hartbeest WEF - Update on previous monitoring protocols. South Africa.
2016	Wind Energy	Fauna Specialist Ground-Truthing of the Copperton Wind Energy Facility, Northern Cape, South Africa. South Africa.
2015	Mining	Monitoring of periphytic algae associated to Environmental Management Plan (PGA) of Moatize Industrial Complex and its Expansion. Mozambique.
2015	Land Management	Biological Section of Odeceixe-Vilamoura's Coastline Programme. Portugal.
2015	Wind Energy	Monitoring and Implementation of the minimization strategies on flora and at Serra da Freita I and II Farm Wind. Portugal.
2015	Wind Energy	Bird Monitoring at Picos-Vale do Chão Wind Farm and power line (60kV) (construction and operation phase). Portugal.

2015	Wind Energy	Bird Monitoring at Douro Sul Wind Farm (Power Line 400kV, Moimenta and Sernancelhe sub-wind farms (construction and operation phase). Portugal.
2015	Maritime	Implementation of the Biological Communities Monitoring Plan of Formosa's Estuary Hydrodynamics Valorisation Plan. Portugal.
2015	Wind Energy	Bat Monitoring at Escoural's Wind Farm (Year 0). Portugal.
2015	Nature Conservation	Elaboration of the Biodiversity Study and Characterization of Xarraz's forest area under the Xarraz's Forest Park Design Project. Portugal.
2015	Education & Awareness	Scientific advisory to REN's project "Storks on the Web" (2009, 2010, 2011,2013, 2014 and 2015). Portugal.
2015	Hydric Energy	Fauna monitoring at Foz Tua Dam, Portugal (hydroelectric power station) - 2015 Summer and Spring Monitoring Program, Portugal. Portugal.
2015	Wind Energy	Flora Monitoring at Três Marcos' Wind Farm (pre-construction phase). Portugal.
2015	Wind Energy	Flora and bat roost monitoring at Escoural's Wind Farm (Year 0). Portugal.
2015	Electric Sector	Ecological Impact Assessment of Rio Maior - Carvoeira and Carregado - Rio Maior powerlines, 220/400 kV. Portugal.
2015	Wind Energy	Flora and vegetation monitoring at the Facho-Colmeia Wind Farm (operation phase). Portugal.
2015	Agriculture	Ecological clerk of works during the construction of Roxo-Sados' hydraulic circuit and irrigation block. Portugal.
2015	Electric Sector	Design of the Floristic Exotic Plan and Mapping Update of Vieira do Minho- Pedralva 2 powerline, Portugal. Portugal.
2015	Maritime	Ecological Impact Assessment of the Expansion of Peniche's Shipyards. Portugal.
2015	Agriculture	Bird monitoring along Alvito-Pisão water chanel inserted in the Alqueva Irrigation System (EFMA). Portugal.
2015	Wind Energy	Bat Monitoring at Lagoa D. João e Feirão Wind Farm. Portugal.
2015	Roads	Biological Section of the Road Project "EN 233 - Guarda (IP2/A23 km 1+635) and Sabugal (ER324 km 25+010) – Beneficiação", Portugal. Portugal.
2015	Roads	Ecological Section of the Environmental Impact Studies for the road change (12 km) of Minho Center. Portugal.
2015	Maritime	Barrinha de Esmoriz's Rehabilitation and Enhancement Intervention Monitoring Programme (Pre-Construction Phase). Portugal.
2015	Maritime	Seahorses' Translocation Plan concerning Ria Formosa's dredging project at intervention area number 2 (Faro / Olhão). Portugal.
2015	Hydric Energy	Implementation of compensatory measure at Foz Tua's Dam - Predation Risk Reduction on pyrenean desman. Portugal.
2015	Electric sector	Ecological Section of the Environmental Impact Study for Estremoz-Divor's Powerline. Portugal.
2015	Oil & Gas	Ecological Section of the Environmental Impact Assesment of Celorico-Vale de Frades gas pipeline. Portugal.
2015	Maritime	Water quality moitoring in the area of intervention of the Ria Formosa's Hydrodynamics Valorisation Plan - Tavira and Armona sections. Portugal.
2015	Roads	Ecological Section of the Road Project "EN362 - Beneficiação km 22+344" Santarém county boundary with Porto de Mós and km 51 + 713 junction with EN3 near Santarém. Portugal.
2015	Electric sector	Ecological Section of the Environmental Impact Study of underground Powerlines at Custóias-Vermoim 3, Custóias-Prelada 2 e Prelada-Vermoim 3, 220 kV. Portugal.
2015	Maritime	Monitoring of Terrestrial Biological Communities at the Intervention area of the Redevelopment Project of barrier islands and islets - Renaturalisation and of Ria Formosa's Hydrodynamics Valorisation Plan. Portugal.
2015	Other	Ecological Section of the Environmental Impact Study of the new tissue paper Industrial Unit to be built at Vila Velha de Rodão. Portugal.
2015	Hydric Energy	Ecological Section of the Environmental Impact Study Addendum of Calheta's Dam (pipe amendments), Portugal. Portugal.
2015	Wind Energy	Bird, Bat, Flora and Vegetation Monitoring at the expansion area of Lousã II Wind Farm (construction phase). Portugal.
2015	Maritime	Water quality monitoring regarding the interventions made under Ria Formosa's Hydrodynamics Valorisation Plan and Risk mitigation at Barrier islands and islets - Faro-Olhão section. Portugal.
2015	Land Management	Ecological Section of the Strategic Environmental Assessment of eight Hydrographic Management Plans. Portugal.
2015	Roads	Update of the biotopes and habitats on Minho's North roadways. Portugal.
2015	Wind Energy	Flora Monitoring at the expansion area of Candeeiros Wind Farm (construction phase). Portugal.
2015	Wind Energy	Bird Monitoring at Três Marcos' Wind farm (construction and operation phase). Portugal.
2015	Wind Energy	Ecological Impact Assessment of Mirandela Wind Farm. Portugal.
2015	Hydric Energy	Design of the Ecological Monitoring Plan of Mondego's river Dam. Portugal.
2015	Roads	

		Water quality monitoring during the construction phases of the Baixo Alentejo Highway. Portugal.
2015	Hydric Energy	Environmental Impact Assessment of the River Fauna of Foz Tua's Dam Mobility Plan. Portugal.
2015	Wind Energy	Bird community pre-construction monitoring program of the proposed Witsand Wind Energy Facility, Western Cape Province, South Africa. South Africa.
2015	Wind Energy	Bird community pre-construction phase monitoring program of the proposed Noblesfontein 2 Wind Energy Facility, Western Cape Province, South Africa. South Africa.
2015	Wind Energy	Bat community operation phase monitoring program of the ESKOM Sere Wind Energy Facility, Western Cape Province, South Africa (Year 1, 2 and 3). South Africa.
2015	Wind Energy	Environmental Impact Assessment (Fauna specialist impact assessment) of the proposed Spitskop West Wind Energy Facility, Eastern Cape, South Africa . South Africa.
2015	Wind Energy	Environmental Impact Assessment (Bat specialist impact assessment) of the proposed Kudusberg Wind Energy Facility, Northern Cape, South Africa. South Africa.
2015	Solar Energy	Environmental Impact Assessment (Avifauna specialist impact assessment) Heuningklip Solar Energy Facility, Western Cape, South Africa. South Africa.
2014	Electric Sector	Ecological section of the Environmental Compliance Report of the powerlines between Carrapatelo, Fridão, Ribeira de Pena and Vila Pouca de Aguiar , 400kV, Portugal. Portugal.
2014	Electric Sector	Iberian Wolf Monitoring associated to the environmental clerk of works of Vieira do Minho´s 400 kV power line, Portugal. Portugal.
2014	Agriculture	Aquatic ecosystems´ monitoring at Ferradosa´s dam, Portugal (operation phase). Portugal.
2014	Nature Conservation	Scientific and technical advisory to the GAC Oeste Project (Portugal) - Berlengas Biophere Reserve: Plan for the evaluation of Biodiversity and Ecosystem Services. Portugal.
2014	Wind Energy	Bulb transplant in the new access to the turbine 28 at Serra de Candeeiros´ Wind Farm, Portugal (operation phase). Portugal.
2014	Offshore Energy	Environmental Characterization Study of the Portuguese Offshore Pilot Zone of ENONDAS, S.A., Portugal. Portugal.
2014	Hydric Energy	Fauna monitoring and specialist studies to be integrated in the Environmental Management of Girabolhos´ Hydroelectric Power Plant, Portugal (pre-construction phase). Portugal.
2014	Wind Energy	Bird and Bat monitoring at Vila Lobos' Wind Farm, Portugal (pre-construction phase). Portugal.
2014	Wind Energy	Assessment of the use of a Bonelli's eagle's nest in the surroundings of Figueira Brava Wind Farm, Portugal. Portugal.
2014	Wind Energy	Bird, Bat and Flora Monitoring at the Portela do Pereiro's Wind Farm, Portugal (operation phase). Portugal.
2014	Wind Energy	Bird, Bat and flora monitoring at Altos dos Forninhos´ Wind Farm (operation phase). Portugal.
2014	Wind Energy	Ecological Impact Assessment of the Três Marcos II's Wind Farm, Portugal. Portugal.
2014	Electric Sector	Characterization of the land use, flora and fauna for the amendment of the 400Kv power line interconnection between South Douro's Wind Farm, Armamar substation and Moimenta's Wind Farm Substation, Portugal. Portugal.
2014	Wind Energy	Amphibians, Reptiles and Terrestrial Mammals monitoring and Land clearing, soil and biomass management plan at Três Marcos' Wind Farm, Portugal. Portugal.
2014	Wind Energy	Bird, Bat, flora and vegetation monitoring at Vale da Estrela's Wind Farm (construction and operation phase), Portugal. Portugal.
2014	Electric Sector	Flora Monitoring at Vieira do Minho's substation, Portugal. Portugal.
2014	Nature Conservation	Development of an Educational programme for three protected wildlife species. Portugal.
2014	Wind Energy	Technical report on mitigation techniques to reconcile a Finnish Wind Farm with Golden Eagle, Finland. .
2014	Wind Energy	Implementation of an invasive species Management Plan at Lousã II Wind Farm, Portugal. Portugal.
2014	Nature Conservation	Monitoring of the Arzila's Marsh natural values, Vouga River , Tejo Estuary and Corno do Bico (2014-2015), Portugal. Portugal.
2014	Mining	Bat ecological assessment for the Former Mining Area of Santo António de Penedono Rehabilitation Project, Portugal. Portugal.
2014	Electric Sector	Ecological Impact Assesment and bird monitoring of Iberdrola's powerlines (construction phase), Portugal. Portugal.
2014	Hydric Energy	Implementation of the minimization strategies on the fish populations associated to the emptying the water masses of Foz Tua's Dam (Construction Phase), Portugal. Portugal.
2014	Hydric Energy	Ecological Section of the Environmental Compliance Report of the connection of Foz Tua Dam, 400 kV, to the National Network for Energy Transportation, Portugal. Portugal.
2014	Wind Energy	Bird Monitoring at Escoural's Wind Farm (Year 0). Portugal.
2014	Wind Energy	Bat monitoring at Alvaiázere Wind Farm (5th year monitoring - operation phase). Portugal.
2014	Wind Energy	Bird and Bat Post-construction Monitoring at Noblesfontein Wind Energy Facility (Northern Cape). South Africa.
2013	Wind Energy	Ecological clerk of works and flora monitoring at Prados Wind Farm, Portugal (construction phase). Portugal.
2013	Wind Energy	Design and Implementation of the Montagu's Harrier (Circus pygargus) Offset Programme at Prados Wind

		Farm. Portugal.
2013	Wind Energy	Design and implementation of the Common Kestrel (<i>Falco tinnunculus</i>) Mitigation and Offset Programme at Candeeiros Wind Farm. Portugal.
2013	Wind Energy	Bird including red-billed cough, and flora monitoring at Candeeiros Wind Farm, Portugal (operation phase 2005-2015). Portugal.
2013	Wind Energy	Bird monitoring, including red-billed cough, and flora monitoring at Candeeiros Wind Farm, Portugal (operation phase 2005-2015). Portugal.
2013	Wind Energy	Flora and vegetation monitoring at the Serra da Freita Wind Farm, Portugal (operation phase). Portugal.
2013	Wind Energy	Montagu's Harrier (<i>Circus pygargus</i>) monitoring at Chiqueiro Wind Farm, Portugal (operation phase). Portugal.
2013	Wind Energy	Flora and vegetation monitoring at the expansion area of Serra da Freita I Wind Farm (pre-construction and construction phases). Portugal.
2013	Wind Energy	Flora monitoring at the expansion area of Bornes Wind Farm, Portugal (pre-construction phase). Portugal.
2013	Education & Awareness	Scientific advisory to REN's project "Storks on the Web" (2009, 2010, 2011, 2013, 2014 and 2015). Portugal.
2013	Wind Energy	Endangered flora species (<i>Veronica micrantha</i>) monitoring at Bornes Wind Farm, Portugal (extension of the monitoring period in the operation phase). Portugal.
2013	Wind Energy	Design and implementation of the Bird Offset Programme at Mértola Wind Farm, Portugal. Portugal.
2013	Wind Energy	Bird monitoring at Mértola's Wind Farm (pre-construction, construction and operation phases). Portugal.
2013	Wind Energy	Bird monitoring at Mértola's Wind Farm, Portugal (pre-construction, construction and operation phases). Portugal.
2013	Water Treatment	Ecological risk analysis associated with the activities of "Águas de Santo André, SA" (ADSA) in the management, operation and maintenance of the facilities and equipment of Santo André's wastewater subsystem, Portugal. Portugal.
2013	Wind Energy	Bat and flora monitoring at the expansion area of Candeeiros Wind Farm, Portugal (pre-construction phase). Portugal.
2013	Maritime/ Ports	Bird, flora and benthic macroinvertebrates monitoring at the Termitrena terminal in Setúbal (operation phase, year 1 and 2). Portugal.
2013	Tourism	Fauna specialist studies associated to the Environmental Impact Assessment of Vale do Freixo Touristic Development, Portugal. Portugal.
2013	Water Treatment	Water quality control at the waste water system of Águas de Santo André, Portugal. Portugal.
2013	Electric Sector	Ecological Impact Assessment of the Vieira do Minho – Pedralva 1 high tension power line (400kV) and the shift to Vieira do Minho station (400 kV), Portugal. Portugal.
2013	Animal Production	Environmental Impact Assessment and Environmental Compliance Report of the expansion of a sole fishfarm in Torreira, Aveiro. Portugal.
2013	Tourism	Design of the fauna monitoring and management plans for a touristic development project at Herdade do Pontal in Ria Formosa's Natural Park, Portugal. Portugal.
2013	Electric Sector	Design of the Action Plan and the Monitoring Programme for a Bonelli eagle's couple occurring in the area of the Armamar-Recarei high tension power line (400kV), Portugal. Portugal.
2013	Electric Sector	Raptor nest searching in the Valpaços - Vila Pouca de Aguiar high tension power line, Portugal (pre-construction phase). Portugal.
2013	Tourism	Ecological section of the environmental compliance report of the Herdade do Mercador touristic development (Mourão, Portugal). Portugal.
2013	Water Treatment	Sampling, physical-chemical analysis and water quality monitoring at Morgavel water treatment plant, Portugal. Portugal.
2013	Electric Sector	Wolf monitoring at the Valpaços-Vila Pouca high tension power line area, Portugal (pre-construction phase). Portugal.
2013	Wind Energy	Bat activity assessment at blade height and ground level at the Escoural Wind Farm (pre-construction phase). Portugal.
2013	Nature Conservation	Ichthyofauna, diatoms and macroinvertebrates monitoring at the Project "River regularization of Rio Grande da Pipa" in Carregado, Portugal. Portugal.
2013	Wind Energy	Peer-review of the ecology section of the Picos - Vale do Chão Wind Farm, Portugal. Portugal.
2013	Electric Sector	Flora and habitat monitoring at Vieira do Minho 400kV power lines (pre-construction phase), Portugal. Portugal.
2013	Tourism	Scientific advisory for the valuation of the bird resources at the Herdade do Mercador touristic development, Mourão, Portugal. Portugal.
2013	Nature Conservation	Biodiversity assessment at the Coina's River Marshland Local Nature Reserve and Machada National Forest, Portugal. Portugal.
2013	Wind Energy	Bird, bat, flora and vegetation monitoring at Mosqueiros II Wind Farm and its expansion area (pre-construction, construction and operation phase). Portugal.
2013	Wind Energy	Bird, bat, flora and vegetation monitoring at Mosqueiros II Wind Farm, Portugal, and its expansion area

		(pre-construction, construction and operation phase). Portugal.
2013	Water Treatment	Advisory to the Ecological Impact Assessment of water distributions systems in the cities of Saurimo and Ndalatando, Angola. .
2013	Electric Sector	Ecological Impact Assessment of the high tension power lines in the area of the Alto Tâmega Hydroelectric Power Plants, Portugal. Portugal.
2013	Mining	Ecology section for the environmental impact assessment of the extension of quarry nr. 4735 in Laboeira, Portugal. Portugal.
2013	Industry	Ecological Impact Assessment of a paper industry in Vila Velha de Rodão and Strategic Ecological Assessment for the expansion of the municipality's industrial area, Portugal. Portugal.
2013	Wind Energy	Flora and vegetation (pre-construction) and bird (pre-construction and construction phases) monitoring at Alto dos Forninhos Wind Farm, Portugal. Portugal.
2013	Urban	Ecological Impact Assessment of IKEA's commercial complex in Algarve, Portugal. Portugal.
2013	Wind Energy	Development of the "Guidance on avian post construction monitoring techniques for wind and solar energy facilities with specific reference to Migrating Soaring Birds (MSB) in the Rift Valley/Red Sea Flyway" for BirdLife International. .
2013	Wind Energy	Bird and bat pre-construction monitoring at Moorreesburg Wind Energy Facility (Western Cape, South Africa). South Africa.
2013	Wind Energy	Bird and bat pre-construction monitoring at Gouda II Wind Energy Facility (Western Cape, South Africa). South Africa.
2013	Wind Energy	Bird and bat pre-construction monitoring at Vredendal Wind Energy Facility (Western Cape, South Africa). South Africa.
2013	Wind Energy	Bird and bat pre-construction monitoring at Blue Wind Energy Facility (Northern Cape, South Africa). South Africa.
2013	Wind Energy	Bird and Bat Pre-construction Monitoring at Moorreesburg Wind Energy Facility (Western Cape). South Africa.
2013	Wind Energy	Bird and Bat Pre-construction Monitoring at IE Gouda Wind Energy Facility (Western Cape). South Africa.
2013	Wind Energy	Bird and Bat Pre-construction Monitoring at Vredendal Wind Energy Facility (Western Cape). South Africa.
2013	Wind Energy	Bird and Bat Pre-construction Monitoring at Stormberg Wind Energy Facility (Eastern Cape). South Africa.
2013	Wind Energy	Bird and Bat Pre-construction Monitoring at Gunstfontein Wind Energy Facility (Northern Cape). South Africa.
2013	Wind Energy	Bird and Bat Pre-construction Monitoring at Project Blue Wind Energy Facility (Northern Cape). South Africa.
2013	Wind Energy	Bird and Bat Pre-construction Monitoring at Moorreesburg Extension Wind Energy Facility (Western Cape). South Africa.
2013	Wind Energy	Bird and Bat Pre-construction Monitoring at Sere Wind Energy Facility (Western Cape). South Africa.
2013	Wind Energy	Bird and bat pre-construction monitoring at Vredendal Wind Energy Facility (Western Cape, South Africa). South Africa.
2012	Electric Sector	Ecological Impact Assessment of the Baixo Sabor-Pocinho power line, Portugal. Portugal.
2012	Wind Energy	Wolf, bats and birds monitoring at Mirandela wind farm, Portugal (pre-construction phase). Portugal.
2012	Wind Energy	Ecological Impact Assessment of Mirandela Wind Farm, Portugal. Portugal.
2012	Wind Energy	Bird, bat and flora monitoring at Tocha's Wind Farm, Portugal (pre-construction and construction phase). Portugal.
2012	Wind Energy	Bird monitoring at Lagoa Funda Wind Farm, Portugal (operation phase). Portugal.
2012	Wind Energy	Implementation of an invasive flora species (Acacia sp.) Management Plan at Lousã I Wind Farm (operation phase). Portugal.
2012	Wind Energy	Bird and flora monitoring at Chão Falcão I Wind Farm, Portugal (operation phase). Portugal.
2012	Wind Energy	Bird and bat monitoring at Figueira Brava wind farm, Portugal (pre-construction phase). Portugal.
2012	Wind Energy	Ecological section of the environmental impact assessment at Figueira Brava wind farm, Portugal. Portugal.
2012	Wind Energy	Bird and flora monitoring (pre-construction, construction and operation phases) and bat monitoring (operation phase) at Lousã II Wind Farm, Portugal, including its expansion area. Portugal.
2012	Electric Sector	Implementation of the Offset and Monitoring Programme focused on black stork at the Macedo de Cavaleiros-Valpaços power line 220 kV (400 kV). Portugal.
2012	Wind Energy	Ecological Impact Assessment of Maunça's Wind Farm, Portugal. Portugal.
2012	Water Treatment	Preliminary assessment of the ecological status of the water at the exit of the wastewater system of the Aljustrel Mining Park, Portugal. Portugal.
2012	Urban	Environmental Impact Assessment of Valley Park's Project - Cartaxo's Business Park, Portugal. Portugal.
2012	Wind Energy	Bird, including red-billed chough (pre-construction, construction and operation phases), flora and vegetation (construction and operation phase) monitoring at Meroicinha II Wind Farm. Portugal.
2012	Wind Energy	Bird, including red-billed chough (pre-construction, construction and operation phases), flora and vegetation (construction and operation phase) monitoring at Meroicinha II Wind Farm, Portugal. Portugal.

2012	Agriculture	Zooplankton sampling and assessment in surface freshwater of the Alqueva Irrigation System (EFMA, Portugal): Alfundão, Serpa and Brinches-Enxoé irrigation systems. Portugal.
2012	Mining	Ecological section of the additional information to be included in the Environmental Impact Assessment of the quarry Cimo das Lameiras do Rio, Portugal. Portugal.
2012	Roads	Assessment of the biological status of water under the Water Framework Directive at A43 / IC29 Douro Litoral Highway: Gondomar / Aguiar de Sousa (IC24), Portugal. Portugal.
2012	Electric sector	Ecological Impact Assessment of the power intensification at Salamonde II, Venda Nova III and Frades B substation, Portugal. Portugal.
2012	Wind Energy	Flora, vegetation and bird monitoring at Maunça Wind Farm, Portugal (pre-construction phase). Portugal.
2012	Wind Energy	Bird and bat monitoring at 3 Marcos Wind Farm, Portugal (pre-construction phase). Portugal.
2012	Wind Energy	Ecological constraints analysis and Ecological Impact Assessment at 3 Marcos Wind Farm, Portugal (pre-construction phase). Portugal.
2012	Mining	Ecological section of a scoping proposal for a mining project in the river Douro area, Tabuaço, Portugal. Portugal.
2012	Nature Conservation	Determination of the hydromorphological quality of three streams located in Canedo / Santa Maria da Feira, Portugal. Portugal.
2012	Wind Energy	Implementation of an invasive flora species (<i>Acacia</i> sp.) management plan at Pampilhosa da Serra Wind Farm (operation phase). Portugal.
2012	Wind Energy	Monitoring of a vertical bat roost at Malhanito Wind Farm, Portugal (pre-construction, construction and operation phases). Portugal.
2012	Mining	Design of conservation measures for <i>Unio crassus</i> ' emergency and population maintenance plan at the river Sado Basin associated to a mining infrastructure, Portugal. Portugal.
2012	Agriculture	Steppe bird monitoring at Alfundão and Ferreira Valbom irrigation areas inserted in the Alqueva Irrigation System (EFMA, Portugal). Portugal.
2012	Wind Energy	Bird and flora monitoring at Meadas wind farm, Portugal (operation phase). Portugal.
2012	Electric sector	Design of the Offset Programme focused on a Bonelli's eagle pair and assessment of its effectiveness at Portimão-Tunes North / Portimão-Tunes 3 power line (400/150kV) – alternative layout at the crossing of Funcho and Arade Dams, Portugal. Portugal.
2012	Wind Energy	Implementation of the Management Plan for the temporary lagoons at Lagoa Funda Wind Farm (operation phase - 2012 and 2013). Portugal.
2012	Hydric Energy	Baseline assessment of the current ecological status of the river mussel (<i>Margaritifera margaritifera</i>) population in River Tuela associated to Trutas Dam (Small Hydro), Portugal. Portugal.
2012	Electric Sector	Bird monitoring at the 150 kV power line connecting the Fernão Ferro substation to the 400 kV power line of Palmela - Ribatejo, Portugal. Portugal.
2012	Electric sector	Flora and habitat monitoring at the 400 kV power line of Palmela-Ribatejo in the Fernão Ferro substation, Portugal. Portugal.
2012	Tourism	Ecological Impact Assessment for the Ota's Driving School & Technology Centre, Portugal. Portugal.
2012	Electric sector	Ecological Impact Assessment of the high tension power line and its substations between Alfena – Vila do Conde – Vila Fria (Portugal) and Spain (400 kV). Portugal.
2012	Roads	Ecological section of the Environmental Compliance Report and design of the Mitigation measures for the construction of the main road IC35 - Guilhufe (A4/IP4) / Rans junctions, Portugal. Portugal.
2012	Industry	Ecological Impact Assessment of a waste incineration unit in the municipality of Chamusca at the Relvão's Eco Park, Portugal. Portugal.
2012	Wind Energy	Transplantation of the endangered flora species <i>Scilla ramburei</i> subsp. <i>beirana</i> prior to the construction of Prados Wind Farm, Portugal. Portugal.
2012	Water Treatment	Water quality monitoring at Santo André beach and Moinhos stream, Portugal. Portugal.
2012	Hydric Energy	Ecological Impact Assessment of the Calheta and Pico da Urze's Dam, Portugal (hydroelectric power station). Portugal.
2012	Wind Energy	Bat pre-construction monitoring at Hopefield Wind Energy Facility (Western Cape, South Africa). South Africa.
2012	Wind Energy	Bird and bat pre-construction monitoring at Noblesfontein Wind Energy Facility (Northern Cape, South Africa). South Africa.
2012	Wind Energy	Bat pre-construction monitoring at West Coast I Wind Energy Facility (Western Cape, South Africa). South Africa.
2012	Wind Energy	Bat pre-construction monitoring at Rhebokfontein Wind Energy Facility (Western Cape, South Africa). South Africa.
2012	Wind Energy	Bird and bat pre-construction monitoring at Tsitsikamma Wind Energy Facility (Eastern Cape, South Africa). South Africa.
2012	Wind Energy	Bird and bat pre-construction monitoring at Tiqua Wind Energy Facility (Western Cape, South Africa). South Africa.
2012	Wind Energy	Bat pre-construction monitoring at Dorper Wind Energy Facility (Eastern Cape, South Africa). South Africa.

2012	Wind Energy	Scoping and bat ecological assessment for the Zen Wind Energy Facility project (Western Cape, South Africa). South Africa.
2012	Wind Energy	Bird and bat pre-construction Monitoring at Kangnas Wind Energy Facility (Northern Cape, South Africa). South Africa.
2012	Wind Energy	Bird and bat pre-construction monitoring at Gouda Wind Energy Facility (Western Cape, South Africa). South Africa.
2012	Wind Energy	Bird and bat pre-construction monitoring at Springfontein Wind Energy Facility (Free State, South Africa). South Africa.
2012	Wind Energy	Peer-review of the bird pre-construction monitoring reports for the Hluhluwe Wind Energy Facility project (KwaZulu Natal, South Africa). South Africa.
2012	Wind Energy	Bird and bat pre-construction monitoring at Swellendam Wind Energy Facility (Western Cape, South Africa). South Africa.
2012	Wind Energy	Peer-review of the bird pre-construction monitoring reports for the Richards Bay Wind Energy Facility project (KwaZulu Natal, South Africa). South Africa.
2012	Wind Energy	Bat pre-construction monitoring program at Hopefield Wind Energy Facility (Western Cape, South Africa). South Africa.
2012	Wind Energy	Environmental Impact Assessment (Avifauna specialist environmental assessment) of the proposed Hopefield Wind Energy Facility, Western Cape, South Africa. South Africa.
2012	Wind Energy	Bird and bat pre-construction monitoring at Noblesfontein Wind Energy Facility (Northern Cape, South Africa). South Africa.
2012	Wind Energy	Bat pre-construction monitoring program at West Coast I Wind Energy Facility (Western Cape, South Africa). South Africa.
2012	Wind Energy	Bat pre-construction monitoring program at Rhebokfontein Wind Energy Facility (Western Cape, South Africa). South Africa.
2012	Wind Energy	Bird and bat pre-construction monitoring program at Tsitsikamma Wind Energy Facility (Eastern Cape, South Africa). South Africa.
2012	Wind Energy	Bird and bat pre-construction monitoring program of the proposed Tiqua/EXXARO Wind Energy Facility (Western Cape, South Africa). South Africa.
2012	Wind Energy	Bat pre-construction monitoring program at Dorper Wind Energy Facility (Eastern Cape, South Africa). South Africa.
2012	Wind Energy	Scoping and bat ecological assessment for the Zen Wind Energy Facility project (Western Cape, South Africa). South Africa.
2012	Wind Energy	Bird and bat pre-construction monitoring program of the proposed Zen Wind Energy Facility, Western Cape Province, South Africa. South Africa.
2012	Wind Energy	Bird and bat pre-construction Monitoring program at Kangnas Wind Energy Facility (Northern Cape, South Africa). South Africa.
2012	Wind Energy	Bird and bat pre-construction monitoring at Gouda Wind Energy Facility (Western Cape, South Africa). South Africa.
2012	Wind Energy	Bird and bat pre-construction monitoring at Springfontein Wind Energy Facility (Free State, South Africa). South Africa.
2012	Wind Energy	Peer-review of the bird pre-construction monitoring reports for the Hluhluwe Wind Energy Facility project (KwaZulu Natal, South Africa). South Africa.
2012	Wind Energy	Bat Specialist Environmental Impact Assessment of the proposed Richards bay Wind Energy Facility, Kuazulu Natal, South Africa. South Africa.
2012	Wind Energy	Environmental Impact Assessment (Avifauna specialist environmental assessment) of the Goereesoe (Swellendam) Wind Energy Facility, Western Cape, South Africa. South Africa.
2012	Wind Energy	Bird and bat pre-construction monitoring at Swellendam Wind Energy Facility (Western Cape, South Africa). South Africa.
2012	Wind Energy	Bird monitoring program of the proposed Goereesoe (Swellendam) Wind Energy Facility, Western Cape Province, South Africa. South Africa.
2012	Wind Energy	Bat monitoring program of the proposed Goereesoe (Swellendam) Wind Energy Facility, Western Cape Province, South Africa. South Africa.
2012	Wind Energy	Bat monitoring program of the proposed Richards Bay Wind Energy Facility, KwaZulu-Natal Province, South Africa. South Africa.
2012	Wind Energy	Peer-review of the bird pre-construction monitoring reports for the Richards Bay Wind Energy Facility project (KwaZulu Natal, South Africa). South Africa.
2011	Training	Course on Environmental Assessment of Projects, Plans and Programmes under the Natura 2000 Network (18th November 2011, Lisbon, Portugal). Portugal.
2011	Agriculture	Terrestrial flying vertebrates carcass searches along the Alvito-Pisão water channel inserted in the Alqueva Irrigation System (EFMA, Portugal) using wildlife research dogs. Portugal.
2011	Wind Energy	Bonelli's eagle monitoring at Serra do Mú Wind Farm, Portugal (pre-construction, construction and operation phase). Portugal.

2011	Hydric Energy	Ecological Impact Assessment of Carvão-Ribeira's Dam, Portugal (hydroelectric power station). Portugal.
2011	Nature Conservation	Ecological section of the project design for the protection of cliffs and dune systems under the Polis Litoral Sudoeste Program, Portugal. Portugal.
2011	Wind Energy	Bird including red-billed cough, and flora monitoring at Candeeiros Wind Farm, Portugal (operation phase 2005-2015). Portugal.
2011	Nature Conservation	Biological analysis of sediments in Ria de Aveiro and Pateira de Fermentelos, Portugal. Portugal.
2011	Electric sector	Ecological Impact Assessment of the opening of the high tension power line Valdigem - Vermoim and its substations between Alfena – Vila do Conde – Vila Fria (Portugal) and Spain (400 kV). Portugal.
2011	Electric sector	Design and implementation of an Offset Programme focused on raptors, black stork and red-billed chough at the National Park of International Douro River and Távora's River valley, Portugal, for the Environmental Impact Assessment of the power line Lagoaça – Aldeadávila 1 (400kV), Pocinho – Aldeadávila 1/2 (220kV) and Armamar – Lagoaça (400kV). Portugal.
2011	Wind Energy	Design of an invasive flora species' Management Plan at Picos – Vale do Chão Wind Farm, Portugal. Portugal.
2011	Hydric Energy	Ecological section of the Environmental Compliance Report of the Girabolhos Dam, Portugal (hydroelectric power station). Portugal.
2011	Electric sector	Design and implementation of an Offset Programme focused on raptors, black stork and red-billed chough at the National Park of International Douro River and Távora's River valley, Portugal, for the Environmental Impact Assessment of the power line Lagoaça – Aldeadávila 1 (400kV), Pocinho – Aldeadávila 1/2 (220kV) and Armamar – Lagoaça (400kV). Portugal.
2011	Electric sector	Design and implementation of the bird monitoring plan at six 220 kV and 400 kV power lines at Lagoaça-Macedo de Cavaleiros crossing the International Douro Natural Park, Portugal. Portugal.
2011	Wind Energy	Bird, bat and flora monitoring at Chão Falcão II Wind Farm, Portugal (construction and operation phase). Portugal.
2011	Wind Energy	Bird, bat and flora monitoring at Chão Falcão II Wind Farm, Portugal (pre-construction, construction and operation phases). Portugal.
2011	Wind Energy	Bat monitoring at Serra de Bornes Wind Farm, Portugal (operation phase). Portugal.
2011	Wind Energy	Invasive species monitoring at Picos - Vale do Chão Wind Farm and its power line (60 kV) connecting to the Lousã II - Penela power line, Portugal. Portugal.
2011	Wind Energy	Bird and bat monitoring at Malhanito's Wind Farm (pre-construction, construction and operation phases). Portugal.
2011	Wind Energy	Bird and bat monitoring at Malhanito's Wind Farm, Portugal (pre-construction, construction and operation phases). Portugal.
2011	Wind Energy	Design and implementation of the mitigation measures program directed at the Bonelli eagle at the Malhanito wind farm, Portugal. Portugal.
2011	Mining	Environmental Impact Assessment of a quarry located between Pé da Pedreira and Vale da Trave (Alcanede, Santarém, Portugal). Portugal.
2011	Electric sector	Bird monitoring at the Estremoz-Alandroal power line (400 kV) – complementary monitoring of steppe birds (pre-construction phase), Portugal. Portugal.
2011	Roads	Ecological Impact Assessment for the widening project (dual two-lanes to dual three-lanes) and resurfacing of the A3 Highway between Santo Tirso and Famalicão, Portugal. Portugal.
2011	Electric sector	Ecological Impact Assessment of the replacement project of the power line's section 3 at Armamar – Recarei (400 kV), Portugal. Portugal.
2011	Land Management	Strategic Ecological Assessment of the Management Plans for the hydrographical bays integrated in the hydrographical regions 6 (Sado/Mira), 7 (Guadiana) and 8 (Ribeiras do Algarve), Portugal. Portugal.
2011	Wind Energy	Ecological technical note on the over-equipment at Freita I Wind Farm, Portugal. Portugal.
2011	Hydric Energy	Fauna monitoring at Foz Tua Dam (hydroelectric power station) - pre-construction and construction phase. Portugal.
2011	Hydric Energy	Fauna monitoring at Foz Tua Dam (hydroelectric power station) - pre-construction and construction phase. Portugal.
2011	Agriculture	Survey of the endangered flora species <i>Linaria ricardoi</i> during the construction of the water channel Pisão-Beja and Pisão-Roxo associated to the Alqueva Irrigation System (EFMA, Portugal). Portugal.
2011	Hydric Energy	Bat and vegetation monitoring at the power reinforcement of Salamonde II Dam (hydroelectric power station - pre-construction phase). Portugal.
2011	Offshore Energy	Marine birds and mammals monitoring in the Portuguese pilot zone for testing offshore renewable energies. Portugal.
2011	Roads	Amphibian monitoring associated to the construction of a roundabout in the municipality of Olhão, Portugal. Portugal.
2011	Roads	Design of an ecological technical note to replace a viaduct for a new layout with a landfill, extending an existing hydraulic passage, in section 6 of the A4 Highway, Transmontana Sublease, Portugal. Portugal.
2011	Wind Energy	Wolf monitoring at Alto do Marco and Meroicinha II wind farms, Portugal (construction and operation phase). Portugal.

2011	Hydric Energy	Determination of the preference and aptitude curves for the fish species captured in the surveys for the Alvito's Dam, Portugal (hydroelectric power station) Environmental Compliance Report. Portugal.
2011	Land Management	Ecological section of the intervention projects for the recovery and protection of degraded dune systems, and renaturalisation of degraded natural areas – Polis Litoral Norte Program, Portugal. Portugal.
2011	Electric sector	Ecological Impact Assessment of the three projects of Recarei – Vermoim III's power line, Portugal (change of tension from 220kV to 400kV). Portugal.
2011	Wind Energy	Monitoring of the dune system's dynamics at Tocha's Wind Farm, Portugal (pre-construction, construction and operation phases). Portugal.
2011	Roads	Advisory on the technical decision about the Strategic Environmental Assessment of the National Road Network in Douro Sul, IC26 – Lamego/Trancoso (Portugal): the case for the Iberian wolf. Portugal.
2011	Roads	Ecological Impact Assessment of the construction project of the national road EN 109 between Espinho (km 18+400), the Municipality of Ovar (km 40+200) and EN 109 – alternative to Macedo, Portugal. Portugal.
2011	Electric sector	Ecological constraints analysis and Ecological Impact Assessment of the high tension power lines construction project between Frades B and Pedralva, Portugal. Portugal.
2011	Roads	Revaluation of the mitigation measures proposed for the widening of the A28 Highway between Freixeiro and Póvoa do Varzim, Portugal. Portugal.
2011	Urban	Ecological section of the Environmental Compliance Report of Suldouro's new landfill, Portugal. Portugal.
2011	Wind Energy	Ecological Impact Assessment of the 3rd alternative to Cercal Wind Farm's power line, Portugal. Portugal.
2011	Hydric Energy	Ecological Impact Assessment of the medium tension power lines in the area of the Alto Tâmega Dams, Portugal (hydroelectric power stations). Portugal.
2011	Nature Conservation	Advisory on the ecological section of Ria Formosa's Mobility Plan. Portugal.
2011	Industry	Ecological Impact Assessment of the Font Salem Factory expansion, Portugal. Portugal.
2011	Land management	Design of the Biodiversity Action Plan and design of an Integrated Linear System for the City Parks in the municipality of Almada, Portugal. Portugal.
2011	Wind Energy	Bird (pre-construction, construction and operation phases) and flora and vegetation (operation phase) monitoring at Gardunha Wind Farm, Portugal. Portugal.
2011	Agriculture	Steppe bird monitoring at the south and west sections of the Ardila irrigation subsystem inserted in the Alqueva Irrigation System (EFMA, Portugal). Portugal.
2011	Wind Energy	Ecological Impact Assessment of Santiago do Escoural Wind Farm, Portugal. Portugal.
2010	Roads	Ecological clerk of works during the construction of the A4 Highway, Transmontana Sublease, crossing the Natura 2000 Sites "Serra do Alvão" and "Samil", Portugal. Portugal.
2010	Wind Energy	Bird monitoring at Picos - Vale do Chão Wind Farm, Portugal (pre-construction phase). Portugal.
2010	Wind Energy	Bird, bat and flora monitoring at Prados Wind Farm (pre-construction, construction and operation phases). Portugal.
2010	Wind Energy	Bird monitoring (operation phase) and flora and vegetation (pre-construction and operation phase) monitoring at Pampilhosa da Serra Wind Farm, Portugal. Portugal.
2010	Wind Energy	Iberian wolf monitoring at Serra de Bornes Wind Farm, Portugal (operation phase). Portugal.
2010	Electric sector	Bird monitoring at Castelo Branco - Ferro ½ power line and shift to the Fatela sub-station (220 kV), Portugal. Portugal.
2010	Electric Sector	Bird monitoring at Valdigem - Vermoim 4/5 power line - between the Valdigem sub-station and pole n.158 of the LVGVm (220 kV), Portugal. Portugal.
2010	Nature Conservation	Steppe bird monitoring at the Integrated Territorial Intervention area of Castro Verde, Portugal. Portugal.
2010	Roads	Flora and vegetation monitoring in the Litoral Oeste Highway Sublease, from the EN242 alternative sector to Nazaré, Portugal. Portugal.
2010	Roads	Fauna monitoring at the main road IP2's, Sector 4, between Longrovia and Trancoso, Portugal (construction phase). Portugal.
2010	Roads	Ecological Impact Assessment of the connection between the main road IC21 at the Coia junction to Sesimbra, Portugal. Portugal.
2010	Roads	Ecological section of the Environmental Compliance Report of the national road N249-4 execution project between the A5's Highway junction and Abrunheira, Portugal. Portugal.
2010	Roads	Ecological Impact Assessment of the preliminary study for the main road IP4's connection between Vinhais and Bragança, Portugal. Portugal.
2010	Roads	Ecological Assessment of the bridges rehabilitation project in Oeste, Alentejo, Sorraia River and main road IC8's (km 85+130) hydraulic passage, Portugal. Portugal.
2010	Tourism	Ecological section for the Herdade dos Despovoados Land Management Plan, Portugal. Portugal.
2010	Roads	Ecological Impact Assessment of the main road IP2 between Junqueira and Pocinho, Portugal. Portugal.
2010	Tourism	Ecological Impact Assessment of the infrastructures associated to the Touristic Development of Herdade do Mercador, Alqueva, Portugal. Portugal.
2010	Wind Energy	Rare, endemic, localized and threatened flora species monitoring at Picos - Vale do Chão Wind Farm,

		Portugal, and design of a flora and vegetation monitoring programme to be included in the project's Environmental Compliance Report. Portugal.
2010	Hydric Energy	Assessment of the biological status of water under the Water Framework Directive at Alvito's Dam, Portugal (hydroelectric power station) - pre-construction phase. Portugal.
2010	Land Management	Ecological section of the revision of Loulé's Land Management Plan, Portugal. Portugal.
2010	Land Management	Strategic Ecological Assessment of the Polis Sudoeste Programme, Portugal. Portugal.
2010	Land Management	Terrestrial ecological section of the Tagus Estuary Management Plan, Portugal. Portugal.
2010	Land Management	Strategic Ecological Assessment of Bacelo's urban detailed plan in Quinta do Anjo, Palmela, Portugal. Portugal.
2010	Wind Energy	Flora and vegetation monitoring at Serra de Bornes wind farm, Portugal (pre-construction and operation phase). Portugal.
2010	Animal Production	Ecological Impact Assessment of the aviaries in Vale Longo and Cabral, Portugal. Portugal.
2010	Wind Energy	Ecological Impact Assessment of Cercal's Wind Farm, Portugal. Portugal.
2010	Electric sector	Ecological Impact Assessment of the very high tension power line at Tâmega's cascade, Portugal. Portugal.
2010	Hydric Energy	Ecological Impact Assessment of Salomonde Dam's, Portugal (hydroelectric power station) complementary flood discharger. Portugal.
2010	Hydric Energy	Ecological Impact Assessment of Calheta's Dam, Portugal (hydroelectric power station), Portugal. Portugal.
2010	Hydric Energy	Ecological section of the Environmental Compliance Report of the Alvito's Dam, Portugal (hydroelectric power station). Portugal.
2010	Hydric Energy	Assessment of the ecological status of the water at Trutas' Dam, Portugal (small-hydro) under the Water Framework Directive (operation phase). Portugal.
2010	Hydric Energy	Ichthyofauna, pyrenean desman, aquatic macroinvertebrates, flora and vegetation monitoring at Trutas' Dam - Mini Hydro, Portugal (pre-construction and operation phases). Portugal.
2010	Land Management	Ecological section of the Polis Litoral Ria de Aveiro, Portugal, Programme: study on economical activities and its dynamics. Portugal.
2010	Wind Energy	Habitat, <i>Narcissus asturiensis</i> and <i>Armeria humillis</i> (protected flora species) mapping at Meroicinha II Wind Farm, Portugal. Portugal.
2010	Wind Energy	Bird, flora and vegetation monitoring at São Macário II Wind Farm, Portugal (construction phase). Portugal.
2010	Roads	Ecological Impact Assessment for the widening of the A28 Highway between Freixieiro and Póvoa do Varzim, Portugal. Portugal.
2010	Agriculture	Scientific advisory to the project "Exploration of agroforestry systems on the left bank of the Guadiana River (Portugal) - a strategy for the sustainability of rural areas". Portugal.
2010	Electric sector	Flora and vegetation monitoring at Palmela - Ribatejo power line (400kV), Portugal (pre-construction and construction phases). Portugal.
2010	Land management	Ecological section of the Land Planning Project for the hydrographical regions of Lagoas Branca, Negra, Funda, Comprida, Rasa, Lomba e Patos, in Flores island, Azores, Portugal. Portugal.
2010	Maritime	Benthic macroinvertebrates monitoring at the turning basin of Alcântara's container port terminal, Portugal. Portugal.
2010	Roads	Fauna and flora monitoring at the main road IC9 - Alburitel / Carregueiros junction / Tomar (IC3), Portugal (pre-construction phase). Portugal.
2010	Airports	Peer-review and advisory on the study of bird movements in the New Lisbon Airport construction area, Portugal. Portugal.
2010	Roads	Ecological Impact Assessment and Environmental Compliance report of the alternative road to Capelas on the island of St. Miguel, Azores, Portugal. Portugal.
2010	Nature Conservation	Macroinvertebrate surveying at Lagoa da Palmeira (Tagus Estuary, Portugal), to determine the ecological status of the area and design of its decontamination plan. Portugal.
2010	Tourism	Ecological Impact Assessment in marine environment for Albufeira's sea boulevard, Portugal. Portugal.
2010	Land Management	Advisory for the integration of Natura 2000 guidelines into the revision of the municipality of Setubal's Land Management Plan. Portugal.
2010	Roads	Flora and vegetation monitoring at the new bridge crossing river Lima's at Jolda's junction (construction phase), Portugal. Portugal.
2010	Roads	Water quality monitoring during the pre-construction and construction phases of the Baixo Alentejo Highway, Portugal. Portugal.
2010	Tourism	Scoping phase of the Ecological Impact Assessment of a touristic development centre to be built at Herdade do Pontal in Ria Formosa's Natural Park, Portugal. Portugal.
2010	Agriculture	Biological and hydromorphological sections of the assessment of the ecological status of the Alqueva

		Irrigation System primary network (EFMA, Portugal). Portugal.
2010	Tourism	Execution of the project for the conservation and valuing of cultural tourism for the Iberian Wolf in the municipality of Vila Pouca de Aguiar, Portugal. Portugal.
2010	Agriculture	Design of the biodiversity monitoring programmes to be included in the Environmental Impact Assessment of Salamonde's Dam, Portugal (hydroelectric power station). Portugal.
2009	Hydric Energy	Ecological Impact Assessment of the Alvito's Dam (hydroelectric power station) and the 400kV high power line between the Dam and the Falagueira substation, Portugal. Portugal.
2009	Electric sector	Ecological Impact Assessment of the Ermesinde's substation rehabilitation, Portugal. Portugal.
2009	Urban	Strategic Ecological Assessment of the Urban Development Plan of Carvalhal and Lagoas, Portugal. Portugal.
2009	Wind Energy	Bird and bat monitoring at Serra da Nave Wind Farm, Portugal (pre-construction and operation phases). Portugal.
2009	Tourism	Ecological Impact Assessment of the housing development at Areia Branca's beach, Portugal. Portugal.
2009	Roads	Ecological Impact Assessment and design of the Offsets Programme for the main road IP8 between Baleizão and Vila Verde de Ficalho, Portugal. Portugal.
2009	Agriculture	Ecological clerk of works during the construction of the drainage, irrigation and roadway infrastructures associated to the Brinche's Hydro agriculture Project, inserted in the Alqueva Irrigation System (EFMA, Portugal). Portugal.
2009	Wind Energy	Habitat 4020 monitoring at Serra do Alvão Wind Farm, Portugal (pre-construction phase). Portugal.
2009	Roads	Ecological section of the Environmental Compliance Report for the execution project of conception, construction and operation of the A4 Highway, Transmontana Sublease between Vila Real and Bragança, Portugal. Portugal.
2009	Oil & Gas	Flora and vegetation monitoring at the high-pressure gas pipeline between Carriço and Leirosa-Lares, Portugal (post-construction phase). Portugal.
2009	Wind Energy	Terrestrial mammal monitoring at Carreço-Outeiro II Wind Farm, Portugal (pre-construction phase). Portugal.
2009	Agriculture	Bird monitoring at Pisão Dam inserted in the Alqueva Irrigation System (EFMA, Portugal). Portugal.
2009	Land Management	Strategic Ecological Assessment of Comporta's Territorial Action Programme, Portugal. Portugal.
2009	Wind Energy	Detailed mapping for the Lomba do Vale wind farm, Portugal. Portugal.
2009	Industry	Ecological section of the technical and environmental viability assessment of a water channel associated to a steel mill in the Tagus Estuary. Portugal.
2009	Wind Energy	Bird monitoring at Lomba do Vale Wind Farm, Portugal (construction phase). Portugal.
2009	Wind Energy	Bird monitoring at Lomba do Vale Wind Farm, Portugal (pre-construction phase). Portugal.
2009	Roads	Peer-review of the ecological assessment and mitigation programme related to construction of the Douro Interior Highway, Portugal. Portugal.
2009	Wind Energy	Bird and bat monitoring at Contim Wind Farm, Portugal (pre-construction, construction and operation phases). Portugal.
2009	Roads	Ecological section for the IC9-EN1 Fátima/Ourém (Portugal) Environmental Compliance Report. Portugal.
2009	Tourism	Habitat and Cabrera's vole colony mapping at the Herdade dos Despovoados in Zambujeira-do-Mar, Portugal. Portugal.
2009	Industry	Ecological Impact Assessment of RESPOL's resin plant in Leiria, Portugal. Portugal.
2009	Wind Energy	Ecological Impact Assessment of Alto do Marco's Wind Farm, Portugal. Portugal.
2009	Wind Energy	Bird and bat monitoring at Alto do Marco wind farm, Portugal (pre-construction phase). Portugal.
2009	Roads	Ecological section of the Preliminary Environmental Compliance Report for the conception, construction and operation of the Pinhal Interior Highway Sublease, Portugal. Portugal.
2009	Hydric Energy	Technical advisory and terrestrial fauna section of the Environmental Impact Assessment of the Salamonde - Salamonde II Dam, Portugal (hydroelectric power station). Portugal.
2009	Airports	Ecological Impact Assessment of Lisbon's New Airport in Alcochete, Portugal. Portugal.
2009	Hydric Energy	Ecological Impact Assessment of Baixo Sabor Dam's (hydroelectric power station) Power Line (220kV) between the upstream step and Pocinho's substation, Portugal. Portugal.
2009	Roads	Ecological Impact Assessment of the preliminary study for the road alternative to the national road EN229 - Viseu (IP5/IP25) - Sátão, Portugal. Portugal.
2009	Roads	Strategic Ecological Assessment of the development of the National Road Network in coastal Alentejo and Algarve, Portugal. Portugal.
2009	Hydric Energy	Fauna and flora monitoring at Alvito's Dam (hydroelectric power station) (pre-construction phase). Portugal.
2009	Wind Energy	Wolf monitoring at Meroicinha II Wind Farm, Portugal, through photo trapping (pre-construction phase). Portugal.
2009	Roads	Peer-review of the ecological assessment and mitigation programme related to construction of the Baixo Alentejo Highway, Portugal. Portugal.
2009	Nature	Mapping of floristic species with conservation status at São Bento wind farm's construction area, Portugal.

	Conservation	Portugal.
2009	Electric sector	Ecological advisory to an occurrence with white storks at the Recarei - Lavos power line (400 kV), Portugal. Portugal.
2009	Wind Energy	Baseline Ecological Assessment and bird and flora and vegetation monitoring at Cercal's Wind Farm, Portugal (pre-construction phase). Portugal.
2009	Wind Energy	Design of the terms of reference for the ecological assessment related to the installation of two Wind Farms in Venezuela. .
2009	Transports	Ecological Impact Assessment of three railway crossings in Alcácer do Sal, Portugal. Portugal.
2009	Roads	Peer-review of the ecological assessment and mitigation programme related to construction of the Algarve Litoral Highway, Portugal. Portugal.
2009	Maritime/ Ports	Ecological Impact Assessment of the Alcântara's container port terminal, Portugal. Portugal.
2009	Wind Energy	Bird monitoring at Bornes Wind Farm, Portugal (operation phase). Portugal.
2009	Wind Energy	Ecological Impact Assessment of the new Tocha's Wind Farm, Portugal. Portugal.
2009	Fisheries	Ecological Impact Assessment of the professional fishing facilities in São Jacinto, Ria de Aveiro, Portugal. Portugal.
2009	Roads	Non-flying terrestrial vertebrates Monitoring at the A4 Highway, Transmontana Sublease between Vila Real and Bragança, Portugal (pre-construction and construction phases). Portugal.
2009	Electric sector	Ecological Impact Assessment of the power line between Vila Pouca de Aguiar - Ribeira de Pena - Carrapatelo (400 Kv), Portugal. Portugal.
2008	Nature Conservation	Development of the WebGIS Biodiversity Tracking System tool. Portugal.
2008	Offshore Energy	Ecological Impact Assessment of the FLOW Project, a Martifer Energia's wave energy pilot-project, Portugal. Portugal.
2008	Roads	Ecological section of the Preliminary Environmental Compliance Report study for the conception, construction and operation of the Douro Interior Highway Sublease, Portugal. Portugal.
2008	Wind Energy	Ecological diagnosis for the potential construction of a Wind Farm in Facho da Azóia, Portugal. Portugal.
2008	Electric sector	Bird monitoring at the Mogadouro-Valeira high tension power line to the Olmos substation (220 kV) in Macedo de Cavaleiros, Portugal (pre-construction and construction phase). Portugal.
2008	Roads	Ecological section of the Preliminary Environmental Compliance Report for the conception, construction and operation of the Baixo Alentejo Highway Sublease, Portugal. Portugal.
2008	Wind Energy	Ecological diagnosis for the potential construction of Montejunto's Wind Farm, Portugal. Portugal.
2008	Roads	Tree mapping at the main road IC17 - CRIL, Portugal. Portugal.
2008	Roads	Ecological Impact Assessment and Environmental Compliance Report of the Highway A32/IC2 expansion - Gaia-Oliveira de Azeméis connection, Portugal. Portugal.
2008	Roads	Ecological section of the Preliminary Environmental Compliance Report for the conception, construction and operation of the Baixo Tejo Highway Sublease, Portugal. Portugal.
2008	Education & Awareness	Environmental Education Activity at Mata da Machada, in Barreiro, Portugal (2005, 2006, 2007 and 2008). Portugal.
2008	Wind Energy	Bird and bat monitoring at Cabeço da Rainha II Wind Farm, Portugal (pre-construction phase, construction and operation phases). Portugal.
2008	Wind Energy	Bird and flora monitoring at São Bento wind farm, Portugal (pre-construction phase). Portugal.
2008	Wind Energy	Baseline ecological study at São Bento wind farm, Portugal (pre-construction phase). Portugal.
2008	Training	Course on Introduction to the Geographic Information Systems, SPEA, Lisbon, Portugal (2007 and 2006). Portugal.
2008	Wind Energy	Bird monitoring at Bravo and Mogueiras Wind Farms, Portugal (construction and operation phases). Portugal.
2008	Wind Energy	Bird, including Montagu's Harrier, and flora monitoring at Caramulo's Wind Farm, Portugal (pre-construction, construction and operation phases). Portugal.
2008	Agriculture	Ecological Impact Assessment of Redonda's Dam, Portugal. Portugal.
2008	Wind Energy	Baseline ecological study of Baixo Alentejo Wind farm, Portugal. Portugal.
2008	Wind Energy	Birds and bats monitoring at Mértola and Santa Cruz wind farms, Portugal (pre-construction phase). Portugal.
2008	Wind Energy	Ecological section of the environmental conformity report for the Mértola wind farm, Portugal. Portugal.
2008	Wind Energy	Ecological section of the environmental conformity report for the Santa Cruz wind farm, Portugal. Portugal.
2008	Wind Energy	Bird and bat monitoring at Montalegre and Facho-Colmeia Wind Farms, Portugal (pre-construction, construction and operation phases). Portugal.
2008	Electric sector	Ecological Impact Assessment of the the very high tension power line (400 kV) between Fernão Ferro - Palmela and the expansion of Fernão Ferro's substation, Portugal. Portugal.
2008	Roads	Ecological section of the Preliminary Environmental Compliance Report for the conception, construction and operation of the Litoral Oeste Highway Sublease, Portugal. Portugal.

2008	Roads	Ecological section of the Preliminary Environmental Compliance Report for the conception, construction and operation of the Centre Highway Sublease, Portugal. Portugal.
2008	Tourism	Ecological Impact Assessment of a touristic development in Vale do Alecrim, Portugal. Portugal.
2008	Transports	Ecological section of the Preliminary Environmental Compliance Report of the high-speed train (TGV), between Poceirão and Caia, Portugal. Portugal.
2008	Wind Energy	Bird and bat monitoring at Carreço-Outeiro II Wind Farm, Portugal (pre-construction, construction and operation phases). Portugal.
2008	Tourism	Ecological advisory on the viability of Herdade do Pontal touristic development to be located at Ria Formosa Natural Park, Portugal. Portugal.
2008	Roads	Fauna and flora monitoring of the A4 Highway between Amarante and Vila Real, Portugal (pre-construction phase). Portugal.
2008	Maritime	Ecological Impact Assessment of the Aveiro Port's pier extension, Portugal. Portugal.
2008	Transports	Ecological Impact Assessment of Oporto's underground expansion to Gondomar, Portugal. Portugal.
2008	Roads	Ecological Impact Assessment of the alternative road to Trofa, Portugal. Portugal.
2008	Roads	Ecological Impact Assessment of the main roads IC6, IC7 and IC37, Portugal. Portugal.
2008	Oil & Gas	Flora and vegetation monitoring at the Carrigo-Leirosa-Lares gas pipeline, Portugal (construction phase). Portugal.
2008	Wind Energy	Ecological Impact Assessment of a Wind Farm to be built in Tavira, Portugal. Portugal.
2008	Industry	Ecological Impact Assessment of an Aeronautic Industrial Development Project in Évora, Portugal. Portugal.
2008	Electric sector	Ecological Impact Assessment of the Mogadouro substation, Portugal. Portugal.
2008	Tourism	Ecological valuing project for the touristic development of Quinta de Santo António, Portugal. Portugal.
2008	Roads	Ecological section of the Preliminary Environmental Compliance Report for the conception, construction and operation of the Algarve Litoral Highway Sublease, Portugal. Portugal.
2008	Other	Ecological Impact Assessment for the stabilization of the Mondego River between the dam-bridge and the Portela Bridge, Portugal. Portugal.
2007	Nature Conservation	Development and management of the WebGIS platform Biodiversity Database for Portugal. Portugal.
2007	Nature Conservation	Development and maintenance of the mapserver for the TRANSMAP project "Transboundary networks of marine protected areas for integrated conservation and sustainable development: biophysical, socio-economic and governance assessment in East Africa" (http://). Portugal.
2007	Land Management	Ecological advisory on the public discussion related to Ria Formosa Natural Park's Land Planning Project, Portugal. Portugal.
2007	Roads	Cabrera's vole (<i>Microtus cabreræ</i>) survey at the construction area of the national roads EN218 and EN221, Portugal. Portugal.
2007	Urban	Ecological Impact Assessment of the the Portalegre Shopping Centre, Portugal. Portugal.
2007	Training	Course on Introduction to the Geographic Information Systems (LPN, Lisbon, Portugal). Portugal.
2007	Wind Energy	Bird and flora monitoring at Lousã II wind farm, Portugal (pre-construction, construction and operation phases). Portugal.
2007	Wind Energy	Bird (pre-construction, construction and operation phases) and flora (construction and operation phases) monitoring at São Macário Wind Farm, Portugal. Portugal.
2007	Land Management	Design of the Land Management Plan of the Hunting Area of Moita and Vila Nova de Monsarros, Portugal (Proc. nº 928 DGRF): procedure for a license renewal. Portugal.
2007	Wind Energy	Ecological Impact Assessment of Mosqueiros II Wind Farm, Portugal. Portugal.
2007	Wind Energy	Ecological Impact Assessment of Colmeia's Wind Farm, Portugal. Portugal.
2007	Wind Energy	Ecological Impact Assessment of Montalegre's Wind Farm, Portugal. Portugal.
2007	Electric sector	Ecological Impact Assessment of the power line between Armamar and Recarei, Portugal. Portugal.
2007	Hydric Energy	Ichthyofauna and pyrenean desman monitoring at the Rebordelo-Bouçoais Dam (Small Hydro), Portugal. Portugal.
2007	Hydric Energy	Ichthyofauna monitoring at Janeiro de Baixo Dam (Small Hydro), Portugal. Portugal.
2007	Wind Energy	Implementation of the mitigation plan for the environmental impact assessment of Sabugal wind farm and its power line – project for the construction of a scavenger birds feeder in Nave de Haver, Sabugal, Portugal. Portugal.
2007	Wind Energy	Ecological Impact Assessment of Malhanito Wind Farm, Portugal. Portugal.
2007	Wind Energy	Ecological Impact Assessment of Mezas, Fóios and Monte Vermelho Wind Farms, Portugal. Portugal.
2007	Wind Energy	Ecological Preliminary Assessment for the construction of Monte da Cumeada Wind Farm, Portugal. Portugal.
2007	Hydric Energy	Ichthyofauna, macroinvertebrates, pyrenean desman, herpetofauna, bird and flora monitoring at Ferradosa, Olgas, Pretarouca and Sambade Dams, Portugal (construction and operation phases). Portugal.
2007	Agriculture	Ecological Impact Assessment of the water channel between Pisão and Beja inserted in the Alqueva

		Irrigation System (EFMA, Portugal). Portugal.
2007	Transports	Terrestrial vertebrates monitoring at REFER's railway between Santo Tirso and Guimarães and between Cete and Caíde, Portugal. Portugal.
2007	Education & Awareness	"Live Science Programme – Biology in the Summer Workshop" in partnership with the Environmental Biology Centre of the Faculty of Sciences of the University of Lisbon (Portugal): cork production and its beneficial effect in the fight against climate change. Portugal.
2007	Agriculture	Ecological section of the Environmental Compliance Report of the water channel Pisão-Roxo inserted in the Alqueva Irrigation System (EFMA, Portugal). Portugal.
2007	Electric sector	Design and implementation of the mitigation plan for the Environmental Impact Assessment of the Mogadouro-Valeira power line and the Olmos (Macedo de Cavaleiros, Portugal) substation, at 220 kV. Portugal.
2007	Electric sector	Ecological Impact Assessment of the power line between Vila Nova and Riba-d'Ave, Portugal. Portugal.
2007	Land Management	Ecological section of the Land Management Plan of the Ermal's dam reservoir, Portugal. Portugal.
2007	Electric sector	Ecological Impact Assessment of ENEOP2's power line between Armamar and Valeira, 220kV, Portugal. Portugal.
2007	Tourism	Ecological Impact Assessment of a touristic development in Vila Formosa, Odemira, Portugal. Portugal.
2007	Industry	Ecological Impact Assessment of a tissue paper Industrial Unit to be built in Chamusca, Portugal. Portugal.
2007	Wind Energy	Bird and bat monitoring at Guarda II Wind Farm, Portugal (pre-construction and operation phase). Portugal.
2007	Wind Energy	Bird, bat, flora and vegetation monitoring at Alto Minho Wind Farm, Portugal (Picos, Alto do Corisco and Santo António sub-farms) (pre-construction and operation phases). Portugal.
2007	Maritime/ Ports	Ecological Impact Assessment of the third bridge over the Tagus River and the bridge connecting Seixal to Barreiro, Portugal. Portugal.
2007	Roads	Ecological Impact Assessment of the alternative national road section of EENN 302-303 between Vila Nova de Cerdeira and Paredes de Coura, Portugal. Portugal.
2007	Water treatment	Ecological Impact Assessment of a water treatment plant in Vale do Ave, Portugal. Portugal.
2007	Roads	Ecological section of the Preliminary Environmental Compliance Report study for the conception, construction and operation of the A4 Highway, between Amarante and Vila Real, Portugal. Portugal.
2007	Hydric Energy	Ecological section of the Preliminary Environmental Compliance Report for the construction of Baixo Sabor Dam, Portugal (hydroelectric power station). Portugal.
2007	Wind Energy	Bird monitoring at Mastro's Wind Farm, Portugal (operation phase). Portugal.
2007	Agriculture	Wintering bird monitoring in the Alqueva-Pedrogão area in 2007-2008 inserted in the Alqueva Irrigation System (EFMA, Portugal). Portugal.
2007	Agriculture	Design of the Mediterranean Temporary Lagoons Conservation Plan for the Alqueva Irrigation System (EFMA, Portugal). Portugal.
2006	Hydric Energy	Ecological Impact Assessment of the Janeiro de Baixo Dam, Portugal (hydroelectric power station). Portugal.
2006	Agriculture	Ecological Impact Assessment of the Sorraia River Dam, Portugal. Portugal.
2006	Agriculture	Ecological Impact Assessment of the Ferreira-Valbom irrigation areas inserted in the Alqueva Irrigation System (EFMA, Portugal). Portugal.
2006	Roads	Vegetation assessment in IC17 - CRIL highway. Portugal.
2006	Agriculture	Ecological Impact Assessment and Environmental Compliance report relative to the Execution Plan of Balsemão River's Dam, Portugal. Portugal.
2006	Urban	Ecological Impact Assessment of Algoz's Industrial Area, Portugal. Portugal.
2006	Wind Energy	Bird, flora and vegetation monitoring at Moradal/Proença Wind Farm, Portugal (pre-construction, construction and operation phases). Portugal.
2006	Industry	Ecological Impact Assessment of Gavião's Industrial Area, Portugal. Portugal.
2006	Agriculture	Ecological Impact Assessment of the Alfundão irrigation area inserted in the Alqueva Irrigation System (EFMA, Portugal). Portugal.
2006	Tourism	Mapping of the tree cover at Chão do Golfe, Golf Academy, Portugal. Portugal.
2006	Wind Energy	Ecological diagnosis for the potential construction of four wind farms in northern and centre Portugal. Portugal.
2006	Industry	Ecological Impact Assessment of Portalegre's Industrial Park, Portugal. Portugal.
2006	Wind Energy	Ecological Impact Assessment of Chão Falcão III Wind Farm, Portugal. Portugal.
2006	Wind Energy	Bird, bat and wolf monitoring at Sabugal Wind Farm, Portugal (pre-construction phase). Portugal.
2006	Transports	Terrestrial vertebrates Monitoring at REFER's Minho railway, Portugal (operation phase). Portugal.
2006	Transports	Terrestrial vertebrates monitoring at REFER's southern railway between Pragal/Pinhal Novo and km 94/Funcheira, Portugal (operation phase). Portugal.
2006	Education &	Environmental Awareness Program under the Live Science - Biology in the summer, in partnership with

Awareness	the Centre for Environmental Biology, Faculty of Sciences, University of Lisbon, Portugal. Portugal.
2006 Wind Energy	Bird monitoring at Perdigão Wind Farm, Portugal (pre-construction, construction and operation phases). Portugal.
2006 Tourism	Ecological Impact Assessment of Ponta do Pargo's Golf Course, Madeira, Portugal. Portugal.
2006 Transports	Ecological Impact Assessment of the expansion of Lisbon's (Portugal) underground red line between S. Sebastião and Campolide and yellow line between Rato and Estrela. Portugal.
2006 Maritime/ Ports	Ecological Impact Assessment of the Terreiro do Paço Transportation Terminal, Portugal. Portugal.
2006 Tourism	Ecological Impact Assessment of Sintra's Golf & Country Club, Portugal. Portugal.
2006 Wind Energy	Bird monitoring at Zibreiro Wind Farm, Portugal (pre-construction phase). Portugal.
2006 Maritime/ Ports	Ecological Impact Assessment of Lisbon's new container Port Terminal, Portugal. Portugal.
2006 Electric sector	Ecological Impact Assessment of Armamar's substation and deviation of its associated power lines, Portugal. Portugal.
2006 Agriculture	Design of the steppe bird monitoring programme to be included in the Environmental Impact Assessment of the Alvito-Pisão irrigation areas inserted in the Alqueva Irrigation System (EFMA, Portugal). Portugal.
2006 Wind Energy	Ecological Impact Assessment of Lomba do Vale Wind Farm, Portugal. Portugal.
2006 Wind Energy	Flora monitoring at Gardunha Wind Farm's power line, Portugal (pre-construction phase). Portugal.
2005 Tourism	Ecological Impact Assessment of the touristic development in Cal Island, Porto Santo, Madeira, Portugal. Portugal.
2005 Transports	Ecological Impact Assessment for the high-speed train (TGV), sector 3C between Évora, Portugal, and the national border). Portugal.
2005 Roads	Ecological Impact Assessment of the national road EN221 and the alternative road to Escalhão, Portugal. Portugal.
2005 Water treatment	Ecological Impact Assessment of Barreiro's water treatment plant, Portugal. Portugal.
2005 Hydric Energy	Design of the Biodiversity Monitoring Programme for the Ferradosa Dam, Portugal. Portugal.
2005 Wind Energy	Baseline Ecological Assessment for the potential construction of Vale Grande Wind Farm, Portugal. Portugal.
2005 Electric sector	Ecological Impact Assessment of the Alqueva substation (EFMA, Portugal). Portugal.
2005 Wind Energy	Ecological clerk of works during the construction of Alto Minho I Wind Farm's power lines, Portugal. Portugal.
2005 Nature Conservation	Flora inventory at Óbidos' lagoon (Portugal) – Assessment to be included in the proposal for it's classification as a regional protected area. Portugal.
2005 Transports	Ecological Impact Assessment of Coimbra's Intermodal Complex, Portugal. Portugal.
2005 Land Management	Ecological section of the environmental incidences study for Setubal's POLIS programme, Portugal. Portugal.
2005 Wind Energy	Ecological section of the environmental incidences study for Felgar wind farm, Portugal. Portugal.
2005 Extraction sector	Ecological section of the management and sand extraction plan for the River Mondego's and Vouga's drainage basins. Portugal.
2005 Agriculture	Fauna and flora specialist studies to be integrated in the Environmental Impact Assessment of the irrigation areas of Alvito-Pisão inserted in the Alqueva Irrigation System (EFMA, Portugal). Portugal.
2005 Tourism	Habitat mapping to be included in the Environmental Impact Assessment of the camping sites located at Arriba Fóssil da Costa da Caparica Protected Area, Portugal. Portugal.
2005 Hydric Energy	Ecological section of the Environmental Compliance Report for the Vales Dam, Portugal. Portugal.
2005 Wind Energy	Habitat mapping to be included in the Environmental Impact Assessment of Serra de Candeeiros II Wind Farm, Portugal. Portugal.
2005 Nature Conservation	Final report of the red-billed chough (Pyrrhocorax pyrrhocorax) monitoring at Serra de Candeeiros' south ridge area, Portugal. Portugal.
2005 Tourism	Advisory on the implementation of the biodiversity monitoring plans associated to the Porto Santo golf course, Madeira, Portugal. Portugal.
2005 Education & Awareness	"Live Science Programme – Biology in the Summer Workshop" in partnership with the Environmental Biology Centre of the Faculty of Sciences of the University of Lisbon (Portugal): water in the Mediterranean ecosystems – the example of the cork woodland at Grândola's mountain. Portugal.
2005 Electric sector	Ecological Impact Assessment of the National Network for Energy Transportation International Douro river, Portugal. Portugal.
2005 Wind Energy	Bird and flora monitoring at Pinhal do Interior Wind Farm, Portugal (pre-construction, construction and operation phases). Portugal.
2005 Wind Energy	Bird monitoring at Monção Wind Farm site (Portugal) and design of the Monitoring Programme to be integrated in the project's Environmental Compliance Report. Portugal.
2005 Roads	Fauna and flora monitoring at A28/IC1 Highway, between Viana do Castelo-Caminha and at A27/IP9 Highway - Ponte de Lima, Portugal (pre-construction phase). Portugal.

- 2005 Agriculture Ecological Impact Assessment and design of the monitoring programmes for Sambade Dam, Portugal. Portugal.
- 2005 Wind Energy Ecological Impact Assessment of the Lousã II Wind Farm, Portugal. Portugal.
- 2005 Wind Energy Baseline Ecological Assessment on Black Vulture (*Aegypius monachus*) at Sabugal Wind Farm site, Portugal (pre-construction phase). Portugal.

Others projects

- 2005 Environmental education Environmental education project "Environmental Awareness Program in the context of the Living Science Program - Summer Biology, in partnership with the Environmental Biology Center of the Sciences Faculty of the University of Lisbon (Portugal): Water in Mediterranean ecosystems - the example of the cork oak forest Grandola". Portugal.
- 2005 Electric Sector Monitoring project "Biological monitoring of the construction of the electric lines of the Alto Minho I Wind Farm I". Portugal.
- 2005 Tourism Monitoring project "Assistance to the implementation of the biological monitoring plans of the Porto Santo Golf Course". Portugal.
- 2005 Wind Energy Monitoring project "Characterization of the avifauna in the Alto do Monção Wind Farm (Portugal) and preparation of the respective monitoring plan to be included in the Environmental Compliance Report of the Implementation Project (RECAPE)". Portugal.
- 2005 Wind Energy EIA project "Habitat cartography for the Environmental Impact Study of the Serra de Candeeiros II Wind Farm". Portugal.
- 2005 Tourism EIA project "Cartography of habitats for the Environmental Impact Study of campsites located in the Protected Landscape of Arriba Fossil of Costa da Caparica". Portugal.
- 2005 Extraction sector Management Plan project "Ecology component of the Management Plan for Inert Extraction of the Vouga and Mondego Basins". Portugal.
- 2005 Wind Energy EIA project "Ecology component of the Environmental Impact Study of the Felgar Wind Farm". Portugal.
- 2005 Wind Energy EIA project "Ecology component of the Environmental Impact Study of the Lousã II Wind Farm". Portugal.
- 2005 Electric Sector EIA project "Ecology component of the Environmental Impact Study of the Modification of the National Transport Network in the Douro International Zone". Portugal.
- 2005 Hydric Energy Environmental Conformity project "Ecology component of the Environmental Compliance Report of the Implementation Project (RECAPE) of the Vales Hydroelectric Plant". Portugal.
- 2005 Hydric Energy EIA project "Ecology component of the Environmental Impact Study of Sambade, Portugal, and elaboration of the monitoring plans". Portugal.
- 2005 Transports EIA project "Ecology component of the Environmental Impact Study of the high-speed rail line (TGV) - Lot 3C". Portugal.
- 2005 Roads EIA project "Ecology component of the Environmental Impact Study of EN221 and Escalhão variant". Portugal.
- 2005 Agriculture EIA project "Ecology component of the Environmental Impact Study of the Alqueva Substation". Portugal.
- 2005 Agriculture EIA project "Ecology component of the reference situation of the Environmental Impact Study of the Alvito-Pisão Irrigation Blocks associated to the Alqueva Multiple Purpose Project". Portugal.
- 2005 Tourism EIA project "Ecology component of the Study of Environmental Impact of the Tourist Resort of Ilhéu da Cal, Porto Santo". Portugal.
- 2005 Urban EIA project "Ecology component of the Environmental Incidents Study of the Setubal POLIS Program ". Portugal.
- 2005 Water treatment EIA project "Ecology component of the Environmental Impact Study of the Barreiro Wastewater Treatment Plant". Portugal.
- 2005 Extraction sector EIA project "Ecology component of the Management Plan for Inert Extraction of the Vouga and Mondego Basins". Portugal.
- 2005 Wind Energy Baseline Assessment project "Ecological Base Study on Black Vulture (*Aegypius monachus*) in the area of the Sabugal Wind Farm (pre-construction phase)". Portugal.
- 2005 Wind Energy Monitoring project "Elaboration of the final report on the monitoring of the red-legged crow (*Pyrrhocorax pyrrhocorax*) in the southern part of the mountain range of Serra dos Candeeiros". Portugal.
- 2005 Hydric Energy Monitoring Plan Design project "Biodiversity monitoring plan elaboration in the Ferradosa Hydroelectric Plant". Portugal.
- 2005 Wind Energy Baseline Assessment project "Ecological Base Study of the Vale Grande Wind Farm". Portugal.
- 2005 Nature Conservation Baseline Assessment project "Flora inventory in Óbidos Lagoon - Study to be included in the proposal to classify the Lagoa as a Regional Protected Landscape Area". Portugal.
- 2005 Wind Energy Monitoring project "Avifauna and flora monitoring in the Pinhal Interior Wind Farm (pre-construction, construction and exploration phase)". Portugal.
- 2005 Environmental education Environmental education project "Guided visits to students of Basic Education - Ecological Strand of the Grândola Mountain Range for the Grândola Municipal Council". Portugal.
- 2005 Transports Baseline Assessment project "Reference situation of the ecology component of the Study of Environmental Incidents of the Coimbra Intermodal Complex". Portugal.

+ Training

2010	EIA	"Framework of the Environmental Impact Assessment (EIA) and Environmental Consulting in Mozambique" Workshop by Portuguese Association of Impact Assessment . 10 Feb, 2010. Lisbon, Portugal.
2009	Leadership	"Executive coaching for leaders" Course by International School of Professional Coaching . 29 Oct a 30 Oct, 2009. Lisbon, Portugal.
2009	Sampling techniques	"Training and Accreditation in the River Habitat Survey (RHS)" Course by Water National Institute . 20 Apr a 23 Apr, 2009. Vila Real, Portugal.
2009	Sampling technologies	"Merlin Avian Radar System Training Class for Wind Energy & Environmental Projects" Course by Detect Inc . 2 Feb a 5 Feb, 2009. Florida, USA.
2008	Sampling techniques	"Dog training for birds and bats corpses search and detection" Course by Cinotech Technical Group of the Public Security Police Special Unit . 1 - 1 Apr, 2008. , Portugal.
2008	Finance	"Finance for managers and non-financiers" Course by Higher Institute of Economics and Business . 11 - 5 Feb, 2008. Lisbon, Portugal.
2007	Project Management	"Project Management for Executives " Course by Higher Institute of Business . 29 - 21 Jan, 2007. Lisbon, Portugal.
2004	EIA	"Development and implementation of bioindicators in impact assessment and biodiversity monitoring schemes" Course by Zoology Department of Coimbra University . 20 Sep a 30 Sep, 2004. Coimbra, Portugal.
2004	Environment Law	"Initiation to the Environment Legal Order " Course by Liga para a Protecção da Natureza . 26 Jan a 31 Jan, 2004. Lisbon, Portugal.
2003	Flora ID	"Flora and Mediterranean vegetation" Course by Sciences Faculty of University of Lisbon - Plant Biology Department . 25 Apr a 30 Apr, 2003. Lisbon, Portugal.

+ Publications

2018	Book Chapter Wind Energy Impacts	Santos, J., Marques, J., Neves, T., Marques, A.T., Ramalho, R., Mascarenhas, M. (2018). Environmental Impact Assessment Methods: An Overview of the Process for Wind Farm's Different Phases – From Pre-Construction to Operation. In: Mascarenhas, M., Marques, A.T., Ramalho, R., Santos, D., Bernardino, J., Fonseca, C. (Eds). Biodiversity and Wind Farms in Portugal: Current Knowledge and Insights for an Integrated Impact Assessment Process, pp. 35-86. Springer International Publishing.
2018	Book Chapter Wind Energy Impacts	Rodrigues, S. , Rosa, L., Mascarenhas, M. (2018). An Overview on Methods to Assess Bird and Bat Collision Risk in Wind Farms. In: Mascarenhas, M., Marques, A.T., Ramalho, R., Santos, D., Bernardino, J., Fonseca, C. (Eds). Biodiversity and Wind Farms in Portugal, pp. 87-110. Springer International Publishing.
2018	Book Chapter Wind Energy Impacts	Marques, J., Rodrigues, S., Ferreira, R., Mascarenhas, M. (2018). Wind Industry in Portugal and Its Impacts on Wildlife: Special Focus on Spatial and Temporal Distribution on Bird and Bat Fatalities. In: Mascarenhas, M., Marques, A.T., Ramalho, R., Santos, D., Bernardino, J., Fonseca, C. (Eds). Biodiversity and Wind Farms in Portugal, pp. 1-22. Springer International Publishing.
2018	Book Chapter Wind Energy Impacts	Paula, J., Augusto, M., Neves, T., Bispo, R., Cardoso, P., Mascarenhas, M. (2018). Comparing Field Methods Used to Determine Bird and Bat Fatalities. In: Mascarenhas, M., Marques, A.T., Ramalho, R., Santos, D., Bernardino, J., Fonseca, C. (Eds). Biodiversity and Wind Farms in Portugal. Springer International Publishing.
2018	Book chapter Wind Energy Impacts	Coelho, H., Mesquita, S., Mascarenhas, M. (2018). How to Design an Adaptive Management Approach? In: Biodiversity and Wind Farms in Portugal - Current knowledge and insights for an integrated impact assessment process. Editors: Mascarenhas, M., Marques, A.T., Ramalho, R., Santos, D., Bernardino, J., Fonseca, C. (Eds.). Chapter 8 - Pages 205-224. Springer Book.
2017	Oral Presentation Statistics & Ecology	Cláudio, N., Rodrigues, S., Mascarenhas, M., Mouriño, H., Marques, T.A. (2017). Classificação automática de sons de morcegos [Automatic identification of bat sounds]. Congresso da Sociedade Portuguesa de Estatística. 18 to 21 de October 2017. Lisbon, Portugal.[in Portuguese]
2017	Oral presentation Wind Energy Impacts	Coelho, H., McLean, N., Mascarenhas, M., Pendlebury, C. (2017). Experiences gained from delivery of offshore wind energy in the UK that could inform the environmental assessment of Portuguese projects. 4th Conference on Wind energy and Wildlife impacts (CWW). 6 to 8 September 2017. Estoril, Portugal.
2017	Poster Wind energy Environ. Assessment	Mascarenhas, M., Coelho, H., Sá da Costa, A. (2017). Wind farms aren't the same concept to all of us? So what are they? 4th Conference on Wind energy and Wildlife impacts (CWW). 6 to 8 september 2017. Estoril, Portugal.
2017	Poster Wind energy Environ. Assessment	Tidhar, D., Mascarenhas, M., Coelho, H., McLean, N. (2017). How to reduce uncertainty using a question based approach for universal wind energy assessment. 4th Conference on Wind energy and Wildlife impacts (CWW). 6 to 8 september 2017. Estoril, Portugal.
2017	Poster Wind Energy Impacts	Mesquita, S., Coelho, H., Mascarenhas, M. (2017). Adding value to wind farm projects by integrating ecosystem services in the environmental impact assessment process. 4th Conference on Wind energy and Wildlife impacts (CWW). 6 to 8 september 2017. Estoril, Portugal.
2017	Poster Wind	Mesquita, S., Coelho, H., Mascarenhas, M. (2017). Call for action: Adaptive management in practice. 4th

energy Environ. Assessment Conference on Wind energy and Wildlife impacts (CWW). 6 to 8 september 2017. Estoril, Portugal.

2017 Oral Presentation | Wind Energy Impacts Marques, J., Rodrigues, S., Mascarenhas, M. (2018). Is Bird Fatality driven by environmental features? A spatial model for Portugal. 4th Conference on Wind energy and Wildlife impacts (CWW). 6 to 8 september 2017. Estoril, Portugal.

2017 Poster | Ecology Rodrigues, S., Marques, J., Coelho, H., Mascarenhas, M. (2017). Bat nightly and seasonal activity patterns at height: A cross country comparison and insights into conservation. 4th Conference on Wind energy and Wildlife impacts (CWW). 6 to 8 september 2017. Estoril, Portugal.

2017 Poster | Wind Energy Impacts Marques, J., Rodrigues, S., Mascarenhas, M. (2017). Bird behavioural response to the surrounding environment: a specific approach to wind farm location and placement. 4th Conference on Wind energy and Wildlife impacts (CWW 2017). 6 to 8 september 2017. Estoril, Portugal.

2017 Oral presentation | Wind Energy Impacts Santos, J., Rosa, L., Mascarenhas, M. (2017). Mitigation strategies & effectiveness - the Candeeiros wind farm monitoring and mitigation program case study. 4th Conference on Wind energy and Wildlife impacts (CWW 2017). 6 to 8 september 2017. Estoril, Portugal.

2017 Poster | Ecology Santos, J., Ferreira, A.C., Mascarenhas, M., Reis, C. (2017). Local stakeholders' involvement on offset/compensation projects: What is their role and how they matter for sustainability? 4th Conference on Wind energy and Wildlife impacts (CWW 2017). 6 to 8 september 2017. Estoril, Portugal.

2017 Oral presentation | Wind Energy Impacts Rosa, L., Paula, J., Mascarenhas, M. (2017). Camera-trapping as a methodology in the assessment of carcass persistence, used in bird and bat fatality estimates at wind farms.

2016 Oral Presentation | Wind Energy Impacts Mesquita, S., Marques, J., Rodrigues, S., Cordeiro, A., Mascarenhas, M., Ramalho, R., Costa, C., Ferreira, M. (2016). Mitigação de impactes dos parques eólicos em quirópteros minimizando perdas de produção: dois casos de estudo de adequação da velocidade de arranque das turbinas [Mitigation of wind farm impacts in bats and production loss minimization: two study cases of optimization of turbine cut-in speed]. 6ª Conferência Nacional de Avaliação de Impactes (CNAI). University of Évora, 19 to 21 May 2016. Évora, Portugal. [in Portuguese]

2016 Paper | Bat Conservation Pereira, M.J.R., Peste, F., Paula, A., Pereira, P., Bernardino, J., Vieira, J., Bastos, C., Mascarenhas, M., Costa, H., Fonseca, C. (2016). Managing coniferous production forests towards bat conservation. *Wildlife Research* 43(1):80-92. <http://dx.doi.org/10.1071/WR14256>

2015 Oral Presentation | Wind Energy Impacts Marques, A.T., Batalha, H., Rodrigues, S., Costa, H., Pereira, M.J., Fonseca, C., Mascarenhas, M., Bernardino, J. 2014. Understanding Bird Collisions at Wind Farms: An Updated Review on the Causes and Possible Mitigation Strategies. *International Synopsis on Wind Energy and Wildlife*. 10 Nov 2015, Berlin.

2015 Paper | Sampling methodologies Paula, J., Bispo, J.S., Regina, M.B., Leite, A.H., Pereira, P., Costa, H., Fonseca, C., Mascarenhas, M., Bernardino, J. (2015) Camera-trapping as a methodology to assess the persistence of wildlife carcasses resulting from collisions with human-made structures. *Wildlife Research* 41(8):717-725.

2015 Paper | Wind Energy Impacts Peste, F., Paula, A., da Silva, L.P., Bernardino, J., Pereira, P., Mascarenhas, M., Costa, H., Vieira, J., Bastos, C., Fonseca, C., Ramos Pereira, M.J. (2015). How to mitigate impacts of wind farms on bats? A review of potential conservation measures in the European context. *Environmental Impact Assessment Review* 51:10-22.

2015 Oral presentation | Mitigation Mascarenhas, M. (2015). Wind & Biodiversity Project: fostering synergies to understand and mitigate wind energy impacts. *Wind & Biodiversity Seminar*. 15th January, 2015. Aveiro, Portugal.

2015 Book | Wind Energy Impacts Mascarenhas, M., Bernardino, J., Paula, A., Costa, H., Bastos, C., Cordeiro, A., Marques, A., Marques, J., Mesquita, S., Paula, J., Pereira, M., Peste, F., Ramalho, R., Rodrigues, S., Santos, J., Veira, J., Fonseca, C. 2015. *Biodiversity & Wind Energy: A Bird's and Bat's Perspective*. ed. Aveiro, Portugal: Bio3 e Universidade de Aveiro, 2015, p. 30-52.

2015 Poster | Wind Energy Impacts Marques, A.T. , Batalha, H., Rodrigues, S., Costa, H., Ramos Pereira, M.J., Fonseca, C., Mascarenhas, M., Bernardino, J. (2015). Unraveling the causes of bird mortality with wind turbines: what do we know so far? *Wind energy and Wildlife impacts. CWW 2015*. 10 to 12 March, 2015. Berlin, Germany. [Best poster award]

2015 Oral presentation | Wind Energy Impacts Bispo, R., Bernardino, J., Paula, J., Marques, T., Costa, H., Mascarenhas, M. (2015). Enhancing the study design of carcass removal trials for bats and birds at wind farms. *Wind energy and Wildlife impacts. 10th to 12th March 2015*. Berlin, Germany.

2014 Proceedings | Wind Energy Correia, R., Vieira, J., Faneca, C., Albuquerque, D., Bastos, C., Costa, H. Bernardino, J., Mascarenhas, M., Pereira, M.J., Fonseca, C., Inácio, O. (2014). Characterization of the ultrasonic acoustic field of a wind turbine. In *Proceedings of TecniAcoistica 2014. Conferencias y Comunicaciones del 45º Congreso Español de Acústica, 8º Congreso Ibérico de Acústica y Simposio Europeo de Ciudades Inteligentes y Acústica Ambiental*. 29 to 31 October 2014. Murcia, Spain.

2014 Oral presentation | Wind Energy Impacts Bernardino, J., Bispo, R., Paula, J., Costa, H., Mascarenhas, M. (2014). Os desafios da estimação da mortalidade de aves e morcegos em parques eólicos: avanços recentes e novas diretrizes [The challenges of estimating the mortality of birds and bats in wind farms: recent advances and new directions]. 5º Congresso Nacional de Avaliação de Impacte (CNAI). 20 and 21 March 2014. Viseu, Portugal.[in Portuguese]

2014 Paper | Wind Energy Impacts Marques, A. T., Batalha, H., Rodrigues, S., Costa, H., Pereira, M. J. R., Fonseca, C., Mascarenhas, M., Bernardino, J. 2014. Understanding bird collisions at wind farms: An updated review on the causes and possible mitigation strategies. *Biological Conservation*, 40-52.

2014 Minutes book | Wind Energy Bernardino, J., Bispo, R., Paula, J., Costa, H., Mascarenhas, M. (2014). The challenges of estimating the mortality of birds and bats in wind farms: recent advances and new directions. *Minutes book of the 5th*

	Impacts	National Congress of Impact Assessment. 20 and 21 March 2014. Viseu, Portugal. ISBN: 978-989-96971-1-9.
2014	Minutes book Wind Energy Impacts	Bernardino, J., Paula, A., Marques, A. T., Peste, F., Pereira, M.J., Fonseca, C., Mascarenhas, M., Costa, H. (2014). Strategies and technologies to minimize the impacts of wind farms on birds and bats: what's the true cost/benefit? Minutes book of the 5th National Congress of Impact Assessment. 20 and 21 March 2014. Viseu, Portugal. ISBN: 978-989-96971-1-9.
2014	Oral presentation Wind energy	Correia, R., Vieira, J., Faneca, C., Albuquerque, D., Bastos, C., Costa, H. Bernardino, J., Mascarenhas, M., Pereira, M.J., Fonseca, C., Inácio, O. (2014). Characterization of the ultrasonic acoustic field of a wind turbine. TecniAcoustica 2014. 29th to 31st October, 2014. Múrcia, Spain.
2014	Oral presentation Wind Energy Impacts	Bernardino, J., Bispo, R., Paula, J., Costa, H., Mascarenhas, M. (2014). Os desafios da estimação da mortalidade de aves e morcegos em parques eólicos: avanços recentes e novas diretrizes [The challenges of estimating mortality of birds and bats at wind farms: recent advances and new guidelines]. 5th National Congress of Impact Assessment. 20th to 21st March 2014. Viseu, Portugal. [in Portuguese]
2014	Oral presentation Wind Energy Impacts	Bernardino, J., Paula, A., Marques, A. T., Peste, F., Pereira, M.J., Fonseca, C., Mascarenhas, M., Costa, H. (2014). Estratégias e tecnologias de minimização de impactes dos parques eólicos nas aves e morcegos: qual a verdadeira relação de custo/benefício? [Wind Farm Impact minimization strategies and technologies for birds and bats: what is the true cost/benefit?]. 5th edition of Congresso Nacional de Avaliação de Impacte CNAI. 20th to 21st March, 2014. Viseu, Portugal. [in Portuguese]
2014	Oral presentation Agriculture	Marques, A.T., Rosa, I., Palminha, G., Paixão, R., Bernardino, J., Costa, H., Mascarenhas, M. (2014). Caracterização da atividade da avifauna associada à sementeira do arroz, através de um sistema de radar [Characterization of birds associated with rice seed activity, through a radar system]. VIII Congresso de Ornitologia da SPEA. 1st to the 4th of March 2014. Almada, Portugal. [in Portuguese]
2013	Paper Statistical analysis	Bernardino, J., Bispo, R., Costa, H., Mascarenhas, M. (2013). Estimating bird and bat fatality at wind farms: a practical overview of estimators, their assumptions and limitations. New Zealand Journal of Zoology, 40, 1: 63-74.
2013	Paper Statistical analysis	Bernardino, J., Bispo, R., Costa, H., Mascarenhas, M. (2013). Estimating bird and bat fatality at wind farms: a practical overview of estimators, their assumptions and limitations. New Zealand Journal of Zoology, 40, 1: 63-74.
2013	Proceedings Wind Energy Monitoring	Correia, R., Faneca, C., Vieira, J.M.N., Bastos, C., Mascarenhas, M., Costa, H., Bernardino, J., Fonseca, C., Pereira, M.J.R. (2013). Bat Monitoring System for Wind Farms. Proceedings of the 12th Conference on Programmable Devices and Embedded Systems. 25 to 27 September 2013. Velke Karlovice, Czech Republic.
2013	Oral presentation Wind Energy Impacts	Bernardino, J., Mascarenhas, M., Jodas, K., Thomas, J., Costa, H. (2013). Mitigating and monitoring impacts of wind energy facilities on birds and bats: lessons learnt from the European experience. WINDaba 2013. 25th to 27th September 2013. Cape Town, South Africa.
2013	Oral presentation Wind Energy Monitoring	Correia, R., Faneca, C., Vieira, J.M.N., Bastos, C., Mascarenhas, M., Costa, H., Bernardino, J., Fonseca, C., Pereira, M.J.R. (2013). Bat Monitoring System for Wind Farms. 12th Conference on programmable devices and embedded systems. 25th to 27th September 2013. Velke Karlovice, Czech Republic.
2013	Oral presentation Wind Energy Impacts	Passos, I., Silva, M.J., Mesquita, S., Marques, A.T., Bernardino, J., Costa, H., Mascarenhas, M. (2013). Aliens in wind farms - preventing and monitoring impacts on vegetation. Conference on Wind power and Environmental impacts. 5th to the 7th February 2013. Stockholm, Sweden.
2013	Oral presentation Mitigation & Compensation	Peste, F., Paula, A., Bernardino, J., Costa, H., Mascarenhas, M., Fonseca, C., Pereira, M.J. (2013). Off-site mitigation and compensation measures for bats at wind farms. Conference on Wind power and Environmental impacts. 5th to the 7th February 2013. Stockholm, Sweden.
2013	Oral presentation Mitigation	Cordeiro, A., Mascarenhas, M., Costa, H. (2013). Long term survey of wind farms impacts on common kestrel's populations and definition of an appropriate mitigation plan. Conference on Wind power and Environmental impacts. 5th to the 7th February 2013. Stockholm, Sweden.
2012	Poster Marine renewables impacts	Coelho, H., Ferreira, R., Rodrigues, S., De Silva, R., Pendlebury, C., Walls, R., Mascarenhas, M., Costa, H. (2012). Guidelines for offshore renewables in the Portuguese Pilot Zone based on a pre-construction assessment. NWCC Wind Wildlife Research Meeting IX. 27 to 30 Nov 2012. Denver, Colorado, EUA.
2012	Poster Marine renewables impacts	Coelho, H., De Silva, R., Ferreira, R., Rodrigues, S., Pendlebury, C., Walls, R., Mascarenhas, M., Costa, H. (2012). Portuguese offshore renewables Pilot Zone – producing environmental guidelines for development. 4th International Conference on Ocean Energy. 17th to 19th October, 2012. Dublin, Ireland.
2012	Oral presentation Ecology and Conservation	Ferreira, R., Marques, A.T., Zina, H., Santos, J., Silva, M.J., Mascarenhas, M., Costa, H. (2012). Monitorização da Comunidade de Aves Estepárias na ITI de Castro Verde [Steppe bird surveying at Castro Verde]. Seminar "Conservação das Estepes Cereálíferas". 7th and 8th November 2012. Castro Verde, Portugal.
2012	Oral presentation Monitoring techniques	Faneca, C., Correia, R., Vieira, J., Bastos, C., Fonseca, C., Pereira, M.J., Mascarenhas, M., Costa, H., Bernardino, J. (2012). 3D reconstruction of bat trajectories from stereo vision. 18th Portuguese Conference on Pattern Recognition. 26 October 2012. Coimbra, Portugal.
2012	Proceedings Marine renewables impacts	Coelho, H., Ferreira, R.; Rodrigues, S., De Silva, R., Pendlebury, C., Walls, R., Mascarenhas, M., Mesquita, S., Costa, H. (2012). First specific biodiversity assessment in the Portuguese Pilot Zone (PPZ). In Proceedings of the 32nd Annual Meeting of International Association for Impact Assessment (IAIA).
2012	Oral Presentation Marine	Coelho, H., Ferreira, R., Rodrigues, S., De Silva, R., Pendlebury, C., Walls, R., Mascarenhas, M., Costa, H. (2012). First specific biodiversity assessment in the Portuguese Pilot Zone (PPZ). 32nd Annual Conference

	renewables impacts	of the International Association for Impact Assessment (IAIA). Congress Center of Alfândega do Porto, Porto, 27th May to 1st June 2012.
2012	Oral presentation Compensation & Mitigation	Santos, J., Marques, A. T., Paula, A., Bernardino, J., Mascarenhas, M., Costa, H. (2012). Compensation and off-site mitigation strategies for endangered Bonelli's Eagle populations in Wind Farms. VIIth Polish Wind Energy Association (PWEA) Conference & Exhibition. 22nd to the 23rd May 2012. Warsaw, Poland.
2012	Oral presentation Mitigation	Santos, J., Marques, A.T., Paula, A., Costa, H., Mascarenhas, M. (2012). Reconciling wind farms with Bonelli's eagle populations using off-site mitigation techniques. 1st Iberian Congress on Wind Energy and Wildlife Conservation. 12th to the 14th January 2012. Jerez de la Frontera, Cadiz, Spain.
2012	Oral presentation Wind Energy monitoring	Paula, J., Leal, M., Silva, M.J., Mascarenhas, R., Costa, H., Mascarenhas, M. (2012). A new weapon to find birds and bats carcasses in wind farms. 1st Iberian Congress on Wind Energy and Wildlife Conservation. 12th to the 14th January 2012. Jerez de la Frontera, Cadiz, Spain.
2012	Oral presentation Biology	Ferreira, R., Marques, A.T., Zina, H., Santos, J., Silva, M.J., Mascarenhas, M., Costa, H. (2012). Monitoring the Steppe Bird Community at ITI Castro Verde. In Book of Abstracts from the Seminar "Conservação das Estepes Cerealíferas". 7th and 8th November 2012. Castro Verde, Portugal.
2012	Oral presentation Ecology	Santos, J.; Marques, A. T.; Paula, A.; Bernardino, J.; Mascarenhas, M., Costa, H. (2012). Compensation and off-site mitigation strategies for endangered Bonelli's Eagle populations in Wind Farms. VIIth Polish Wind Energy Association (PWEA) Conference & Exhibition. 22 to 23 May 2012. Warsaw, Poland.
2012	Oral presentation Ecology	Santos, J., Marques, A. T., Paula, A., Costa, H., Mascarenhas, M. (2012). Compensatory measures: the compatibility between wind farms and the conservation of the Bonelli's eagle. I Congreso Ibérico de Energía Eólica y Conservación de la Fauna. 12 to 14 January 2012. Jerez de la Frontera, Spain.
2012	Poster Ecology	Santos, J., Marques, A.T., Paula, A., Mascarenhas, M., Costa, H. (2012). Implementation of compensation and offset measures for large birds of prey. NWCC Wind Wildlife Research Meeting IX. 27 to 30 November 2012. Denver, EUA.
2012	Poster Ecology	Monteiro, B., Ferreira, R., Santos, J., Marques, A.T., Mascarenhas, M., Costa, H. (2012). Variation in bat activity in Portuguese uplands: effects of wind speed, temperature and moonlight in different biotopes. NWCC Wind Wildlife Research Meeting IX. 27 to 30 November 2012. Denver, EUA.
2012	Poster Ecology	Monteiro, B., Ferreira, R., Santos, J., Marques, A. T., Mascarenhas, M., Costa, H. (2012). Variation in bat activity in Portuguese uplands: effects of wind speed, temperature and moonlight in different biotopes. I Congreso Ibérico de Energía Eólica y Conservación de la Fauna. 12 to 14 January 2012. Jerez de la Frontera, Spain.
2012	Proceedings Wind Energy Monitoring	Faneca, C., Correira, R., Vieira, J., Bastos, C., Fonseca, C., Pereira, M.J., Mascarenhas, M., Costa, H., Bernardino, J. (2012). 3D reconstruction of bat trajectories from stereo vision. In Proceedings of the 18th Portuguese Conference on Pattern Recognition. 26 October 2012. Coimbra, Portugal.
2012	Proceedings Wind Energy Impacts	Bernardino, J., Bispo, R., Mascarenhas, M., Costa, H. (2012). Are we properly assessing bird and bat mortality at onshore wind farms? In Proceedings of the 32nd Annual Meeting of International Association for Impact Assessment (IAIA). 27th May to 1st June 2012. Porto, Portugal.
2012	Proceedings Road impacts	Paula, J., Mesquita, S., Mascarenhas, M., Costa, H. (2012). SEA of a Road Network Plan: effects on wolf populations. In Proceedings of the 32nd Annual Meeting of International Association for Impact Assessment (IAIA). 27th May to 1st June 2012. Porto, Portugal.
2012	Proceedings Wind Energy Impacts	Bernardino, J., Zina, H., Passos, I., Costa, H., Pereira, M. J., Fonseca, C., Mascarenhas, M. (2012). Bird and bat mortality at Portuguese wind farms. In Proceedings of the 32nd Annual Meeting of International Association for Impact Assessment (IAIA). 27th May to 1st June 2012. Porto, Portugal.
2011	Oral presentation Wind Energy Impacts	Paula, A., Santos, J., Cordeiro, A., Costa, H., Mascarenhas, M., Reis, C. (2011). Managing habitat for prey recovery – an off-site mitigation tool for wind farms' impacts on top avian predators. Conference on Wind energy and Wildlife impacts. 2nd to the 5th May 2011. Trondheim, Norway.
2011	Oral presentation Wind Energy Impacts	Cordeiro, A., Mesquita, S., Marques, A.T., Bernardino, J., Silva, M.J., Mascarenhas, M., Costa, H. (2011). What is the real impact of wind farms on biodiversity? Contribution of follow-up studies for the environmental impact assessment process. VI National Congress on Environmental Impact Assessment. 6th to the 8th April 2011. Albacete, Spain.
2011	Oral presentation Ecology	Paula, A., Santos, J., Cordeiro, A., Costa, H. M., Mascarenhas, M., Reis, C. (2011). Managing habitat for prey recovery – an off-site mitigation tool for wind farms' impacts on top avian predators. Conference on Wind energy and Wildlife impacts. 2 to 5 May 2011. Trondheim, Norway.
2011	Poster Ecology	Paula, J., Santos, J., Monteiro, B., Novais, R., Costa, H., Mascarenhas, M. (2011). Distribution and feeding ecology of the European Otter <i>Lutra lutra</i> in the area of influence of the future Alvito dam. X Congreso de la SECEM, 3 to 6 December 2011. Spain.
2011	Paper Statistical analysis	Bernardino, J., Bispo, R., Torres, P., Rebelo, R., Mascarenhas, M., Costa, H., (2011). Enhancing carcass removal trials at three wind energy facilities in Portugal. In <i>Wildlife Biology in Practice</i> , 7(2): 1-14.
2011	Paper Sampling methodologies	Paula, J., Leal, M.C., Silva, M.J., Mascarenhas, R., Costa, H., Mascarenhas, M. (2011). Dogs as a tool to improve bird-strike mortality estimates at wind farms. <i>Journal for Nature Conservation</i> , 19(4): 202-208.
2011	Technical magazine Aquatic monitoring	Mascarenhas, M., Coelho, H. (2011). IFIM: metodologia para determinação do caudal ecológico [IFIM: a method for determining the ecological flow]. <i>Renováveis Magazine</i> 7. [in Portuguese]
2010	Oral presentation Aquatic impacts	Bernardino, J., Puga, J., Leal, M., Mascarenhas, M., Costa, H., Reis, C. (2010). A Directiva Quadro da Água no contexto de Estudos de Impacte Ambiental de barragens: caso de estudo da barragem do Alvito [The

- Water Directive as a framework of the environmental impact assessment of dams: the case of the Alvito dam]. 4th edition of CNAI "Conferência Nacional de Avaliação de Impactes – Avaliação de Impactes e Energia: Água, Terra, Fogo e Ar?". 20th to the 22nd October 2010. Vila Real, Portugal. [in Portuguese]
- 2010 Oral presentation | Ecology Paula, A., Cordeiro, A., Santos, J., Costa, H., Reis C., Mascarenhas, M. (2010). Three Years of Implementation of Compensatory Measures on Impacts on Endangered Species: What is the balance. 12th National Ecology Meeting, 18 to 20 October 2010. Oporto, Portugal.
- 2010 Oral presentation | Environmental Assessment Mesquita, S., Bernardino, J., Mascarenhas, M., Costa, H., Roxo, A., (2010). A Avaliação de Planos segundo a Directiva Habitats: uma proposta metodológica [Appropriate Assessment according to the Habitats Directive: a methodological proposal]. 4ª Conferência Nacional de Avaliação de Impactes – Avaliação de Impactes e Energia: Água, Terra, Fogo e Ar? 20th to the 22nd October 2010. Vila Real, Portugal. [in Portuguese]
- 2010 Oral presentation | Wind Energy Impacts Cordeiro, A., Mesquita, S., Marques, T., Silva, M.J., Rodrigues, N., Zina, H., Costa, H., Mascarenhas, M., (2010). Avaliação de impactes na componente biológica em parques eólicos: impactes previstos vs. impactes reais [Biological section of environmental impact assessment at wind farms: envisaged impacts vs. actual impacts]. 4th edition of CNAI "Conferência Nacional de Avaliação de Impactes - Avaliação de Impactes e Energia: Água, Terra, Fogo e Ar?" 20th to the 22nd October 2010. Vila Real, Portugal. [in Portuguese]
- 2010 Oral presentation | Wind Energy Impacts Marques, T., Ferreira, R., Costa, H., Mascarenhas, M. (2010). Is it necessary to adjust a wind farm layout? How to identify and minimize potential impacts on raptors and soaring birds. Wind Wildlife Research Meeting VIII. 19th to the 21st October 2010. Denver, Colorado, USA.
- 2010 Oral presentation | Wind Energy Impacts Marques, A.T, Bernardino, J., Costa, H., Mascarenhas, M. (2010). Following raptors and soaring birds populations in Wind Farms: a methodological protocol. 18th International Conference of the European Bird Census Council, EBCC. 22-26 March 2010. Caceres, Spain.
- 2010 Oral presentation | Monitoring technologies Palminha, G., Costa, H., Mascarenhas, M. (2010). Biodiversity tracking system from concept to deployment. Argos user meeting at Bird Migration & Global Change, CLS – Collect Localisation Satellites. 20th March 2010. Algeciras, Spain.
- 2010 Oral presentation | Impact Assessment Mesquita, S., Bernardino, J., Marques, T., Mascarenhas, M., Costa, H., (2010). Análise de risco como suporte à avaliação de impactes: metodologias aplicadas a vertebrados terrestres [Risk analysis to support environmental impact assessment: methods applied to terrestrial vertebrates]. 4th edition of CNAI "Conferência Nacional de Avaliação de Impactes – Avaliação de Impactes e Energia: Água, Terra, Fogo e Ar?" 20th to the 22nd October 2010. Vila Real, Portugal. [in Portuguese]
- 2010 Oral presentation | Wind Energy Monitoring Marques, A.T., Ferreira, R., Silva, M. J., Bernardino, J., Costa, H., Mascarenhas, M. (2010). Monitorização da comunidade de aves de rapina e planadoras em parques eólicos: uma proposta metodológica [Monitoring of the community of raptors and soaring in wind farms: a methodological proposal]. 12th edition of "Encontro Nacional de Ecologia". 18th to the 20th October 2010. Oporto, Portugal. [in Portuguese]
- 2010 Oral presentation | Wind Energy Impacts Paula, A., Cordeiro, A., Santos, J., Costa, H., Mascarenhas, M., Reis, C. (2010). Três anos de implementação de medidas de compensação de impactes sobre espécies ameaçadas: Qual o balanço? [Three years of implementation of compensation measures for impacts on endangered species: What is the balance?]. 12th edition of "Encontro Nacional de Ecologia". 18th to the 20th October 2010. Oporto, Portugal. [in Portuguese]
- 2010 Oral presentation | Biodiversity Information Systems Palminha, G., Costa, H., Mascarenhas, M. (2010). Biodiversity Information Systems: Examples of Data Management. Nature-SDIplus Conference "SDI for Nature Conservation", IGP. 28-29 September 2010. Lisbon, Portugal.
- 2010 Oral presentation | Land management assessments Mesquita S., Bernardino, J., Mascarenhas, M., Costa, H., Roxo, A. (2010). A Directiva Habitats e a Avaliação de Planos: uma proposta metodológica [Appropriate Assessment according to the Habitats Directive: a methodological proposal]. 1st edition of "Conferência da Rede de Língua Portuguesa de Avaliação de Impactos". Fundação Cidade de Lisboa. 16th to the 19th June 2010. Lisbon, Portugal. [in Portuguese]
- 2009 Oral presentation | Ecology Paula, A. Cordeiro, A. Santos. J. Mouchinho, C. Costa, H. Reis, C. Mascarenhas, M. (2009). Preliminary results of the implementation of the Methodological Protocol of the Compensatory Measures resulting from the EIA Process of the Mogadouro - Valeira Line Extension for the SE of Olmos (Macedo de Cavaleiro) at 220 kV. Final Workshop – PEAR. 18 December 2009, Portugal.
- 2009 Oral presentation | Ecology Paula, A., Cordeiro, A., Santos, J., Mascarenhas, M., Costa, H. (2009). Compensatory measures and the role they play in species conservation: Habitat Management and Monitoring of Ecosystems from the EIA Process of the project "Extension between the Mogadouro-Valeira line and the Olmos substation (Macedo de Cavaleiros), at 220 kV". 6th SPEA Ornithology Congress & 4th Iberian Congress of Ornithology. 5 to 8 December 2009. Elvas, Portugal.
- 2009 Poster | Ecology Santos, J., Paula, A., Costa, H., Mascarenhas, M., Mouchinho, C., Fonseca, F., Reis, C. (2009). Evaluation of the success of habitat management measures in the recovery of red-legged partridge *Alectoris rufa* L. populations in the Rio Sabor valley. 6th SPEA Ornithology Congress & 4th Iberian Congress of Ornithology, 5 to 8 December 2009, Elvas, Portugal.
- 2009 Oral presentation | Wind Energy Monitoring Mascarenhas, M., Paula, J., Santos, A., Lemos, A., Pacheco, F. (2009). The search and detection of bird and bat cadavers on wind farms. 8th International Seminar on Detection Dogs Registration – Canine Detection: 2012 and Beyond. 4-6 April 2009. London, UK.
- 2009 Oral presentation | Other Palminha, G., Costa, H., Mascarenhas, M. (2009). Bio3 and Manifold GIS. European Manifold User Meeting

2009, UCL. 15-17 February 2009. London, UK.

- 2009 Oral presentation | Mitigation measures Paula, A., Cordeiro, A., Santos, J., Mouchinho, C., Costa, H., Reis, C., Mascarenhas, M. (2009). Resultados preliminares da implementação do protocolo Metodológico das Medidas Compensatórias decorrentes do Processo de AIA do Ramal da Linha Mogadouro - Valeira para a SE de Olmos (Macedo de Cavaleiro), a 220 kV [Preliminary results of the implementation of the Mitigation Measures Protocol under the Environmental Impact Assessment for the Mogadouro - Valeira power line and Olmos substation (Macedo de Cavaleiros), at 220 kV]. Final Workshop - PEAR. 18th December 2009. Portugal. [in Portuguese]
- 2009 Oral presentation | Wind Energy & Power lines Impacts Bernardino, J., Bispo, R., Torres, P., Rebelo, R., Mascarenhas, M., Costa, H. (2009). Qual o verdadeiro impacto dos parques eólicos e linhas eléctricas na avifauna? Avaliação das metodologias em uso e propostas para o seu aperfeiçoamento ["What's the real impact of wind farms and power lines on birds? Assessing the current methodologies and making proposals for its improvement"]. VI Congresso de Ornitologia da SPEA e IV Congresso de Ibérico de Ornitologia, SPEA e SEO. 5-8 December 2009. Elvas, Portugal. [in Portuguese]
- 2009 Oral presentation | Compensation measures Paula, A., Cordeiro, A., Santos, J., Mascarenhas, M., Costa, H. (2009). Medidas compensatórias e o papel que desempenham na conservação de espécies: A Gestão de Habitat e Monitorização de Ecossistemas Decorrentes da DIA do Projecto Ramal entre a linha Mogadouro-Valeira e a Subestação de Olmos (Macedo de Cavaleiros), a 220 kV ["Off-site mitigation and the role it plays on species conservation: habitat management and ecosystem monitoring regarding the construction of a Power Line in the North-eastern Portugal"]. VI Congresso de Ornitologia da SPEA e IV Congresso de Ibérico de Ornitologia, SPEA e SEO. 5-8 December 2009. Elvas, Portugal. [in Portuguese]
- 2007 Oral presentation | Wind Energy Monitoring Bernardino, J., Costa, H., Cardoso, P., Mascarenhas, M., Rebelo, R. (2007). Determining the mortality, scavenging removal and searcher efficiency rates in wind farms located in Aire and Candeeiros mountains, Portugal. II Meeting on Wind Energy and Nature Conservation 2007, Platform for the Rational Implementation of Wind Energy in Euskadi. 23-25 February 2007. Vitoria-Gasteiz, Spain.
- 2005 Proceedings | Baseline Ecological Studies Costa, H., Mascarenhas, M., Cardoso, P.E. (2005). Que estratégia de intervenção em áreas ecologicamente sensíveis? Estudos Ecológicos de Base: uma ferramenta integrada [Which intervention strategy should be used in ecological sensitive areas? Baseline Ecological Studies: an integrated tool]. ENER'05 Conference on Renewable Energies and Environment in Portugal - the Portuguese situation in relation to the EU's goals. 5th to 7th May 2005. Figueira da Foz, Portugal. [in Portuguese]

CURRICULUM VITAE OF NICOLENE VENTER

Profession :	Public Participation and Social Consultant
Specialisation:	Public participation process; stakeholder engagement; facilitation (workshops, focus group and public meetings; public open days; steering committees); monitoring and evaluation of public participation and stakeholder engagement processes
Work Experience:	21 years' experience as a Public Participation Practitioner and Stakeholder Consultant

VOCATIONAL EXPERIENCE

Over the past 21 years Nicolene established herself as an experienced and well recognised public participation practitioner, facilitator and strategic reviewer of public participation processes. She has experience in managing public participation projects and awareness creation programmes. Her experience includes designing and managing countrywide public participation and awareness creation projects, managing multi-project schedules, budgets and achieving project goals. She has successfully undertaken several public participation processes for EIA, BA and WULA projects. The EIA and BA process include linear projects such as the NMPP, Eskom Transmission and Distribution power lines as well as site specific developments such as renewable energy projects i.e. solar, photo voltaic and wind farms. She also successfully managed stakeholder engagement projects which were required to be in line with the Equator Principles.

SKILLS BASE AND CORE COMPETENCIES

- Project Management
- Public Participation, Stakeholder Engagement and Awareness Creation
- Public Speaking and Presentation Skills
- Facilitation (workshops, focus group meetings, public meetings, public open days, working groups and committees)
- Social Assessments (Stakeholder Analysis / Stakeholder Mapping)
- Monitoring and Evaluation of Public Participation and Stakeholder Engagement Processes
- Community Liaison
- IFC Performance Standards
- Equator Principles
- Minute taking, issues mapping, report writing and quality control

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- Higher Secretarial Certificate, Pretoria Technicon (1970)

Short Courses:

- Techniques for Effective Public Participation, International Association for Public Participation, IAP2 (2008)
- Foundations of Public Participation (Planning and Communication for Effective Public Participation, IAP2 (2009)
- Certificate in Public Relations, Public Relation Institute of South Africa, Damelin Management School (1989)

Professional Society Affiliations:

- Board Member of International Association for Public Participation (IAP2): Southern Africa

EMPLOYMENT

Date	Company	Roles and Responsibilities
November 2018 – current	Savannah Environmental (Pty) Ltd	<p>Public Participation and Social Consultant</p> <p><u>Tasks include:</u></p> <p>Tasks include: Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc.</p> <p>Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved</p>
2016 – Current	Imaginative Africa (Pty) Ltd	<p>Independent Consultant</p> <p>Consulting to various Environmental Assessment Practitioners for Public Participation and Stakeholder Engagements:</p> <p><u>Tasks include:</u></p> <p>Tasks include: Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc.</p> <p>Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project</p>

Date	Company	Roles and Responsibilities
November 2018 – current	Savannah Environmental (Pty) Ltd	<p>Public Participation and Social Consultant</p> <p><u>Tasks include:</u></p> <p>Tasks include: Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc.</p> <p>Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved</p>
		<p>affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved</p> <p><u>Clients:</u></p> <p>SiVEST Environmental, Savannah Environmental, Baagi Environmental; Royal Haskoning DHV (previously SSI)</p>
2013 - 2016	Zitholele Consulting	<p>Senior Public Participation Practitioner and Project Manager</p> <p><u>Tasks included:</u></p> <p>Project managed public participation process for EIA/BA/WULA/EAL projects. Manages two Public Participation Administrators. Public Participation tasks as outlined as above and including financial management of public participation processes.</p>
2011 - 2013	Independent Consultant Imaginative Africa (Pty) Ltd	<p>Independent Consultant Consulting to various Environmental Assessment Practitioners for Public Participation and Stakeholder Engagements</p> <p><u>Tasks included:</u></p> <p>Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions /</p>

Date	Company	Roles and Responsibilities
November 2018 – current	Savannah Environmental (Pty) Ltd	<p>Public Participation and Social Consultant</p> <p><u>Tasks include:</u></p> <p>Tasks include: Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc.</p> <p>Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved</p>
		<p>concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc.</p> <p>Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved</p> <p><u>Clients:</u> Bohlweki Environmental, Bembani Sustainability (Pty) Ltd; Naledzi Environmental</p>
2007 – 2011	SiVEST SA (Pty) Ltd	<p>Unit Manager: Public Participation Practitioner</p> <p><u>Tasks included:</u> Project managed public participation process for EIA/BA projects. Manages two Junior Public Participation Practitioners. Public Participation tasks as outlined as above and including financial management of public participation processes.</p>
2005 – 2006	Imaginative Africa (Pty) Ltd	<p>Independent Consultant Public Participation and Stakeholder Engagement Practitioner</p> <p><u>Tasks included:</u></p>

Date	Company	Roles and Responsibilities
November 2018 – current	Savannah Environmental (Pty) Ltd	<p>Public Participation and Social Consultant</p> <p><u>Tasks include:</u></p> <p>Tasks include: Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc.</p> <p>Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved</p>
		<p>Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc.</p> <p>Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved.</p> <p><u>Clients:</u> Manyaka-Greyling-Meiring (previously Greyling Liaison and currently Golder Associates)</p>
2004 – 2005	National Intelligence Agency	<p>Personal Assistant</p> <p><u>Tasks included:</u> Upkeep of diary; Review and ensure Submissions are compliant to Regulations; Travel arrangements (domestic & international); Compilation of travel reports</p>

Date	Company	Roles and Responsibilities
November 2018 – current	Savannah Environmental (Pty) Ltd	<p>Public Participation and Social Consultant</p> <p><u>Tasks include:</u></p> <p>Tasks include: Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc.</p> <p>Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved</p>
1997 - 2004	Imaginative Africa (Pty) Ltd	<p>Independent Consultant: Public Participation Practitioner.</p> <p><u>Tasks included:</u></p> <p>Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, affected landowners, etc.</p> <p>Managing interaction between Stakeholders and Team Members, liaising with National, Provincial Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved.</p> <p><u>Clients:</u></p> <p>Greyling Liaison (currently Golder Associates); Bemani – Sustainability (Pty) Ltd; Lidwala Environmental; Naledzi Environmental</p>

PROJECT EXPERIENCE

Facilitation

Project Name & Location	Client Name	Meeting Type
Bloemfontein Strengthening Project	Eskom Holdings SOC Ltd EAP: Baagi Environmental	Public Meetings
Moidraai-Smitkloof 132kV Power Line and Substation, Northern Cape Province	Eskom Holdings SOC Ltd EAP: SSI	Focus Group Meetings
Thabametsi IPP Power Station, Limpopo Province	Thabametsi Power Company Proprietary Limited EAP: Savannah Environmental	Focus Group Meeting & Public Meeting
Aggeneis-Oranjemond 400kV Eskom Transmission Power Line, Northern Cape Province	Eskom Holdings SOC Ltd EAP: Savannah Environmental	Focus Group Meetings & Public Meetings
Ariadne-Eros 400kV/132kV Multi-Circuit Transmission Power Line (Public Meetings)	Eskom Holdings SOC Ltd EAP: ACER Africa	Public Meetings
Majuba-Venus 765kV Transmission Power Lines		Public Meetings
SmancorCR Chemical Plant (Public Meeting)	Samancor Chrome (Pty) Ltd EAP: Environmental Science Associates	Public Meeting
SANRAL N4 Toll Highway Project (2 nd Phase), Gauteng & North West Provinces	Department of Transport	Public Meetings

Stakeholder Engagement

Project Name & Location	Client Name	Role
Determination, Review and Implementation of the Reserve in the Olifants/Letaba System	Department of Water and Sanitation	Secretarial Services
Orange River Bulk Water Supply System	Golder Associates	
Levuvu-Letaba Resources Quality Objectives		

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Tlitseng PV, Substations & Power Lines, Lichtenburg, North West Province	BioTherm Energy (Pty) Ltd EAP: SIVEST	Public Participation, Landowner and Community Consultation
Sendawo PVs, Substations & Power Lines, Vryburg, North West Province		
Helena Solar 1, 2 and 3 PVs, Copperton, Northern Cape Province		
Farm Spes Bona 23552 Solar PV Plants, Bloemfontein, Free State Province	Surya Power (Pty) Ltd EAP: SIVEST	Public Participation, Landowner and Community Consultation

RENEWABLE POWER GENERATION PROJECTS: PHOTOVOLTAIC SOLAR ENERGY FACILITIES

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
<i> Tilisitseng PV, Substations & Power Lines, Lichtenburg, North West Province </i>	<i> BioTherm Energy (Pty) Ltd EAP: SIVEST </i>	<i> Public Participation, Landowner and Community Consultation </i>
<i> Sendawo PVs, Substations & Power Lines, Vryburg, North West Province </i>		
<i> Helena Solar 1, 2 and 3 PVs, Copperton, Northern Cape Province </i>		
<i> Farm Spes Bona 23552 Solar PV Plants, Bloemfontein, Free State Province </i>	<i> Surya Power (Pty) Ltd EAP: SIVEST </i>	<i> Public Participation, Landowner and Community Consultation </i>
<i> De Aar Solar Energy Facility, De Aar, Northern Cape Province </i>	<i> South Africa Mainstream Renewable Power Developments (Pty) Ltd EAP: SIVEST </i>	<i> Public Participation, Landowner and Community Consultation </i>
<i> Droogfontein Solar Energy Facility, Kimberley, Northern Cape Province </i>		
<i> Kaalspruit Solar Energy Facility, Loeriesfontein, Northern Cape Province </i>		
<i> Platsjambok East PV, Prieska, Northern Cape Province </i>		
<i> Renosterburg PV, De Aar, Northern Cape Province </i>	<i> Renosterberg Wind Energy Company (Pty) Ltd EAP: SIVEST </i>	<i> Public Participation, Landowner and Community Consultation </i>
<i> 19MW Solar Power Plant on Farm 198 (Slypklip), Danielskuil, Northern Cape Province </i>	<i> Solar Reserve South Africa (Pty) Ltd EAP: SIVEST </i>	<i> Public Participation, Landowner and Community Consultation </i>

RENEWABLE POWER GENERATION PROJECTS: WIND ENERGY FACILITIES

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
<i> Aletta Wind Farm, Copperton, Northern Cape Province </i>	<i> BioTherm Energy (Pty) Ltd EAP: SIVEST </i>	<i> Public Participation </i>
<i> Eureka Wind Farm, Copperton, Northern Cape Province </i>		
<i> Loeriesfontein Wind Farm, Loeriesfontein, Northern Cape Province </i>	<i> South Africa Mainstream Renewable Power Developments (Pty) Ltd EAP: SIVEST </i>	<i> Public Participation </i>
<i> Droogfontein Wind Farm, Loeriesfontein, Northern Cape Province </i>		
<i> Four Leeuwberg Wind Farms, Loeriesfontein, Northern Cape Province </i>		
<i> Noupoort Wind Farm, Noupoort, Northern Cape Province </i>		
<i> Mierdam PV & Wind Farm, Prieska, Northern Cape Province </i>		
<i> Platsjambok West Wind Farm & PV, Prieska, Northern Cape Province </i>		

RENEWABLE POWER GENERATION PROJECTS: CONCENTRATED SOLAR FACILITIES (CSP)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Upington Concentrating Solar Plant and associated Infrastructures, Northern Cape Province	Eskom Holdings SOC Ltd EAP: Bohlweki Environmental	Public Participation

GRID INFRASTRUCTURE PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Pluto-Mahikeng Main Transmission Substation and 400kV Power Line (Carletonville to Mahikeng), Gauteng and North West Provinces	Eskom Holdings SOC Ltd Baagi Environmental	
Thyspunt Transmission Lines Integration Project, Eastern Cape Province	Eskom Holdings SOC Ltd EAP: SIVEST	Public Participation, Landowner and Community Consultation
Westrand Strengthening Project, Gauteng Province		
Mookodi Integration Project, North-West Province		
Transnet Coallink, Mpumalanga and KwaZulu-Natal Provinces		Public Participation,
Delarey-Kopela-Phahameng Distribution power line and newly proposed Substations, North-West Province		Public Participation, Landowner and Community Consultation
Invubu-Theta 400kV Eskom Transmission Power Line, KwaZulu-Natal Province	Eskom Holding SOC Ltd EAP: Bemani Environmental	

Basic Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Melkhout-Kudu-Grassridge 132kV Power Line Project (project not submitted to DEA), Eastern Cape Province	Eskom Holdings SOC Ltd EAP: SIVEST	Public Participation, Landowner and Community Consultation
Tweespruit-Welroux-Driedorp-Wepener 132Kv Power Line, Free State Province		Public Participation, Landowner and Community Consultation
Kuruman 132Kv Power Line Upgrade, Northern Cape Province	Eskom Holdings SOC Ltd EAP: Zitholele	Public Participation, Landowner and Community Consultation
Vaalbank 132Kv Power Line, Free State Province		Public Participation, Landowner and Community Consultation
Pongola-Candover-Golela 132kV Power Line (Impact Phase), KwaZulu-Natal Province		Public Participation, Landowner and Community Consultation
Ndumo-Geziza 132kV Power Line, KwaZulu-Natal Province		Public Participation, Landowner and Community Consultation

CONVENTIONAL POWER GENERATION PROJECTS (COAL, GAS AND ASSOCIATED INFRASTRUCTURE)

Project Name & Location	Client Name	Role
Medupi Flue Gas Desulphurisation Project (up to completion of Scoping Phase), Limpopo Province	Eskom Holdings SOC Ltd EAP: Zitholele Consulting	Public Participation, Landowner and Community Consultation
Kendal 30-year Ash Disposal Facility, Mpumalanga Province		
Kusile 60-year Ash Disposal Facility, Mpumalanga Province		
Camden Power Station Ash Disposal Facility, Mpumalanga Province		
Tutuka Fabric Filter Retrofit and Dust Handling Plant Projects, Mpumalanga Province	Eskom Holdings SOC Ltd Lidwala Environmental	Public Participation, Landowner and Community Consultation
Eskom's Majuba and Tutuka Ash Dump Expansion, Mpumalanga Province		
Hendrina Ash Dam Expansion, Mpumalanga Province		

Basic Assessments

Project Name & Location	Client Name	Role
Realignment of the Bulshoek Dam Weir near Klaver and the Doring River Weir near Clanwilliam, Western Cape Province	Applicant: Dept of Water and Sanitation EAP: Zitholele	Public Participation

Environmental Authorisation Amendments

Project Name & Location	Client Name	Role
Beaufort West 280MW Wind Farm into two 140MW Trakas and Beaufort West Wind Farms, Western Cape	South Africa Mainstream Renewable Power Developments (Pty) Ltd EAP: SIVEST	Public Participation

INFRASTRUCTURE DEVELOPMENT PROJECTS (BRIDGES, PIPELINES, ROADS, WATER RESOURCES, STORAGE, ETC)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Transnet's New Multi-Products Pipeline Province	Transnet DEAP: Bohlweki Environmental	Public Participation

Screening Studies

Project Name & Location	Client Name	Role
Potential Power Line Alternatives from Humansdorp to Port Elizabeth, Eastern Cape Province	Nelson Mandela Bay Municipality EAP: SIVEST	Social Assessment

MINING SECTOR

Environmental Impact Assessment and Environmental Management Programme

<i>Project Name & Location</i>	<i>Client Name</i>	<i>Role</i>
<i>Koffiefontein Slimes Dam, Free State Province</i>	<i>Petra Diamond Mines EAP: Zitholele</i>	<i>Public Participation</i>
<i>Baobab Project: Ethenol Plant, Chimbanje, Middle Sabie, Zimbabwe</i>	<i>Applicant: Green Fuel (Private) Limited EAP: SIVEST</i>	<i>Public Participation & Community Consultation</i>
<i>BHP Billiton Energy Coal SA's Middelburg Water Treatment Plant, Mpumalanga</i>	<i>BHP Billiton Group EAP: Jones & Wagener</i>	<i>Public Participation</i>

CURRICULUM VITAE

Shivani Naidoo

Name	Shivani Naidoo
Profession	Environmental Scientist
Name of Firm	SiVEST SA (Pty) Ltd: Environmental Division
Present Appointment	Environmental Consultant
Years with Firm	5.5 Years
Date of Birth	15 June 1987
Nationality	South African
ID No.	8706150043085



Education

National Senior Certificate Endorsement with Merit Pass - Heather Secondary School (2000-2004)

Professional Qualifications

Bachelor of Science (Geography): University of KwaZulu-Natal, 2007

Certificates of Merit: Cities and Planning in Developing Countries

Programme Evaluation

Small Business Enterprises

Bachelor of Science (Honours) Geographical Science (Geography and Environmental Management):

University of KwaZulu-Natal, 2008

Certificates of Merit: Concepts and Methods in Geography

- Applying SHE Principles and Procedures (ASHEPP)
- Safety, Health and Environmental Hazard Identification and Risk Assessment (HIRA)
- Safety Management Training Course (SAMTRAC) (2013)
- Introduction to ISO 45001: 2018 and Implementation

Years of Experience

6 years

Membership to Professional Societies

International Association for Impact Assessment South Africa (IAIASa)

Employment Record

Jan 2013 – current	SiVEST SA (PTY) LTD – Environmental Division: Environmental Consultant
Jun 2012 - Jul 2012	Msunduzi Innovation and Development Institute (MIDI) – Field Researcher
Dec 2009 – Nov 2010	Msunduzi Innovation and Development Institute (MIDI) – Senior Researcher
Feb 2009 – Jul 2011	University of KwaZulu-Natal (UKZN) - Lecturer
May 2009 – Dec 2009	University of KwaZulu-Natal (UKZN) - Research Assistant
Feb 2008 – Oct 2009	University of KwaZulu-Natal (UKZN) - Demonstrator
Sep 2008	University of KwaZulu-Natal (UKZN) - Researcher

Language Proficiency

LANGUAGE	SPEAK	READ	WRITE
English	Fluent	Fluent	Fluent
Afrikaans	Good	Good	Good

Key Experience

Specialisation Field in Geography, Human and Development Geography, Environmental Management, Local Economic Development, Community Resource Management, Safety, Health & Environment and Research.

Shivani joined the firm in January 2013 in her capacity as an Environmental Consultant.

Shivani has completed a Bachelor of Science Degree with a Geography Major (University of KwaZulu-Natal, PMB), as well as a Bachelor of Science (Honours) in Geography and Environmental Management (University of KwaZulu-Natal, PMB).

Shivani was also invited to join the Golden Key International Honour Society in 2009 which is a non-profit organisation founded in the United States in 1977 and is a network between talented university students from diverse academic backgrounds. Her high academic achievements placed her among the top 15% of students in the University of KwaZulu-Natal. Membership to this society is by invitation only and solely based on academic merit. She served as the Vice President of the Pietermaritzburg Campus Executive Committee chapter and a part of her commitment to the committee was engaging in various community activities and working with children's homes. She worked with Joseph Baynes children's home as well as with a small group of primary school children in the Mpolweni area.

Shivani has been involved in research and lecturing since 2008. Her most recent qualification is in Health and Safety, having completed the Introduction to ISO 45001: 2018 and Implementation in May 2018.

PROJECT EXPERIENCE

ENVIRONMENTAL CONTROL OFFICER (AUDITING)

- PMB Bus Rapid Transport System
- Trustfeeds Waste Water Treatment Works (WWTW)
- Athlone Circle Mixed Used Development
- Dube TradePort Basement Parking Construction
- Mooi-Mgeni Transfer Scheme Phase 2 (MMTS-2) -Water Transfer System
- Middel drift SSA5 Pipeline
- Ixopo Taxi Rank
- Bulwer Pipeline and Weir Construction
- Mpumalanga Unit G Phase 2
- Ithubalethu Bulk Water Supply Scheme
- Middel drift Bulk Water Supply Phase D&E
- Bulwer Dam Upgrade
- Steadville (Umbulwane Area H) Housing Development
- Reclamation Group External Audit

BASIC ASSESSMENTS / ENVIRONMENTAL IMPACT ASSESSMENTS

- Edendale Town Centre Hub
- Bulwer Dam Emergency Intervention Project
- Proposed Shemula Water Treatment Works Expansion and Rising Main
- Proposed Mooi River Industrial Park Infrastructure Development
- Proposed Lower Tugela Secondary Bulk Water Scheme: Off-Take Position 10 and position 11
- Proposed Mapstone Dam Storage Capacity Expansion
- Driefontein Water pipeline Phase 1 and 2 (Ladysmith)
- Usolo Road
- Waterval Prison Repair and Maintenance project (RAMP)
- Wembezi Mixed Land use Development project
- Paulpietersburg Wastewater treatment works
- Durban veterinary quarantine station at Canelands
- Proposed Mapstone Dam Storage Capacity Expansion
- La Mercy Beach Development
- Compensation Waste EIA
- South Coast Phase 2B Pipeline
- Darvill Constructed Wetland EIA
- Cornubia Petrol Filling Station BA

PUBLIC PARTICIPATION

Compilation of Interested & Affected (I&AP) database and all interactions with I&AP's, preparation of Background Information Documents (BID) for I&AP's, preparation of advertisement for public newspaper, compilation of meeting minutes, Comments and responses reports and placing of site notices for the following projects:

- Paulpietersburg Wastewater treatment works
- Wembezi Mixed Land use Development project
- Driefontein Water pipeline Phase 1 and 2
- D9 Jozini Roads
- Bulwer Dam Emergency Intervention Project
- Proposed Mapstone Dam Storage Capacity Expansion
- Proposed Lower Tugela Secondary Bulk Water Scheme: Off-Take Position 10 and Position 11
- Newcastle Rural Housing Project
- Dube Trade-Port Agrizone 2 Project
- Eskom Franklin Vlei Powerline
- D1562 Road Upgrade
- Greater Kokstad Bulk Raw Water Upgrade Project
- UMshwati Water Pipeline Project
- La Mercy Beach Development
- Compensation Waste EIA
- South Coast Phase 2B Pipeline
- Shemula Water Supply Scheme (Phases 2-6)
- Proposed Development of Swayimane, Msilili, Ndaka and Hoqweni Community Water Supply Scheme
- Darvill Constructed Wetland EIA
- Cornubia Petrol Filling Station BA

HEALTH & SAFETY OFFICER (AUDITING)

- Hilltops Substation Erosion
- Ithubalethu Bulk Water Supply Scheme

WATER USE LICENCE APPLICATIONS (WULA)

- Edendale Town Centre Hub
- Darvill Constructed Wetland
- D1562 Road Upgrade
- Mimosadale Bulk Water Supply
- Umshwathi Pipeline
- Mhlabatshane Pipeline
- Bruynshill to Wartburg Pipeline
- South Coast Pipeline

ENVIRONMENTAL MANAGEMENT FRAMEWORKS / SEAs / SoER

- Edendale EMF
- Bishopstowe SEA
- Dube TradePort SoER

PROPOSALS/ TENDER SUBMISSIONS

Completing method statements and budgets for various tenders and proposals applied for and submitted. Part of this process involved dealing with specialists for quotes on specialist studies required.

ACADEMIA

- The social and economic impact of the KZN Winter Air Tour 2010 on the six Provincial airports in KwaZulu-Natal. (June 2012 - July 2012)
- The Role of Supermarkets in Local Environmental and Socio-Economic Sustainability in Pietermaritzburg. (Dec 2009 – Nov 2010)
- Urban Food Security Project in response to the increasing levels of poverty and food insecurity in the cities of Southern Africa. (Sep 2008)
- Shayamoya Sewing Co-operative Evaluation Programme, Imbali – Pietermaritzburg. (October 2007).

Name Hlengiwe Innocentia Ntuli

Profession PPP Support and Administrator

Name of Firm SiVEST SA (PTY) LTD

Present Appointment Projects Secretary /
Support and PPP Administrator

Years with Firm 6 Years

Date of Birth 27 September 1989

ID Number 890927 02300 83

Nationality South African



Education

Minerva High School (2002 - 2006)
College Campus (2007-2009)

Professional Qualifications

Certificate in Contact Centre Support NQF2 (2010)
Diploma in IT Programming (2007 – 2009)

Employment Record

Jun 2012 – to date SiVEST SA (Pty) Ltd: Divisional Secretary / PPP Support and Administratore

May 2009 – May 2012 DSG (PTY) LTD: Contact Centre Agent

Language Proficiency

LANGUAGE	SPEAK	READ	WRITE
IsiZulu	Fluent	Fluent	Fluent
English	Fluent	Fluent	Fluent

Key Experience

Hlengiwe joined SiVEST in 2012 and holds the position of Projects Secretary in the Johannesburg Office of SiVEST and assists in the general day to day administration of the organisation.

She has taken on the role of public participation process administrator which includes maintaining project database, arranging and coordinating public meetings as well as following up with organs of states to get comments on projects.

Administrative Experience

Administrative responsibilities include:

- PPP Administration and use of Maximiser
- Filing electronically and paper copies
- Faxing, scanning, emailing, phoning, printing and typing
- Collecting of HR documents (timesheets, leave forms, expense, travel)
- Reception and switchboard reliever
- Document distribution

- Travel arrangements
- Purchasing and outsourcing

Project Experience

- Public Participation Process for the Proposed Construction of the Graskoppies On-site Eskom Substation, Linking Substation and Associated 132kV Power Line near Loeriesfontein, Northern Cape Province.
- Public Participation Process for the Proposed Construction of the Hartebeest Leegte On-site Eskom Substation, Linking Substation and Associated 132kV Power Line near Loeriesfontein, Northern Cape Province.
- Public Participation Process for the Proposed Construction of the Ithemba On-site Eskom Substation, Linking Substation and Associated 132kV Power Line near Loeriesfontein, Northern Cape Province.
- Public Participation Process for the Proposed Construction of the !Xha Boom On-site Eskom Substation, Linking Substation and Associated 132kV Power Line near Loeriesfontein, Northern Cape Province.
- Public Participation Process for the Proposed Refurbishment of the Swartberg Repeater Road near Ladysmith, Western Cape Province
- Basic Assessment (BA) for Proposed Refurbishment of the Swartberg Repeater Road near Ladysmith, Western Cape Province

Name Kerry Lianne Schwartz

Profession GIS Specialist

Name of Firm SiVEST SA (Pty) Ltd

Present Appointment Senior GIS Consultant:
Environmental Division

Years with Firm 30 Years

Date of Birth 21 October 1960

ID No. 6010210231083

Nationality South African



Professional Qualifications

BA (Geography), University of Leeds 1982

Membership to Professional Societies

South African Geomatics Council – GTc GISc 1187

Employment Record

1994 – Present SiVEST SA (Pty) Ltd - Environmental Division: GIS/Database Specialist.
1988 - 1994 SiVEST (formerly Scott Wilson Kirkpatrick): Town Planning Technician.
1984 – 1988 Development and Services Board, Pietermaritzburg: Town Planning Technician.

Language Proficiency

LANGUAGE	SPEAK	READ	WRITE
English	Fluent	Fluent	Fluent

Key Experience

Kerry is a GIS specialist with more than 20 years' experience in the application of GIS technology in various environmental, regional planning and infrastructural projects undertaken by SiVEST.

Kerry's GIS skills have been extensively utilised in projects throughout South Africa in other Southern African Countries. These projects have involved a range of GIS work, including:

- Design, compilation and management of a demographic, socio-economic, land use, environmental and infrastructural databases.
- Collection, collation and integration of data from a variety of sources for use on specific projects.
- Manipulation and interpretation of both spatial and alphanumeric data to provide meaningful inputs for a variety of projects.
- Production of thematic maps and graphics.
- Spatial analysis and 3D modelling, including visual and landscape assessments.

Projects Experience

STRATEGIC PLANNING PROJECTS

Provision of database, analysis and GIS mapping support for the following:

- Water Plan 2025: Socio-economic, Land Use and Demographic Update – Umgeni Water (KwaZulu-Natal).
- Eskom Strategic Plan – Eskom (KwaZulu-Natal).
- Umgeni Water Quality Management Plan – Department of Water Affairs and Umgeni Water (KwaZulu-Natal).
- KwaZulu-Natal Development Perspective – Department of Economic Affairs (KwaZulu-Natal).
- Indlovu Regional Integrated Plan – Department of Local Government and Housing (KwaZulu-Natal).
- Umgeni Water and Sanitation Needs Analysis – Umgeni Water (KwaZulu-Natal).
- Metro Waste Water Management Plan – Durban Waste Water management, City of Durban (KwaZulu-Natal).
- KwaZulu-Natal Electrification Prioritisation Model – Eskom (KwaZulu-Natal).
- Umzinyathi Regional Development Plan – Umzinyathi Regional Council (KwaZulu-Natal).
- GIS driven model to assess future population growth in quaternary catchments under different growth scenarios – Umgeni Water (KwaZulu-Natal).
- Ubombo Master Water Plan Study – Mhlathuze Water Board (KwaZulu-Natal).
- Development strategy for local economic development and social reconstruction of the Germiston-Daveyton Activity Corridor – Eastern Gauteng Services Council (Gauteng).
- Structure Plan for the Cities of Beira and Dondo in Mozambique – World Bank.
- Land identification study for low cost housing in the Indlovu Region – Indlovu Regional Council (KwaZulu-Natal).
- Local Development Plan for Manzini – Manzini Town Council (Swaziland).
- Indlovu Project Prioritisation Model – Indlovu Regional Council (KwaZulu-Natal).
- Structure Plans for the Cities of Ndola and Luanshya - Ministry of Local Government and Housing (Zambia).
- Database development for socio-economic and health indicators arising from Social Impact Assessments conducted for the Lesotho Highlands Development Association – Lesotho.
- Development Plan for the adjacent towns of Kasane and Kazungula - Ministry of Local Government, Land and Housing (Botswana).
- Development Plan for the rural village of Hukuntsi - Ministry of Local Government, Land and Housing (Botswana).
- Provision of data platform for the spatial analysis of water supply, demand and affordability in Bulawayo – City of Bulawayo and NORAIID (Zimbabwe).
- Integrated Development Plans for various District and Local Municipalities including:
 - Nquthu Local Municipality (KwaZulu-Natal)
 - Newcastle Local Municipality (KwaZulu-Natal)
 - Amajuba District Municipality (KwaZulu-Natal)
 - Jozini Local Municipality (KwaZulu-Natal)
 - Umhlabuyalingana Local Municipality (KwaZulu-Natal)
- uMhlathuze Rural Development Initiative – uMhlathuze Local Municipality (KwaZulu-Natal).
- Rural roads identification – uMhlathuze Local Municipality (KwaZulu-Natal).
- Mapungubwe Tourism Initiative – Development Bank (Limpopo Province).
- Northern Cape Tourism Master Plan – Department of Economic Affairs and Tourism (Northern Cape Province).

- Spatial Development Framework for Gert Sibande District Municipality (Mpumalanga) in conjunction with more detailed spatial development frameworks for the 7 Local Municipalities in the District, namely:
 - Albert Luthuli Local Municipality
 - Msukaligwa Local Municipality
 - Mkhondo Local Municipality
 - Pixley Ka Seme Local Municipality
 - Dipaleseng Local Municipality
 - Govan Mbeki Local Municipality
 - Lekwa Local Municipality
- Land Use Management Plans/Systems (LUMS) for various Local Municipalities including:
 - Nkandla Local Municipality (KwaZulu-Natal)
 - Hlabisa Local Municipality (KwaZulu-Natal)
 - uPhongolo Local Municipality (KwaZulu-Natal)
 - uMshwathi Local Municipality
- Spatial Development Framework for uMhlathuze Local Municipality (KwaZulu-Natal).
- Spatial Development Framework for Greater Clarens – Maloti-Drakensberg Transfrontier Park (Free State).
- Land use study for the Johannesburg Inner City Summit and Charter – City of Johannesburg (Gauteng).
- Port of Richards Bay Due Diligence Investigation – Transnet
- Jozini Sustainable Development Plan – Jozini Local Municipality (KwaZulu-Natal)
- Spatial Development Framework for Umhlabuyalingana Local Municipality (KwaZulu-Natal)

BUILT INFRASTRUCTURE

- EIA and EMP for a 9km railway line and water pipeline for manganese mine – Kalagadi Manganese (Northern Cape Province).
- EIA and EMP for 5x 440kV Transmission Lines between Thyspunt (proposed nuclear power station site) and several substations in the Port Elizabeth area – Eskom (Eastern Cape Province).
- Initial Scoping for the proposed 750km multi petroleum products pipeline from Durban to Gauteng/Mpumalanga – Transnet Pipelines.
- Detailed EIA for multi petroleum products pipeline from Kendall Waltloo, and from Jameson Park to Langlaagte Tanks farms –Transnet Pipelines.
- Environmental Management Plan for copper and cobalt mine (Democratic Republic of Congo).
- EIA and Agricultural Feasibility study for Miwani Sugar Mill (Kenya).
- EIAs for Concentrated Solar and Photovoltaic power plants and associated infrastructure (Northern Cape, Free State, Limpopo and North West Province).
- EIAs for Wind Farms and associated infrastructure (Northern Cape and Western Cape).
- Basic Assessments for 132kV Distribution Lines (Free State, KwaZulu-Natal, Mpumalanga and North West Province).
- Environmental Assessment for the proposed Moloto Development Corridor (Limpopo).
- Environmental Advisory Services for the Gauteng Rapid Rail Extensions Feasibility Project.
- Environmental Screening for the Strategic Logistics and Industrial Corridor Plan for Strategic Infrastructure Project 2, Durban-Free State-Gauteng Development Region.

STATE OF THE ENVIRONMENT REPORTING

- 2008 State of the Environment Report for City of Johannesburg.

- Biodiversity Assessment – City of Johannesburg.

STRATEGIC ENVIRONMENTAL ASSESSMENTS AND ENVIRONMENTAL MANAGEMENT FRAMEWORKS

- SEA for Greater Clarens – Maloti-Drakensberg Transfrontier Park (Free State).
- SEA for the Marula Region of the Kruger National Park, SANParks.
- SEA for Thanda Private Game Reserve (KwaZulu-Natal).
- SEA for KwaDukuza Local Municipality (KwaZulu-Natal).
- EMF for proposed Renishaw Estate (KwaZulu-Natal).
- EMF for Mogale City Local Municipality, Mogale City Local Municipality (Gauteng).
- SEA for Molemole Local Municipality, Capricorn District Municipality (Limpopo).
- SEA for Blouberg Local Municipality, Capricorn District Municipality (Limpopo).

WETLAND STUDIES

- Rehabilitation Planning for the Upper Klip River and Klipspruit Catchments, City of Johannesburg (Gauteng).
- Wetland assessments for various Concentrated Solar and Photovoltaic power plants and associated infrastructure (Limpopo, Northern Cape, North West Province and Western Cape).
- Wetland assessments for Wind Farms and associated infrastructure (Northern Cape and Western Cape).
- Wetland assessments for various 132kV Distribution Lines (Free State, KwaZulu-Natal, Mpumalanga and North West Province).

VISUAL IMPACT ASSESSMENTS

- VIA for the redevelopment of the Newmarket Racecourse in Alberton (Gauteng).
- VIA for the Thyspunt Transmission Lines Integration Project (Eastern Cape).
- VIA s for various Solar Power Plants (Northern Cape, Free State, Limpopo and North West Province).
- VIAs for various Wind Farms (Northern Cape and Western Cape).
- VIAs for various 132kV Distribution Lines (Free State, KwaZulu-Natal, Mpumalanga and North West Province).
- VIA for the proposed Rorqual Estate Development near Park Rynie on the South-Coast of KwaZulu-Natal Province.
- VIA for the proposed Assagay Valley Mixed Use Development (KwaZulu-Natal).
- VIA for the proposed Kassier Road North Mixed Use Development (KwaZulu-Natal).
- VIA for the proposed Tinley Manor South Banks Development (KwaZulu-Natal).
- VIA for the proposed Tinley Manor South Banks Beach Enhancement Solution, (KwaZulu-Natal).
- VIAs for the proposed Mlonzi Hotel and Golf Estate Development (Eastern Cape Province).
- VIA for the Eastside Junction Mixed-use development near Delmas (Mpumalanga).
- Visual sensitivity mapping exercise for the proposed Mogale's Gate Lodge Expansion (Gauteng).
- Analysis phase visual assessment for the proposed Renishaw Estate Environmental Management Framework in the Scottburgh Area (KwaZulu-Natal).
- Landscape Character Assessment for Mogale City Environmental Management Framework (Gauteng).

Chris Dalgliesh

Principal Consultant



Profession	Environmental Practitioner
Education	MPhil (EnvSci) with Distinction, Cape Town, 1994 BBusSc (Hons), Cape Town, 1985
Registrations/ Affiliations	Cert Envir Assessment Practitioner (South Africa) (10/2002) Member International Association of Impact Assessment Director SRK South Africa 2018 - Director SRK Investments 2011 - Director SRK Global 2013 - 2017 SRK Cape Town Managing Partner 2007 - 2015

Specialisation Environmental management consulting.

Expertise Chris Dalgliesh has been involved in environmental projects for the past 24 years. His expertise includes:

- EIA and ESIA (EMPR);
- environmental and social due diligence;
- socio-economic impact assessments;
- stakeholder engagement;
- strategic environment assessments and management plans;
- state of environment reporting;
- environmental management frameworks;
- site safety reports for the nuclear industry;
- natural resource management;
- waste management.

Employment

2000 – Present	SRK Consulting (Pty) Ltd, Director, Partner and Principal Environmental Consultant
1999 – 2000	Arcus Gibb (Pty) Ltd, Associate, Cape Town, South Africa
1996 – 1998	African Environmental Solutions (Pty) Ltd, Senior Environmental Consultant
1994 – 1996	Environmental Evaluation Unit, Environmental Consultant, UCT
1991 – 1993	Novello Music Publishers, Marketing Manager, London, UK
1988 – 1990	JR Phillips, Product Manager, Wokingham, UK
1986 – 1988	Unilever, Trade and Assistant Brand Manager, Durban, South Africa

Publications I have been interviewed and quoted in numerous environmental and sustainability articles published in the press and sector specific journals, including *Engineering News*, *Mining News*, *Business Report* and *Cape Times*, and am a frequent guest lecturer.

Languages English – read, write, speak
Afrikaans – read, write, speak
Dutch - read

Chris Dalgliesh

Principal Consultant

Environmental and Social Impact Assessment (ESIA) and Environmental Management Programmes (EMP)

- Ricocure (Pty) Ltd, EIA for Exploration Right application for Offshore Block 3B, West Coast, South Africa, 2018-ongoing, R150 000
- Sezigyn (Pty) Ltd, EIA for Exploration Right application for Offshore Mid-Orange Basin, West Coast, South Africa, 2018-ongoing, R150 000
- Rheinmetall Denel, Multi Purpose Nitration Plant EIA, Wellington, Western Cape Province, South Africa, 2018, R650, 000
- Impact Oil and Gas, Orange Deep Basin Seismic Survey EIA, Offshore West Coast, South Africa, 2017, R600,000
- AES, Bengo Landfill EIA, Angola, 2017, US\$80,000
- Sungu Sungu Oil (Pty) Ltd, Pletmos Basin EIA, Offshore Southern Cape, South Africa, 2017, R525,000
- City of Cape Town, Vissershok North Landfill Waste Management Licence, Cape Town, Western Cape Province, 2016 – ongoing, R750,000
- Mineral Sand Resources, Tormin Mine EIA, Lutzville, Western Cape Province, 2016 – ongoing R1,250,000
- Department of Agriculture, Forestry and Fisheries, Project Definition and EIA for a proposed Aquaculture Development Zone in Saldanha Bay, Western Cape, 2016 – ongoing, R1,000,000
- Easigas, EIA for LNG Plant, Mossel Bay, Western Cape Province, South Africa, 2016 – ongoing, R600,000
- Gyproc St Gobain, EMP for gypsum mine, Vanrhynsdorp, Western Cape Province, South Africa, 2016, R125,000
- Tronox Namakwa Sands, EIA for new slimes dam, Brand se Baai, Western Cape Province, South Africa, 2015 – ongoing, R900,000
- The River Club, EIA for redevelopment of the property, Cape Town, Western Cape Province, South Africa, 2015 – ongoing, R1 500,000
- SIMO Petroleum Ltd, ESIA for fuel supply project, Guinea, 2015, US\$200,000
- SIMO Petroleum Ltd, EIA for fuel supply project, Liberia, 2015, US\$200,000
- Eskom, EIA for Transient Interim Storage Facility, Western Cape, South Africa, 2015 – ongoing, R900,000
- Falcon Oil & Gas, Environment Management Programme Report (EMPr) update and engagement, Western, Northern and Eastern Cape, South Africa, 2014 – 2015, US\$90,000
- Department of Environmental Affairs (DEA), Waste Management Licence applications and Basic Assessment for 20 waste facilities, Western Cape, South Africa, 2014 – 2015, R2,600,000
- Sable Mining / West Africa Explorations (WAE), Cumulative Impact Assessment (CIA) for WAE's Nimba iron ore mine, Guinea, May 2014 – on hold, US\$90,000
- De Beers Buffalo Camp, Basic Assessment and EMP Amendment, Kimberley, Northern Cape, 2014, R260,000
- EFG Engineers, EIA for Hermanus bypass road, Western Cape Province, South Africa, 2014 – 2017, R1,200,000
- SRK Turkey, CIA of Copler gold mine, Turkey, 2014, US\$30,000
- Sable Mining Africa Ltd, ESIA for railway line and port expansion, Liberia, 2014, US\$480,000

Chris Dalgliesh

Principal Consultant

- Tronox Namakwa Sands, EIA for abalone farm, Brand se Baai, Western Cape Province, South Africa, 2014 – ongoing, R1,050,000
- Matzikamma Municipality, EIAs for three abalone farms, Doringbaai, Western Cape Province, South Africa, 2014 – ongoing, R1,100,000
- De Beers, EMPr amendment for fine residue pond, Kimberley, South Africa, 2013, R120,000
- AES, ESIA of landfill, Soyo, Angola, 2013, US\$70,000
- PetroSA, EIA of offshore gasfield, Southern Cape, South Africa, 2013 – ongoing, R500,000
- EnergieBedrijven Suriname, ESIA for new power plant, Suriname, 2013, US\$135,000
- AES, ESIA of Thermal Desorption Unit, Soyo, Angola, 2013, US\$65,000
- Staatsolie Maatschappij Suriname, Rapid EIA of power plant expansion, Suriname, September 2012 – 2014, US\$100,000
- BP, ESIA of Blocks 18 & 31 Drilling and Seismic Survey, Angola, 2012, US\$40,000
- Frontier, EIA for desalination plant and water pipeline, Abraham Villiers Bay, Northern Cape, South Africa, August 2012 – ongoing, R1,250,000
- Tronox Namakwa Sands, EIA /EMPr for two mining application areas, Namakwaland, Western Cape Province, South Africa, 2012 – ongoing, R1,250,000
- Airports Company South Africa, EIA of realignment of runway, Cape Town International Airport, Western Cape, South Africa, R3,175,000
- Grindrod Mauritius, EIA of Matola Coal Terminal Phase 4 Expansion, Maputo, Mozambique, 2012 - 2013, US\$425,000
- Maersk, ESIA of Block 16 Seismic Survey, Angola, 2010 – 2011, US\$25,000
- Staatsolie Maatschappij Suriname, EIA for diesel, gasoline and LGP pipelines, Suriname, October 2011 – 2013, US\$120,000
- Premier Fishing, EIA for re-establishment of fishmeal plant, Saldanha Bay, South Africa, May 2011 – 2015, R1,200,000
- Eni Angola BV, ESIA of development of Block 15/06 West Hub oil fields, Angola, 2011 - 2013, US\$110,000
- Falcon Oil & Gas, EMPr, Western, Northern and Eastern Cape, South Africa, 2010 – 2011, US\$100,000
- Great Western Minerals Group, EIA and EMPr of rare earth mine, Vanrhynsdorp, Western Cape, South Africa, 2010 – 2012, R1,760,000
- Vale, ESIA of phosphate mine, Nampula Province, Mozambique, 2010 – 2013, US\$630,000
- Sonangol Lda, EIA (x6) of onshore hydrocarbon facilities, Luanda, Malange and Lubango, Angola, March – November 2010, US\$280,000
- Empresa Moçambicana de hidrocarbonetos and Buzi Hydrocarbons Pty Ltd, ESIA for seismic surveys and exploration drilling in Buzi Block, Sofala Province, Mozambique, 2009 – 2010, US\$200,000
- Staatsolie, ESIA of refinery expansion, Paramaribo, South America, 2009 – 2010, US\$400,000
- Sasol Technology, EIA for proposed new gas pipeline from Ressano Garcia to Moamba, Mozambique, Moamba, Mozambique, 2009 – 2010, R1,000,000
- Anglo American, State of Environment Report, Strategic Environment Assessment, and ESIA of Gamsberg zinc mine, Aggeneys, South Africa, 2008 – 2010, R13,000,000

Chris Dalgliesh

Principal Consultant

- CIC Energy, Environmental screening and fatal flaw assessment of Trans Kalahari Railroad and port, Botswana and Namibia, 2008 – present, R1,300,000
- BHP Billiton, ESIA of Corantijn River dredging, Suriname, 2007 – 2008, US\$750,000
- BHP Billiton, ESIA of Bakhuis transport project, Suriname, 2006 – 2008, US\$1,600,000
- Altona Developments, EIA of mixed development, Worcester, Western Cape Province, South Africa, 2006 – 2010, R750,000
- BHP Billiton, ESIA of Bakhuis bauxite mine, Suriname, 2005 – 2008, US\$3,200,000
- Levendal Developments (Pty) Ltd, EIA of mixed development, Suider-Paarl, Western Cape Province, South Africa, 2005 – 2008, R450,000
- Bevcan, Angola, EIA of canning facility, Viana, Angola, 2005 -2010, US\$75,000
- Chevron Texaco, EIA of landfill, Cabinda, Angola, 2004 – 2005, US\$90,000
- Attpower Developments (Pty) Ltd, EIA of mixed coastal development, Mossel Bay, Western Cape Province, South Africa, 2004, R600,000
- Intels Services Luanda, EIA of landfill, Cacuaco, Angola, 2004, US\$65,000
- Kwezi V3, EIA of waste water treatment works, Gansbaai, Western Cape Province, South Africa, 2003 – 2005, R350,000
- City of Cape Town, EIA of Fisantekraal waste water treatment works, Cape Town, Western Cape Province, South Africa, 2003 – 2004, R450,000
- St Francis Bay Municipality, EIA of beach remediation, St. Francis Bay, Eastern Cape Province, South Africa, 2002 – 2003, R300,000
- City of Cape Town, Environmental Impact Control Report of Vissershok North landfill, Western Cape Province, South Africa, 2001 – 2004, R175,000
- NDC, EMPr for NDC diamond mine, Vredendal district, Western Cape Province, South Africa, 2001 – 2003, R800,000
- Coega Development Corporation, EIA for rezoning, Eastern Cape Province, South Africa, 1999, R85,000
- BHP Billiton, EIA (Scoping) of Alusaf Hillside smelter, Richards Bay, KwaZulu-Natal Province, South Africa, 1999, R150,000
- Gencor, EIA of zinc refinery and phosphoric acid plant, Port Elizabeth, Eastern Cape Province, South Africa, 1995 – 1998, R800,000
- Duferco, EIA of steel rolling mini-mill, Saldanha, Western Cape Province, South Africa, 1997, R90,000
- Hoechst, EIA of polymer extension, Durban, KwaZulu-Natal Province, South Africa, 1993 – 1994, R280,000

Environmental Planning and Natural Resource Management

- Tronox Mineral Sands (Pty) Ltd, renewal of the Atmospheric Emission Licence for the Namakwa Sands UMM Plant, Brand-se-Baai, Western Cape, 2018-ongoing, R320 000
- Tronox Mineral Sands (Pty) Ltd, renewal of the Atmospheric Emission Licence for the Namakwa Sands Mineral Separation Plant, Koekenaap, Western Cape, 2018-ongoing, R290 000
- Tronox Mineral Sands (Pty) Ltd, renewal and variation of the Atmospheric Emission Licence for the Namakwa Sands Smelter Plant, Saldanha, Western Cape, 2018-ongoing, R300 000
- Kudumane Manganese Resources, EMP Amendment for KMR Manganese Mine, Hotazel, Northern Cape, 2017 – ongoing, R170 000

Chris Dalgliesh

Principal Consultant

- Eskom, Ecological Reports, Duynefontyn and Thyspunt, Nuclear Site Safety Reports Update, South Africa, 2017 – present, R800,000
- DEA&DP, Western Cape State of Environmental Report, 2017, R1,700,000
- Tronox Namakwa Sands, Development of Closure Commitments and Rehabilitation Monitoring Plan Namakwaland, Western Cape Province, South Africa, 2015 – ongoing, R600,000
- West Coast District Municipality, Integrated Coastal Management Plan, West Coast, South Africa, 2012 – 2013, R700,000
- City of Cape Town, Environmental Management Framework and control zones, Cape Town, Western Cape Province, South Africa, 2008 – 2009, R600,000
- Eskom, Ecological Reports, Koeberg, Bantamsklip and Thyspunt, South Africa, 2008 – 2013, R900,000
- City of Cape Town, Environmental Management Framework and control zones, Cape Town, Western Cape Province, South Africa, 2008, R500,000
- Knysna Municipality, State of Environmental Report, Western Cape Province, South Africa, 2004 – 2005, R130,000
- DEA&DP, Western Cape State of Environmental Report, 2004 – 2005, R1,400,000

Environmental and Social Review and Due Diligence

- Kropz, Environmental and Social Due Diligence for Competent Persons' Report, Elandsfontein mine, Langebaan, South Africa, 2018, R130,000
- Standard Bank South Africa Limited, Environmental and Social Due Diligence and Environmental and Social Action Plan (ESAP) for Caculo Cabaca Hydropower Dam, Angola, 2017, \$23 000
- Voith Hydro, Zenzo Hydroelectric Project Gap Analysis and Environmental and Social Action Plan, Angola, 2017, €30 000
- Voith Hydro, Koyssha Hydroelectric Project Gap Analysis, Ethiopia, 2017, €15 000
- AES, Cacucaco Landfill Environmental Compliance Audit, Luanda, Angola, 2017, US\$17,500
- Industrial and Commercial Bank of China, Environmental and Social Due Diligence and Environmental and Social Action Plan (ESAP), and Annual Compliance Audits for Caculo Cabaca Hydropower Dam, Angola, 2016-2017, \$31 000
- Deutsche Bank, Environmental and Social Due Diligence and Annual Review of Be'er Tuvia Combined Cycle Gas Turbine Power Plant, Israel, 2016 – 2021, €150 000
- Confidential, Environmental and Social Gap Analysis of Caculo Cabaca Hydropower Dam, Angola, 2016, €20 000
- BNP Paribas, Environmental and Social Due Diligence of Elandsfontein mine, Langebaan, South Africa, 2015, R60,000
- Tronox Namakwa Sands, Water Use Licence Audit(s), Namakwaland, Western Cape Province, South Africa, 2015 and 2014, R175,000 (x2)
- Tronox Namakwa Sands, EMPr Performance Assessment, Namakwaland, Western Cape Province, South Africa, 2014, R175,000
- Deutsche Bank, Environmental and Social Due Diligence and Annual Review of Lauca Hydropower Dam, Angola, 2014 – 2018, €300 000
- West Africa Exploration Ltd, Environment and social gap analysis of Nimba iron ore mine, Guinea, 2014, US\$80,000

Chris Dalgliesh

Principal Consultant

- HSBC, Environmental and Social Due Diligence and Annual Review, Cambambe Hydropower Dam, Angola, 2013 – 2017, €255,000
- Tronox Namakwa Sands, EMPr Performance Assessment, Namakwaland, Western Cape Province, South Africa, 2012 – 2013, R150,000
- Biovac, Environmental due diligence audit of pharmaceutical plant, Cape Town, Western Cape Province, South Africa, 2012, R100,000
- SRK UK, Environmental Due Diligence of phosphate mine, Brazil, 2010, US\$15,000
- SRK Russia, Environmental Due Diligence of Rossing South uranium mine, Namibia, 2009, US\$12,000
- SonaGas, EIA external review of LNG plant EIA, Soyo, Angola, 2006, US\$50,000
- Confidential, Environmental Due Diligence, Cape Town, Western Cape Province, South Africa, 2004, R80,000
- Netherlands Commission for EIA, External EIA review of Mavoco hazardous landfill EIA, Maputo, Mozambique, 2002, R30,000

Management Plans

- West Africa Exploration Ltd, Stakeholder Engagement Plan, Guinea, 2014, US\$15,000
- West Africa Exploration Ltd, Biodiversity Action Plan, Guinea, 2014, US\$20,000
- Tronox Namakwa Sands, Integrated Water and Waste Management Plan for Namakwa Sands mine, Namakwaland, Western Cape Province, South Africa, 2013 – 2014, R125,000
- Tronox Namakwa Sands, Integrated Water and Waste Management Plan for Namakwa Sands Smelter, Saldanha Bay, Western Cape Province, South Africa, 2013, R110,000
- BHP Billiton, Conceptual Closure and Rehabilitation Plan, Suriname, 2007 – 2013, US\$210,000
- Namakwa Sands, Closure Plan, Namakwaland, Northern Cape Province, South Africa, 2003, R170,000

Socio Economic Impact Assessments

- Allied Gold Corp, Economic specialist study for the Dish Mountain Gold Project, Ethiopia, 2018 – ongoing, \$11 000
- Joule Africa, Initial Environmental and Social Assessment of the KPEP Hydropower Project, Cameroon, 2018 – ongoing, \$10,800
- Anglo Gold Ashanti, Economic Baseline Report for Siguiri Gold Mine, Guinea, 2018, R130 000
- Pam Golding / Pennyroyal (Gibraltar) Ltd., Economics benefits analysis of Amber Resort Development, Zanzibar, Tanzania, 2017, R300 000
- RSK, EACOP Pipeline Economic Study, Uganda and Tanzania, 2017, \$ 40,000
- SRK UK, Sintoukola Potash Mine Economic Impact Assessment, Republic of Congo, 2012, \$30,000
- Staatsolie Maatschappij Suriname, Refinery Expansion Community Relations Plan, Suriname, 2011, \$120,000
- SRK UK, Reko Diq Phosphate Mine Review of Economic Impact Assessment, Pakistan, 2010, \$7,500
- DEADP, Western Cape State of the Environment Report Economic Study, 2004, R40,000

Scott Masson

Visual Specialist



Profession	Senior Environmental Consultant
Education	MLA, L. Arch, Cape Town, 2008 BSc (Hons), Environmental Management, Cape Town, 2004 BSc, Environmental Management, Cape Town, 2003
Registrations/ Affiliations	Certified Environment Assessment Practitioner (South Africa)

Specialisation Visual impact assessment (VIA), environmental impact assessment, environmental planning and site sensitivity studies

Expertise Scott has been involved in the field of environmental and landscape architecture for the past 9 years. His expertise includes:

- Environmental impact assessments and environmental management plans;
- Visual impact assessments;
- Integrated waste and water management plans;
- Environmental audits and due diligence;
- Environmental control officer work;
- Environmental planning and sensitivity studies; and
- Landscape architectural planning and design.

Employment

2011 – present	SRK Consulting (Pty) Ltd, Environmental Consultant, Cape Town
2009 – 2011	Megan Anderson Landscape Architects, Candidate Landscape Architect

Publications I have been interviewed and quoted in numerous environmental and sustainability articles published in the press and sector specific journals including *Civil Engineering Contractor*, *Position IT*, *Cape Business News* and *To Build*.

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

Scott Masson

Visual Specialist

Visual Impact Assessment

- VIA for Molteno Wind Energy Facility near Queenstown, Eastern Cape, 2018, R139 000
- Anglo American Platinum, Visual Impact Statement for the Der Brochen Mine Expansion project, 2018, R30 000
- Lions Hill Development Company, VIA for the EA Amendment Application for the proposed Lions Hill Development, 2018, R70 000
- Lions Hill Development Company, Expert review of the VIA for the proposed Lions Hill Development (2017), 2018, R 9 000
- CSIR, Expert review of the Visual Resources Chapter of the Strategic Environmental Assessment for Electrical Grid Infrastructure in South Africa, 2018, R 5000
- CSIR, Expert review of the Visual Resources Chapter of the Strategic Environmental Assessment for Aquaculture in South Africa, 2017
- Eskom, VIA for the proposed 66/132 kV Romansrivier – Ceres powerline, 2017, R70 000
- CSIR, VIA for two wind energy facilities in the Greater Accra District, Ghana, 2016-2017, R100 000
- Mineral Sands Resources (Pty) Ltd, VIA for the extension of Tormin Mine, Western Cape, 2016-ongoing, R100 000
- Tronox Mineral Sands (Pty) Ltd, VIA for the Slimes Dam 6 at Tronox Namakwa Sands Mine, Western Cape, 2016, R30 000
- Department of Forestry, Fisheries and Agriculture, VIA for a proposed Aquaculture Development Zone in Saldanha Bay, Western Cape, 2016, R50 000
- Matzikama Municipality, VIA for the proposed construction of four abalone farms in Doringbaai, Western Cape, 2015 - 2016
- Eskom, VIA for the proposed Merino substation and Bon-Chretien-Merino powerline in Ceres, Western Cape, 2016-ongoing
- Transnet Capital Projects, VIA for the construction of additional substations, transmission infrastructures and area lighting masts near the Port of Saldanha, Western Cape, 2015-2017, R40 000
- EFG Engineers, VIA for the proposed bypass road in Hermanus, Western Cape, 2015-2016, R49 000
- Liesbeek Leisure Club (Pty) Ltd, VIA for the proposed redevelopment of the River Club, Western Cape, 2015-2017, R55 000
- Eskom, VIA for the proposed TISF at Koeberg, Western Cape, 2015-2016, R42 000
- Tronox Mineral Sands (Pty) Ltd, VIA for the proposed expansion of the Namakwa Sands Mine, Brandse-Baai, Western Cape, 2012-2013, R46 000
- Vale, VIA for a proposed phosphate mine in Mozambique, 2011-2012, R100 000

Scott Masson

Visual Specialist

- Courtrai Developments, VIA for a proposed retirement village in Paarl, 2011, R35 000
- CSIR Environmental, VIA for an EIA proposal for four wind energy facilities, Swellendam, Mossel Bay, Heidelberg and Albertinia, Western Cape, 2010, R100 000
- CSIR Environmental, VIA for a proposed eco-residential estate and nature reserve, Jacobsbaai, Western Cape, 2010, R25 000
- Vodacom, VIA for a proposed cell phone mast at Hermanus golf course, on Graymead farm near Villiersdorp and on a farm in Klipdale, 2009, R30 000

IRIS SIGRID WINK



Profession	Civil Engineer (Traffic & Transportation)
Position in Firm	Associate
Area of Specialisation	Manager: Traffic & Transportation Engineering
Qualifications	PrEng, MSc Eng (Civil & Transportation)
Years of Experience	16 Years
Years with Firm	6 Years

SUMMARY OF EXPERIENCE

Iris is a Professional Engineer registered with ECSA (20110156). She joined JG Afrika (Pty) Ltd. in 2012. Iris obtained a Master of Science degree in Civil Engineering in Germany and has more than 16 years of experience in a wide field of traffic and transport engineering projects. Iris left Germany in 2003 and has worked as a traffic and transport engineer in South Africa and Germany. She has technical and professional skills in traffic impact studies, public transport planning, non-motorised transport planning and design, design and development of transport systems, project planning and implementation for residential, commercial and industrial projects and providing conceptual designs for the abovementioned. She has also been involved with transport assessments for renewable energy projects and traffic safety audits.

Iris is registered with the International Road Federation as a Global Road Safety Audit Team Leader.

PROFESSIONAL REGISTRATIONS & INSTITUTE MEMBERSHIPS

- PrEng** - Registered with the Engineering Council of South Africa No. 20110156
Registered Mentor with ECSA for the Cape Town Office of JG Afrika
- MSAICE** - Member of the South African Institution of Civil Engineers
- ITSSA** - Member of ITS SA (Intelligent Transport Systems South Africa)
- SAWEA** - Member of the South African Wind Energy Association
- SARF** - South African Road Federation: Committee Member of Council
- SARF WR** - South African Road Federation Western Region Committee Member
- SARF WR** - Managing the Road Safety Committee
- IRF** - Registered as International Road Safety Audit Team Leader

EDUCATION

- 1996 - Matric** – Matric (Abitur) – Carl Friedrich Gauss Schule, Hemmingen, Germany
- 1998 - Diploma** as Draughtsperson – Lower Saxonian State Office for Road and Bridge Engineering
- 2003 - MSc Eng** (Civil and Transportation) – Leibniz Technical University of Hanover, Germany

SPECIFIC EXPERIENCE

JG Afrika (Pty) Ltd (Previously Jeffares & Green (Pty) Ltd)

2016 – Date

Position – Associate

Traffic Risk Assessment for Legoko Solarfarms, Client: Atlantic Renewable Energy Partners (Pty) Ltd

Road Safety Audits for N2 Wildcoast Toll Roads, Eastern Cape/Natal, Client: Aurecon/Knight Piesold on behalf of SANRAL

Traffic Risk Studies for the Kuruman Windfarm (450MW) in the Northern Cape, Client: CSIR on behalf of Mulilo

Beau Constantia and Constantia Glen Winefarms – Detailed Access Design, Client: private

Road Safety Audit for N1 Section 16 Winburg to Ventersburg – Client: Aurecon on behalf of SANRAL

Road Safety Audit for N2 Section 20 Wild Coast Toll Road Project – Client: Knight Piesold & Aurecon on behalf of SANRAL

Road Safety Audit Appraisals on roads in the Mpumalanga Province for the Department of Transport Mpumalanga - Client: AFRISA on behalf of DoT Mpumalanga

Traffic and Parking Audits for the Suburb of Groenvallei in Cape Town – Client: City of Cape Town Department of Property Management.

Road Safety Audit for the Upgrade of N1 Section 4 Monument River – Client: Aurecon on behalf of SANRAL

Road Safety Audit for the Upgrade of N2 Section 8 Knysna to Wittedrift – Client: SMEC on behalf of SANRAL

Road Safety Audit for the Upgrade of N1 Section 16 Zandkraal to Winburg South – Client: SMEC on behalf of SANRAL

Traffic and Road Safety Studies for the Improvement of N7 Section 2 and Section 3 (Rooidraai and Piekenierskloof pass) – Client: SANRAL

Road Safety Appraisals for Northern Region of Cape Town – Client: Aurecon on behalf of City of Cape Town (TCT)

Traffic Engineering Services for the Enkanini Informal Settlement, Kayamandi - Client: Stellenbosch Municipality

Lead Traffic Engineer for the Upgrade of a 150km Section of the National Route N2 from Kangelala to Pongola in KwaZulu-Natal, Client: SANRAL

Traffic Engineering Services for the Kosovo Informal Settlement (which is part of the Southern Corridor Upgrade Programme), Client: Western Cape Government

Traffic and Road Safety Studies for the proposed Kosovo Informal Housing Development (part of the Southern Corridor Upgrade Program), Client: Western Cape Government.

Road Safety Audit Stage 3 – Upgrade of the R573 Section 2 between Mpumalanga/Gauteng and Mpumalanga/Limpopo, Client: AECOM on behalf of SANRAL

Road Safety Audit Stage 1 and 3 – Upgrade of the N2 Section 5 between Lizmore and Heidelberg, Client: Aurecon on behalf of SANRAL

Traffic Safety Studies for Roads Upgrades in Cofimvaba, Eastern Cape – Client: Cofimvaba Municipality

Road Safety Audit Stage 1 and 3 – Improvement of Intersections between Olifantshoek and Kathu, Northern Cape, Client: Nadeson/Gibb on behalf of SANRAL

Road Safety Audit Stage 3 – Upgrade of the Beacon Way Intersection on the N2 at Plettenberg Bay, Client: AECOM on behalf of SANRAL

Traffic Impact Assessment for a proposed Primary School at Die Bos in Strand, Somerset West, Client: Edifice Consulting Engineers

Road Safety Audit Stage 1 and 3 – Improvement of R75 between Port Elizabeth and Uitenhage, Eastern Cape, Client: SMEC on behalf of SANRAL

Road Safety Audit Stage 1 and 3 – Upgrade of the N2 between Heidelberg and Riversdale, Western Cape, Client: Aurecon on behalf of SANRAL

Traffic Impact Assessment and Site Safety Studies for the Extension of the Farewell King Site in the Durban Container Terminal, Client: Vopak

Road Safety Audit Stage 1 and 3 – Pedestrian Facilities at De Doorns on National Route 1 Section 3, Client: Aurecon on behalf of SANRAL

Road Safety Audit Stage 1 - Upgrade of the R63 Section 13 between Fort Beaufort and Alice, Client V3 Consulting on behalf of SANRAL

Traffic and Pedestrian Safety Studies for the Upgrade of the R63 Section 13 between Fort Beaufort and Alice, Client: V3 Consulting on behalf of SANRAL

Traffic Impact Assessment for the Crawford Campus of the College of Cape Town, Client: College of Cape Town

JG Afrika (Pty) Ltd (Previously Jeffares & Green (Pty) Ltd)

2012 – 2016

Position – Senior Traffic & Transportation Engineer

Traffic Impact Study for the Campsdrift Msunduzi Waterfront Housing Development, Pietermaritzburg, Client: Private

N2 Section 19 – **Traffic and Pedestrian Safety Studies** as part of the upgrading project, Mthatha to Qumbu, Eastern Cape, Client: UWP on behalf of SANRAL

Bloemsmond Solarfarms – **Transport Impact Assessment** for two solarfarms close to Upington in the Northern Cape, Client: Atlantic Energy Partners

Scatec Solarfarms – **Detailed design of access roads** for three solarfarms close to Upington, Client: Scatec Solar

Gravel Roads Upgrade for Fezile Dabi District, Free State, **Traffic Impact Investigation**, Client: Free State Province

R63 Rehabilitation between Alice and King Williams Town – **Traffic & NMT Study** for several intersections and accesses along this 60km long road in regards to pedestrian safety, Client: SANRAL

Zambia RD Rehabilitation – **Traffic Study and Advice** for the Rehabilitation of a 320km stretch of road in Zambia, Client: Government of Zambia

N2 Caledon to Riviersonderend – **Traffic and NMT safety audit** as part of the N2 Upgrade between Caledon and Riviersonderend, Client: SANRAL

MR529 Rehabilitation, Western Cape - **Conceptual designs for possible upgrades** to the intersections of the R27 and Voortrekker Street in Veldrift and the intersection of MR527 and MR529 close to Piketberg. Client: Western Cape Government (WCG)

SANRAL R61 Rehabilitation, Eastern Cape – **Traffic input into upgrading** requirements regarding NMT and public transport facilities, such as sidewalks, pedestrian bridges, taxi/bus stops. Client: SANRAL

Delft Housing Development – **Conceptual Planning of the Site Development Plan and Transport Impact Assessment** for a 700-residential unit development, Client: Onke Consulting

Nyanga Public Transport Node – **Traffic Study including Non-motorised Transport (NMT) and Public Transport Planning** as part of the Upgrade of the Nyanga Public Transport Node and surrounding area, Client: City of Cape Town

Durban RoRo Terminal Capacity Expansion – **Traffic Management Plan and Transport Impact Assessment** for the Expansion of Transnet’s RoRo Terminal in the Durban Port, Client: Transnet Capital Projects

Transnet Traffic Management Plan – **Traffic Management Plan and Impact Assessment** for the Resurfacing of the Transnet Park Site in Port Elizabeth, Client: Transnet

Mthatha Landfill Site – **Traffic Impact Assessment** for the Development of a landfill site at Mthatha, Eastern Cape, Client: PASCO Waste & Environmental

Bellville Medical Centre, Bellville CBD – **Transport Impact Assessment** for the development of an educational medical facility for 2000 nursing students. Client: University of the Western Cape

Bloekombos District Hospital, Joostenberg – **Transport Impact Assessment** for the proposed development of a 300-room hospital and ambulant station including circulation of emergency vehicles, parking, access assessments, etc. Client: Western Cape Government

Stellenbosch School Precinct – **Transport Advice regarding improving traffic** operation of several intersections along Strand Street (R44), Van Rheede Street and Doornbosch Street including **assessment of accessibility**, possible pedestrian links between schools, recommendations on intersection upgrades and signal timing plans. Client: Stellenbosch Municipality

Secunda **Traffic Signals**, Mpumalanga - Investigating all signalized intersections in Secunda including site visits, capturing and analyzing intersections and establishing the timing plans and upgrades needs for SASOL Secunda. Client: SASOL

Transport Risk Assessments for Wind Farms, Western Cape - Conducting the transport risk assessments for the Trouberg, Bakenskop and Harpuisberg sites for Windlab including route assessments, abnormal load investigations and recommendation regarding port of entry and permits. Client: Windlab

Transport Risk Assessment for seven Solar Farms in the Western Cape - Conducting the route assessment including all relevant transportation matters for proposed sites close to De Doorns, Wolseley, Eendekuil, Riebeek Kasteel, McGregor, Bonnievale and Klipheuwel. Client: Sunspot

Traffic Impact Study for the Hintsabe Project, Eastern Cape - Conducting the traffic impact study for the Hintsabe Peddie mixed land use development close to East London. Client: GIBB Consulting / Eastern Cape Development Corporation (ECDC)

Bardale Village Phase 7, Western Cape - **Traffic engineering input** into the Site Development Plan including all key issues, such as accommodation of Public Transport and Non-motorised Transport services and facilities, among others. Client: Integrated Housing Development

Traffic Impact Study for Malabar Ext.6, Eastern Cape - Conducting the traffic impact study for the mixed land use development Malabar Extension 6 in Port Elizabeth including all transportation key Client: Nelson Mandela Bay Municipality (NMBM)

Traffic and Transportation Advice, Hiddingh Campus UCT, Cape Town - Traffic engineering advice for the revamp of the Hiddingh Campus of the University of Cape Town, Gardens. Client: University of Cape Town (UCT)

Transport Study for Industrial Development, Joostenberg Vlakte - Conducting transport study including capacity analyses, access management and input into SDP. Client: ASLA Developments

TR28/1 Dualing, Hermanus - Traffic signals and timing for several intersections along TR28/1. Client: WCG

Arup (Pty) Ltd

2012

Position – Senior Traffic & Transportation Engineer (from 2010)

Inner City Transport Plan for the City of Cape Town (CoCT) - Preparation of an **Inner City Transport Plan** creating a framework to allow stakeholders to understand priorities and process of the CoCT. Client: CoCT

Transport Assessments and Reviews for Renewable Energy Projects - Conducting transport assessments and reviews for a wide range of wind farm, solar and CSP farm projects in the Eastern, Northern and Western Cape, such as Renosterberg, Coega, St Helena Bay and Boschfontein. Clients: various

2006 – 2012

Position – Leading Traffic & Transportation Engineer

Eikestad Urban Renewal, Stellenbosch - Leading traffic engineer for Eikestad Urban Renewal responsible for all **traffic related matters** concerning this project including conducting the **traffic impact study**, input and assistance in ramp designs, access and parking layouts, upgrades of surrounding roads, implementation of improved NMT facilities, delivery management plans, design of loading areas, intermediate between client and municipality, etc. Client: Eikestad (Pty) Ltd

2004 – 2012

Position – Traffic & Transportation Engineer

Wide range of **Traffic Studies** in South Africa - Conducted a wide range of studies for projects in the Western Cape as well as Johannesburg, Pretoria and Mauritius including trip generation, trip distribution, traffic analyses, queuing analysis, ramp design calculations, conceptual designs and recommendations, such as Rosebank Gardens, Rosebank Mall, Ferndale Erf 389. Client: various

2009 – 2011

Position – Traffic & Transportation Engineer

Central Park Business Development, Vergenoegd Farm, Somerset West - **Traffic Study and traffic engineering advice** for the development of Farm 653/15, Vergenoegd for business purposes, including access control, advise in public transport and Non-motorised transport facilities, conceptual designs of the recommended upgrades of the surrounding road network as well as input into the EIA. Client: Urban Dynamics Western Cape (UDWC)

Gaborone NMT Facilities, Botswana - **Conceptual design of cycle and pedestrian facilities** as well as preparing the schedule of quantities Client: Gaborone City Council.

2008 – 2009

Position – Traffic & Transportation Engineer

West Coast IRT Corridor: NMT Integration, South Africa - **Development of conceptual designs of the non-motorised transport** components along the link roads within a 500m radius from the proposed IRT stations (Paarden Eiland, Milnerton, Tableview). Client: CoCT

DFA Campus, Tshwane - **Design and coordination of traffic signals** of existing intersections and the new access to the development along Soutpansberg Road as part of the new Department of Foreign Affairs (DFA) Head Office. Client: DFA

K29 Cosmo City, Johannesburg - **Design and coordination of signal timing plans** for the intersections of Hans Strijdom Road / Access Road A4 and Hans Strijdom Road / South Africa Drive. Client: City of Johannesburg

Traffic Signal Design, Cape Town - Detailed calculation of timing plans for signalized intersections including legal aspects, warranties, etc. for several projects around Cape Town. Client: various

2005 – 2008

Position – Graduate Traffic & Transportation Engineer

Klipfontein Corridor, Cape Town - **Traffic capacity analyses of intersections** with aaSIDRA software and assisting in establishing a model of the Klipfontein Corridor Spine with SATURN, conducting travel time surveys. Client: CoCT

Traffic Impact Review and Parking Assessment, Grand West Casino Extension, Cape Town - Reviewing the external traffic situation and impact by the development traffic for the extension of the Grand West Casino & Entertainment World, Cape Town. Parking assessment and review of internal traffic situation. Client: Grand West Casino

Presentation of RAIL CPTR Information for the City of Cape Town - Updating of the CPTR (Current Public Transport Record) information of the rail network for the City of Cape Town; sourcing all required data and studies; responsible for implementing the City of Cape Town rail network in electronic format. Client: CoCT

Schmidt Ingenieurbüro, Hanover, Germany

2000

Position – Engineering Assistant

Research, consultation and investigation of legal matters for several projects in line with the VOB/B (German Law of Construction Services). Clients: various

Leibniz University of Hanover, Germany (Institutes for Road & Railway Engineering)

2000

Position – Engineering Assistant

Upgrading of the B6 Expressway in Hanover, NLStb - **Conceptual designs for the bridge construction** at an intersection in Hanover/Garbsen. Client: Lower Saxonian State Office

2000 - 2003

Position – Scientific Research Assistant

Simulation of Railway Operations in the European Rail Network - Illustration of infrastructure costs, research of the circumference of facilities of the track support layer work and analyzing the feasibility of different extensive databases. Client: Deutsche Bahn (German Railway Company)

Technical University of Berlin & German Railroad Company (Die Bahn), Germany

2003

Position – Scientific Research Assistant, Master Thesis

Investigation of the allocation of access rights to the European rail network infrastructure - Research of the feasibility of the different bidding processes to allocate access rights of railway operators in the European railway market. Client: Technical University of Berlin and German Railway Company.

CONTINUED PROFESSIONAL DEVELOPMENT

Courses

2006 - Highway Capacity Analysis (SARF)

2006 - Management of Transport Supply and Demand (UCT)

- 2007 - Traffic Signal Design (SARF)
- 2008 - Preparation of Contract Documentation (SARF)
- 2008 - Traffic Calming and Road Safety (SARF)
- 2009 - Geometric Design of Urban and Rural Roads (SARF)
- 2009 - Non-motorised Transport (SARF)
- 2010 - An IRT System for Cape Town (SARF)
- 2010 - HCM 2010 Seminar (SAICE)
- 2010 - SADC Road Traffic Signs Manual (SARF)
- 2010 - ITS Workshop (ITS SA)
- 2010 - Road Marking (SARF)
- 2010 - Public Transport Options (SARF)
- 2011 - EIA for Roads in South Africa (SARF)
- 2011 - Transport Demand and Supply (UCT)
- 2012 - BRT Lessons Learnt (SARF)
- 2012 - Handling Projects in a Consulting Engineering Practise (CESA/SAICE)
- 2013 - Optimizing Intersections (SARF)
- 2013 - Winning Tenders (CESA)
- 2013 - Transport Logistics: Wind Turbines (SARF)
- 2014 - Traffic Safety Officer & Roads Audit Course (SARF)
- 2014 - Traffic Signal Optimization (SARF)
- 2015 - Road Safety Auditor Course (SARF)
- 2015 - Non-motorised Transport Planning (SARF)
- 2016 - SATC Road Safety Audit Workshop Pretoria (SARF)
- 2018 – Road Safety in Engineering (SARF)
- 2018 – IRF/SARF/PIARC Road Engineering Conference Durban

PERSONAL DETAILS

Nationality – German (permanent Residency in RSA)

Date of Birth – 1976-10-12

Domicile – Cape Town, South Africa

Languages

English – Very Good

German – Native Language

Afrikaans – Fair

**PROFESSIONAL CURRICULUM
FOR WOUTER FOURIE**



Name: Wouter Fourie
Profession: Archaeologist
Date of birth: 1974-04-30
Parent Firm: PGS Heritage (Pty) Ltd
Position at Firm: Director
Years with firm: 15
Years of experience: 21
Nationality: South African
HDI Status: White

EDUCATION:

Name of University or Institution : University of Pretoria
Degree obtained : BA
Major subjects : Archaeology, Geography and Anthropology
Year : 1996

Name of University or Institution : University of Pretoria
Degree obtained : BA [Hons] (Cum laude)
Major subjects : Archaeology and Geography
Year : 1997

Name of University or Institution : National Nuclear Regulator
Certificate obtained : Radiation Protection Officer Certificate
Year : 1999

Name of University or Institution : University of Cape Town
Certificate obtained : Project Management Foundations short course
Year : 2015

Name of University or Institution : University of Cape Town
Certificate obtained : MPhil – Conservation of Built Environment
Year : 2016-Current

Professional Qualifications:

Professional Heritage Practitioner – Association of Professional Heritage Practitioners (APHP)
Professional Archaeologist - Association of Southern African Professional Archaeologists -
Professional Member – No 043

CRM Accreditation

Principal Investigator - Grave Relocations
Field Director – Iron Age
Field Supervisor – Colonial Period and Stone Age
Accredited with Amafa KZN

Languages:

Afrikaans
English – Speaking (Good) Reading (Good), Writing (Good)

KEY QUALIFICATIONS

- More than 18 consecutive years of work in the heritage consulting field;
- In depth knowledge of heritage management principles;
- 15 years working experience in the protection of cultural heritage sites and archaeological excavations;
- Proven experience in report writing and report deliverables;
- 15 years experience in management of the cultural heritage consultancy teams;
- 10 years of experience in institutional, multinational company interaction and project implementation;
- Proven experience in project scheduling and programming;
- Experience in development and implementation of quality, environmental and environmental health management systems for projects and companies;
- Experience in the development of policies and guidelines related to heritage management.
- Experience in planning and implementation of workshops and conferences.

CONFERENCE PAPERS AND PUBLICATIONS

- 2016 - Implementing Responsible Grave Relocation – The case for Comprehensive Grave Relocation Action Plan for Integrated Project Management. 21st annual IAIAAsa conference, Port Elizabeth, Eastern Cape.
- 2012 - Heritage management: compliance or just a nuisance during the Environmental Management Programme implementation. 17th annual IAIAAsa conference, Somerset West, Western Cape.
- 2011 – POSTER – W. Fourie and J. van der Walt. Sterkspruit: Micro-layout of Late Iron Age stone walling, Lydenburg, Mpumalanga. . Association of Southern African Professional Archaeologists – Conference, Swazi Land
- 2011 – POSTER – P.D. Birkholtz, W. Fourie and W.C. Nienaber. Onverwacht: Archaeological and Historical Analysis of Swazi settlement layout. Association of Southern African Professional Archaeologists – Conference, Swazi Land
- 2011 – POSTER – H.S. Steyn, W. Fourie and M. Hutten. Kappa Omega Transmission Line: Findings from an Archaeological Walk Down. Association of Southern African Professional Archaeologists – Conference, Swazi Land
- 2011 - Archaeology, Physical Anthropology and DNA analysis – The case of Queen Thomo Jezangani Ndwandwe. *Association of Southern African Professional Archaeologists – Conference, Swaziland*
- 2008 – Probabilistic Modeling of archaeological sites, Pilanesberg National Park. Paper delivered at the *Association of Southern African Professional Archaeologists – Conference, Cape Town*
- 2008 - Archaeological Impact Assessments within South African legislation. *South African Archaeological Bulletin 63 (187): 77–85, 2008*
- 2006 - *Paper delivered at ASAPA conference, Pretoria. Tavistock: Good grave relocation practice.*
- 2005 - Paper delivered at the Three Universities Seminar, University of Pretoria: The repatriation of King Michael Tjiseseta.
- 2005 - 'The Return of a King' - The repatriation of King Michael Tjiseseta, *Paper delivered at the conference of the Pan-African Archaeological Association for Prehistory and Related Studies in Gaborone, Botswana, in July 2005.*
- 2004 - Research poster, Probabilistic Modeling of Archaeological Sites, Pilanesberg National Park. *South African Association of Archaeologist Conference, Kimberley*

INTERNATIONAL PROJECTS

- 2018 – current: **Position:** Heritage Specialist and Project Manager – Sovereign Metals –

Malingunde Graphite Project, Malawi – Heritage Impact Assessment – **Project Value:** R 400 000

- 2017 – current: **Position:** Heritage Specialist and Project Manager – Lesotho Highland Development Authority – Polihali Dam Project - Heritage Management Plan development and Implementation. Mokhotlong, Kingdom of Lesotho – **Project Value:** R 35,5 mil
- 2017 - **Position:** Heritage Specialist and Project Manager – Aurcon Singapore for the Government for Mauritius – Heritage Assessment for the proposed Rapid Rail Link, Port Louis, Mauritius – **Project Value:** R 100, 000
- 2016 – current – **Position:** Heritage Specialist and Project Manager - Anadarko International – Grave Relocation Action Plan and implementation for the Afungi Liquid Natural Gas Project, Palma, Northern Mozambique – **Project Value:** R 2,5 mil
- 2013 – 2016 - **Position:** Heritage Specialist and Project Manager - SLR Consulting - Heritage Impact Assessment, Manica Gold Project, Manica Province, Mozambique - **Project Value:** R 80 000
- 2012 - **Position:** Heritage Specialist and Project Manager - SLR Consulting - Heritage Impact Assessment, Namoya SALR – Gold Mine, Maniema Province in the eastern Democratic Republic of Congo (DRC) - **Project Value:** R 120 000
- 2012 - **Position:** Heritage Specialist and Project Manager - Consolidated Contractors Group S.A.L. -Mitigation and Grave Relocation at Site 37-A3-16 on the Mahalpye to Kudumatse Road Construction Project Central District, Botswana - **Project Value:** R 90 000
- 2010 - **Position:** Heritage Specialist and Project Manager - Digby Wells & Associates - Grave Relocation Procedures and Consultation – RAP Process, Kibali Gold Mine, Watsa, Oriental Province, Democratic Republic of the Congo - **Project Value:** R 85 000
- 2010 - **Position:** Heritage Specialist and Project Manager - Digby Wells & Associates - Archaeological Study, Kibali Gold Mine, Watsa, Oriental Province, Democratic Republic of the Congo - **Project Value:** R 50 000
- 2008 - **Position:** Heritage Specialist and Project Manager - Digby Wells & Associates - Mmamabula Mining Project CIC, Botswana - **Project Value:** R 60 000

HERITAGE IMPACT ASSESSMENTS

South African

Below a selected list of over 400 heritage studies completed

2017

- Manungu Colliery, Heritage Impact Assessment. Carolina, Mpumalanga. – **Position:** Heritage Specialist. **Project Value:** R 65 000.
- Ilima Colliery, Heritage Impact Assessment. Carolina, Mpumalanga. – **Position:** Heritage Specialist. **Project Value:** R 110 000.
- Clanwilliam Dam Heritage Project (2014-2017). Clanwilliam, Western Cape. Department of Water and Sanitation – **Position:** Heritage Specialist. **Project Value:** R 7,5 mil
- Leeuwing Wind Energy Project. Loeriesfontein, Northern Cape. SiVEST. – **Position:** Heritage Specialist. **Project Value:** R 120 000.
- Leeudoringstad Solar Energy Project. North West Province. SiVEST. – **Position:** Heritage Specialist. **Project Value:** R 50 000.
- Lephalale Combined Power Project, Limpopo Province. Kongiwe Environmental. – **Position:** Heritage Specialist. **Project Value:** R 100 000.
- Lebone Emergency College Upgrade, Pretoria. Department of Infrastructure Development. **Position:** Heritage Specialist. **Project Value:** R 100 000.

2016

- Gautrain Management Agency (SiVEST Environmental) – Gautrain Rapid Rail Link – Feasibility Study – **Position:** Heritage Specialist

- Pilgrim's Rest Housing Development – Heritage Impact Assessment, Mpumalanga. Aurecon. – **Position:** Heritage Specialist. **Project Value:** R 60 000.
- Era Brickworks, Delmas, Mpumalanga. Heritage Impact Assessment. Jones and Wagerner. – **Position:** Heritage Specialist. **Project Value:** R 40 000.
- Daggaskaal Road Upgrade, Mpumalanga. Heritage Impact Assessment. NCC Environmental. – **Position:** Heritage Specialist. **Project Value:** R40 000.
- Eureka and Aletta Wind Energy Projects. Copperton, Northern Cape. – **Position:** Heritage Specialist. **Project Value:** R 95 000.
- Sendawo Solar Project, Vryburg, Northern Cape. Heritage Impact Assessment. SiVEST – **Position:** Heritage Specialist. **Project Value:** R 90 000.
- Tlisitseng Solar Project, Lichtenburg, North West Province. Heritage Impact Assessment. – **Position:** Heritage Specialist. **Project Value:** R 80 000.
- Kuruman 66kV Project. Kuruman, Northern Cape. Zitholele. – **Position:** Heritage Specialist. **Project Value:** R 85 000.
- Goodwood Housing Scheme, WC – Heritage Scoping – **Position:** Heritage Specialist
- Vereeniging Gymnasium, Heritage assessment and Guidelines, Meyerton, Gauteng. – **Position:** Heritage Specialist
- Victoria West, Wind Energy Project. CSIR. – **Position:** Heritage Specialist. **Project Value:** R 120 000.
- Kloof and Driefontein Sibanye Gold. Heritage Management Plan. Carletonville, Gauteng. – **Position:** Heritage Specialist and Project Manager. **Project Value:** R 430 000.

2015

- AEL Detonator Campus, Heritage Impact Assessment. Modderfontein, Gauteng. – **Position:** Heritage Specialist and Project Manager. **Project Value:** R 240 000.
- Solar Reserve (Worley Parson RSA), Heritage Impact Assessment, Humansrus Solar Park, Daniëlskuil, Northern Cape – **Position:** Heritage Specialist
- Kappa-Sterrekus 765kV Project. ACER Africa. Heritage Walkdown. Western Cape. – **Position:** Heritage Specialist. **Project Value:** R 140 000.
- Solar Reserve (Worley Parson RSA), Heritage Impact Assessment, Rooipunt Solar Park, Upington, Northern Cape – **Position:** Heritage Specialist
- Solar Reserve (Worley Parson RSA), Heritage Impact Assessment, Arriesfontein Solar Park, Daniëlskuil, Northern Cape – **Position:** Heritage Specialist
- Solar Reserve (Worley Parson RSA), Heritage Impact Assessment, Slypklip Solar Park, Kimberley, Northern Cape – **Position:** Heritage Specialist
- Mainstream Renewable Power South Africa (SiVest), Heritage Impact Assessment, Loeriesfontein Solar Park, Northern Cape – **Position:** Heritage Specialist
- Mainstream Renewable Power South Africa (SiVest), Heritage Impact Assessment, De Aar Solar Park, Northern Cape – **Position:** Heritage Specialist
- Mainstream Renewable Power South Africa (SiVest), Heritage Impact Assessment, Droogfontein
- GRAP103 – Heritage Register for the Ekurhuleni Metropolitan Municipality, Aurecon – **Position:** Heritage Specialist
- Fleurhof Hostel Redevelopment. Florida, Gauteng. Heritage Impact Assessment. **Position:** Heritage Specialist and Project Manager. **Project Value:** R 430 000.
- Mkuze Biomassa Incinerator. Mkuze, KZN. Heritage Impact Assessment. CSIR. **Position:** Heritage Specialist and Project Manager. **Project Value:** R 50 000.
- Transnet Overvaal Tunnel, Ermelo, Mpumalanga. EIMS. **Position:** Heritage Specialist and Project Manager. **Project Value:** R 60 000.
- De Aar 132kv Powerline. De Aar, Northern Cape. Heritage Impact Assessment. Holland and Associates. **Position:** Heritage Specialist and Project Manager. **Project Value:** R 60 000.

2014

- Solar Park, Kimberley, Northern Cape – **Position:** Heritage Specialist
- Kumba Iron Ore (Synergistics), Heritage Impact Assessment, Shishen Relocation Project, Northern Cape – **Position:** Heritage Specialist
- Kappa-Sterrekus 765kV Project. ACER Africa. Heritage Walkdown. Western Cape. – **Position:** Heritage Specialist. **Project Value:** R 140 000.
- Strategic Environmental Assessment for Independent Energy. CSIR. – **Position:** Heritage Specialist. **Project Value:** R 150 000.
- New Kathu Cemetery. Kathu, Northern Cape. Heritage Impact Assessment. SLR Consulting. – **Position:** Heritage Specialist. **Project Value:** R 50 000.

GRAVE RELOCATIONS

- 2015-7 - Optimum Coal Phase 2 – Relocation of 100 graves, Glencore. Pullenshope, Mpumalanga
- 2014 – Bigen Africa. Lufhereng Grave Investigation, Soweto, Gauteng. Principal Investigator.
- 2014 – Basil Read. Savanna City Residential Development. Relocation of 55 graves. Orange Farm, Gauteng. Principal Investigator.
- 2013-6 – Kalgold Project Harmony Gold. Relocation of 20 graves. Kraaipan, North West Province. Principal Investigator.
- 2013-4 – Ivanhoe Mining. Relocation of graves for the Platreef project. Mokopane, Limpopo Province. Principal Investigator.
- 2013-4 – Eskom SOC, Eskom Mookodi Substation grave relocation of 6 graves. Vryburg, North West Province. Principal Investigator.
- 2013 – Ntshovelo Coal. Relocation of 8 graves. Arbor, Mpumalanga.
- 2013 – Msobo Coal. Relocation of 9 graves for the Msobo Coal Lilliput project. Breyten, Mpumalanga. Principal Investigator.
- 2012-4 - Likweti Holdings, Likweti Grave Project, 1 Grave. Nelspruit, Mpumalanga. Principal Investigator
- 2012-3 - Fleurhof Holdings, Fleurhof rescue and grave relocation of 70 graves. Florida, Gauteng. Principal Investigator
- 2012 – 4 - Calgro/M3, Fleurhof grave rescue and relocation, 100 graves Florida, Gauteng. Principal Investigator
- 2012 - Department of Arts and Culture. J.L. Dube memorial site restoration. Ohlange Institute, Inanda, KwaZulu-Natal. Principal Investigator.
- 2012 - Delmas Super Centre. Delmas grave relocation of 1 grave. Delmas, Mpumalanga.
- 2012 - Anglo Coal, New Largo Colliery. 170 Graves. Ogies, Mpumalanga. Principal Investigator
- 2011-3 - Mashala Resources, Ferreiras Colliery, Ermelo. Relocation of 11 graves. Principal Investigator.
- 2011 - Xtsrata, ATCOM. Bierman cemetery. 14 graves. Principal Investigator Relocation of 8 graves, Kudumatse Road Upgrade, Botswana. Principal Investigator
- 2011 - Seaton Thompson, Kameeldoorn grave relocation. Single grave. Zeerust. Principal Investigator
- 2011 - SAHRA, Relocation of the remains of Queen Thomo KaNdwandwe, Durban, KZN. Principal Investigator
- 2011 - Roadcrete, Lanseria-Randburg Road Upgrade 6 graves, Randburg. Principal Investigator.
- 2011 - New Clydesdale Coal, Relocation of 7 graves from coal project, Witbank. Field Director, under WC Nienaber as PI
- 2011 - Kudumatse Road works. Removal of 11 Iron Age graves. Kudumatse, Botswana. Principal Investigator

- 2010-3 - Optimum Colliery, Hendrina, Mpumalanga. Relocation of 65 graves. Field Director, under WC Nienaber as PI
- 2010 - Investigation on the relocation of 3000 graves, Kibali, DRC. Principal Investigator
- 2010 - Eyethu Coal, Relocation of 7 graves from coal project, Delmas. Field Director, under WC Nienaber as PI
- 2008 - WBHO, Relocation of 5 graves from South Deep tailings project, Fochville Gauteng Province. Field Director, under WC Nienaber as PI
- 2006 - Highland Gate Development. Dullstroom. Gate Developments. Relocation of 39 Graves. Field Director.
- 2006 - Cosmo City Development, Johannesburg. Basil Read Pty Ltd. Relocation of 135 graves. Field Director.
- 2003 - Tselentis Colliery, Duiker Mining. Relocation of 80 graves. Field Director
- 2003 - Alveda Park Development, NewHco. Relocation of 114 graves. Field Director
- 2002 - V3, Brakfontein, Centurion. Reconnaissance excavation on possible grave in new development area. Field Director
- 2002 - Kriel Collieries, Kriel. Investigation into the position of relocated graves on Kriel Golf Course. Principal Investigator
- 2002 - Gardener Ross Golf and Country Estate, DEVCO. Reconnaissance Excavation on possible graves. Field Director
- 2001-2 - iMpunzi Division of Duiker Mining, Witbank, Grave Relocation of 907 graves. Field Director

MITIGATION WORK

1. 2017 – Current - Lesotho Highland Development Authority – Polihali Dam Project - Heritage Management Plan development and Implementation. Mokhotlong, Kingdom of Lesotho
Project Manager
2. 2014-2017 - Raising of the Clanwilliam Dam – Heritage Mitigation, Clanwilliam, Western Cape. **Project Manager**
3. 2013 - Kappa Gamma, MSA Mitigation, Touws Rivier, Western Cape. **Field Director, Dr M.M. van der Ryst, PI**
4. 2012 - Misgund N1 Interchange upgrade, Iron Age Phase 2 excavation, Johannesburg, Gauteng Province. **Field Director, under Prof. JCA Boeyens, PI**
5. 2011 – Eskom 400kV – Dinaledi Spitskop – Phase 2 Historical Site, Mitigation - **Field Director, J.P Behrens, PI**
6. 2011 – Eskom 400 kV – Dinaledi Marang – Phase 2 Middel Stone Age Site, Mitigation **Field Director, Dr M.M. van der Ryst, PI**
7. 2011 – Eskom 400 kV – Dinaledi Marang – Phase 2 Late Iron Age, Mitigation - **Field Director, under Prof. JCA Boeyens, PI**
8. 2011 – Eskom 400 kV – Dinaledi Marang – Phase 2 Early Stone Age Site, Mitigation - **Field Director, under Dr K. Kumann, PI**
9. 2011 - Eskom 400kV – Dinaledi-Spitskop – Phase 2 Middel Stone Age Site, Mitigation - **Field Director, under Dr M.M van der Ryst, PI**
10. 2009 - Nkomati Mine, Onverwacht Phase 2 excavations, Badplaas, Mpumalanga. **Field Director, under Prof. TN Huffman, PI**
11. 2008 - TWP, Wesizwe Platinum Phase 2 excavations, Pilanesberg, North West Province. **Field Director, under Prof. TN Huffman, PI**
12. 2008 - The Heads Trust, Heritage Assessment and phase 2 documentation, and monitoring for Lydenburg Ext 38 housing development, Lydenburg, Mpumalanga. **Field Director, under Prof. JCA Boeyens, PI**
13. 2008 - Stonehenge x16, Phase 2 test excavations, Nelspruit, Mpumalanga. **Field Director, under Prof. TN Huffman, PI**

14. 2007 - Phase 2 mitigation of archaeological terrain. Hammanskraal West Proper. Ditsala Construction. Hammanskraal, Gauteng Province. **Field Director, under Prof. JCA Boeyens, PI**
15. 2007 - Phase 2 mitigation of archaeological terrain. Bokfontein Mining Project. Henric Ferrochrome, Brits North West Province. **Field Director, under Prof. JCA Boeyens, PI**
16. 2006 - Phase 2 mitigation of archaeological terrain. Gardener Ross Golf and Country Estate. **Field Director, under Prof. JCA Boeyens, PI**

POSITIONS HELD

- **2003 – current:** Director - PGS Heritage (Pty) Ltd
- **2006 – 2008:** Project Manager – Matakoma-ARM, Heritage Contracts Unit, University of the Witwatersrand
- **2005-2007:** Director – Matakoma Heritage Consultants (Pty) Ltd
- **2000-2004:** CEO– Matakoma Consultants
- **1998-2000:** Environmental Coordinator – Randfontein Estates Limited. Randfontein, Gauteng
- **1997-1998:** Environmental Officer – Department of Minerals and Energy. Johannesburg, Gauteng





Appendix 3
Declarations of Interest and the EAP
Affirmation



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF THE SPECIALIST, DECLARATION OF INTEREST AND UNDERTAKING UNDER OATH

File Reference Number:	(For official use only)
NEAS Reference Number:	DEA/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, Act No. 107 of 1998, as amended and the Environmental Impact Assessment (EIA) Regulations, 2014, as amended (the Regulations)

PROJECT TITLE

Environmental Impact Assessment (EIA) For the Proposed 325mw Rondekop Wind Energy Facility Between Matjiesfontein And Sutherland In The Northern Cape Province

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473 Steve Biko Road
Arcadia

Queries must be directed to the Directorate: Coordination, Strategic Planning and Support at:
Email: EIAAdmin@environment.gov.za

1. SPECIALIST INFORMATION

Specialist Company Name:	EnviroSci (Pty) Ltd		
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	4	Percentage Procurement recognition
			100
Specialist name:	Dr Brian Colloty		
Specialist Qualifications:	Ph.D in wetland and aquatic systems conservation rating and mapping		
Professional affiliation/registration:	SACNASP Pr Sci Nat Ecologist 400268/07 Member of the South African Wetland Society,		
Physical address:	1 Rossini Rd Pari Park Port Elizabeth		
Postal address:	1 Rossini Rd Pari Park Port Elizabeth		
Postal code:	6070	Cell:	0834983299
Telephone:	0413662077	Fax:	-
E-mail:	b.colloty@gmail.com		

2. DECLARATION BY THE SPECIALIST

I, Brian Colloty, declare that –

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Brian Colloty

Signature of the Specialist

EnviroSci (Pty) Ltd

Name of Company;

6 November 2018

Date



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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Email: EIAAdmin@environment.gov.za

1. SPECIALIST INFORMATION

Specialist Company Name:	Bioinsight (Pty) Ltd.		
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	4	Percentage Procurement recognition
Specialist name:	Miguel Mascarenhas and/or Craig Campbell		
Specialist Qualifications:	Post Graduate (Business Management), MSc (Environmental Impact Assessments), BSc (Applied Plant Biology)		
Professional affiliation/registration:	Miguel Mascarenhas: SACNASP Ecological Science Reg. 400168/14		
Physical address:	Rua Antero de Quental, N°52 Loja B, Urbanizacao Colinas do Cruzeiro, 2675-690, Odivelas, Portugal		
Postal address:	Unit 306, Warwick Place, 113 Grand National Boulevard, Milnerton		
Postal code:	7441	Cell:	+27 82 353 6515
Telephone:	n/a	Fax:	n/a
E-mail:	info@bioinsight.co.za / craig.c@bioinsight.co.za		

2. DECLARATION BY THE SPECIALIST

I, Miguel Rodolfo Teixeira de Mascarenhas, declare that –

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
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- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.



Signature of the Specialist

Bioinsight (Pty) Ltd.

Name of Company:

12th November 2018

Date

Details of Specialist, Declaration and Undertaking Under Oath



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER, DECLARATION OF INTEREST AND UNDERTAKING UNDER OATH

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NEAS Reference Number:	DEA/EIA/
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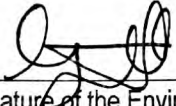
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Disclosure of Vested Interest (delete whichever is not applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations;
- I have a vested interest in the proposed activity proceeding, such vested interest being:



Signature of the Environmental Assessment Practitioner

GIVEST SA (Pty) Ltd

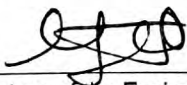
Name of Company:

13/11/2018

Date

3. UNDERTAKING UNDER OATH/ AFFIRMATION

I, Andrea Gibb, swear under oath / affirm that all the information submitted or to be submitted for the purposes of this application is true and correct.



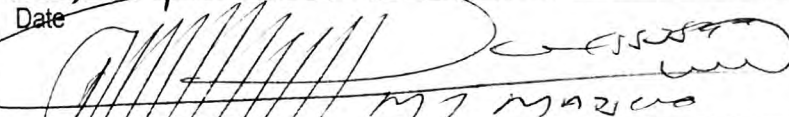
Signature of the Environmental Assessment Practitioner

GIVEST SA (Pty) Ltd

Name of Company

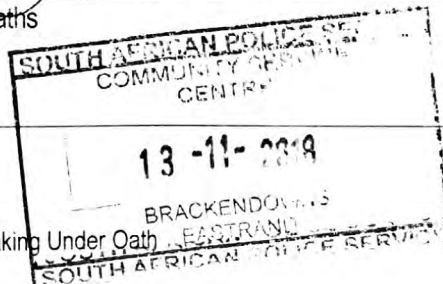
13/11/2018

Date


Signature of the Commissioner of Oaths

2018/11/13
Date

Details of EAP, Declaration and Undertaking Under Oath





environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF THE SPECIALIST, DECLARATION OF INTEREST AND UNDERTAKING UNDER OATH

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1. SPECIALIST INFORMATION

Specialist Company Name:	PGS Heritage (Pty) Ltd		
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	8	Percentage Procurement recognition
Specialist name:	Wouter Fourie – Lead Heritage Specialist		
Specialist Qualifications:	BA(Hon) Archaeology		
Professional affiliation/registration:	ASAPA, APHP		
Physical address:	906 Bergarend Street, Waverley, Pretoria		
Postal address:	PO Box 32542, Totiusdal		
Postal code:	0134	Cell:	082851 3575
Telephone:	012 332 5305	Fax:	
E-mail:	wouter@pgsheritage.co.za		

2. DECLARATION BY THE SPECIALIST

I, _____Wouter Fourie_____, declare that –

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.



Signature of the Specialist

PGS Heritage Pty Ltd

Name of Company:

8 November 2018

Date



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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1. SPECIALIST INFORMATION

Specialist Company Name:	SAFETECH		
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	NON-COMPLIANT	Percentage Procurement recognition: 0
Specialist name:	BRETT WILLIAMS		
Specialist Qualifications:	PHD		
Professional affiliation/registration:	REGISTERED OCCUPATIONAL HYGIENIST		
Physical address:	64 WORRAKER STREET NEWTON PARK PORT ELIZABETH		
Postal address:	PO BOX 27607, GREENACRES		
Postal code:	6057	Cell:	0825502137
Telephone:	041-3656846	Fax:	041-3652123
E-mail:	Brett.williams@safetech.co.za		

2. DECLARATION BY THE SPECIALIST

I, BRETT WILLIAMS, declare that –

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
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- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Signature of the Specialist 

SAFETECH

Name of Company:

13/11/2018

Date

Details of Specialist, Declaration and Undertaking Under Oath

H. BARNARD

 13/11/2018

Boog Street	Boog Straat
P.O.Box 4	Posbus 4
Humansdorp	Humansdorp
Commissioner of Oaths	Kommissaris van Ede
Ex-Officio	Ex-Officio
Chartered Accountant (SA)	Geektrooieerde Rekenmeester (SA)



environmental affairs

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REPUBLIC OF SOUTH AFRICA

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1. SPECIALIST INFORMATION

Specialist Company Name:	Banzai Environmental Pty Ltd		
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	Level 4	Percentage Procurement recognition
Specialist name:	Elize Butler		
Specialist Qualifications:	MSc		
Professional affiliation/registration:	PSSA		
Physical address:	14 Eddie De Beer Street , Dan Pienaar, Bloemfontein, 9301		
Postal address:	14 Eddie De Beer Street , Dan Pienaar, Bloemfontein, 9301		
Postal code:	9301	Cell:	084 447759
Telephone:	084 447759	Fax:	
E-mail:	elizebutler002@gmail.com		

2. DECLARATION BY THE SPECIALIST

I, Elize Butler, declare that –

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
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- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.



Signature of the Specialist

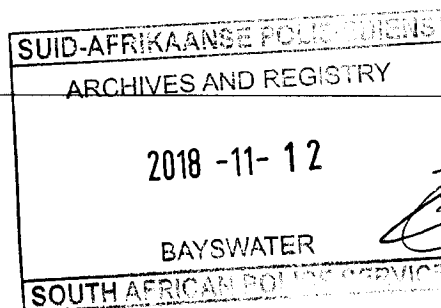
Banzai Environmental Pty Ltd

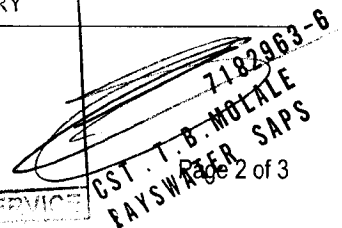
Name of Company:

11-11-2018

Date

Details of Specialist, Declaration and Undertaking Under Oath




 7182963-6
 GST - T. B. MOUTLE
 BAYSWATER SAPS
 Page 2 of 3



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF THE SPECIALIST, DECLARATION OF INTEREST AND UNDERTAKING UNDER OATH

	(For official use only)
File Reference Number:	
NEAS Reference Number:	DEA/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, Act No. 107 of 1998, as amended and the Environmental Impact Assessment (EIA) Regulations, 2014, as amended (the Regulations)

PROJECT TITLE

Environmental Impact Assessment (EIA) For The Proposed 325mw Rondekop Wind Energy Facility Between Matjiesfontein And Sutherland In The Northern Cape Province

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Environment House
473 Steve Biko Road
Arcadia

Queries must be directed to the Directorate: Coordination, Strategic Planning and Support at:
Email: EIAAdmin@environment.gov.za

1. SPECIALIST INFORMATION

Specialist Company Name:	Dr Neville Bews & Associates		
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	NA no additional staff	Percentage Procurement recognition
Specialist name:	Neville Bews		
Specialist Qualifications:	D. Litt. et Phil.		
Professional affiliation/registration:	International Association for Impact Assessment (IAIAsa). Membership Number: 2399		
Physical address:	84 Hennie Alberts Street, Brackenhurst, Alberton		
Postal address:	P.O. Box 145412, Bracken Gardens		
Postal code:	1452	Cell:	082 557-3489
Telephone:	011 867-0462	Fax:	086 621-8345
E-mail:	bewsco@netactive.co.za		

2. DECLARATION BY THE SPECIALIST

I, Neville Bews, declare that –

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.



Signature of the Specialist

Dr Neville Bews & Associates

Name of Company:

07th November, 2018

Date

Details of Specialist, Declaration and Undertaking Under Oath



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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1. SPECIALIST INFORMATION

Specialist Company Name:	David Hoare Consulting (Pty) Ltd		
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	4	Percentage Procurement recognition
Specialist name:	David Hoare		
Specialist Qualifications:	Ph D		
Professional affiliation/registration:	SACNASP (Reg No 400221/05)		
Physical address:	41 Soetdoring Avenue, Lynnwood Manor, Pretoria, 0081		
Postal address:	Postnet Suite 116, Private Bag 2025, Lynnwood Ridge		
Postal code:	0040	Cell:	083 284 5111
Telephone:	012 804 2281	Fax:	086 550 2053
E-mail:	dhoare@lantic.net		

2. DECLARATION BY THE SPECIALIST

I, Dr David Hoare, declare that -

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.


 Signature of the Specialist

David Hoare Consulting (Pty) Ltd
 Name of Company:

11 November 2018
 Date



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF THE SPECIALIST, DECLARATION OF INTEREST AND UNDERTAKING UNDER OATH

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Email: EIAAdmin@environment.gov.za

1. SPECIALIST INFORMATION

Specialist Company Name:	JG AFRIKA (PTY) LTD			
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	1	Percentage Procurement recognition	135%
Specialist name:	IRIS WINK			
Specialist Qualifications:	MSC ENG (CIVIL & TRANSPORTATION)			
Professional affiliation/registration:	PRENG (20110156)			
Physical address:	14 CENTRAL SQUARE, PINELANDS			
Postal address:	PO Box 38561, PINELANDS			
Postal code:	7430	Cell:	082 691 9096	
Telephone:	021 530 1800	Fax:	021 532 0950	
E-mail:	wink@jqafrika.com			

2. DECLARATION BY THE SPECIALIST

I, IRIS WINK, declare that –

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Signature of the Specialist

JG AFRIKA (PTY) LTD

Name of Company:

08/11/2018

Date

Details of Specialist, Declaration and Undertaking Under Oath



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF THE SPECIALIST, DECLARATION OF INTEREST AND UNDERTAKING UNDER OATH

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1. SPECIALIST INFORMATION

Specialist Company Name:	SRK Consulting (South Africa) (Pty) Ltd		
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	2	Percentage Procurement recognition
			125%
Specialist name:	Scott Masson		
Specialist Qualifications:	BSc (Hons) (Environ. Man.); MLA (L. Arch)		
Professional affiliation/registration:	Certified Environmental Assessment Practitioner		
Physical address:	The Admin Building, Albion Springs, 183 Main Road, Rondebosch, 7700		
Postal address:	Postnet Suite #206, P. Bag X18, Rondebosch		
Postal code:	7701	Cell:	072 134 6897
Telephone:	021 659 3060	Fax:	086 530 7003
E-mail:	smasson@srk.co.za		

2. DECLARATION BY THE SPECIALIST

I, Scott Masson, declare that –

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.



Signature of the Specialist

SRK Consulting (South Africa) (Pty) Ltd

Name of Company:

13/11/2018

Date

Details of Specialist, Declaration and Undertaking Under Oath



environmental affairs

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REPUBLIC OF SOUTH AFRICA

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1. SPECIALIST INFORMATION

Specialist Company Name:	SiVEST		
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	3	Percentage Procurement recognition
			110
Specialist name:	Kerry Schwartz		
Specialist Qualifications:	BA		
Professional affiliation/registration:	SAGC (GISc Technician)		
Physical address:	51 Wessels Road, Rivonia		
Postal address:	PO Box 2921, Rivonia		
Postal code:	2128	Cell:	
Telephone:	011 798 0632	Fax:	011 8037272
E-mail:	kerrys@sivest.co.za		

2. DECLARATION BY THE SPECIALIST

I, Kerry Schwartz, declare that –

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
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K Schwartz

Signature of the Specialist

SiVEST

Name of Company:

16 October 2018

Date