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## **CURRICULUM VITAE OF GIDEON RAATH**

**Profession:** Environmental and Permitting Consultant

**Specialisation:** Environmental Impact Assessments, Water Use Licencing, Waste Licencing, Environmental

Compliance Officer, Ecological Specialist, Wetland Specialist, GIS, MPRDA permitting

Work Experience: 4.5 years' experience in environmental management, National Water Act, Mineral and

Petroleum Resources Development Act, ECO and compliance auditing, wetland and

ecological specialist reporting

#### **VOCATIONAL EXPERIENCE**

Gideon holds an MSc (Geography and Environmental Management; SU), a BSc Honours (Ecology and Environmental Studies - Cum laude; Wits) and a BSc (Geography and Environmental Management; UJ). His MSc thesis focused on the hydrological impact on the spatial distribution of invasive Eucalyptus trees along the Breede River, while his honours thesis evaluated ethnobotanical relationships around the Rio Tinto copper mine in Phalaborwa. Most recently he has worked as an Environmental Consultant at EOH Coastal and Environmental Services (EOH CES), conducting environmental authorisations applications (NWA, NEMA, MPRDA), Public Participation Processes, GIS specialisation as well as Ecological and Wetland specialist studies. Previously, Gideon worked as the Monitoring & Evaluation Project Manager for the City of Cape Town's invasive species unit (Environmental Resources Management Department).

Gideon's GIS background includes the management of the City of Cape Town invasive species GIS database, involving the storage, management, recall and quality control off all sightings, clearance visits and known infestations. Further experience include mapping for various consulting projects, boundary verification through ground-truthing and the spatial mapping and delineation component of this MSc research. Gideon has further attended public participation workshops, and has been involved with IAP identification, translation, public meetings and engagement for a variety of projects, mainly within the Afrikaans speaking Northern Cape. Gideon is interested in invasion ecology, treatment of groundwater pollution through phytoremediation, botanical and wetland specialist studies, GIS application for ecology and environmental management, and the EIA processes in general.

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

- Environmental Management
- GIS data manipulation, storage, management and mapping
- EIA Impact Assessments and Basic Assessment
- Environmental Management Programmes
- Environmental Compliance Monitoring
- Mining Rights, Mining Permits, Prospecting Rights (and renewal) applications (MPRDA & NEMA)
- Public and Stakeholder Engagement (NEMA)
- Ecological/Botanical Specialist Studies

- Wetland Delineation, Functional and Impact Assessment studies
- Water Use Licence Applications (NWA)
- General Authorisations (NWA)

#### **EDUCATION AND PROFESSIONAL STATUS**

### Degrees:

- M.Sc. Geography and Environmental Science (2014), Stellenbosch University (2014)
- B.Sc. (Hons) Ecology, Environment and Conservation (Cum Laude), University of the Witwatersrand (2011)
- B.Sc. Life and Environmental Sciences, University of Johannesburg (2010)

#### **Short Courses:**

- GroundTruth SASS5 competency course, GroundTruth Aquatic Consulting (2017)
- DWS 21C&I GA training workshop, Department of Water and Sanitation (2016)
- IAIAsa Public Participation Process Workshop, IAIA South Africa (2016)
- EIA Theory and application, EOH Coastal and Environmental Services (2015)
- Water Safety Training, City of Cape Town Environmental Resources Department (2014)
- Herbicide safety and application for weed control, City of Cape Town Environmental Resources Department (2014)
- Snake awareness training, City of Cape Town Environmental Resources Department (2014)
- Habitable Planet Workshop, Applied Centre for Climate & Earth Systems Science, Cape Town (2011)

#### **Professional Society Affiliations:**

- Golden Key International Honour Society University of the Witwatersrand Chapter
- South African Council for Scientific Natural Professionals (SACNASP): Certified Natural Scientist Pr.Sci.Nat. (Membership No.: 117178)
- IAIAsa (Membership No.: 3619)

#### Other Relevant Skills:

GPS use, spatial data capturing and ground truthing

## **EMPLOYMENT**

| Date                    | Company                          | Roles and Responsibilities  |
|-------------------------|----------------------------------|---|
| October 2018 - Current: | Savannah Environmental (Pty) Ltd | Environmental and Permitting Consultant   |
|                         |                                  | Tasks include: Undertaking environmental impact assessments, basic assessments, environmental management programmes (EMPrs), environmental amendments, water use license applications, general authorisations, wetland assessments, botanical/ecological assessments, mining rights and permit applications, prospecting rights applications, environmental compliance officer audits and reporting, Ensuring environmental compliance on permitting processes, client liaison and relationship management. |

| Date   | Company   | Roles and Responsibilities  |
|--|---|---|
| February 2015 –                                | EOH Coastal and Environmental   | Senior Environmental Consultant   |
| September 2018                                 | Services (Pty) Ltd  | Tasks included: Undertaking environmental impact assessments, basic assessments, environmental management programmes (EMPrs), environmental amendments, water use license applications, general authorisations,   |
|  |   | wetland assessments, botanical/ecological assessments, mining rights and permit applications, prospecting rights applications, environmental compliance officer audits and reporting, Ensuring environmental compliance on permitting processes, client liaison and relationship management, public participation processes for environmental authorisations. |
| March 2014 – February                          | Invasive Species Unit (ISU),  | Professional Officer  |
| 2015   | Environmental Resources Management Department (ERMD), City of Cape Town | Tasks included: Managed the Monitoring & Evaluation project portfolio, entailing the establishment of an invasive species monitoring & evaluation system for the ISU, as well as GIS database management, quality assurance and reporting thereof. Position required managing a   |
|  |   | small staff compliment (dealing directly with GIS database management), managing time and budgets for the monitoring division, conducting monitoring trials and research, writing species management plans as well as handling the GIS database, quality control, verification and integrity for the ISU.   |
| January 2012 – March<br>2014                   | University of Stellenbosch  | Departmental Assistant  |
|  |   | Tasks included: Technical editing of academic reports. Formatting of PhD and MSc reports on a weekly basis, with short turnaround time and good quality feedback.   |
| January 2011 – January<br>2012                 | University of the Witwatersrand   | Departmental Assistant  |
|  |   | <u>Tasks included:</u> Responsible for practical tutorials and marking of 1st year medical students. Included zoology and botany.   |
| January 2006 –<br>November 2010 (part<br>time) | Codeon Networking CC  | Co-founder and web developer  Tasks included: Small business owner, responsible for all facets of the business. Self-taught HTML, CSS, PHP and MySQL. Won and produced two medium   |
|  |   | enterprise websites serving the gaming community. Websites required user profiles & permissions, CMS system and automated payment options as functionality. Development   |

| Date | Company | Roles and Responsibilities             |  |
|------|---------|--|--|
|      |         | and maintenance of a user database and |  |
|      |         | account management system.             |  |

#### **PROJECT EXPERIENCE**

Project experience includes project management, EIA, BA and EMPr documentation development, integrated water use license applications, general authorisations, specialist botanical and ecological impact assessments, specialist wetland delineation and impact assessments, GIS applications and mapping, compliance auditing and monitoring, vegetation rehabilitation and monitoring plans, integrated waste management plans and waste licencing, mining right & permits, as well as prospecting rights applications.

Industry experience includes the waste sector (IWMP's and waste licencing), road and rail infrastructure (BAR, S&EIR, WUL/GA, Waste Licence), ports and harbours (management plans), private sector clients across varying industries (various permits), mining sector (BAR, S&EIR, mining permits and rights, prospecting rights), conservation sector (biodiversity plans), renewable energy industry (BAR, S&EIR) as well as the gas and oil industry (biodiversity reports).

#### **RENEWABLE POWER GENERATION PROJECTS: SOLAR ENERGY FACILITIES**

#### **Environmental Compliance, Auditing and ECO**

| Project Name & Location                      | Client Name               | Role                     |
|--|---------------------------|--------------------------|
| Enel Paleisheuwel Solar compliance auditing, | Enel Green Power RSA (EGP | Environmental consultant |
| Paleisheuwel, Northern Cape                  | RSA)                      |                          |

#### **RENEWABLE POWER GENERATION PROJECTS: WIND ENERGY FACILITIES**

#### **Environmental Impact Assessments and Environmental Management Programmes**

| Project Name & Location                             | Client Name                      | Role                     |
|---|----------------------------------|--------------------------|
| G7 Brandvalley S&EIR, Matjiesfontein, Northern Cape | G7 Renewable Energy (Pty)<br>Ltd | Environmental consultant |
| G7 Rietkloof S&EIR, Matjiesfontein, Northern Cape   | G7 Renewable Energy (Pty)<br>Ltd | Environmental consultant |

#### **Basic Assessments**

| Project Name & Location               | Client Name               | Role                      |
|---------------------------------------|---------------------------|---------------------------|
| G7 Renewable Energy 132kV BAR & EMPr, | G7 Renewable Energy (Pty) | Project Manager,          |
| Matjiesfontein, Northern Cape         | Ltd                       | Environmental consultant, |
|                                       |                           | Public Participation      |

### Compliance Advice and ESAP reporting

| Project Name & Location                            | Client Name             | Role                     |
|--|-------------------------|--------------------------|
| Biotherm Energy Golden Valley Wind Energy Facility | Biotherm Energy Pty Ltd | Environmental consultant |
| ESAP, Bedford, Eastern Cape                        |                         |                          |

#### **Amendments**

| Project Name & Location | Client Name | Role |
|-------------------------|-------------|------|

| Mosselbay Energy EA Amendment, Mosselbay, | Mosselbay Energy IPP (Pty) | Environmental consultant |
|---|----------------------------|--------------------------|
| Western Cape                              | Ltd                        |                          |

## **GAS PROJECTS**

## **Screening Studies**

| Project Name & Location                           | Client Name                | Role                          |
|---|----------------------------|-------------------------------|
| iGas integrated biodiversity screening, Saldanha, | Central Energy Fund - iGas | Environmental consultant,     |
| Western Cape                                      | (subsidiary)               | Faunal specialist (assistant) |

## MINING SECTOR PROJECTS

## **Environmental Impact Assessments and Environmental Management Programmes**

| Project Name & Location                           | Client Name                | Role                     |
|---|----------------------------|--------------------------|
| Triton Minerals Limited Ancuabe and Nicanda Hills | Triton Minerals Ltd        | Environmental consultant |
| EPDA, Ancuabe, Cabo Del Gado Province,            |                            |                          |
| Mozambique  |                            |                          |
| Ancuabe graphite mine Environmental and Social    | Grafex Limitada Mozambique | Environmental consultant |
| Impact Assessment (ESIA), Cabo Del Gado Province, |                            |                          |
| Mozambique  |                            |                          |

#### **Basic Assessments**

| Project Name & Location                          | Client Name                  | Role                          |
|--|------------------------------|-------------------------------|
| SANRAL material sourcing BAR (DMR), Hendrina,    | SANRAL SOC Ltd & Leo         | Project Manager,              |
| Mpumalanga Province                              | consulting engineers         | Environmental consultant,     |
|  |                              | Public Participation          |
| SANRAL Bierspruit R510 Borrow Pit authorisation, | SANRAL SOC Ltd & Royal       | Project Manager,              |
| Thabazimbi, Limpopo Province                     | HaskoningDHV South Africa    | Environmental consultant,     |
|  |                              | Ecological specialist, Public |
|  |                              | Participation                 |
| Almenar tin prospecting BAR, Carnarvon, Northern | Almenar Property Investments | Environmental consultant      |
| Cape   | (Pty) Ltd                    |                               |

## **Rehabilitation Studies**

| Project Name & Location                            | Client Name                | Role                     |
|--|----------------------------|--------------------------|
| Ancuabe baseline vegetation monitoring             | Grafex Limitada Mozambique | Botanical specialist     |
| assessment and programme, Ancuabe, Cabo Del        |                            |                          |
| Gado Province, Mozambique                          |                            |                          |
| Prospecting pit rehabilitation programme, Ancuabe, | Grafex Limitada Mozambique | Botanical specialist,    |
| Cabo Del Gado Province, Mozambique                 |                            | Environmental consultant |
| Mayfield Quarry rehabilitation plan, Grahamstown,  | Mayfield Quarry            | Environmental consultant |
| Eastern Cape                                       |                            |                          |

| Project Name & Location                       | Client Name           | Role                  |
|---|-----------------------|-----------------------|
| Construction monitoring and DMR environmental | SANRAL SOC Ltd & Leo  | Project Manager, ECO, |
| authorisation, Hendrina, Mpumalanga Province  | consulting engineers  |                       |
| SANRAL Caledon N2 Section 3 road upgrade ECO  | JG Afrika Engineering | Project Manager, ECO  |
| Audits and Reporting, Caledon, Western Cape   |                       |                       |
| Province                                      |                       |                       |

## Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

| Project Name & Location                           | Client Name                  | Role                     |
|---|------------------------------|--------------------------|
| VMC Mining permit renewal application, Rust De    | Vergenoeg Mining Company     | Environmental consultant |
| Winter, Gauteng                                   | (Pty) Ltd                    |                          |
| Zirco Resources Kamiesberg heavy mineral sand     | Zirco Roode Heuwel (Pty) Ltd | Environmental consultant |
| mine water use licence, Kamiesberg, Northern Cape |                              |                          |

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

## **Environmental Impact Assessments and Environmental Management Programmes**

| Project Name & Location                        | Client Name           | Role                      |
|--|-----------------------|---------------------------|
| S&EIR authorisation for the SANRAL Zandkraal-  | SANRAL SOC Ltd & SMEC | Project Manager,          |
| Windburg N1 road upgrade, Windburg, Free State | Consulting Engineers  | Environmental consultant, |
| Province                                       |                       | Public Participation      |
| Thabazimbi Local Municipality Integrated Waste | Thabazimbi Local      | Environmental consultant, |
| Management Plan, Thabazimbi, Limpopo Province  | Municipality & Anglo  | Public Participation      |
|  | American Plc          |                           |

#### **Basic Assessments**

| Project Name & Location                           | Client Name                | Role                          |
|---|----------------------------|-------------------------------|
| SANRAL Masekwaspoort N1 Road Upgrade BA, Louis    | SANRAL SOC Ltd & Knight    | Project Manager,              |
| Trichardt, Limpopo Province                       | Piésold Consulting         | Environmental consultant,     |
|   |                            | Public Participation          |
| SANRAL Polokwane N1 Ring Road Upgrade Basic       | SANRAL SOC Ltd & KBK       | Environmental consultant      |
| Assessment, Polokwane, Limpopo Province           | Engineers                  |                               |
| Boshoek Loop Rail Upgrade BAR, Rustenburg, North- | Transnet SOC Ltd           | Project Manager,              |
| West Province                                     |                            | Environmental consultant,     |
|   |                            | Wetland specialist, Public    |
|   |                            | Participation                 |
| Heysterkrand Loop Rail Upgrade BAR, Rustenburg,   | Transnet SOC Ltd           | Project Manager,              |
| North-West Province                               |                            | Environmental consultant,     |
|   |                            | Public Participation          |
| SANRAL Bierspruit R510 road upgrade Basic         | SANRAL SOC Ltd & Royal     | Project Manager,              |
| Assessment, Thabazimbi, Limpopo Province          | HaskoningDHV South Africa  | Environmental consultant,     |
|   |                            | Ecological specialist, Public |
|   |                            | Participation                 |
| Barberton IAPS Waste Water Treatment Works        | Umjindi Local Municipality | Project Manager,              |
| development BAR, Barberton, Mpumalanga            | and Rhodes University      | Environmental consultant,     |
| Province  |                            | Public Participation          |
| SANRAL Caledon N2 Section 3 road upgrade project  | JG Afrika Engineering      | Project Manager,              |
| Basic Assessment, Caledon, Western Cape Province  |                            | Environmental consultant,     |
|   |                            | Ecological specialist, ECO    |

## **Environmental Compliance, Auditing and ECO**

| Project Name & Location                       | Client Name          | Role                             |
|---|----------------------|----------------------------------|
| Construction Monitoring and DMR environmental | SANRAL SOC Ltd & Leo | Project Manager,                 |
| authorisation, Hendrina, Mpumalanga Province  | consulting engineers | Environmental consultant,<br>ECO |

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

| Project Name & Location                              | Client Name                | Role                          |
|--|----------------------------|-------------------------------|
| Water use licence for the SANRAL Zandkraal-          | SANRAL SOC Ltd & SMEC      | Project Manager,              |
| Windburg N1 road upgrade and quarrying,              | Consulting Engineers       | Environmental consultant,     |
| Windburg, Free State Province                        |                            | Public Participation          |
| SANRAL Masekwaspoort N1 road upgrade water use       | SANRAL SOC Ltd & Knight    | Project Manager,              |
| licence application, Louis Trichardt, Limpopo        | Piésold Consulting         | Environmental consultant,     |
| Province   |                            | Public Participation          |
| Boshoek Loop Rail Upgrade water use licence          | Transnet SOC Ltd           | Project Manager,              |
| application, Rustenburg, North-West Province         |                            | Environmental consultant,     |
|  |                            | Wetland specialist, Public    |
|  |                            | Participation                 |
| SANRAL Bierspruit R510 road water use licence,       | SANRAL SOC Ltd & Royal     | Project Manager,              |
| Thabazimbi, Limpopo Province                         | HaskoningDHV South Africa  | Environmental consultant,     |
|  |                            | Ecological specialist, Public |
|  |                            | Participation                 |
| Barberton IAPS Waste Water Treatment Works water     | Umjindi Local Municipality | Project Manager,              |
| use licence and SASS 5 assessment, Barberton,        | and Rhodes University      | Environmental consultant,     |
| Mpumalanga Province                                  |                            | Aquatic specialist, Public    |
|  |                            | Participation                 |
| SANRAL Caledon N2 Section 3 road upgrade water       | JG Afrika Engineering      | Project Manager,              |
| use licence and specialist reports, Caledon, Western |                            | Environmental consultant,     |
| Cape Province  |                            | Ecological specialist, Public |
|  |                            | Participation                 |

## **HOUSING AND URBAN PROJECTS**

## **Environmental Impact Assessments and Environmental Management Programmes**

| Project Name & Location                           | Client Name         | Role                      |
|---|---------------------|---------------------------|
| Scoping and EIR authorisation, Water Use Licence, | Frances Baard Local | Project Manager,          |
| for the Ganspan tourism facility development, Jan | Municipality        | Environmental consultant, |
| Kempdorp, Northern Cape                           |                     | Public Participation      |

## **Basic Assessments**

| Project Name & Location                            | Client Name                    | Role                      |
|--|--------------------------------|---------------------------|
| Basic Assessment for the office complex            | South African National         | Project Manager,          |
| development within the Pretoria National Botanical | Biodiversity Institute (SANBI) | Environmental consultant, |
| Gardens, Pretoria, Gauteng                         |                                | Public Participation, ECO |
| Corner Berg and Drooge Street township             | Ramotshere Moiloa Local        | Project Manager,          |
| development BAR, Zeerust, North-West Province      | Municipality                   | Environmental consultant, |
|  |                                | Public Participation      |
| Corner Kort and Bree Street township development   | Ramotshere Moiloa Local        | Project Manager,          |
| BAR, Zeerust, North-West Province                  | Municipality                   | Environmental consultant, |
|  |                                | Public Participation      |
| Hope Village township development BAR,             | Door of Hope Charity           | Project Manager,          |
| Johannesburg, Gauteng                              | Organisation                   | Environmental consultant, |
|  |                                | Public Participation      |
| ACSA Jones Road Filling Station Basic Assessment,  | Airports Company South         | Project Manager,          |
| Johannesburg, Gauteng                              | Africa SOC Ltd                 | Environmental consultant, |
|  |                                | Public Participation      |

## **Screening Studies**

| Project Name & Location                      | Client Name                 | Role                     |
|--|-----------------------------|--------------------------|
| Kibler Park Church Development ecological    | Riverside Community Church  | Project Manager,         |
| assessment, Johannesburg, Gauteng            |                             | Ecological specialist    |
| DEA Quoin Point dune specialist assessments, | Department of Environmental | Project Manager,         |
| Gansbaai, Western Cape                       | Affairs (national)          | Environmental consultant |

# Environmental Compliance, Auditing and ECO

| Project Name & Location                            | Client Name                    | Role                      |
|--|--------------------------------|---------------------------|
| Transnet Depot and Siding compliance auditing      | Transnet SOC Ltd               | ECO                       |
| programme, Johannesburg, Gauteng & Rustenburg,     |                                |                           |
| North-West Province                                |                                |                           |
| Environmental compliance monitoring for the office | South African National         | Project Manager,          |
| complex development within the Pretoria National   | Biodiversity Institute (SANBI) | Environmental consultant, |
| Botanical Gardens, Pretoria, Gauteng               |                                | Public Participation, ECO |

## Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

| Project Name & Location                             | Client Name                    | Role                      |
|---|--------------------------------|---------------------------|
| Atmospheric Emissions Licence, Section 24G for the  | ER Galvanizers Pty Ltd         | Project Manager,          |
| ER Galvanizing plant and operations, Johannesburg,  |                                | Environmental consultant, |
| Gauteng   |                                | Public Participation      |
| City of Johannesburg nature reserve proclamation    | City of Johannesburg SOC       | Project Manager,          |
| (Phase II), Johannesburg, Gauteng                   | Ltd                            | Environmental consultant, |
|   |                                | Public Participation,     |
|   |                                | Botanical specialist      |
| Hope Village township development water use         | Door of Hope Charity           | Project Manager,          |
| licence, Johannesburg, Gauteng                      | Organisation                   | Environmental consultant, |
|   |                                | Public Participation      |
| Diamond Park Township Development Section 24G,      | Sol Plaatje Local Municipality | Project Manager,          |
| Kimberley, Northern Cape                            |                                | Environmental consultant, |
|   |                                | Public Participation      |
| Boschendal Wine Estate hydro-electric power station | Boschendal Wine Estate         | Environmental consultant  |
| Water Use Licence and S24G application,             |                                |                           |
| Stellenbosch, Western Cape                          |                                |                           |
| City of Johannesburg nature reserve proclamation    | City of Johannesburg SOC       | Environmental consultant  |
| boundary verification (Phase I), Johannesburg,      | Ltd                            |                           |
| Gauteng   |                                |                           |
| PRDW Cape Town harbour breakwater rehabilitation    | PRDW Engineering               | Project Manager,          |
| EMPr, Cape Town, Western Cape                       |                                | Environmental consultant  |
| PRDW Bushman's Estuary dune encroachment            | PRDW Engineering               | Environmental consultant  |
| project management, Kenton-on-sea, Eastern Cape     |                                |                           |
| Corner Berg and Drooge Street township              | Ramotshere Moiloa Local        | Project Manager,          |
| development water use licence application,          | Municipality                   | Environmental consultant  |
| Zeerust, North-West Province                        |                                |                           |
| Corner Kort and Bree Street township development    | Ramotshere Moiloa Local        | Project Manager,          |
| water use licence, Zeerust, North-West Province     | Municipality                   | Environmental consultant  |
| Bloekombos (Kraaifontein) hospital water use        | Western Cape Provincial        | Project Manager,          |
| licence application, Cape Town, Western Cape        | Government (PGWC)              | Environmental consultant, |
|   |                                | Botanical specialist,     |
|   |                                | Wetland specialist        |

## **SPECIALIST STUDIES**

| Project Name & Location                            | Client Name                | Role                          |
|--|----------------------------|-------------------------------|
| Boshoek Loop Rail Upgrade BAR and Water Use        | Transnet SOC Ltd           | Wetland specialist            |
| Licence, Rustenburg, North-West Province           |                            |                               |
| City of Johannesburg nature reserve proclamation   | City of Johannesburg SOC   | Botanical specialist          |
| (Phase II), Johannesburg, Gauteng                  | Ltd                        |                               |
| SANRAL Bierspruit R510 road upgrade Water Use      | SANRAL SOC Ltd & Royal     | Ecological specialist         |
| Licence, Basic Assessment, Thabazimbi, Limpopo     | HaskoningDHV South Africa  |                               |
| Province   |                            |                               |
| Kibler Park Church Development Ecological          | Riverside Community Church | Ecological specialist         |
| Assessment, Johannesburg, Gauteng                  |                            |                               |
| Barberton IAPS Waste Water Treatment Works         | Umjindi Local Municipality | Aquatic specialist            |
| development BAR, water use licence and SASS 5      | and Rhodes University      |                               |
| assessment, Barberton, Mpumalanga Province         |                            |                               |
| Wijnberg Trust Dam 2 expansion Aquatic Impact      | Wijnberg Trust             | Aquatic specialist            |
| Assessment   |                            |                               |
| SANRAL Caledon N2 Section 3 road upgrade project   | JG Afrika Engineering      | Ecological specialist         |
| Basic Assessment, Water Use Licence and Specialist |                            |                               |
| reports, Caledon, Western Cape Province            |                            |                               |
| City of Johannesburg nature reserve proclamation   | City of Johannesburg SOC   | GIS specialist                |
| boundary verification (Phase I), Johannesburg,     | Ltd                        |                               |
| Gauteng  |                            |                               |
| iGas integrated biodiversity screening, Saldanha,  | Central Energy Fund - iGas | Faunal specialist (assistant) |
| Western Cape                                       | (subsidiary)               |                               |
| Bloekombos (Kraaifontein) botanical baseline and   | Western Cape Provincial    | Wetland specialist            |
| impact assessment, Cape Town, Western Cape         | Government (PGWC)          | Botanical specialist          |

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

- Environmental Management
- GIS data manipulation, storage, management and mapping
- EIA Impact Assessments and Basic Assessment
- Environmental Management Programmes
- Environmental Compliance Monitoring
- Mining Rights, Mining Permits, Prospecting Rights (and renewal) applications (MPRDA & NEMA)
- Public and Stakeholder Engagement (NEMA)
- Water Use Licence Applications (NWA)
- General Authorisations (NWA)

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#### **EDUCATION AND PROFESSIONAL STATUS**

#### Degrees:

- B.Sc. (Hons) Geography and Environmnetal Science (With Distinction), University of the Pretoria (2018)
- B.Sc. Environmental Science (With Distinction), University of Pretoria (2017)

#### **Short Courses:**

- SRI GIS Training: ArcGIS 1
- ASPASA Environmnetal Conference 2019
- Minerals Council Meeting/Workshop (Water Conservation and Demand Management Self-Assessment Tool Training – 2019)

#### **Professional Society Affiliations:**

Golden Key International Honour Society – University of Pretoria (2016, 2017 and 2018)

#### **EMPLOYMENT**

| Date                            | Company                          | Roles and Responsibilities  |
|---------------------------------|----------------------------------|---|
| January 2020 - Current:         | Savannah Environmental (Pty) Ltd | Junior Environmental Consultant   |
|                                 |                                  | Tasks Include: Undertaking environmental impact assessments, basic assessments, environmental management programmes (EMPrs) and public participation documentation, compilation of application forms, general authorisations, environmental compliance officer audits and reporting, ensuring environmental compliance on permitting processes, site visits, GIS mapping, client liaison and relationship management. |
| January 2019 -<br>December 2019 | BECS (Pty) Ltd                   | Independent Environmnetal Consultant  |
|                                 |                                  | Tasks Included: -Conducting weekly and monthly Environmental inspections/Audits, General Admin concerning all Environmental matters, Attending several Training Courses: ESRI ArcGIS (Introduction to GIS), ASPASA Environmental Conference,  |

| Date                                 | Company   | Roles and Responsibilities   |
|--------------------------------------|---|--|
|                                      |   | Minerals Council Meeting/Workshop (Water Conservation and Demand Management Self-Assessment Tool Training), GIS Specialisation skills and map making, creation of storm water management plans, conducting Monthly Ground and Surface Water Sampling and subsequent analysis, assistance with all Mine Licenses, Audits, Procedures and compliance issues in terms of NEMA, NWA, IWWMP, NEMBA and several government notices to name a few, compiling Risk Assessments and Planned Task Observations, Data collection, manipulation and analysis across all Environmental issues in accordance with all licenses, Creation of Environmnetal Management Programmes and Performance Assessments, Creation of Internal IWUL audit reports as well as Quarterly Water Quality Status Reports, Bathometric Assessments and Stockpile Assessments. |
| June 2017 – to date  February 2018 – | Angel Maths  University of Pretoria – Philemon Tsele  | High School Team Leader and Tutor  Tasks Included: Prepare well-planned lessons for students from grade eight to first year University level in Science, Chemistry, Mathematics, AP Mathematics and Cambridge Mathematics, checking school work is up to date and prepare additional worksheets for revision, preparing and performing exam and test sessions – extra work, past papers, memos and extra programs, arrival on time at classroom at Angel Maths office for "one-on-one or two-on-one extra lessons", creating and sending out invoices to all parents each month using the Angel Maths invoice template.  Teaching Assistant and Remote Sensing Assistant   |
| November 2018  January 2015 – June   | Men-Tu-Toring   | Tasks Included: Marking of all scripts - Remote sensing semester tests, practical's, assignments and Exams, extensive Remote sensing assistance required throughout the year, from practical/lab assistance to lecture assistance and extra lessons, provided detailed corrections where necessary on scripts.   |
| 2017                                 | THE TOTAL STATE OF THE TAXABLE STATE OF TAXABLE STATE | Tasks Included: Prepared well-planned lessons for students in Science, Mathematics, Music, Geography, English, French and Afrikaans for all grades and Grade 8 and 9 Accounting and EMS, checked school work was up to date and  |

| Date | Company | Roles and Responsibilities                         |  |
|------|---------|--|--|
|      |         | prepared additional worksheets and revision        |  |
|      |         | papers, prepared intense exam and test sessions –  |  |
|      |         | extra work, past papers, memos and extra           |  |
|      |         | programs, arrival on time at classroom at Pretoria |  |
|      |         | Boys High School for "one-on-one extra lessons",   |  |
|      |         | arrival on time at students' homes for one-on-one  |  |
|      |         | extra lessons whenever required by student.        |  |





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#### **CURRICULUM VITAE OF ETHANNE SOAR**

**Profession:** Environnemental Consultant and GIS Consultant

Specialisation: Environmental Impact Assessments, Basic Assessments, Water Use Licencing,

Environmental Compliance Officer, GIS,

Work Experience: 3 Year Experience in Environmental Management and GIS field

#### **VOCATIONAL EXPERIENCE**

Ethanne Soar holds a BScHONS (Geography and Environmental Science - With Distinction; University of Pretoria) and a BSc (Environmental Science - With Distinction; University of Pretoria). His BScHONS thesis involved a socio-spatial risk assessment and analysis of fortress conservation approaches to address rhino poaching in the context of two private and two public nature reserves in south Africa. Currently Ethanne is studying an MSc (Environmental Management) at the University of Pretoria which he plans to complete by the end of 2020.

Ethanne has worked as an Independent Environmental Consultant in 2019 for BECs (Pty) Ltd, where he was involved in conducting Environmental Authorisation Applications (NWA, NEMA, MPRDA, IWWMP), Public Participation Processes, Ground and Surface Water Quality Sampling, Stormwater Management Plans, Bathometric Assessments, Environmental Compliance Auditing and inspections on a weekly and monthly basis, Environmental Impact Assessments, Basic Assessments, GIS Specialisation, Risk Assessments, Planned Task Observations, IWUL Audit Reports, Quarterly Water Quality Status Reports, Extensive ECO Work, Game and Veld management and lastly Training Courses in: AcGIS (Offered by ESRI), ASPASA Environmental Conference and the Minerals Council Meeting/Workshop (Water Conservation and Demand Management Self-Assessment Tool Training).



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### **CURRICULUM VITAE OF JO-ANNE THOMAS**

Profession: Environmental Management and Compliance Consultant; Environmental Assessment

Practitioner

**Specialisation:** Environmental Management; Strategic environmental advice; Environmental compliance

advice & monitoring; Environmental Impact Assessments; Policy, strategy & guideline

formulation; Project Management; General Ecology

Work experience: Twenty one (21) years in the environmental field

#### **VOCATIONAL EXPERIENCE**

Provide technical input for projects in the environmental management field, specialising in Strategic Environmental Advice, Environmental Impact Assessment studies, environmental auditing and monitoring, environmental permitting, public participation, Environmental Management Plans and Programmes, environmental policy, strategy and guideline formulation, and integrated environmental management. Key focus on integration of the specialist environmental studies and findings into larger engineering-based projects, strategic assessment, and providing practical and achievable environmental management solutions and mitigation measures. Responsibilities for environmental studies include project management (including client and authority liaison and management of specialist teams); review and manipulation of data; identification and assessment of potential negative environmental impacts and benefits; review of specialist studies; and the identification of mitigation measures. Compilation of the reports for environmental studies is in accordance with all relevant environmental legislation.

Undertaking of numerous environmental management studies has resulted in a good working knowledge of environmental legislation and policy requirements. Recent projects have been undertaken for both the public- and private-sector, including compliance advice and monitoring, electricity generation and transmission projects, various types of linear developments (such as National Road, local roads and power lines), waste management projects (landfills), mining rights and permits, policy, strategy and guideline development, as well as general environmental planning, development and management.

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

- Project management for a range of projects
- Identification and assessment of potential negative environmental impacts and benefits through the review and manipulation of data and specialist studies
- Identification of practical and achievable mitigation and management measures and the development of appropriate management plans
- Compilation of environmental reports in accordance with relevant environmental legislative requirements
- External and peer review of environmental reports & compliance advice and monitoring
- Formulation of environmental policies, strategies and guidelines
- Strategic and regional assessments; pre-feasibility & site selection
- Public participation processes for a variety of projects
- Strategic environmental advice to a wide variety of clients both in the public and private sectors
- Working knowledge of environmental planning processes, policies, regulatory frameworks and legislation

#### **EDUCATION AND PROFESSIONAL STATUS**

#### Degrees:

- B.Sc Earth Sciences, University of the Witwatersrand, Johannesburg (1993)
- B.Sc Honours in Botany, University of the Witwatersrand, Johannesburg (1994)
- M.Sc in Botany, University of the Witwatersrand, Johannesburg (1996)

#### **Short Courses:**

- Environmental Impact Assessment, Potchefstroom University (1998)
- Environmental Law, Morgan University (2001)
- Environmental Legislation, IMBEWU (2017)
- Mining Legislation, Cameron Cross & Associates (2013)
- Environmental and Social Risk Management (ESRM), International Finance Corporation (2018)

#### **Professional Society Affiliations:**

- Registered with the South African Council for Natural Scientific Professions as a Professional Natural Scientist: Environmental Scientist (400024/00)
- Registered with the International Associated for Impact Assessment South Africa (IAIAsa): 5601
- Member of the South African Wind Energy Association (SAWEA)

#### **EMPLOYMENT**

| Date                | Company                          | Roles and Responsibilities                       |
|---------------------|----------------------------------|--|
| 2006 - Current      | Savannah Environmental (Pty) Ltd | Director   |
|                     |                                  | Project manager                                  |
|                     |                                  | Independent specialist environmental consultant, |
|                     |                                  | Environmental Assessment Practitioner (EAP) and  |
|                     |                                  | advisor.   |
| 1997 – 2005         | Bohlweki Environmental (Pty) Ltd | Senior Environmental Scientist at. Environmental |
|                     |                                  | Management and Project Management                |
| January – July 1997 | Sutherland High School, Pretoria | Junior Science Teacher                           |

#### **PROJECT EXPERIENCE**

Project experience includes large infrastructure projects, providing technical input for projects in the environmental management field, specialising in Strategic Environmental Advice, Environmental Impact Assessment studies, environmental permitting, Public Participation, Environmental Management Plans (EMPs) and Programmes (EMPrs), environmental policy, strategy and guideline formulation, and integrated environmental management; with a key focus on strategic assessment, and providing practical and achievable environmental management solutions and mitigation measures.

## RENEWABLE POWER GENERATION PROJECTS: PHOTOVOLTAIC SOLAR ENERGY FACILITIES

| Project Name & Location                             | Client Name      | Role            |
|---|------------------|-----------------|
| ECO and bi-monthly auditing for the construction of | Enel Green Power | Project Manager |
| the Adams Solar PV Project Two South of Hotazel,    |                  |                 |
| Northern Cape                                       |                  |                 |
| ECO for the construction of the Kathu PV Facility,  | REISA            | Project Manager |
| Northern Cape                                       |                  |                 |
| ECO and bi-monthly auditing for the construction of | Enel Green Power | Project Manager |
| the Pulida PV Facility, Free State                  |                  |                 |

| Project Name & Location                               | Client Name            | Role            |
|---|------------------------|-----------------|
| ECO for the construction of the RustMo1 SEF, North    | Momentous Energy       | Project Manager |
| West  |                        |                 |
| ECO for the construction of the Sishen SEF, Northern  | Windfall 59 Properties | Project Manager |
| Cape  |                        |                 |
| ECO for the construction of the Upington Airport PV   | Sublanary Trading      | Project Manager |
| Facility, Northern Cape                               |                        |                 |
| Quarterly compliance monitoring of compliance         | REISA                  | Project Manager |
| with all environmental licenses for the operation     |                        |                 |
| activities at the Kathu PV facility, Northern Cape    |                        |                 |
| ECO for the construction of the Konkoonsies II PV SEF | BioTherm Energy        | Project Manager |
| and associated infrastructure, Northern Cape          |                        |                 |
| ECO for the construction of the Aggeneys PV SEF       | BioTherm Energy        | Project Manager |
| and associated infrastructure, Northern Cape          |                        |                 |

# Compliance Advice and ESAP Reporting

| Project Name & Location                             | Client Name            | Role                  |
|---|------------------------|-----------------------|
| Aggeneys Solar Farm, Northern Cape                  | BioTherm Energy        | Environmental Advisor |
| Airies II PV Facility SW of Kenhardt, Northern Cape | BioTherm Energy        | Environmental Advisor |
| Kalahari SEF Phase II in Kathu, Northern Cape       | Engie                  | Environmental Advisor |
| Kathu PV Facility, Northern Cape                    | Building Energy        | Environmental Advisor |
| Kenhardt PV Facility, Northern Cape                 | BioTherm Energy        | Environmental Advisor |
| Kleinbegin PV SEF West of Groblershoop, Northern    | MedEnergy              | Environmental Advisor |
| Cape  |                        |                       |
| Konkoonises II SEF near Pofadder, Northern Cape     | BioTherm Energy        | Environmental Advisor |
| Konkoonsies Solar Farm, Northern Cape               | BioTherm Energy        | Environmental Advisor |
| Lephalale SEF, Limpopo                              | Exxaro                 | Environmental Advisor |
| Pixley ka Seme PV Park, South-East of De Aar,       | African Clean Energy   | Environmental Advisor |
| Northern Cape                                       | Developments (ACED)    |                       |
| RustMo1 PV Plant near Buffelspoort, North West      | Momentous Energy       | Environmental Advisor |
| Scuitdrift 1 SEF & Scuitdrift 2 SEF, Limpopo        | Building Energy        | Environmental Advisor |
| Sirius PV Plants, Northern Cape                     | Aurora Power Solutions | Environmental Advisor |
| Upington Airport PV Power Project, Northern Cape    | Sublunary Trading      | Environmental Advisor |
| Upington SEF, Northern Cape                         | Abengoa Solar          | Environmental Advisor |
| Ofir-ZX PV SEF near Keimoes, Northern Cape          | Networx \$28 Energy    | Environmental Advisor |

## **Due Diligence Reporting**

| Project Name & Location                              | Client Name            | Role                  |
|--|------------------------|-----------------------|
| 5 PV SEF projects in Lephalale, Limpopo              | iNca Energy            | Environmental Advisor |
| Prieska PV Plant, Northern Cape                      | SunEdison Energy India | Environmental Advisor |
| Sirius Phase One PV Facility near Upington, Northern | Aurora Power Solutions | Environmental Advisor |
| Cape   |                        | ļ                     |

## RENEWABLE POWER GENERATION PROJECTS: CONCENTRATED SOLAR FACILITIES (CSP)

| Project Name & Location                               | Client Name         | Role            |
|---|---------------------|-----------------|
| ECO for the construction of the !Khi CSP Facility,    | Abengoa Solar       | Project Manager |
| Northern Cape   |                     |                 |
| ECO for the construction of the Ilanga CSP 1 Facility | Karoshoek Solar One | Project Manager |
| near Upington, Northern Cape                          |                     |                 |

| Project Name & Location                              | Client Name         | Role            |
|--|---------------------|-----------------|
| ECO for the construction of the folar Park, Northern | Kathu Solar         | Project Manager |
| Cape   |                     |                 |
| ECO for the construction of the KaXu! CSP Facility,  | Abengoa Solar       | Project Manager |
| Northern Cape  |                     |                 |
| Internal audit of compliance with the conditions of  | Karoshoek Solar One | Project Manager |
| the IWUL issued to the Karoshoek Solar One CSP       |                     |                 |
| Facility, Northern Cape                              |                     |                 |

## Compliance Advice and ESAP reporting

| Project Name & Location                          | Client Name      | Role                  |
|--|------------------|-----------------------|
| Ilanga CSP Facility near Upington, Northern Cape | llangethu Energy | Environmental Advisor |
| llangalethu CSP 2, Northern Cape                 | FG Emvelo        | Environmental Advisor |
| Kathu CSP Facility, Northern Cape                | GDF Suez         | Environmental Advisor |
| Lephalale SEF, Limpopo                           | Cennergi         | Environmental Advisor |
| Solis I CSP Facility, Northern Cape              | Brightsource     | Environmental Advisor |

## RENEWABLE POWER GENERATION PROJECTS: WIND ENERGY FACILITIES

# Environmental Compliance, Auditing and ECO

| Project Name & Location                                | Client Name       | Role            |
|--|-------------------|-----------------|
| ECO for the construction of the West Coast One         | Aurora Wind Power | Project Manager |
| WEF, Western Cape                                      |                   |                 |
| ECO for the construction of the Gouda WEF,             | Blue Falcon       | Project Manager |
| Western Cape   |                   |                 |
| EO for the Dassiesklip Wind Energy Facility, Western   | Group 5           | Project Manager |
| Cape   |                   |                 |
| Quarterly compliance monitoring of compliance          | Blue Falcon       | Project Manager |
| with all environmental licenses for the operation      |                   |                 |
| activities at the Gouda Wind Energy facility near      |                   |                 |
| Gouda, Western Cape                                    |                   |                 |
| Annual auditing of compliance with all                 | Aurora Wind Power | Project Manager |
| environmental licenses for the operation activities at |                   |                 |
| the West Coast One Wind Energy facility near           |                   |                 |
| Vredenburg, Western Cape                               |                   |                 |
| External environmental and social audit for the        | Cennergi          | Project Manager |
| Amakhala Wind Farm, Eastern Cape                       |                   |                 |
| External environmental and social audit for the        | Cennergi          | Project Manager |
| Tsitsikamma Wind Farm, Eastern Cape                    |                   |                 |
| ECO for the construction of the Excelsior Wind Farm    | BioTherm Energy   | Project Manager |
| and associated infrastructure, Northern Cape           |                   |                 |
| External compliance audit of the Dassiesklip Wind      | BioTherm Energy   | Project Manager |
| Energy Facility, Western Cape                          |                   |                 |

## **Compliance Advice**

| Project Name & Location                      | Client Name     | Role                  |
|--|-----------------|-----------------------|
| Amakhala Phase 1 WEF, Eastern Cape           | Cennergi        | Environmental Advisor |
| Dassiesfontein WEF within the Overberg area, | BioTherm Energy | Environmental Advisor |
| Western Cape                                 |                 |                       |
| Excelsior Wind Farm, Western Cape            | BioTherm Energy | Environmental Advisor |

| Great Karoo Wind Farm, Northern Cape  | African Clean Energy | Environmental Advisor |
|---------------------------------------|----------------------|-----------------------|
|                                       | Developments (ACED)  |                       |
| Hopefield Community WEF, Western Cape | African Clean Energy | Environmental Advisor |
|                                       | Developments (ACED)  |                       |
| Rheboksfontein WEF, Western Cape      | Moyeng Energy        | Environmental Advisor |
| Tiqua WEF, Western Cape               | Cennergi             | Environmental Advisor |
| Tsitsikamma WEF, Eastern Cape         | Cennergi             | Environmental Advisor |
| West Coast One WEF, Western Cape      | Moyeng Energy        | Environmental Advisor |

## **Due Diligence Reporting**

| Project Name & Location                          | Client Name              | Role                  |
|--|--------------------------|-----------------------|
| Witteberg WEF, Western Cape                      | EDPR Renewables          | Environmental Advisor |
| IPD Vredenburg WEF within the Saldanha Bay area, | IL&FS Energy Development | Environmental Advisor |
| Western Cape                                     | Company                  |                       |

## **CONVENTIONAL POWER GENERATION PROJECTS (COAL)**

## **Environmental Compliance, Auditing and ECO**

| Project Name & Location                      | Client Name    | Role            |
|--|----------------|-----------------|
| ECO for the Camden Power Station, Mpumalanga | Eskom Holdings | Project Manager |

## **Compliance Advice**

| Project Name & Location                       | Client Name | Role                  |
|---|-------------|-----------------------|
| Thabametsi IPP Coal-fired Power Station, near | Axia        | Environmental Advisor |
| Lephalale, Limpopo                            |             |                       |

## **GRID INFRASTRUCTURE PROJECTS**

## **Environmental Compliance, Auditing and ECO**

| Project Name & Location                              | Client Name                     | Role            |
|--|---------------------------------|-----------------|
| ECO for the construction of the Ferrum-Mookodi       | Trans-Africa Projects on behalf | Project Manager |
| Transmission Line, Northern Cape and North West      | of Eskom                        |                 |
| EO for the construction of the Gamma-Kappa           | Trans-Africa Projects on behalf | Project Manager |
| Section A Transmission Line, Western Cape            | of Eskom                        |                 |
| EO for the construction of the Gamma-Kappa           | Trans-Africa Projects on behalf | Project Manager |
| Section B Transmission Line, Western Cape            | of Eskom                        |                 |
| EO for the construction of the Hydra IPP Integration | Trans-Africa Projects on behalf | Project Manager |
| project, Northern Cape                               | of Eskom                        |                 |
| EO for the construction of the Kappa-Sterrekus       | Trans-Africa Projects on behalf | Project Manager |
| Section C Transmission Line, Western Cape            | of Eskom                        |                 |
| EO for the construction of the Namaqualand           | Trans-Africa Projects on behalf | Project Manager |
| Strengthening project in Port Nolloth, Western Cape  | of Eskom                        |                 |
| ECO for the construction of the Neptune Substation   | Eskom                           | Project Manager |
| Soil Erosion Mitigation Project, Eastern Cape        |                                 | /               |
| ECO for the construction of the Ilanga-Gordonia      | Karoshoek Solar One             | Project Manager |
| 132kV power line, Northern Cape                      |                                 |                 |

## MINING SECTOR PROJECTS

| Project Name & Location                            | Client Name                | Role            |
|--|----------------------------|-----------------|
| ECO for the construction of the Duhva Mine Water   | Eskom Holdings SoC Limited | Project Manager |
| Recovery Project, Mpumalanga                       |                            |                 |
| External compliance audit of Palesa Coal Mine's    | HCI Coal                   | Project Manager |
| Integrated Water Use License (IWUL), near          |                            |                 |
| KwaMhlanga, Mpumalanga                             |                            |                 |
| External compliance audit of Palesa Coal Mine's    | HCI Coal                   | Project Manager |
| Waste Management License (WML) and EMP, near       |                            |                 |
| KwaMhlanga, Mpumalanga                             |                            |                 |
| External compliance audit of Mbali Coal Mine's     | HCI Coal                   | Project Manager |
| Integrated Water Use License (IWUL), near Ogies,   |                            |                 |
| Mpumalanga   |                            |                 |
| Independent External Compliance Audit of Water     | Tronox Namakwa Sands       | Project Manager |
| Use License (WUL) for the Tronox Namakwa Sands     |                            |                 |
| (TNS) Mining Operations (Brand se Baai), Western   |                            |                 |
| Cape   |                            |                 |
| Independent External Compliance Audit of Water     | Tronox Namakwa Sands       | Project Manager |
| Use License (WUL) for the Tronox Namakwa Sands     |                            |                 |
| (TNS) Mineral Separation Plant (MSP), Western Cape |                            |                 |
| Independent External Compliance Audit of Water     | Tronox Namakwa Sands       | Project Manager |
| Use License (WUL) for the Tronox Namakwa Sands     |                            |                 |
| (TNS) Smelter Operations (Saldanha), Western Cape  |                            |                 |
| Compliance Auditing of the Waste Management        | PetroSA                    | Project Manager |
| Licence for the PetroSA Landfill Site at the GTL   |                            |                 |
| Refinery, Western Cape                             |                            |                 |

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

| Project Name & Location                               | Client Name                    | Role            |
|---|--------------------------------|-----------------|
| ECO and bi-monthly auditing for the construction of   | Department of Water and        | Project Manager |
| the Olifants River Water Resources Development        | Sanitation                     | Auditor         |
| Project (ORWRDP) Phase 2A: De Hoop Dam, R555          |                                |                 |
| realignment and housing infrastructure                |                                |                 |
| ECO for the Rehabilitation of the Blaaupan & Storm    | Airports Company of South      | Project Manager |
| Water Channel, Gauteng                                | Africa (ACSA)                  |                 |
| Due Diligence reporting for the Better Fuel Pyrolysis | Better Fuels                   | Project Manager |
| Facility, Gauteng                                     |                                |                 |
| ECO for the Construction of the Water Pipeline from   | Transnet                       | Project Manager |
| Kendal Power Station to Kendal Pump Station,          |                                |                 |
| Mpumalanga  |                                |                 |
| ECO for the Replacement of Low-Level Bridge,          | South African National         | Project Manager |
| Demolition and Removal of Artificial Pong, and        | Biodiversity Institute (SANBI) |                 |
| Reinforcement the Banks of the Crocodile River at     |                                |                 |
| the Construction at Walter Sisulu National Botanical  |                                |                 |
| Gardens, Gauteng Province                             |                                |                 |
| External Compliance Audit of the Air Emission         | PetroSA                        | Project Manager |
| Licence (AEL) for a depot in Bloemfontein, Free       |                                |                 |
| State Province and in Tzaneen, Mpumalanga             |                                |                 |
| Province  |                                |                 |

## **HOUSING AND URBAN PROJECTS**

# Compliance Advice and reporting

| Project Name & Location                           | Client Name               | Role                  |
|---|---------------------------|-----------------------|
| Kampi ya Thude at the Olifants West Game Reserve, | Nick Elliot               | Environmental Advisor |
| Limpopo   |                           |                       |
| External Compliance Audit of WUL for the          | Johannesburg Country Club | Project Manager       |
| Johannesburg Country Club, Gauteng                |                           |                       |

| Project Name & Location                         | Client Name              | Role            |
|---|--------------------------|-----------------|
| Due Diligence Audit for the Due Diligence Audit | Delta BEC (on behalf of  | Project Manager |
| Report, Gauteng                                 | Johannesburg Development |                 |
|   | Agency (JDA))            |                 |



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#### **CURRICULUM VITAE OF NICOLENE VENTER**

**Profession:** Public Participation and Social Consultant

**Specialisation:** Public participation process; stakeholder engagement; facilitation (workshops, focus

group and public meetings; public open days; steering committees); monitoring and

evaluation of public participation and stakeholder engagement processes

Work Experience: 21 years' experience as a Public Participation Practitioner and Stakeholder Consultant

#### **VOCATIONAL EXPERIENCE**

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

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

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

#### **EDUCATION AND PROFESSIONAL STATUS**

#### Degrees:

Higher Secretarial Certificate, Pretoria Technicon (1970)

### **Short Courses:**

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

# **Professional Society Affiliations:**

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

## **EMPLOYMENT**

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

|             |                                  | affected areas, attend to the level of technical  |
|-------------|----------------------------------|---|
|             |                                  | information communicated to and consultation with all level of stakeholders involved  |
|             |                                  | <u>Clients</u> :  |
|             |                                  | SiVEST Environmental, Savannah Environmental,<br>Baagi Environmental; Royal Haskoning DHV<br>(previously SSI)   |
| 2013 - 2016 | Zitholele Consulting             | Senior Public Participation Practitioner and Project Manager  |
|             | Contact person: Dr Mathys Vosloo |   |
|             | Contact number: 011 207 2060     | Tasks included:   |
|             |                                  | Project managed public participation process for  |
|             |                                  | EIA/BA/WULA/EAL projects. Manages two Public  |
|             |                                  | Participation Administrators. Public Participation  |
|             |                                  | tasks as outlined as above and including financial  |
|             |                                  | management of public participation processes.   |
| 2011 - 2013 | Imaginative Africa (Pty) Ltd     | Independent Consultant  |
|             | (company owned by Nicolene       | Consulting to various Environmental Assessment  |
|             | Venter)                          | Practitioners for Public Participation and  |
|             |                                  | Stakeholder Engagements   |
|             |                                  | Tasks included:   |
|             |                                  | Drafting of a Public Participation Plan with key deliverable dates and methodology to be  |
|             |                                  | followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc. |
|             |                                  | Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved   |
|             |                                  | Clients: Bohlweki Environmental, Bembani Sustainability (Pty) Ltd; Naledzi Environmental  |
| 2007 – 2011 | SiVEST SA (Pty) Ltd              | Unit Manager: Public Participation Practitioner   |
|             |                                  |   |
|             | Contact person: Andrea Gibb      | <u>Tasks included:</u>  |
|             | Contact number: 011 798 0600     | Project managed public participation process for  |
|             |                                  | EIA/BA projects. Manages two Junior Public  |
|             |                                  | Participation Practitioners. Public Participation   |

|             |   | tasks as outlined as above and including financial   |
|-------------|---|--|
|             |   | management of public participation processes.  |
| 2005 – 2006 | Imaginative Africa (Pty) Ltd  | Independent Consultant   |
|             | (company owned by Nicolene  | Public Participation and Stakeholder   |
|             | Venter)   | Engagement Practitioner  |
|             |   | Tasks included: Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc. |
|             |   | Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved.   |
|             |   | <u>Clients:</u> Manyaka-Greyling-Meiring (previously Greyling Liaison and currently Golder Associates)   |
| 1997 - 2004 | Imaginative Africa (Pty) Ltd<br>(company owned by Nicolene<br>Venter) | Independent Consultant: Public Participation Practitioner.   |
|             |   | <u>Tasks included:</u>   |
|             |   | Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, affected landowners, etc.                                |
|             |   | Managing interaction between Stakeholders and Team Members, liaising with National, Provincial Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical   |

|  | information communicated to and consultation with all level of stakeholders involved.  |  |
|--|--|--|
|  | <u>Clients:</u> Greyling Liaison (currently Golder Associates); Bembani Sustainability (Pty) Ltd; Lidwala Environmental; Naledzi Environmental |  |

## PROJECT EXPERIENCE

## RENEWABLE POWER GENERATION PROJECTS: PHOTOVOLTAIC SOLAR ENERGY FACILITIES

## **Environmental Impact Assessments and Environmental Management Programmes**

| Project Name & Location                          | Client Name                  | Role                       |
|--|------------------------------|----------------------------|
| Lichtenburg PVs (3 PVs) & Power Lines (grid      | Atlantic Energy Partners     | Project Manage the Public  |
| connection), Lichtenburg, North West Province    | EAP: Savannah Environmental  | Participation Process      |
|  |                              | Facilitate all meetings    |
| Allepad PVs 4 PVs) & Power Lines (grid           | IL Energy                    | Consultation with          |
| connection), Upington, Northern Cape Province    | EAP: Savannah Environmental  | Government Officials, Key  |
|  |                              | Stakeholders, Landowners & |
| Hyperion Solar PV Developments (4 PVs) and       | Building Energy              | Community Leaders          |
| Associated Infrastructures, Kathu, Northern Cape | EAP: Savannah Environmental  |                            |
| Province   |                              |                            |
| Aggeneys Solar PV Developments (2 PVs) and       | Atlantic Energy Partners and |                            |
| Associated Infrastructures, Aggeneys, Northern   | ABO Wind                     |                            |
| Cape Province                                    | EAP: Savannah Environmental  |                            |

| Project Name & Location                             | Client Name              | Role                    |
|---|--------------------------|-------------------------|
| Tlisitseng PV, including Substations & Power Lines, | BioTherm Energy          | Public Participation,   |
| Lichtenburg, North West Province                    | EAP: SIVEST              | Landowner and Community |
| Sendawo PVs, including Substations & Power Lines,   |                          | Consultation            |
| Vryburg, North West Province                        |                          |                         |
| Helena Solar 1, 2 and 3 PVs, Copperton, Northern    |                          |                         |
| Cape Province                                       |                          |                         |
| Farm Spes Bona 23552 Solar PV Plants,               | Surya Power              | Public Participation,   |
| Bloemfontein, Free State Province                   | EAP: SIVEST              | Landowner and Community |
|   |                          | Consultation            |
| De Aar Solar Energy Facility, De Aar, Northern      | South Africa Mainstream  | Public Participation,   |
| Cape Province                                       | Renewable Power          | Landowner and Community |
| Droogfontein Solar Energy Facility, Kimberley,      | Developments             | Consultation            |
| Northern Cape Province                              | EAP: SIVEST              |                         |
| Kaalspruit Solar Energy Facility, Loeriesfontein,   |                          |                         |
| Northern Cape Province                              |                          |                         |
| Platsjambok East PV, Prieska, Northern Cape         |                          |                         |
| Province  |                          |                         |
| Renosterburg PV, De Aar, Northern Cape Province     | Renosterberg Wind Energy | Public Participation,   |
|   | Company                  | Landowner and Community |
|   | EAP: SIVEST              | Consultation            |

| 19MW Solar Power Plant on Farm 198 (Slypklip), | Solar Reserve South Africa | Public Participation,   |
|--|----------------------------|-------------------------|
| Danielskuil, Northern Cape Province            | EAP: SIVEST                | Landowner and Community |
|  |                            | Consultation            |

# Basic Assessments and Environmental Management Programmes – Located within the Renewable Energy Development Zones (REDZ)

| Project Name & Location                          | Client Name                 | Role                       |
|--|-----------------------------|----------------------------|
| Moeding Solar PV Solar Energy Facility, Vryburg, | Kabi Solar                  | Project Manage the Public  |
| North West Province                              | EAP: Savannah Environmental | Participation Process      |
|  |                             | Facilitate all meetings    |
| Sirius Solar PV Solar Energy Facility, Upington, | <u> </u>                    | Consultation wit           |
| Northern Cape Province                           | EAP: Savannah Environmental | Government Officials, Key  |
|  |                             | Stakeholders, Landowners & |
|  |                             | Community Leaders          |

## RENEWABLE POWER GENERATION PROJECTS: WIND ENERGY FACILITIES

## **Environmental Impact Assessments and Environmental Management Programmes**

| Project Name & Location                            | Client Name             | Role                 |
|--|-------------------------|----------------------|
| Aletta Wind Farm, Copperton, Northern Cape         | BioTherm Energy         | Public Participation |
| Province   | EAP: SIVEST             |                      |
| Eureka Wind Farm, Copperton, Northern Cape         |                         |                      |
| Province   |                         |                      |
| Loeriesfontein Wind Farm, Loeriesfontein, Northern | South Africa Mainstream | Public Participation |
| Cape Province                                      | Renewable Power         |                      |
| Droogfontein Wind Farm, Loeriesfontein, Northern   | Developments            |                      |
| Cape Province                                      | EAP: SIVEST             |                      |
| Four Leeuwberg Wind Farms, Loeriesfontein,         |                         |                      |
| Northern Cape Province                             |                         |                      |
| Noupoort Wind Farm, Noupoort, Northern Cape        |                         |                      |
| Province   |                         |                      |
| Mierdam PV & Wind Farm, Prieska, Northern Cape     | ]                       |                      |
| Province   |                         |                      |
| Platsjambok West Wind Farm & PV, Prieska,          | ]                       |                      |
| Northern Cape Province                             |                         |                      |

# Basic Assessments and Environmental Management Programmes – Located within the Renewable Energy Development Zones (REDZ)

| Project Name & Location                      | Client Name                 | Role                      |
|--|-----------------------------|---------------------------|
| Nama Wind Energy Facility, Northern Cape     | Genesis ECO                 | Project Manage the Public |
| Province                                     | EAP: Savannah Environmental | Participation Process     |
|  |                             | Facilitate all meetings   |
|  |                             | Consultation with         |
|  |                             | Government Officials, Key |
| Zonnequa Wind Energy Facility, Northern Cape |                             | Stakeholders, Landowners  |
| Province                                     |                             | & Community Leaders       |

### **Environmental Authorisation Amendments**

| Project Name & Location | Client Name | Role |
|-------------------------|-------------|------|
|-------------------------|-------------|------|

| Beaufort West 280MW Wind Farm into two 140MW | South Africa Mainstream | Public Participation |
|--|-------------------------|----------------------|
| Trakas and Beaufort West Wind Farms, Western | Renewable Power         |                      |
| Cape   | Developments            |                      |
|  | EAP: SIVEST             |                      |

## RENEWABLE POWER GENERATION PROJECTS: CONCENTRATED SOLAR FACILITIES (CSP)

## **Environmental Impact Assessments and Environmental Management Programmes**

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

## **GRID INFRASTRUCTURE PROJECTS**

## **Environmental Impact Assessments and Environmental Management Programmes**

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

## **Facilitation**

| Project Name & Location                             | Client Name                 | Meeting Type           |
|---|-----------------------------|------------------------|
| Bloemfontein Strengthening Project, Free State      | Eskom Holdings              | Public Meetings        |
| Province  | EAP: Baagi Environmental    |                        |
| Mooidraai-Smitkloof 132kV Power Line and            | Eskom Holdings              | Focus Group Meetings   |
| Substation, Northern Cape Province                  | EAP: SSI                    |                        |
| Aggeneis-Oranjemond 400kV Eskom Transmission        | Eskom Holdings              | Focus Group Meetings & |
| Power Line, Northern Cape Province                  | EAP: Savannah Environmental | Public Meetings        |
| Ariadne-Eros 400kV/132kV Multi-Circuit Transmission | Eskom Holdings              | Public Meetings        |
| Power Line (Public Meetings)                        | EAP: ACER Africa            |                        |
| Majuba-Venus 765kV Transmission Power Lines,        | 1                           | Public Meetings        |
| Mpumlanaga Province                                 |                             | /                      |

## **Basic Assessments and Environmental Management Programmes**

| Project Name & Location | Client Name | Role |
|-------------------------|-------------|------|

| Melkhout-Kudu-Grassridge 132kV Power Line       | Eskom Holdings | Public Participation,   |
|---|----------------|-------------------------|
| Project (project not submitted to DEA), Eastern | EAP: SIVEST    | Landowner and Community |
| Cape Province                                   |                | Consultation            |
| Tweespruit-Welroux-Driedorp-Wepener 132Kv       | ]              | Public Participation,   |
| Power Line, Free State Province                 |                | Landowner and Community |
|   |                | Consultation            |
| Kuruman 132Kv Power Line Upgrade, Northern      | Eskom Holdings | Public Participation,   |
| Cape Province                                   | EAP: Zitholele | Landowner and Community |
|   |                | Consultation            |
| Vaalbank 132Kv Power Line, Free State Province  | ]              | Public Participation,   |
|   |                | Landowner and Community |
|   |                | Consultation            |
| Pongola-Candover-Golela 132kV Power Line        | _              | Public Participation,   |
| (Impact Phase), KwaZulu-Natal Province          |                | Landowner and Community |
|   |                | Consultation            |
| Ndumo-Geziza 132kV Power Line, KwaZulu-Natal    | 1              | Public Participation,   |
| Province  |                | Landowner and Community |
|   |                | Consultation            |

## **Screening Studies**

| Client Name        | Role               |
|--------------------|--------------------|
| Nelson Mandela Bay | Social Assessment  |
| Municipality       |                    |
|                    | Nelson Mandela Bay |

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

## Stakeholder Engagement

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

## Facilitation

| Project Name & Location                        | Client Name                 | Meeting Type          |
|--|-----------------------------|-----------------------|
| Thabametsi IPP Power Station, Limpopo Province | Thabametsi Power Company    | Focus Group Meeting & |
|  | EAP: Savannah Environmental | Public Meeting        |

## **Environmental Impact Assessments and Environmental Management Programmes**

| Project Name & Location                          | Client Name                 | Role                    |
|--|-----------------------------|-------------------------|
| Richards Bay Combined Cycle Power Plant,         | Eskom Holdings              | Public Participation    |
| Richards Bay, Kwa-Zulu Natal Province (Impact    | EAP: Savannah Environmental |                         |
| Phase)   |                             |                         |
| Medupi Flue Gas Desulphurisation Project (up to  | Eskom Holdings SOC Ltd      | Public Participation,   |
| completion of Scoping Phase), Limpopo Province   | EAP: Zitholele Consulting   | Landowner and Community |
| Kendal 30-year Ash Disposal Facility, Mpumalanga |                             | Consultation            |
| Province   |                             |                         |
| Kusile 60-year Ash Disposal Facility, Mpumalanga |                             |                         |
| Province   |                             |                         |

| Camden Power Station Ash Disposal Facility,           |                            |                         |
|---|----------------------------|-------------------------|
| Mpumalanga Province                                   |                            |                         |
| Tutuka Fabric Filter Retrofit and Dust Handling Plant | Eskom Holdings SOC Ltd     | Public Participation,   |
| Projects, Mpumalanga Province                         | EAP: Lidwala Environmental | Landowner and Community |
|   |                            | Consultation            |
| Eskom's Majuba and Tutuka Ash Dump Expansion,         |                            | Public Participation,   |
| Mpumalanga Province                                   |                            | Landowner and Community |
|   |                            | Consultation            |
| Hendrina Ash Dam Expansion, Mpumalanga                |                            | Public Participation,   |
| Province  |                            | Landowner and Community |
|   |                            | Consultation            |

# INFRASTRUCTURE DEVELOPMENT PROJECTS (BRIDGES, PIPELINES, RAILWAY LINES, ROADS, WATER RESOURCES, STORAGE FACILITIES, ETC)

## Facilitation

| Project Name & Location                                 | Client Name                 | Meeting Type         |
|---|-----------------------------|----------------------|
| Determination, Review and Implementation of the         | Department of Water and     | Secretarial Services |
| Reserve in the Olifants/Letaba System                   | Sanitation                  |                      |
|   | Golder Associates           |                      |
| Orange River Bulk Water Supply System                   | Department of Water and     | Secretarial Services |
|   | Sanitation                  |                      |
|   | Golder Associates           |                      |
| Levuvu-Letaba Resources Quality Objectives              | Department of Water and     | Secretarial Services |
|   | Sanitation                  |                      |
|   | Golder Associates           |                      |
| SmancorCR Chemical Plant (Public Meeting),              | Samancor Chrome (Pty) Ltd   | Public Meeting       |
| Gauteng Province  | EAP: Environment al Science |                      |
|   | Associates                  |                      |
| SANRAL N4 Toll Highway Project (2 <sup>nd</sup> Phase), | Department of Transport     | Public Meetings      |
| Gauteng & North West Provinces                          | EAP:                        |                      |

## **Environmental Impact Assessments and Environmental Management Programmes**

| Project Name & Location                           | Client Name                 | Role                 |
|---|-----------------------------|----------------------|
| Transnet's New Multi-Products Pipeline traversing | Transnet                    | Public Participation |
| Kwa-Zulu Natal, Free State and Gauteng Provinces  | EAP: Bohlweki Environmental |                      |

#### **Basic Assessments**

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

## MINING SECTOR

## Environmental Impact Assessment and Environmental Management Programme

| •   | •                           |                      |
|---|-----------------------------|----------------------|
| Project Name & Location                       | Client Name                 | Role                 |
| Zero Waste Recovery Plant at highveld Steel,  | Anglo African Metals        | Public Participation |
| Mpumalanga Province                           | EAP: Savannah Environmental |                      |
| Koffiefontein Slimes Dam, Free State Province | Petra Diamond Mines         | Public Participation |
|   | EAP: Zitholele              |                      |

| Baobab Project: Ethenol Plant, Chimbanje, Middle | Applicant: Green Fuel | Public Participation & |
|--|-----------------------|------------------------|
| Sabie, Zimbabwe                                  | EAP: SIVEST           | Community Consultation |
| BHP Billiton Energy Coal SA's Middelburg Water   | BHP Billiton Group    | Public Participation   |
| Treatment Plant, Mpumalanaa                      | EAP: Jones & Wagener  |                        |

#### **CURRICULUM VITAE**

#### Jenna Lavin

Tel: (+27) 083 619 0854 (c) E-mail address: jenna.lavin@gmail.com ID number: 8512050014089

Address: 103 D'Urban St, Bothasig, Cape Town

## **EDUCATION**:

Tertiary

2011 Continued Professional Development Course in Urban Conservation

Management (University of Cape Town) Part I and Part II

2010 M.Sc. with Distinction in Archaeology (University of Cape Town)

Title: Palaeoecology of the KBS member of the Koobi Fora Formation: Implications for

Pleistocene Hominin Behaviour.

2007 B.Sc. Honours in Archaeology (University of Cape Town)

Title: The Lost Tribes of the Peninsula: An Investigation into the historical distribution of

Chacma baboons (<u>Papio ursinus</u>) at the Cape Peninsula, South Africa.

Koobi Fora Field School, Rutgers University (U.S.A.)/ National Museums of Kenya

2006 B.Sc. Archaeology (University of Cape Town)

B.Sc. Environmental and Geographic Science (University of Cape Town)

Secondary

1999-2003 Rustenburg High School for Girls

Firsts in English, Afrikaans, Mathematics HG, Biology HG, History HG, Entrepreneurship.

#### **EMPLOYMENT HISTORY:**

#### PROFESSIONAL DEVELOPMENT

**Environmental and Heritage Management:** 

Director: Heritage for CTS heritage and member of OpenHeritage NPC.

July 2016 to present

I am a member of the senior management of the company. I am responsible for project management and quality control on all of our heritage-related projects. I provide specialist heritage expertise when required and assist with the drafting of management plans, NIDs, heritage impact assessments and other specialist heritage reports. I liaise with clients, authorities and other specialists to ensure the highest quality product from CTS Heritage. I manage the budgets and financial compliance for all our projects and for the business in general. I also manage the staff in the Heritage Directorate.

I have been involved in developing the online map for the National Resistance and Liberation Heritage Route with DAC, contributing to the Stellenbosch Municipal Heritage Survey (SMHS) among other large-scale projects. The SMHS won an award in 2019. In addition to the SMHS, I have also worked on Municipal Inventories in terms of section 30 of the NHRA within the City of

Cape Town as well as in Saldanha Bay Municipality and Greyton. I have also assisted in drafting the World Heritage Nomination for the "Origins of Modern Humans" serial nomination. In addition, between 2016 and 2020 I have completed over 100 Heritage Impact Assessments, Archaeological Impact Assessments and Heritage Screening Assessments across South Africa.

Through OpenHeritage, I have been intimately involved with the development, and successful implementation of a digital heritage objects management system for the National Museum in Kenya as well as Tristan da Cuhna. We are in the process of rolling out the same system to the new Lesotho National Museum.

### Assistant Director for Policy, Research and Planning at Heritage Western Cape (HWC).

August 2014 to June 2016

As a member of the management structure of HWC, I was responsible for the drafting of new heritage related policy, the grading and declaration of Provincial Heritage Sites, the development of Conservation Management Plans, facilitating the development of inventories of heritage resources through local authorities as well as managing the development of the Western Cape's Heritage Information Management System (HIMS). I was also responsible for managing the project to nominate the Modern Human Origins proposed World Heritage Site.

In this position, on behalf of HWC I engaged with DEADP regarding the development of a Standard Operation Procedure in terms of section 38(8) of the NHRA. Furthermore, I engaged with the CoCT and other Local Authorities in terms of the process around the delegation of powers in terms of the NHRA.

I performed the role of Acting Deputy Director for HWC from April to December 2015, including financial management responsibilities, staff management responsibilities, problem solving and the training of new staff.

# • Heritage Officer for Palaeontology and for the Mpumalanga Province at the South African Heritage Resources Agency (SAHRA).

January 2013 to June 2014

Responsibilities in this position included managing palaeontological permit applications in terms of Section 35 of the NHRA and development applications in terms of Section 38 of the NHRA. Projects included the development of a National Palaeotechnic Report identifying significant palaeontological deposits throughout SA, as well as developing professional relationships between SAHRA and the Palaeontological Society of South Africa (PSSA) and the Geological Society of South Africa (GSSA). During this time, I was part of the team that developed the digitised National Palaeontological Sensitivity Map, the first of its kind in the world.

# • Heritage Officer for Archaeology, Palaeontology and Meteorites at Heritage Western Cape (HWC).

September 2010 to December 2012

HWC is a Public Entity that forms part of the Heritage Resource Management Component of the Provincial Governments' Department of Cultural Affairs and Sport (DCAS). Projects included the declaration of Pinnacle Point and the West Coast Fossil Park as Provincial Heritage Sites (PHSs), the management of the development of the Baboon Point PHS Conservation Management Plan as well as an educational outreach program as part of the DCAS MOD Centre Project.

• Heritage Officer for the Archaeology, Palaeontology and Meteorites Unit of the South African Heritage Resources Agency (SAHRA) as part of a three month contract.

January 2010 to March 2010

### Field Work Experience:

| I ICIG WOLK EXP | benefice.   |
|-----------------|---|
| 2016-present    | Various archaeological and heritage field assessments for specialist archaeological       |
|                 | assessments and heritage impact assessments   |
| 2010-2016       | Various archaeological and heritage field assessments on behalf of HWC and SAHRA          |
| 2008-2009       | Field Assistant, Dr. D. Braun, Elandsfontein Excavation Locality, University of Cape Town |
|                 | (UCT)   |
|                 | Field Assistant, Dr. D. Braun, Koobi Fora Research Project (Kenya), Rutgers University,   |
|                 | New Jersey  |
| 2006            | Field Assistant, Damiana Ravasi (PhD), Zoology Department, University of Cape Town.       |
| 2005            | Research Assistant, Dr. Becky Ackerman, Archaeology Department, University of Cape        |
|                 | Town  |
| 2004            | Field Assistant, Prestwich Place Excavation Locality, Archaeology Contracts Office, UCT   |

## **Teaching Positions:**

| reaching Posi | ations.   |
|---------------|---|
| 2020          | Guest Lecturer, Introduction to South African Heritage Legislation, UCT MPhil:              |
|               | Conservation of the Built Environment   |
|               | Guest Lecturer, Introduction to South African Heritage Legislation, Rhodes University: Post |
|               | Graduate Diploma in Heritage  |
| 2019          | Guest Lecturer, Introduction to South African Heritage Legislation, UCT MPhil:              |
|               | Conservation of the Built Environment   |
| 2017          | Guest Lecturer, South African Heritage Legislation, George Washington University            |
|               | Heritage Management Field School  |
| 2016          | Guest Lecturer, South African Heritage Legislation, Archaeology Honours Course,             |
|               | University of Cape Town   |
| 2015          | Guest Lecturer, South African Heritage Legislation, Archaeology Honours Course,             |
|               | University of Cape Town   |
| 2014          | Guest Lecturer, South African Heritage Legislation, Archaeology Honours Course,             |
|               | University of Cape Town   |
| 2013          | Guest Lecturer, South African Heritage Legislation, Archaeology Honours Course,             |
|               | University of Cape Town   |
| 2010          | Teaching Assistant, Langebaanweg Field School, Arizona State University                     |
| 2009          | Demonstrator, Archaeology in Practice, University of Cape Town (AGE3013H)                   |
|               | Demonstrator, Introduction to Geography, Earth and Environmental Science, University of     |
|               | Cape Town (GEO1009F)  |
|               | Teaching Assistant, Koobi Fora Field School (Kenya), Rutgers University, New Jersey         |
|               | Lecturer, Introduction to Geography, Earth and Environmental Science: Supplementary         |
|               | Course, University of Cape Town (EGS1004S)  |
|               | Demonstrator, Elandsfontein Honours Field School, University of Cape Town (AGE4000W)        |
| 2008          | Demonstrator, Introduction to Geography, Earth and Environmental Science, University of     |
|               | Cape Town (ERT1000F)  |
|               |   |

#### **Conferences and Papers**

| 2019 | ASAPA, Kimerley, RSA: "Interactive Online Mapping: Using innovative technologies to communicate the significance and relevance of archaeological sites"            |
|------|--|
|      | 3  |
| 2017 | ASAPA, Pretoria, RSA: "Using Heritage Data to Guide Responsible Development: Tools to ensure high quality recording of heritage sites"                             |
|      | ICAHM, Bagomoyo, Tanzania: "OpenHeritage: Development and implementation of  |
|      | national heritage management systems - Lessons from South Africa, Namibia and  |
|      | Kenya"   |
| 2016 | ICAHM, Salalah, Oman: "Straight to the (Baboon) Point: A look at the Conservation of Archaeological Landscapes in South Africa using Baboon Point as a Case Study" |
| 2015 | Leakey Foundation, Sonoma County, San Fransisco, USA: ""Straight to the (Baboon) Point:  |
|      | A look at the Conservation of Archaeological Landscapes in South Africa using Baboon<br>Point as a Case Study"   |
|      | Point as a Case study  |
| 2012 | PSSA, Johannesburg, RSA: "SAHRIS Palaeosensitivity Map - Methodology and Implementation"   |

#### Other

In 2013 I was asked to join the panel of judges for the Ministerial awards for Heritage in the Western Cape. From 2013 to 2014, I was a member of the Heritage Western Cape Archaeology, Palaeontology and Meteorites Committee and I currently sit on the Heritage Western Cape Inventories, Gradings and Interpretations Committee, and have been since 2016.

In November 2013, I was awarded a bursary from the Department of Arts and Culture to complete a Masters in Philosophy in Conservation of the Built Environment through the UCT Faculty of Engineering and the Built Environment in 2014 and 2015. I was in the process of finalising this degree in 2017, however the birth of my son has halted my progress.

I am a paid up member of the Association for Southern African Professional Archaeologists (ASAPA), the Association of Professional Heritage Practitioners (APHP) and I have been a member of the Executive Council of APHP since 2014.

In June 2017, I was selected as Chair of APHP, a position that I currently hold. I am a member of the Palaeontological Society of South Africa (PSSA) and ICOMOS South Africa, for which I am Vice-President of the Board. I am also a member of the International Committee for Archaeological Heritage Management (ICAHM), a committee of UNESCO.

I am an active participant in a not-for-profit company called OpenHeritage which is dedicated to opening access to heritage resources through digital innovation. To this end, we have been involved in a number of projects including Wikipeadia Training with Africa Centre, the development and implementation of a Collections Management System for the National Museums of Kenya and the development of a digital Inventory of the Vernacular Architecture of the Eastern Cape.

## Referees

## **Colette Scheermeyer**

Deputy Director at HWC <u>Colette.scheermeyer@westerncape.gov.za</u> 021 481 3883

### **Gerhard Gerber**

Director: Development Facilitation
Department of Environmental Affairs & Development Planning
<u>Gerhard.Gerber@westerncape.gov.za</u>
(0)21 483 2787

## **Andrew Hall**

CEO of HWC from 2011 to 2015 waitabout191@gmail.com (Currently based in Saudi Arabia)