



Appendix F
PROJECT TEAM CV'S

Morné de Jager

Personal Data

| | |
|--|--|
| Identity Number | 711221 5062 080 |
| Date of Birth | 21 December 1971 |
| Sex | Male |
| Marital Status | Married, three children |
| Driver's license | Code 08 |
| Nationality | South African |
| Home Language | Afrikaans (speak, read and write) |
| Other Languages | English (speak, read and write) |
| Higher Educational Qualifications | B.Ing (Chemical Engineering) [Pretoria University] |
| Previous Employment | Wates Meiring and Barnard Department of Water Affairs and Forestry M2 Environmental Connections cc |
| Current Employment | Enviro-Acoustic Research cc |

Short Resumé

Morné started his career in the mining industry as a bursar Learner Official (JCI, Randfontein), working in the mining industry, doing various mining related courses (Rock Mechanics, Surveying, Sampling, Safety and Health (Ventilation, noise, illumination etc) and Metallurgy. He did work in both underground (Coal, Gold and Platinum) as well as opencast (Coal). He changed courses from Mining Engineering to Chemical Engineering after his second year of his studies at the University of Pretoria.

After graduation he worked as a Water Pollution Control Officer at the Department of Water Affairs and Forestry for two years (first year seconded from Wates, Meiring and Barnard), where duties included the perusal (evaluation, commenting and recommendation) of various regulatory required documents (such as EMPR's, Water Licence Applications and EIA's), as well as the compilation of Technical Documents.

Since leaving the Department of Water Affairs, Morné has been in private consulting for the last 10 years, managing various projects for the mining and industrial sector, private developers, business, other environmental consulting firms as well as the Department of Water Affairs. During that period he has been involved in various projects, either as specialist, consultant, trainer or project manager, successfully completing these projects within budget and timeframe.

He has been interested in acoustics as from school days, doing projects mainly related to loudspeaker design. Interest in the matter brought him into the field of Environmental Noise

Measurement, Prediction and Control. He has been doing work in this field for the past 5 years, and was involved with the following projects in the last few years:

Project Experience – Acoustics

| | |
|--|---|
| Wind Energy Facilities | <p><i>Zen (Savannah Environmental – SE), Goereesoe (SE), Springfontein (SE), Garob (SE), Project Blue (SE), Eskom Kleinzee (SE), iNca Gouda (Aurecon SA), Kangnas (Aurecon), Walker Bay (SE), Oyster Bay (SE), Hidden Valley (SE), Happy Valley (SE), Deep River (SE), Saldanha WEF (Terramanzi), Loeriesfontein (SiVEST), Noupoot (SiVEST), Prieska (SiVEST), Plateau East and West (Aurecon), Saldanha (Aurecon), Veldrift (Aurecon), Tsitsikamma (SE), AB (SE), West Coast One (SE), Namakwa Sands (SE), Dorper (SE), VentuSA Gouda (SE), Amakhala Emoyeni (SE), Klipheuwel (SE), Cookhouse (SE), Cookhouse II (SE), Canyon Springs (Canyon Springs), Rhebokfontein (SE), Suurplaat (SE), Karoo Renewables (SE), Outeniqua (Aurecon), Koningaas (SE), Eskom Aberdene (SE), Spitskop (SE), Rhenosterberg (SiVEST), Bannf (Vidigenix), Wolf WEF (Aurecon)</i></p> |
| Mining and Industry | <p><i>BECSA – Middelburg (Golder Associates), Kromkrans Colliery (Geovicon Environmental), SASOL Borrow Pits Project (JMA Consulting), Lesego Platinum (AGES), Tweefontein Colliery (Cleanstream), Evraz Vametco Mine and Plant (JMA), Goedehoop Colliery (Geovicon), Hacra Project (Prescali Environmental), Der Brochen Platinum Project (J9 Environment), Delft Sand (AGES), Brandbach Sand (AGES), Verkeerdepan Extension (CleanStream), Dwaalboom Limestone (AGES), Jagdlust Chrome (MENCO), WPB Coal (MENCO), Landau Expansion (CleanStream), Otjikoto Gold (AurexGold), Klipfontein Colliery (MENCO), Imbabala Coal (MENCO), ATCOM East Expansion (Jones and Wagner), IPP Waterberg Power Station (SE), Kangra Coal (ERM), Schoongesicht (CleanStream), EastPlats (CleanStream), Chapudi Coal (Jacana Environmental), Generaal Coal (JE), Mopane Coal (JE), Boshhoek Chrome (JMA), Langpan Chrome (PE), Vlakpoort Chrome (PE), Sekoko Coal (SE), Frankford Power (REMIG), Strahrae Coal (Ferret Mining), Transalloys Power Station (Savannah), Pan Palladium Smelter, Iron and PGM Complex (Prescali)</i></p> |
| Road and Railway | <p><i>K220 Road Extension (UrbanSmart), Boskop Road (MTO), Sekoko Mining (AGES), Davel-Swaziland-Richards Bay Rail Link (Aurecon), Moloto Transport Corridor Status Quo Report and Pre-Feasibility (SiVEST), Postmasburg Housing Development (SE), Tshwane Rapid Transport Project, Phase 1 and 2 (NRM Consulting/City of Tshwane)</i></p> |
| Airport | <p><i>Oudtshoorn Noise Monitoring (AGES), Sandton Heliport (Alpine Aviation), Tete Airport Scoping</i></p> |
| Noise monitoring | <p><i>Peerboom Colliery (EcoPartners), Thabametsi (Digby Wells), Doxa Deo (Doxa Deo), Harties Dredging (Rand Water), Xstrata Coal – Witbank Regional, Sephaku Delmas (AGES), Amakhala Emoyeni WEF (Windlab Developments), Oyster Bay WEF (Renewable Energy Systems), Tsitsikamma WEF (Cennergi and SE), Hopefield WEF (Umoya), Wesley WEF (Innowind), Ncora WEF (Innowind), Boschmanspoort (Jones and Wagner), Nqamakwe WEF (Innowind), Hopefield WEF Noise Analysis (Umoya), Dassiesfontein WEF Noise Analysis BioTherm), Transnet Noise Analysis (Aurecon)</i></p> |
| Small Noise Impact Assessments | <p><i>TCTA AMD Project Baseline (AECOM), NATREF (Nemai Consulting), Christian Life Church (UrbanSmart), Kosmosdale (UrbanSmart), Louwlandia K220 (UrbanSmart), Richards Bay Port Expansion (AECOM), Babalegi Steel Recycling (AGES), Safika Slag Milling Plant (AGES), Arcelor Mittal WEF (Aurecon), RVM Hydroplant (Aurecon), Grootvlei PS Oil Storage (SiVEST), Rhenosterberg WEF, (SiVEST), Concerto Estate (BPTTrust), Ekuseni Youth Centre (MENCO), Kranskop Industrial Park (Cape South Developments), Pretoria Central Mosque (Noman Shaikh), Soshanguve Development (Maluleke Investments), Seshego-D Waste Disposal (Enviroxcellence), Zambesi Safari Equipment (Owner), Noise Annoyance Assessment due to the Operation of the Gautrain (Thornhill and Lakeside Residential Estate), Upington Solar (SE), Ilangaletu Solar (SE), Pofadder Solar (SE), Flagging Trees WEF (SE), Uyekraal WEF (SE), Ruuki Power Station (SE), Richards Bay Port Expansion (AECOM), Babalegi Steel Recycling (AGES), Safika Ladium (AGES), Safika Cement Isando (AGES), Natref (NEMAI), RareCo (SE), Struisbaai WEF (SE)</i></p> |
| Project reviews and amendment reports | <p><i>Loperberg (Savannah), Dorper (Savannah), Penhoek Pass (Savannah), Oyster Bay (RES), Tsitsikamma (Cennergi), Amakhala Emoyeni (Windlab), Spreeukloof (Savannah), Spinning Head (Savannah), Kangra Coal (ERM), West Coast One (Moyeng Energy), Rhebokfontein (Moyeng Energy)</i></p> |

APPENDIX 2: CV OF BAT SPECIALIST

ABBREVIATED CURRICULUM VITAE: STEPHANIE CHRISTIA DIPPENAAR

PROFESSION: ENVIRONMENTAL MANAGEMENT, SPECIALISING IN BAT IMPACT ASSESSMENTS

Nationality: South African
ID number: 6402040117089

CONTACT DETAILS

Postal Address: 8 Florida Street, Stellenbosch, 7600
Telephone Number: 021-8801653
Cell: 0822005244
e-mail: sdippenaar@snowisp.com

EDUCATION

1986 BA University of Stellenbosch
1987 BA Hon (Geography) University of Stellenbosch
1999 MEM (Masters in Environmental Management) University of the Free State

PROFESSIONAL MEMBERSHIP

Member of the Southern African Institute of Ecologists and Environmental Scientists (SAIEES), since 2002.

SACNASP registration in process.

EMPLOYMENT RECORD

- **1989: The Academy: University of Namibia. One-year contract as a lecturer in the Department of Geography.**
- **1990: Windhoek College of Education. One-year contract as a lecturer in the Department of Geography.**
 - Research assistant, Namibian Institute for Social and Economic Research, working on, amongst others, a situation analyses on women and children in Namibia, contracted by UNICEF.
 - Media officer for Earthlife African, Namibian Branch.
- **1991: University of Limpopo. One-year contract as a lecturer in the Department of Environmental Sciences.**
- **1992: Max Planc Institute (Radolfzell-Germany). Mainly involved in handling birds and assisting with aviary studies.**
- **Swiss Ornithological Institute. Working in the Arava valley, Negev – Israel, as a radar operator on a project, contracted by Voice of America, involved in a Impact Assessment Study concerning shortwave towers on bird migration patterns.**
- **1993 - 2004: University of Limpopo. Lecturer in the sub-discipline Geography, School of Agriculture and Environmental Sciences. Teaching post- and pre-graduate courses in environment related subjects in the Faculty of Mathematics and Natural Sciences, Faculty of Law, Faculty of Health and the Water and Sanitation Institute.**

- 2002-2004: Member of the Faculty Board of the Faculty of Natural Sciences and Mathematics.
- 2002: Principle investigator of the Blue Swallow project, Northern Province, Birdlife SA.
- 2002: Evaluating committee for the EMEM awards (award system for environmental practice at mines in South Africa)
- 2001-2004: Private consultancy work, focussing on environmental management plans for game reserves.
- **2004-2011: CSIR, South Africa, doing environmental strategy and management plans and environmental impact assessments.**
- **2011 onwards: Sole proprietor private consultancy, since 2015 in affiliation with Birds and Bats Unlimited.**
- **From 2015 onwards: Teaching a part-time course in Environmental Management to Post-graduate students at the Department of Geography and Environmental Studies, University of Stellenbosch.**

PROJECT EXPERIENCE RECORD

The following table presents an abridged list of project involvement, as well as the role played in each project:

| Completion Date | Project description | Role | Client |
|----------------------------|--|-----------------|---|
| Private consultancy | | | |
| 2019(in progress) | Bat impact assessment for the Boesmansberg WEF | Bat specialist | Juwi Renewable Energies |
| 2018(in progress) | Operational Bat Monitoring at the Noupoot Wind Farm | Bat specialist | Mainstream Renewable Power SA |
| 2017(in progress) | Bat Monitoring at the Tooverberg Wind Energy Facility | Bat specialist | Eco-Genesis |
| 2016 | Bat "walk through" for the Hopefield Powerline associated with the Hopefield Community WEF | Bat specialist | Savannah Environmental |
| 2016 | Environmental Management Plan for Elephants in Captivity at the Elephant Section of Kapama Private Game Reserve. | Project Manager | HESC (Hoedspruit Endangered Species Centre) |
| 2016 | Environmental Management Plan for Hoedspruit Endangered Species Centre, Kapama Game Reserve. | Project Manager | HESC (Hoedspruit Endangered Species Centre) |
| 2015 | Several Bat Monitoring Reviews | Bat specialist | Bioinsight |
| 2012-2013 | Bat impact assessment for the Karookop Wind Energy Project EIA. | Bat specialist | CSIR/Electrawinds |
| 2012 | Bat specialist study for Vredendal Wind Farm EIA. | Bat specialist | CSIR/iNCa Vredendal Wind |
| 2011-2012 | Bat monitoring and bat impact assessment for the Ubuntu Wind Project EIA, Jeffreys Bay. | Bat specialist | WKN-Windcurrent |

| Completion Date | Project description | Role | Client |
|----------------------------------|---|-----------------|--|
| 2011 | Bat specialist study for the Banna Ba Pifhu Wind Energy Development EIA, Jeffrey's Bay . | Bat specialist | CSIR/ WKN- Windcurrent |
| 2011(project on hold) | Basic Assessment for the development of an air strip outside Betty's Bay. | Project Manager | Blakeney Parker |
| 2011 | Bat specialist study for the wind energy facility EIA at zone 12, Coega IDZ, Port Elizabeth. | Bat specialist | CSIR/Universal Wind |
| 2010-2011 | Bat specialist study for the Wind Energy Facility EIA at Langefontein, Darling. | Bat specialist | CSIR/Kwhe Khoa |
| During employment at CSIR | | | |
| 2010-2011 | Bat specialist study for the EIA concerning four wind energy development sites in the Western Cape. | Bat specialist | Innowind |
| 2010 | Bat specialist study for Electrawinds Wind Project EIA, Port Elizabeth. | Bat specialist | Electrawinds |
| 2010 | Environmental Management Plan for the Goukou Estuary. | Project Manager | CapeNature |
| 2010 | EIA for the 180MW Jeffrey's Bay Wind Project, Eastern Cape (Authorisation received). | Project Manager | Mainstream Renewable Power SA |
| 2010 | EIA for 9 Wind Monitoring Masts for the Jeffrey's Bay Wind Project (Authorisation received). | Project Manager | Mainstream Renewable Power SA |
| 2009-2010 | EIA for the NamWater Desalination Plant, Swakopmund (Authorisation received). | Project Manager | NamWater |
| 2007 -2011 | EIA for the proposed Jacobsbaai Tortoise reserve, Western Cape(Letf CSIR before completion of project, Authorisation rejected). | Project Manager | Jacobsbaai Tortoise Reserve Ltd |
| 2007-2008 | Environmental Impact Assessment for the Kouga Wind Farm, Jeffrey's Bay, Eastern Cape (Authorisation received). | Project Manager | Eco-Genesis |
| 2006-2008 | Site Selection Criteria for Nuclear Power Stations in South Africa. | Co-author | ESKOM |
| 2005 | Auditing the Environmental Impact Assessment process for the Department of Environment and Agriculture, Kwazulu Natal, South Africa | Project Manager | Department of Agriculture and Environmental Affairs, KZN |

| Completion Date | Project description | Role | Client |
|--------------------------------------|---|--|--------------------------------------|
| 2005 | Background paper on Water Issues for discussions between OECD countries and Developing Countries. | Author | Department of Science and Technology |
| 2005 | Intergrated Environmental Education Strategy for the City of Tshwane. | Co- author | City of Tshwane Municipality |
| 2005 | Developing a ranking system prioritizing derelict mines in South Africa, steering the biodiversity section. | Contributor | Department of Minerals and Energy |
| 2005 | Policy and Legislative Section for a Strategy to improve the contribution of Granite Mining to Sustainable Development in the Brits-Rustenburg Region, North-West Province, South Africa. | Author | Department of Minerals and Energy |
| Part-time private consultancy | | | |
| 2005 | Environmental Management Plan for the purpose of Leopard permits: Dinaka Game Reserve. | Project Manager in collaboration with Flip Schoeman† | Dinaka, Johan Bosch |
| 2004 | Environmental Management Plan for the introduction of lion: Pride of Africa. | Project Manager in collaboration with Flip Schoeman† | Pride of Africa, Johan Malan |
| 2004 | Environmental Management Plan for the establishment of a Conservancy: Greater Kudu Safaris | Project Manager in collaboration with Flip Schoeman† | Greater Kudu Safaris, Howard Knott |

RELEVANT CONFERENCES, WORKSHOPS AND COURSES

- Member of the South Africa Bat Assessment Association.
- Attending a course in the management and care of bats injured by wind turbines by Dr. Elaenor Richardson, Kirstenbosch, 27 August 2014
- Mist netting and bat handling course by Dr. Sandie Sowler, Swellendam, 5 November 2013.
- Attendance and fieldwork to identify bat species and look at new Analoow software with Chris Corben, the writer of the Analoow bat identification software package and the person behind the Anabat Detector, during 10 and 11 October 2013.
- Attend yearly Bats and Wind Energy workshops, arranged by Natural Scientific Services (NSS), The Endangered Wildlife Trust and SABAAP.
- A four day training course on Bat Surveys at proposed Wind Energy Facilities in South Africa, hosted by The Endangered Wildlife Trust, Greyton, between 22 and 26 January 2012.
- Presentation as a plenary speaker at the 4th Wind Power Africa Conference and Renewable Energy Exhibition, at the Cape Town International Convention Centre, on 28 May 2012. Title:

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 9 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)
- **ArcGIS Desktop 1** (ESRI South Africa December 2010)
- Environmental Impact Assessment (EIA) 2014 Legal Regime Workshop (Imbewu 2015)
- NEC4 Contract Course (Coen Snyman International 2018)

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 |

Years of Working Experience: 11

Countries of Work Experience:

- South Africa
- Swaziland (Eswatini)

Fields of Specialisation

- Renewable Energy
- Environmental Impact Assessment (EIA)
- Basic Assessment (BA)
- Visual Impact Assessment (VIA)
- Project and team management
- Marketing and business development
- Financial management
- Documentation / quality control

Overview

Andrea is a Divisional Manager within the SiVEST Environmental Division, heading up the Renewable Energy Sector in the Johannesburg Office. She specialises in overseeing large scale multifaceted EIAs and 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. Andrea further specialises in VIAs and has developed a specialist team who she oversees.

Projects Experience (by Sector)

Aug 2010 – to date

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

- EIA for the proposed Rondekop Wind Energy Facility near Sutherland, Northern Cape Province.
- BA for the proposed Tooverberg Wind Energy Facility within the Komsberg Renewable Energy Development Zone (REDZ), Western Cape Province.
- BA for the proposed Tooverberg Substation and Power Line within the Komsberg Renewable Energy Development Zone (REDZ), Western Cape Province.
- 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.

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- 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.
 - 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.

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- 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.
 - 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 transformers 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.

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.

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|----------------------------|--------------------------|
| Name | Stephan Hendrik Jacobs |
| Profession | Environmentalist |
| Name of Firm | SiVEST SA (Pty) Ltd |
| Present Appointment | Environmental Consultant |
| Years with Firm | 3 years |
| Date of Birth | 28 May 1991 |
| ID Number | 9105285065080 |
| Nationality | South African |



Education

Pretoria Boys High, Pretoria, South Africa, Matriculated 2009.

Professional Qualification

- B.Sc. Hons Environmental Management and Analysis, (Post Graduate) University Of Pretoria Honours (2014).
- B.Sc. Environmental Sciences (Undergraduate) University Of Pretoria (2012-2013)

Employment Record

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|---------------------|---|
| May 2015 – current | SiVEST SA (Pty) Ltd – Graduate Environmental Consultant |
| Nov 2014 – Feb 2015 | Sodwana Bay Fishing Charters – Assistant Manager |
| Oct 2014 – Mar 2015 | Ufudu Turtle Tours – Tour Guide |

Language Proficiency

| LANGUAGE | SPEAK | READ | WRITE |
|-----------|-----------|-----------|-----------|
| English | Excellent | Excellent | Excellent |
| Afrikaans | Good | Good | Good |

Key Experience

Stephan joined SiVEST in May 2015 and holds the position of Environmental Consultant in the Johannesburg office.

Stephan specialises in the field of Environmental Management and has been extensively involved in Environmental Impact Assessment (EIA) and Basic Assessment (BA) processes for various types of projects / developments. As such, Stephan has vast experience with regards to the compilation of Environmental Impact Assessments (EIAs) and Basic Assessments (BAs). Additionally, Stephan has extensive experience in undertaking public participation and stakeholder engagement processes. Stephan has also assisted extensively in the undertaking of field work and the compilation of reports for specialist studies such as Surface Water and Visual Impact Assessments. Stephan also has experience in Environmental Compliance and Auditing and has acted as an Environmental Control Officer (ECO) for several infrastructure projects.

Stephan has been educated and achieved his degrees (B.Sc. and B.Sc. Hons) at the University of Pretoria in Environmental Sciences (Environmental Management & Analysis).

Skills include:

- Strong computer skills (Word, excel, PowerPoint etc.);
- Strong Proposal and report writing skills;
- Report compilation skills for Environmental Impact Assessments (EIAs) and Basic Assessments (BAs);
- Report compilation skills for Environmental Management Plans/Programmes (EMPr);
- Compilation and conducting Visual Impact Assessments;
- Assisting in Surface Water / Wetland Delineations and Assessments.

Key experience includes:

- Environmental Impact Assessment (EIA) of small, medium and large-scale infrastructure projects,
- Basic Assessment (BA), of small, medium and large-scale infrastructure projects,
- Environmental Management Plans (EMPr), of small, medium and large-scale infrastructure projects,
- Undertaking of Public Participation and Stakeholder Engagement Processes
- Proposal and tender compilation,
- Environmental Compliance and Auditing (ECO);
- Various site inspections, and
- Visual Impact Assessments (Field work and report compilation).

Projects Experience

Stephan is responsible for the following activities: report writing, proposal writing, assisting in specialist surface water delineation and functional assessments, assisting in visual impact assessments and environmental compliance and auditing procedures. Current and completed projects / activities are outlined in detail below:

- Environmental Control Officer (ECO) for the Polokwane Integrated Rapid Public Transport System (IRPTS), Limpopo Province.
- Basic Assessment (BA) for the construction of a Non-Motorised Transport (NMT) Training and Recreational Park adjacent to the Peter Mokaba Stadium in Polokwane, Limpopo Province.
- Basic Assessment (BA) for the Proposed Expansion of the Tissue Manufacturing Capacity at the Twinsaver Kliprivier Operations Base, Gauteng Province.
- Basic Assessment (BA) for the Proposed Construction of a New SPAR Distribution Centre on Erf 1092 at Redhouse in Port Elizabeth, Eastern Cape Province.
- Basic Assessment (BA) for the Proposed Construction of the Graskoppies Substation, Linking Substation and Associated 132kV Power Line near Loeriesfontein, Northern Cape Province.
- Basic Assessment (BA) for the Proposed Construction of the Hartebeest Leegte Substation, Linking Substation and Associated 132kV Power Line near Loeriesfontein, Northern Cape Province.
- Basic Assessment (BA) for the Proposed Construction of the Ithemba Substation, Linking Substation and Associated 132kV Power Line near Loeriesfontein, Northern Cape Province.
- Basic Assessment (BA) for the Proposed Construction of the !Xha Boom Substation, Linking Substation and Associated 132kV Power Line near Loeriesfontein, Northern Cape Province
- Environmental Impact Assessment (EIA) for the Proposed Construction of the Graskoppies Wind Farm near Loeriesfontein, Northern Cape Province.

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- Environmental Impact Assessment (EIA) for the Proposed Construction of the Hartebeest Leegte Wind Farm near Loeriefontein, Northern Cape Province.
 - Environmental Impact Assessment (EIA) for the Proposed Construction of the Ithemba Wind Farm near Loeriefontein, Northern Cape Province.
 - Environmental Impact Assessment (EIA) for the Proposed Construction of the !Xha Boom Wind Farm near Loeriefontein, Northern Cape Province.
 - Environmental Control Officer (ECO) for Phase 1 and Phase 2 of the Newmarket Retail Development, Gauteng Province.
 - Environmental Control Officer (ECO) for the proposed NuPay Office Block development at the Newmarket Retail Development, Gauteng Province.
 - Environmental Control Officer (ECO) for the proposed Construction of the Decathlon Building at the Newmarket Retail Development, Gauteng Province.
 - Environmental Control Officer (ECO) for the External Road Upgrades at the Newmarket Retail Development, Gauteng Province.
 - Environmental Review of the Xakwa Coal Operations, adjacent to the proposed Eastside Junction Development.
 - Environmental Due Diligence for the Woodlands and Harrowdene Office Parks in Woodmead, Gauteng Province.
 - Visual Impact Assessment for the Helena Solar PV Plant, Northern Cape Province.
 - Visual Impact Assessment for the Nsoko Msele Integrated Sugar Project, Swaziland.
 - Visual Impact Assessments for the proposed construction of the Sendawo Solar 1, Sendawo Solar 2 and Sendawo Solar 3 Photovoltaic (PV) Energy Facilities near Vryburg, North West Province.
 - Visual Impact Assessments for the proposed construction of the Sendawo Substation and Associated 400kV Power Line near Vryburg, North West Province.
 - Visual Impact Assessments for the proposed construction of the Tlisitseng Solar 1 and Tlisitseng Solar 2 Photovoltaic (PV) Energy Facilities near Lichtenburg, North West Province.
 - Visual Impact Assessment for the proposed construction of the Tlisitseng 1 132kV Substation and associated 132kV Power Line near Lichtenburg, North West Province.
 - Visual Impact Assessment for the proposed construction of the Tlisitseng 2 132kV Substation and associated 132kV Power Line near Lichtenburg, North West Province.
 - Visual Impact Assessment for the proposed construction of the 3000MW PhilCo Green Energy Wind Farm and Associated Infrastructure near Richmond, Northern Cape Province.
 - Visual Impact Assessment for the proposed construction of the Aletta 140MW Wind Energy Facility near Copperton, Northern Cape Province.
 - Visual Impact Assessment for the proposed construction of the Aletta 132kV Substation and associated 132kV Power Line near Copperton, Northern Cape Province.

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- Visual Impact Assessment for the proposed construction of the Eureka 140MW Wind Energy Facility and associated Infrastructure near Copperton, Northern Cape Province.
 - Visual Impact Assessment for the proposed construction of the Eureka 400kV Substation and 400kV Power Line near Copperton, Northern Cape Province.
 - Visual Impact Assessment for the Proposed Construction of the Graskoppies Wind Farm near Loeriesfontein, Northern Cape Province.
 - Basic Visual Impact Assessment for the Proposed Construction of the Graskoppies Substation, Linking Substation and Associated 132kV Power Line near Loeriesfontein, Northern Cape Province.
 - Visual Impact Assessment for the Proposed Construction of the Hartebeest Leegte Wind Farm near Loeriesfontein, Northern Cape Province.
 - Basic Visual Impact Assessment for the Proposed Construction of the Hartebeest Leegte Substation, Linking Substation and Associated 132kV Power Line near Loeriesfontein, Northern Cape Province.
 - Visual Impact Assessment for the Proposed Construction of the Ithemba Wind Farm near Loeriesfontein, Northern Cape Province.
 - Basic Visual Impact Assessment for the Proposed Construction of the Ithemba Substation, Linking Substation and Associated 132kV Power Line near Loeriesfontein, Northern Cape Province.
 - Visual Impact Assessment for the Proposed Construction of the !Xha Boom Wind Farm near Loeriesfontein, Northern Cape Province.
 - Basic Visual Impact Assessment for the Proposed Construction of the !Xha Boom Substation, Linking Substation and Associated 132kV Power Line near Loeriesfontein, Northern Cape Province.
 - Visual Impact Assessment for the Proposed Construction of the 315MW Phezukomoya Wind Energy Facility near Noupoot, Northern Cape Province.
 - Visual Impact Assessment for the Proposed Construction of the 390MW Sankraal Wind Energy Facility near Noupoot, Northern Cape Province.
 - Visual Impact Assessment for the proposed development of the Phase 1 Kuruman Wind Energy Facility, Kuruman, Northern Cape Province
 - Visual Impact Assessment for the proposed development of the Phase 2 Kuruman Wind Energy Facility, Kuruman, Northern Cape Province
 - Basic Visual Impact Assessment for the proposed development of Supporting Electrical Infrastructure to the Phase 1 and Phase 2 Kuruman Wind Energy Facilities, Kuruman, Northern Cape Province
 - Visual Impact Assessment for the Proposed Tinley Manor South Banks Beach Enhancement Solution, KwaZulu-Natal Province.
 - Visual Impact Assessment for the proposed Mlonzi Hotel and Golf Estate Development, Near Lusikisiki, Eastern Cape Province

- Visual Impact Assessment for the Proposed Assagay Valley Development, KwaZulu-Natal Province.
- Visual Impact Assessment for the Proposed Kassier Road North Development, KwaZulu-Natal Province.
- Basic Visual Impact Assessment for the proposed construction of up to a 132kV Power Line and Associated Infrastructure for the Rooipunt Solar Thermal Power Plant near Upington, Northern Cape Province.
- Basic Visual 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 Kimberly, Free State and Northern Cape Provinces.
- Surface Water Assessment for the Steve Thswete Local Municipality, Mpumalanga Province.
- Surface Water Delineation and Assessment for the proposed coal Railway Siding at the Welgedacht Marshalling Yard and associated Milner Road Upgrade near Springs, Ekurhuleni Metropolitan Municipality.

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).
- 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).
- 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 Hukunsi - Ministry of Local Government, Land and Housing (Botswana).
- 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).
- SEA for the Bishopstowe study area in the Msunduzi Local Municipality (KwaZulu-Natal).

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 Thyspunt Transmission Lines Integration Project (Eastern Cape).
- VIA s for various Solar Power Plants and associated grid connection infrastructure (Northern Cape, Free State, Limpopo and North West Province).
- VIAs for various Wind Farms and associated grid connection infrastructure (Northern Cape and Western Cape), the most recent projects including:
 - Graskoppies, Hartebeest Leegte, Ithemba and !Xha Boom Wind Farms near Loeriesfontein (Northern Cape);
 - Kuruman 1 and 2 WEFs near Kuruman (Northern Cape);
 - San Kraal and Phezukomoya WEFs near Noupoort (Northern Cape);
 - Paulputs WEF near Pofadder (Northern Cape)
 - Kudusberg WEF near Matjiesfontein (Western Cape);
 - Tooverberg WEF, near Touws River (Western Cape);
 - Rondekop WEF, near Sutherland (Northern 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).
- 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).

Curriculum vitae: Chris van Rooyen

Profession/Specialisation : Avifaunal Specialist
Highest Qualification : BA LLB
Nationality : South African
Years of experience : 22 years

Key Experience

Chris van Rooyen has twenty-two years' experience in the assessment of avifaunal interactions with industrial infrastructure. He was employed by the Endangered Wildlife Trust as head of the Eskom-EWT Strategic Partnership from 1996 to 2007, which has received international acclaim as a model of co-operative management between industry and natural resource conservation. He is an acknowledged global expert in this field and has consulted in South Africa, Namibia, Botswana, Lesotho, New Zealand, Texas, New Mexico and Florida. He also has extensive project management experience and he has received several management awards from Eskom for his work in the Eskom-EWT Strategic Partnership. He is the author and/or co-author of 17 conference papers, co-author of two book chapters, several research reports and the current best practice guidelines for avifaunal monitoring at wind farm sites. He has completed around 130 power line assessments; and has to date been employed as specialist avifaunal consultant on more than 50 renewable energy generation projects. He has also conducted numerous risk assessments on existing power lines infrastructure. He also works outside the electricity industry and he has done a wide range of bird impact assessment studies associated with various residential and industrial developments. He serves on the Birds and Wind Energy Specialist Group which was formed in 2011 to serve as a liaison body between the ornithological community and the wind industry.

Key Project Experience

Bird Impact Assessment Studies and avifaunal monitoring for wind-powered generation facilities:

1. Eskom Klipheuwel Experimental Wind Power Facility, Western Cape
2. Mainstream Wind Facility Jeffreys Bay, Eastern Cape (EIA and monitoring)
3. Biotherm, Swellendam, (Excelsior), Western Cape (EIA and monitoring)
4. Biotherm, Napier, (Matjieskloof), Western Cape (pre-feasibility)
5. Windcurrent SA, Jeffreys Bay, Eastern Cape (2 sites) (EIA and monitoring)
6. Caledon Wind, Caledon, Western Cape (EIA)
7. Innwind (4 sites), Western Cape (EIA)
8. Renewable Energy Systems (RES) Oyster Bay, Eastern Cape (EIA and monitoring)
9. Oelsner Group (Kerriefontein), Western Cape (EIA)
10. Oelsner Group (Langefontein), Western Cape (EIA)
11. InCa Energy, Vredendal Wind Energy Facility Western Cape (EIA)
12. Mainstream Loeriesfontein Wind Energy Facility (EIA and monitoring)
13. Mainstream Noupoort Wind Energy Facility (EIA and monitoring)
14. Biotherm Port Nolloth Wind Energy Facility (Monitoring)
15. Biotherm Laingsburg Wind Energy Facility (EIA and monitoring)
16. Langhoogte Wind Energy Facility (EIA)
17. Vleesbaai Wind Energy Facility (EIA and monitoring)
18. St. Helena Bay Wind Energy Facility (EIA and monitoring)
19. Electrawind, St Helena Bay Wind Energy Facility (EIA and monitoring)
20. Electrawind, Vredendal Wind Energy Facility (EIA)
21. SAGIT, Langhoogte and Wolseley Wind Energy facilities
22. Renosterberg Wind Energy Project – 12-month preconstruction avifaunal monitoring project
23. De Aar – North (Mulilo) Wind Energy Project – 12-month preconstruction avifaunal monitoring project
24. De Aar – South (Mulilo) Wind Energy Project – 12-month bird monitoring
25. Namies – Aggenys Wind Energy Project – 12-month bird monitoring
26. Pofadder - Wind Energy Project – 12-month bird monitoring
27. Dwarsrug Loeriesfontein - Wind Energy Project – 12-month bird monitoring
28. Waaihoek – Utrecht Wind Energy Project – 12-month bird monitoring
29. Amathole – Butterworth Utrecht Wind Energy Project – 12-month bird monitoring & EIA specialist
30. Phezukomoya and San Kraal Wind Energy Projects 12-month bird monitoring & EIA specialist study (Innwind)
31. Beaufort West Wind Energy Facility 12-month bird monitoring & EIA specialist study (Mainstream)
32. Leeuwdraai Wind Energy Facility 12-month bird monitoring & EIA specialist study (Mainstream)
33. Sutherland Wind Energy Facility 12-month bird monitoring (Mainstream)
34. Maralla Wind Energy Facility 12-month bird monitoring & EIA specialist study (Biotherm)
35. Esizayo Wind Energy Facility 12-month bird monitoring & EIA specialist study (Biotherm)
36. Humansdorp Wind Energy Facility 12-month bird monitoring & EIA specialist study (Cennergi)
37. Aletta Wind Energy Facility 12-month bird monitoring & EIA specialist study (Biotherm)
38. Eureka Wind Energy Facility 12-month bird monitoring & EIA specialist study (Biotherm)
39. Makambako Wind Energy Facility (Tanzania) 12-month bird monitoring & EIA specialist study (Windlab)
40. R355 Wind Energy Facility 12-month bird monitoring (Mainstream)
41. Groenekloof Wind Energy Facility 12-month bird monitoring & EIA specialist study (Mulilo)
42. Tsitsikamma Wind Energy Facility 24-months post-construction monitoring (Cennergi)
43. Noupoort Wind Energy Facility 24-months post-construction monitoring (Mainstream)
44. Kokerboom Wind Energy Facility 12-month bird monitoring & EIA specialist study (Business Venture Investments)
45. Kuruman Wind Energy Facility 12-month bird monitoring & EIA specialist study (Mulilo)
46. Dassieklip Wind Energy Facility 3 years post-construction monitoring (Biotherm)
47. Loeriesfontein 2 Wind Energy Facility 2 years post-construction monitoring (Mainstream)
48. Khobab Wind Energy Facility 2 years post-construction monitoring (Mainstream)
49. Excelsior Wind Energy Facility 18 months construction phase monitoring (Biotherm)
50. Boesmansberg Wind Energy Facility 12-months pre-construction bird monitoring (juwi)
51. Mañhica Wind Energy Facility, Mozambique, 12-months pre-construction monitoring (Windlab)

Bird Impact Assessment Studies for Solar Energy Plants:

1. Concentrated Solar Power Plant, Upington, Northern Cape.
2. Globeleq De Aar and Droogfontein Solar PV Pre- and Post-construction avifaunal monitoring
3. JUWI Kronos PV project, Copperton, Northern Cape
4. Sand Draai CSP project, Groblershoop, Northern Cape
5. Biotherm Helena PV Project, Copperton, Northern Cape
6. Biotherm Letsiao CSP Project, Aggeneys, Northern Cape
7. Biotherm Enamandla PV Project, Aggeneys, Northern Cape
8. Biotherm Sendawo PV Project, Vryburg, North-West
9. Biotherm Tlisitseng PV Project, Lichtenburg, North-West
10. JUWI Hotazel Solar Park Project, Hotazel, Northern Cape
11. Veld Solar One Project, Aggeneys, Northern Cape
12. Brypaal Solar Power Project, Kakamas, Northern Cape
13. ABO Vryburg 1,2,3 Solar PV Project, Vryburg, North-West
14. NamPower CSP Facility near Arandis, Namibia

Bird Impact Assessment Studies for the following overhead line projects:

1. Chobe 33kV Distribution line
2. Athene - Umfolozi 400kV
3. Beta-Delphi 400kV
4. Cape Strengthening Scheme 765kV
5. Flurian-Louis-Trichardt 132kV
6. Ghanzi 132kV (Botswana)
7. Ikaros 400kV
8. Matimba-Witkop 400kV
9. Naboomspruit 132kV
10. Tabor-Flurian 132kV
11. Windhoek - Walvisbaai 220 kV (Namibia)
12. Witkop-Overysseel 132kV
13. Breyten 88kV
14. Adis-Phoebus 400kV
15. Dhuva-Janus 400kV
16. Perseus-Mercury 400kV
17. Gravelotte 132kV
18. Ikaros 400 kV
19. Khanye 132kV (Botswana)
20. Moropule – Thamaga 220 kV (Botswana)
21. Parys 132kV
22. Simplon –Everest 132kV
23. Tutuka-Alpha 400kV
24. Simplon-Der Brochen 132kV
25. Big Tree 132kV
26. Mercury-Ferrum-Garona 400kV
27. Zeus-Perseus 765kV
28. Matimba B Integration Project
29. Caprivi 350kV DC (Namibia)
30. Gerus-Mururani Gate 350kV DC (Namibia)
31. Mmamabula 220kV (Botswana)
32. Steenberg-Der Brochen 132kV
33. Venetia-Paradise T 132kV
34. Burgersfort 132kV
35. Majuba-Umfolozi 765kV
36. Delta 765kV Substation
37. Braamhoek 22kV
38. Steelpoort Merensky 400kV
39. Mmamabula Delta 400kV
40. Delta Epsilon 765kV
41. Gerus-Zambezi 350kV DC Interconnector: Review of proposed avian mitigation measures for the Okavango and Kwando River crossings
42. Giyani 22kV Distribution line
43. Lihobong-Kao 132/11kV distribution power line, Lesotho
44. 132kV Leslie – Wildebeest distribution line
45. A proposed new 50 kV Spoornet feeder line between Sishen and Saldanha
46. Cairns 132kV substation extension and associated power lines
47. Pimlico 132kV substation extension and associated power lines
48. Gyani 22kV
49. Matafin 132kV
50. Nkomazi_Fig Tree 132kV
51. Pebble Rock 132kV
52. Reddersburg 132kV
53. Thaba Combine 132kV
54. Nkomati 132kV
55. Louis Trichardt – Musina 132kV

56. Endicot 44kV
57. Apollo Lepini 400kV
58. Tarlton-Spring Farms 132kV
59. Kuschke 132kV substation
60. Bendstore 66kV Substation and associated lines
61. Kuiseb 400kV (Namibia)
62. Gyani-Malamulele 132kV
63. Watershed 132kV
64. Bakone 132kV substation
65. Eerstegoud 132kV LILO lines
66. Kumba Iron Ore: SWEP - Relocation of Infrastructure
67. Kudu Gas Power Station: Associated power lines
68. Steenberg Booyssendal 132kV
69. Toulon Pumps 33kV
70. Thabatshipi 132kV
71. Witkop-Silica 132kV
72. Bakubung 132kV
73. Nelsriver 132kV
74. Rethabiseng 132kV
75. Tilburg 132kV
76. GaKgapanne 66kV
77. Knobel Gilead 132kV
78. Bochum Knobel 132kV
79. Madibeng 132kV
80. Witbank Railway Line and associated infrastructure
81. Spencer NDP phase 2 (5 lines)
82. Akanani 132kV
83. Hermes-Dominion Reefs 132kV
84. Cape Pensinsula Strengthening Project 400kV
85. Magalakwena 132kV
86. Benficoso 132kV
87. Dithabaneng 132kV
88. Taunus Diepkloof 132kV
89. Taunus Doornkop 132kV
90. Tweedracht 132kV
91. Jane Furse 132kV
92. Majeje Sub 132kV
93. Tabor Louis Trichardt 132kV
94. Riversong 88kV
95. Mamatsekele 132kV
96. Kabokweni 132kV
97. MDPP 400kV Botswana
98. Marble Hall NDP 132kV
99. Bokmakiere 132kV Substation and LILO lines
100. Styldrift 132kV
101. Taunus – Diepkloof 132kV
102. Bighorn NDP 132kV
103. Waterkloof 88kV
104. Camden – Theta 765kV
105. Dhuva – Minerva 400kV Diversion
106. Lesedi –Grootpan 132kV
107. Waterberg NDP
108. Bulgerivier – Dorset 132kV
109. Bulgerivier – Toulon 132kV
110. Nokeng-Fluorspar 132kV
111. Mantsole 132kV
112. Tshilamba 132kV
113. Thabamoopo - Tshebela – Nhlovuko 132kV
114. Arthurseat 132kV
115. Borutho 132kV MTS
116. Volspruit - Potgietersrus 132kV
117. Neotel Optic Fibre Cable Installation Project: Western Cape
117. Matla-Glockner 400kV
118. Delmas North 44kV
119. Houwhoek 11kV Refurbishment
120. Clau-Clau 132kV
121. Ngwedi-Silwerkrans 134kV
122. Nieuwehoop 400kV walk-through
123. Booyssendal 132kV Switching Station
124. Tarlton 132kV
125. Medupi - Witkop 400kV walk-through
126. Germiston Industries Substation
127. Sekgame 132kV
128. Botswana – South Africa 400kV Transfrontier Interconnector
129. Syferkuil – Rampheri 132kV
130. Queens Substation and associated 132kV powerlines
131. Oranjemond 400kV Transmission line

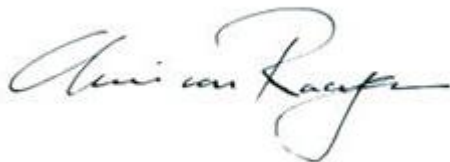
132. Aries – Helios – Juno walk-down
133. Kuruman Phase 1 and 2 Wind Energy facilities 132kV Grid connection
134. Transnet

Bird Impact Assessment Studies for the following residential and industrial developments:

1. Lizard Point Golf Estate
2. Lever Creek Estates
3. Leloko Lifestyle Estates
4. Vaaloewers Residential Development
5. Clearwater Estates Grass Owl Impact Study
6. Sommerset Ext. Grass Owl Study
7. Proposed Three Diamonds Trading Mining Project (Portion 9 and 15 of the Farm Blesbokfontein)
8. N17 Section: Springs To Leandra –“Borrow Pit 12 And Access Road On (Section 9, 6 And 28 Of The Farm Winterhoek 314 Ir)
9. South African Police Services Gauteng Radio Communication System: Portion 136 Of The Farm 528 Jq, Lindley.
10. Report for the proposed upgrade and extension of the Zeekoegat Wastewater Treatment Works, Gauteng.
11. Bird Impact Assessment for Portion 265 (a portion of Portion 163) of the farm Rietfontein 189-JR, Gauteng.
12. Bird Impact Assessment Study for Portions 54 and 55 of the Farm Zwartkop 525 JQ, Gauteng.
13. Bird Impact Assessment Study Portions 8 and 36 of the Farm Nooitgedacht 534 JQ, Gauteng.
14. Shumba's Rest Bird Impact Assessment Study
15. Randfontein Golf Estate Bird Impact Assessment Study
16. Zilkaatsnek Wildlife Estate
17. Regenstein Communications Tower (Namibia)
18. Avifaunal Input into Richards Bay Comparative Risk Assessment Study
19. Maquasa West Open Cast Coal Mine
20. Glen Erasmia Residential Development, Kempton Park, Gauteng
21. Bird Impact Assessment Study, Weltevreden Mine, Mpumalanga
22. Bird Impact Assessment Study, Olifantsvlei Cemetery, Johannesburg
23. Camden Ash Disposal Facility, Mpumalanga
24. Lindley Estate, Lanseria, Gauteng
25. Proposed open cast iron ore mine on the farm Lylyveld 545, Northern Cape
26. Avifaunal monitoring for the Sishen Mine in the Northern Cape as part of the EMPr requirements
27. Steelpoort CNC Bird Impact Assessment Study

Professional affiliations

I work under the supervision of and in association with Albert Froneman (MSc Conservation Biology) (SACNASP Zoological Science Registration number 400177/09) as stipulated by the Natural Scientific Professions Act 27 of 2003.



Chris van Rooyen
06 May 2019



Appendix G

SPECIALIST DECLARATIONS OF INTEREST



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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

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

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

PROPOSED CONSTRUCTION OF THE 235MW GRASKOPPIES, 235MW HARTEBEEST LEEGTE, 235MW ITHEMBA AND THE 235MW IXHA BOOM WIND FARMS NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

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Attention: Chief Director: Integrated Environmental Authorisations
Private Bag X447
Pretoria
0001

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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

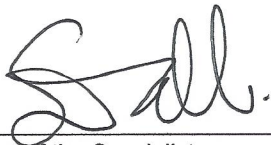
1. SPECIALIST INFORMATION

| | | | |
|--|--|---------|--|
| Specialist Company Name: | 3Foxes Biodiversity Solutions | | |
| B-BBEE | Contribution level (indicate 1 to 8 or non-compliant) | Level 4 | Percentage Procurement recognition 100% |
| Specialist name: | Simon Todd | | |
| Specialist Qualifications: | BSc (Bot. & Zool.) BSc Hons (Zool.) MSc Conservation Biology | | |
| Professional affiliation/registration: | SACNASP Pr.Sci.Nat 400425/11 | | |
| Physical address: | 23 De Villiers Road, Kommetjie | | |
| Postal address: | 23 De Villiers Road, Kommetjie | | |
| Postal code: | 7975 | Cell: | 082 3326502 |
| Telephone: | | Fax: | |
| E-mail: | Simon.Todd@3foxes.co.za | | |

2. DECLARATION BY THE SPECIALIST

I, Simon Todd, 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

3Foxes Biodiversity Solutions

Name of Company:

23/09/2019

Date

3. UNDERTAKING UNDER OATH/ AFFIRMATION

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

[Handwritten Signature]

Signature of the Specialist

3Foxes Biodiversity Solutions

Name of Company

23/09/2019

Date

[Handwritten Signature]
EYBERS BT
CST
2609732-0

Signature of the Commissioner of Oaths

2019-09-23

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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| 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

Proposed construction of the 235MW Hartebeest Leegte Wind Farm near Loeriesfontein, Northern Cape Province

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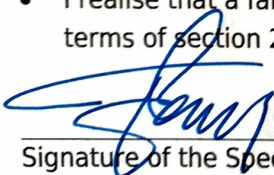
SPECIALIST INFORMATION

| | | | | |
|--|---|-------|------------------------------------|------|
| Specialist Company Name: | Johann Lanz - Soil Scientist | | | |
| B-BBEE | Contribution level (indicate 1 to 8 or non-compliant) | 4 | Percentage Procurement recognition | 100% |
| Specialist name: | Johann Lanz | | | |
| Specialist Qualifications: | M.Sc. (Environmental Geochemistry) | | | |
| Professional affiliation/registration: | Registered Professional Natural Scientist Member of the Soil Science Society of South Africa | | | |
| Physical address: | 1a Wolfe Street, Wynberg, Cape Town, 7800 | | | |
| Postal address: | 1a Wolfe Street, Wynberg, Cape Town, 7800 | | | |
| Postal code: | 7800 | Cell: | 082 927 9018 | |
| Telephone: | 082 927 9018 | Fax: | Who still uses a fax? | |
| E-mail: | johann@johannlanz.co.za | | | |

DECLARATION BY THE SPECIALIST

I, **Johann Lanz**, 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.



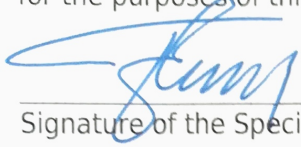
Signature of the Specialist

Name of Company:

Date: 25/09/2019

UNDERTAKING UNDER OATH/ AFFIRMATION

I, **Johann Lanz**, 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 Specialist

JOHANN LANZ - SOIL SCIENTIST

Name of Company

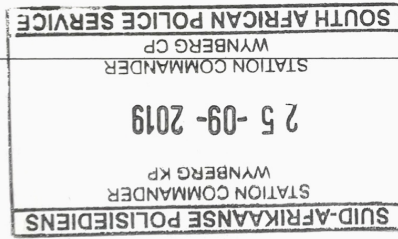
25/09/2019

Date

 **J. MULLER**
0619058-8 CAPTAIN

Signature of the Commissioner of Oaths

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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| 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

PROPOSED CONSTRUCTION OF THE 235MW HARTEBEEST LEEGTE WIND FARM NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

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Email: EIAAdmin@environment.gov.za


1. SPECIALIST INFORMATION

| | | | | |
|--|---|---|---|---|
| Specialist Company Name: | Afrimage Photography (Pty) Ltd t/a Chris van Rooyen Consulting | | | |
| B-BBEE | Contribution level (indicate 1 to 8 or non-compliant) | Contribution level (indicate 1 to 8 or non-compliant) | Contribution level (indicate 1 to 8 or non-compliant) | Contribution level (indicate 1 to 8 or non-compliant) |
| Specialist name: | Chris van Rooyen | | | |
| Specialist Qualifications: | BA LLB | | | |
| Professional affiliation/registration: | I work under the supervision of and in association with Albert Froneman (MSc Conservation Biology) (SACNASP Zoological Science Registration number 400177/09) as stipulated by the Natural Scientific Professions Act 27 of 2003. | | | |
| Physical address: | 30 Roosevelt Street, Robindale, Randburg | | | |
| Postal address: | 30 Roosevelt Street, Robindale, Randburg | | | |
| Postal code: | 2194 | 2194 | 2194 | 2194 |
| Telephone: | 0824549570 | 0824549570 | 0824549570 | 0824549570 |
| E-mail: | Vanrooyen.chris@gmail.com | Vanrooyen.chris@gmail.com | Vanrooyen.chris@gmail.com | Vanrooyen.chris@gmail.com |

2. DECLARATION BY THE SPECIALIST

I, Chris van Rooyen, 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

Afrimage Photography (Pty) Ltd t/a Chris van Rooyen Consulting

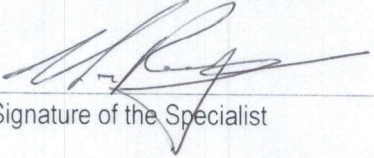
Name of Company:

16 September 2019

Date

3. UNDERTAKING UNDER OATH/ AFFIRMATION

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



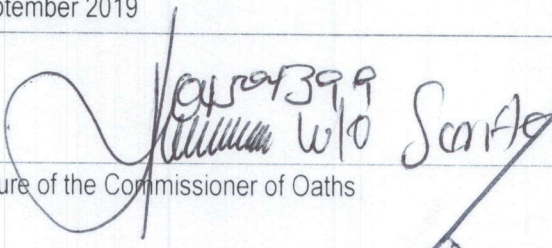
Signature of the Specialist

Afrimage Photography (Pty) Ltd t/a Chris van Rooyen Consulting

Name of Company

16 September 2019

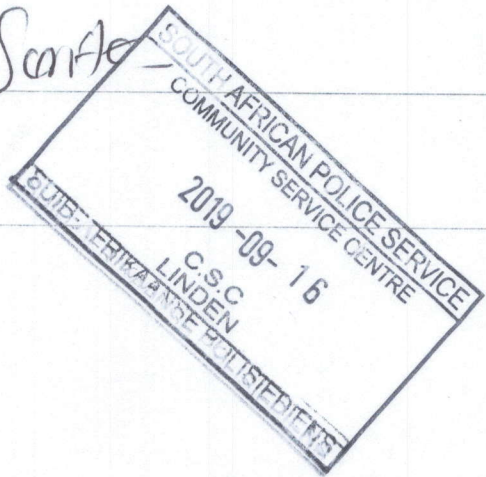
Date



Signature of the Commissioner of Oaths

16 September 2019

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: | Stephanie Dippenaar Consulting | | | |
| B-BBEE | Contribution level (indicate 1 to 8 or non-compliant) | 5 | Percentage Procurement recognition | 80% |
| Specialist name: | Stephanie C Dippenaar | | | |
| Specialist Qualifications: | MEM (Masters in Environmental Management) | | | |
| Professional affiliation/registration: | Southern African Institute of Ecologists and Environmental Scientists (SAIEES) | | | |
| Physical address: | 8 Florida Street, Stellenbosch | | | |
| Postal address: | 8 Florida Street, Stellenbosch | | | |
| Postal code: | 7600 | Cell: | 082 200 5244 | |
| Telephone: | 082 200 5244 | Fax: | | |
| E-mail: | sdippenaar@snowisp.com | | | |

2. DECLARATION BY THE SPECIALIST

I, Stephanie C Dippenaar, 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

Stephanie Dippenaar Consulting

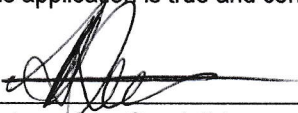
Name of Company:

28 August 2019

Date

3. UNDERTAKING UNDER OATH/ AFFIRMATION

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



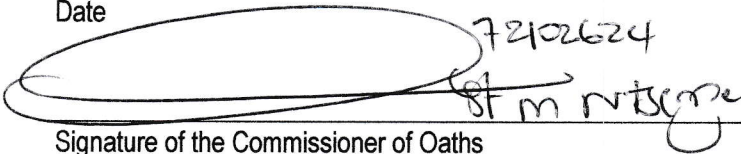
Signature of the Specialist

Stephanie Dippenaar Consulting

Name of Company

2019/08/31

Date



Signature of the Commissioner of Oaths

2019/08/31

Date





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

PROPOSED CONSTRUCTION OF THE 235MW GRASKOPPIES, 235MW HARTEBEEST LEEGTE, 235MW ITHEMBA AND THE 235MW IXHA BOOM WIND FARMS NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

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Departmental Details

Postal address:
 Department of Environmental Affairs
 Attention: Chief Director: Integrated Environmental Authorisations
 Private Bag X447
 Pretoria
 0001

Physical address:
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 Attention: Chief Director: Integrated Environmental Authorisations
 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: | Urban-Econ Development Economists | | |
| B-BBEE | Contribution level (indicate 1 to 8 or non-compliant) | 4 | Percentage Procurement recognition |
| | | | 100% |
| Specialist name: | Elena Broughton | | |
| Specialist Qualifications: | B Com Hon, MSC Tech Management | | |
| Professional affiliation/registration: | - | | |
| Physical address: | 1st Floor, Lake View Office Park, 137 Muckleneuk Street, Brooklyn, 0181 | | |
| Postal address: | | | |
| Postal code: | | Cell: | 082 463 2325 |
| Telephone: | 012 342 8686 | Fax: | 086 619 6911 |
| E-mail: | elena@urbn-econ.com | | |

2. DECLARATION BY THE SPECIALIST

I, Elena Broughton, 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

Urban-Econ Development Economists

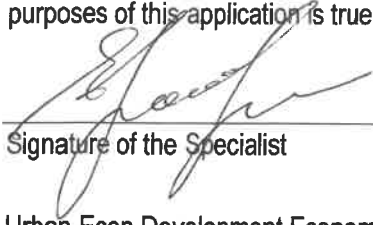
Name of Company:

25 September 2019

Date

3. UNDERTAKING UNDER OATH/ AFFIRMATION

I, Elena Broughton, 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 Specialist

Urban-Econ Development Economists

Name of Company


25 September 2019

Date

Signature of the Commissioner of Oaths

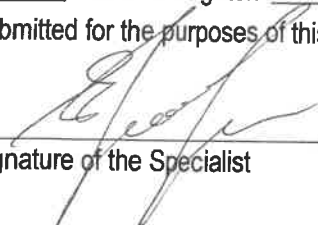
Date

NTHABISENG TSHOLOFELO SINAH MOKOENA
COMMISSIONER OF OATHS
PRACTISING ATTORNEY
Maphoso Mokoena Inc.
137 Muckleneuk Street
1GB Lakeview Office Park, Nieuw Muckleneuk
Pretoria
Tel: 012 771 6826

25 September 2019


3. UNDERTAKING UNDER OATH/ AFFIRMATION

I, _____ Elena Broughton _____, 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 Specialist

Urban-Econ Development Economists

Name of Company

25 September 2019

Date

Signature of the Commissioner of Oaths

Date

NTHABISENG TSHOLOFELO SINAH MOKOENA
COMMISSIONER OF OATHS
PRACTISING ATTORNEY

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137 Muckleneuk Street
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25 September 2019



3. UNDERTAKING UNDER OATH/ AFFIRMATION

I, Elena Broughton, 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 Specialist

Urban-Econ Development Economists

Name of Company


25 September 2019

Date

Signature of the Commissioner of Oaths

Date

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COMMISSIONER OF OATHS
PRACTISING ATTORNEY
Maphoso Mokoena Inc.
137 Muckleneuk Street
1GB Lakeview Office Park, Nieuw Muckleneuk
Pretoria
Tel: 012 771 6826

25 September 2019




environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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

| | (For official use only) |
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| 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

PROPOSED CONSTRUCTION OF THE 235MW GRASKOPPIES, 235MW HARTEBEEST LEEGTE, 235MW ITHEMBA AND THE 235MW IXHA BOOM WIND FARMS NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

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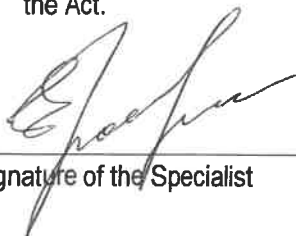
1. SPECIALIST INFORMATION

| | | | |
|--|--|-------|------------------------------------|
| Specialist Company Name: | Urban-Econ Development Economists | | |
| B-BBEE | Contribution level (indicate 1 to 8 or non-compliant) | 4 | Percentage Procurement recognition |
| | | | 100% |
| Specialist name: | Elena Broughton | | |
| Specialist Qualifications: | B Com Hon, MSC Tech Management | | |
| Professional affiliation/registration: | - | | |
| Physical address: | 1st Floor, Lake View Office Park, 137 Muckleneuk Street, Brooklyn, 0181 | | |
| Postal address: | | | |
| Postal code: | | Cell: | 082 463 2325 |
| Telephone: | 012 342 8686 | Fax: | 086 619 6911 |
| E-mail: | elena@urbn-econ.com | | |

2. DECLARATION BY THE SPECIALIST

I, Elena Broughton, 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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- 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

Urban-Econ Development Economists

Name of Company:

25 September 2019

Date

3. UNDERTAKING UNDER OATH/ AFFIRMATION

I, Elena Broughton, 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 Specialist

Urban-Econ Development Economists

Name of Company

25 September 2019

Date

Signature of the Commissioner of Oaths

Date

NTHABISENG TSHOLOFELO SINAH MOKOENA
COMMISSIONER OF OATHS
PRACTISING ATTORNEY
Maphoso Mokoena Inc.
137 Muckleneuk Street
1GB Lakeview Office Park, Nieuw Muckleneuk
Pretoria
Tel: 012 771 6826

25 September 2019





environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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

File Reference Number:
NEAS Reference Number:
Date Received:

(For official use only)

DEA/EIA/

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

PROPOSED CONSTRUCTION OF THE 235MW GRASKOPPIES, 235MW HARTEBEEST LEEGTE, 235MW ITHEMBA AND THE 235MW IXHA BOOM WIND FARMS NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

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Arcadia

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Email: EIAAdmin@environment.gov.za

1. SPECIALIST INFORMATION

| | | | |
|--|--|-------|------------------------------------|
| Specialist Company Name: | Urban-Econ Development Economists | | |
| B-BBEE | Contribution level (indicate 1 to 8 or non-compliant) | 4 | Percentage Procurement recognition |
| | | | 100% |
| Specialist name: | Elena Broughton | | |
| Specialist Qualifications: | B Com Hon, MSC Tech Management | | |
| Professional affiliation/registration: | - | | |
| Physical address: | 1st Floor, Lake View Office Park, 137 Muckleneuk Street, Brooklyn, 0181 | | |
| Postal address: | | | |
| Postal code: | | Cell: | 082 463 2325 |
| Telephone: | 012 342 8686 | Fax: | 086 619 6911 |
| E-mail: | elena@urbn-econ.com | | |

2. DECLARATION BY THE SPECIALIST

I, Elena Broughton, declare that –

- I act as the independent specialist in this application;
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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

Urban-Econ Development Economists

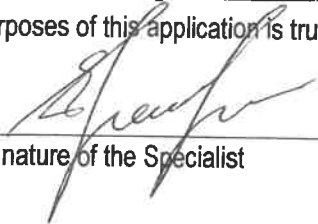
Name of Company:

25 September 2019

Date

3. UNDERTAKING UNDER OATH/ AFFIRMATION

I, Elena Broughton, 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 Specialist

Urban-Econ Development Economists

Name of Company


25 September 2019

Date

Signature of the Commissioner of Oaths

Date

NTHABISENG TSHOLOFELO SINAH MOKOENA
COMMISSIONER OF OATHS
PRACTISING ATTORNEY
Maphoso Mokoena Inc.
137 Muckleneuk Street
1GB Lakeview Office Park, Nieuw Muckleneuk
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25 September 2019




environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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

File Reference Number:
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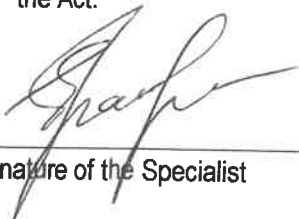
1. SPECIALIST INFORMATION

| | | | |
|--|--|-------|------------------------------------|
| Specialist Company Name: | Urban-Econ Development Economists | | |
| B-BBEE | Contribution level (indicate 1 to 8 or non-compliant) | 4 | Percentage Procurement recognition |
| | | | 100% |
| Specialist name: | Elena Broughton | | |
| Specialist Qualifications: | B Com Hon, MSC Tech Management | | |
| Professional affiliation/registration: | - | | |
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| Telephone: | 012 342 8686 | Fax: | 086 619 6911 |
| E-mail: | elena@urbn-econ.com | | |

2. DECLARATION BY THE SPECIALIST

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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

Urban-Econ Development Economists

Name of Company:

25 September 2019

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: | SiVEST SA (Pty) Ltd | | | |
| B-BBEE | Contribution level (indicate 1 to 8 or non-compliant) | 3 | Percentage Procurement recognition | 110% |
| Specialist name: | Stephen Burton | | | |
| Specialist Qualifications: | BSc., BSc. Hons., MSc. | | | |
| Professional affiliation/registration: | Pr. Sci. Nat. (Registration Number: 117474) | | | |
| Physical address: | VCC Estate, Northview Building, 170 Peter Brown Drive, Pietermaritzburg | | | |
| Postal address: | PO Box 707, Msunduzi | | | |
| Postal code: | 3231 | Cell: | 083 795 2804 | |
| Telephone: | 033 347 1600 | Fax: | 033 347 5762 | |
| E-mail: | Stephenb@sivest.co.za | | | |

2. DECLARATION BY THE SPECIALIST

I, Stephen Burton, 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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Signature of the Specialist

SiVEST SA (Pty) Ltd

Name of Company:

20 September 2019

Date

3. UNDERTAKING UNDER OATH/ AFFIRMATION

I, Stephen Burton, 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 Specialist

SIVEST SA (Pty) Ltd

Name of Company

20 September 2019

Date




Signature of the Commissioner of Oaths

20 September 2019

Date

Jacqueline Chantel Jackson
COMMISSIONER OF OATHS

Signature: 

Divisional Controller
Ref. 9/1/8/2 (R/O) KZN PMB - 08/02/2019

Date: 20/09/2019 Place: PMB
Business Address: VCC Estate, 170 Peter Brown Drive, PMB



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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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

PROPOSED CONSTRUCTION OF THE 235MW GRASKOPPIES, 235MW HARTEBEEST LEEGTE, 235MW ITHEMBA AND THE 235MW !XHA BOOM WIND FARMS NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

Kindly note the following:

1. This form must always be used for applications that must be subjected to Basic Assessment or Scoping & Environmental Impact Reporting where this Department is the Competent Authority.
2. This form is current as of 01 September 2018. It is the responsibility of the Applicant / Environmental Assessment Practitioner (EAP) to ascertain whether subsequent versions of the form have been published or produced by the Competent Authority. The latest available Departmental templates are available at <https://www.environment.gov.za/documents/forms>.
3. A copy of this form containing original signatures must be appended to all Draft and Final Reports submitted to the department for consideration.
4. All documentation delivered to the physical address contained in this form must be delivered during the official Departmental Officer Hours which is visible on the Departmental gate.
5. All EIA related documents (includes application forms, reports or any EIA related submissions) that are faxed; emailed; delivered to Security or placed in the Departmental Tender Box will not be accepted, only hardcopy submissions are accepted.

Departmental Details

Postal address:

Department of Environmental Affairs
Attention: Chief Director: Integrated Environmental Authorisations
Private Bag X447
Pretoria
0001

Physical address:

Department of Environmental Affairs
Attention: Chief Director: Integrated Environmental Authorisations
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: | SiVEST SA (Pty) Ltd | | | |
| 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: | 011 803 7272 | |
| 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;
- 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.

K Schwartz

Signature of the Specialist

SiVEST

Name of Company:

11 July 2019

Date

3. UNDERTAKING UNDER OATH/ AFFIRMATION

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

K Schwartz

Signature of the Specialist

SiVEST

Name of Company

11 July 2019

Date

JcJacks

Signature of the Commissioner of Oaths

11 July 2019

Date

Jacqueline Chantel Jackson
COMMISSIONER OF OATHS

Signature: JcJacks

Divisional Controller
Ref. 9/1/8/2 (R/O) KZN PMB - 08/02/2019

Date: 11/07/2019 Place: PMB
Business Address: VCC Estate, 170 Peter Brown Drive, PMB



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: | |

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PROJECT TITLE

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

1. SPECIALIST INFORMATION

| | | | |
|--|---|-------|------------------------------------|
| Specialist Company Name: | PGS Heritage Pty Ltd | | |
| B-BBEE | Contribution level (indicate 1 to 8 or non-compliant) | 5 | Percentage Procurement recognition |
| | | | 80% |
| Specialist name: | Wouter Fourie | | |
| Specialist Qualifications: | BA (Hon) Archaeology | | |
| Professional affiliation/registration: | Professional member – ASAPA, APHP | | |
| Physical address: | 906 Bergarend Street, Waverley, Pretoria | | |
| Postal address: | PO Box 32542, Totiusdal | | |
| Postal code: | 0134 | Cell: | + 27 82 851 3575 |
| Telephone: | +27 12 332 5305 | Fax: | |
| E-mail: | wouter@pgsheritage.com | | |

2. DECLARATION BY THE SPECIALIST

I, W. 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

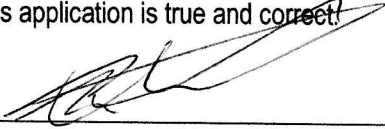
 Name of Company:

23/09/2019

 Date

3. UNDERTAKING UNDER OATH/ AFFIRMATION

I, Wouter Fourie, 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 Specialist

PGS Heritage Pty Ltd

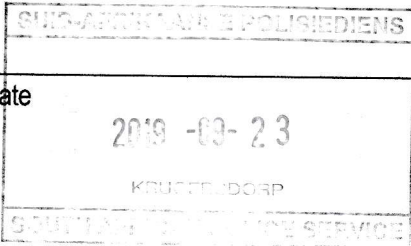
Name of Company

23/09/2019

Date



Signature of the Commissioner of Oaths



Date