



## MARIELLE PENWARDEN

### CURRICULUM VITAE

#### KEY QUALIFICATIONS

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Marielle Penwarden is an environmental consultant at Chand Environmental Consultants. She has nine years' post-graduate work experience and is proficient in project/environmental management, scientific reporting and data research and analysis. She has been exposed to a variety of projects, which have allowed her to develop key strengths around project management and various environmental authorisation processes. Prior to working for Chand, she was an Environmental Scientist at GIBB Pty Ltd, where she worked in the Mega Projects division which was focussed on Environmental Impact Assessments for large-scale infrastructure and South African Strategic Infrastructure Projects (SIP) projects. Prior to her work in environmental science, she was employed in educational marketing, sales, administration and teaching for six years.

She possesses a Bachelor of Science Honours in Environmental Management, with undergraduate majors in Zoology and Geography. She is also well versed in MS Office applications such as Excel, Word and MS Project.

Her key strengths include:

- **Environmental Impact Assessment (EIA)** of small, medium and large-scale infrastructure projects, including public participation processes, report writing and technical input. The management (and assistance with management) within Environmental Assessments for a variety of different projects, including energy generation (nuclear and renewable energy) projects. She is also familiar with NEMA Principles, Guidelines and legislated processes as well as other environmental processes such as S24G Applications, Basic Assessments, Air Emissions Licences and feasibility assessments.
- **Project management** of aspects of medium and large-scale infrastructural and environmental projects such as project planning, task management and delegation, financial management and budget preparation as well as contract administration and general reporting. Marielle is also well versed in the application of the ISO9001 Quality Management System.
- **Environmental reviews, synthesis, synopsis and drafting** of a range of environmental and specialist reports.
- **Team Leadership**

#### APPLICABLE PROJECT EXPERIENCE

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**CHAND ENVIRONMENTAL CONSULTANTS** (December 2013- Present)

##### **SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT & RELATED PUBLIC PARTICIPATION PROCESSES:**

###### **S&EIA for the Proposed Sand Mining on Erf 21202, Strandfontein**

Compilation of the Application form, Scoping Report, Environmental Impact Report, liaison with the project team and authorities, co-ordination of five specialists and management of the public participation process (which included a one-on-one meeting, focus group meetings with key stakeholders and a public meeting) in addition to the financial and project administration of the process.

###### **Opportunities and Constraints Analysis and S&EIA for the Proposed Biogas Plant at the CSIR, Lynwood**

Compilation of an Opportunities and Constraints Analysis in support of site selection- the report incorporated the findings of six specialists. Compilation of the Notice of Intent, Application form,

Scoping Report, Environmental Impact Report, liaison with the project team and authorities, co-ordination of four specialists and management of the public participation process (which includes focus group meetings and an Open House event) in addition to the financial and project administration of the process.

## **BASIC ASSESSMENT & RELATED PUBLIC PARTICIPATION PROCESSES:**

### **Basic Assessment for the development of Non-Motorised Transport Facilities along Spaanschemat River Road, Constantia**

Compilation of the final Basic Assessment Report, liaison with the project team and authorities, co-ordination of freshwater specialists and management of the public participation process.

### **Basic Assessment for the Proposed Mitchells Plain and Khayelitsha Bus Depots on RE/18370 along Spine Road, Khayelitsha**

Completion of the Notice of Intents, Application Forms, Basic Assessment Reports and EMPs, arranging focus group meetings, management of specialists, liaison with large project team as well as management of the Basic Assessment process and project finances. The EMP included aspects on sustainable management of resources.

### **Basic Assessment for The Point – Kalk Bay: Proposed Rehabilitation of the Parking and Recreational Area**

Assistance in the compilation of a Basic Assessment Report, liaison with the project team and authorities, co-ordination of specialists and management of the public participation process in addition to the financial and project administration of the process.

### **Basic Assessment for the Proposed Establishment of the King David Warehousing, Industrial and Business Development on Erf 112674, Cape Town and the Remainder of Erf 1181, Matroosfontein**

Compilation of Notice of intent, integration into a large multidisciplinary project team, liaison and meetings with I&APs, management of a number of specialists (hydropedology, freshwater, botanical, heritage, and sub-surface contamination), Application form, and liaison with authorities. Also included management of the public participation process (which included (a one-on-one meeting and focus group meetings with key stakeholders) in addition to the financial and project administration of the process. The EMP included aspects on sustainable management of resources. Marielle also managed financial and timeline aspects of the project.

### **Basic Assessment for the Development of a Service Station, Faure**

The development entailed a service station, convenience store, diner and associated infrastructure at Cape Town Film Studios, Faure. Tasks include compilation of the Application Form and Basic Assessment Reports, liaison with the project team and authorities, co-ordination of five specialists and assistance with the management of the public participation process.

### **Basic Assessment for the Demolition of the Clovelly Station Platform**

Management of the process, compilation of the Application Form and Basic Assessment Report, liaison with the project team and authorities, co-ordination of specialists and management of the public participation process.

### **Basic Assessment and General Authorisation for a Residential Development and Stream Canalisation, Kylemore**

Compilation of a Basic Assessment Report and General Authorisation Application, liaison with the project team and authorities, co-ordination of specialists and management of the public participation process.

### **Basic Assessment for the Expansion and Redevelopment of Wellington Industrial Park**

Completion of the Notice of Intent, Application Form, Basic Assessment Report and EMP, arranging two focus group meetings, one open house, management of specialists (visual, freshwater and botanical), liaison with large project team as well as management of the Basic Assessment process and project finances. The EMP included aspects on sustainable management of resources.

### **Basic Assessment for the Development of a waste to Biogas facility in Saldanha**

Assistance in the compilation of a Basic Assessment Report, liaison with the project team and authorities, co-ordination of specialists and management of the public participation process.



#### **Basic Assessment for the Bertha Foundation's New Retreat**

Redevelopment of historic worker cottages for accommodation within a wine farm, near a nature reserve with a river and wetland on the site and a complicated history of removals and the need for redress- completion of notice of intent, stakeholder engagement plan, management of botanist, freshwater ecologist and soil scientist, working with a multi-disciplinary team, research and writing the Basic Assessment report, and management of budget and finances. Also includes a water use license/General Authorisation application in terms of the water act. *Currently underway*

#### **Basic Assessment for Apartment block on Erf 29 & 30, Clifton**

Development of an apartment block within the coastal protection zone- completion of notice of intent, stakeholder engagement plan, management of botanist, freshwater ecologist, electrical engineer, civil engineer, transport engineer, geotechnical engineer, and visual specialist, working with a multi-disciplinary team, research and writing the Basic Assessment report, and management of budget and finances. *Currently underway.*

#### **Basic Assessment for Apartment Block in Camps Bay**

Development of an apartment block within the coastal protection zone- This project is in its early stages and so far, Marielle has written the terms of reference for a variety of specialists and provided advisory services.

#### **Basic Assessment for the proposed refurbishment and expansion of the Agterdam cottages and associated infrastructure on portion 4 of the Farm No. 1674 Boschendal**

Compilation of the Background Information Document, Notice of Intent, Application form, Basic Assessment Report, liaison with the project team and authorities, co-ordination of specialists and management of the public participation process (which included focus group meetings with farm workers) in addition to the financial and project administration of the process. It would also include significant stakeholder engagement with additional meetings.

#### **Basic Assessment and Waste Management License for the Decommissioning and re-development of Waste Sorting and Baling Facility**

Compilation of the Application form, Basic Assessment Report, liaison with the project team and authorities, co-ordination of specialists and management of the public participation process. *On hold.*

#### **Basic Assessment and Waste Management License for the Decommissioning and Redevelopment of Everite Asbestos Waste Consolidation Site, Brackenfell**

Compilation of the Basic Assessment Report, Application forms, liaison with the project team and authorities, co-ordination of specialists and management of the public participation process. *Currently underway.*

#### **Basic Assessment for the development of Non-Motorised Transport Facilities along Spaanschemat River Road, Constantia**

Compilation of the final Basic Assessment Report, liaison with the project team and authorities, co-ordination of freshwater specialists and management of the public participation process.

#### **Basic Assessment for the proposed IRT Trunk Lane along Edith Stephens wetlands park**

Completion of Notice of Intent, liaison with authorities, Application Form, Basic Assessment Report, management of freshwater and botanical specialist, strategic public engagements, integration into a large multi-disciplinary project team as well as management of budget and project finances. *Currently underway.*

#### **Basic Assessment for the development of residential and recreational use on Erf 212 and Erf 242, Bishopscourt for the Protea Village land claim**

Significant stakeholder engagement through BID drafting and distribution, running an Open House event (including the drafting of the posters for the event and attending the event to engage I&APs), focus group meetings with adjacent landowners as well as key biophysical and heritage interest groups, engaging with a large multi-disciplinary team, incorporation of many specialist reports (i.e. heritage, visual, civil services, town planning, freshwater, groundwater, risk, soils, and geotechnical) into the

drafting of the Basic Assessment Report. Also includes consideration of contaminated land issues and a water use license and General Authorisation application. *Currently underway.*

#### **Basic Assessment Process for the proposed Azalea Development on Erven 46 and 47, Clifton**

Completion of the Notice of Intent, Application Form, Basic Assessment Report and EMPr, arranging and facilitate a one-on-one meeting with the City of Cape Town, management of specialists (Freshwater, visual, heritage, groundwater and botanical), liaison with large project team, authorities and interested an affected parties as well as management of the project and project finances. *Currently underway.*

#### **Basic Assessment for the Development of a Chairlift, North-West Province**

The development entailed a chairlift Sun City, North West Province. Tasks include compilation of the Application Form and Basic Assessment Reports, liaison with the project team and authorities, co-ordination of four specialists and assistance with the management of the public participation process. *On hold.*

#### **Basic Assessment for the Redevelopment of the Somerset Precinct, Green Point**

Compilation of the Application Form and Basic Assessment Report, liaison with the project team and authorities, co-ordination of specialists and assistance with the management of the public participation process. *Project stopped as regulations changed and Listed Activities were no longer triggered.*

#### **Basic Assessment for the Proposed Development of a Housing Development on Steenberg Farm**

Compilation of the Background Information Document, Notice of Intent, Application form, Basic Assessment Report, liaison with the project team and authorities, co-ordination of specialists and management of the public participation process (which included focus group meetings with key stakeholders) in addition to the financial and project administration of the process. It would also include significant stakeholder engagement with additional meetings. *On hold.*

### **PUBLIC PARTICIPATION PROCESSES:**

#### **Public Participation, Maitland Pool Heritage Appeal**

Planning and managing the public participation in support of the City of Cape Town's appeal on the Heritage Western Cape decision regarding the demolition of the Maitland Pool. The City was not in agreement with Heritage Western Cape's recommendation that the pool may not be demolished. Furthermore, Heritage Western Cape later required additional public participation to be undertaken which was also carried out by Marielle.

#### **Public Participation, City's Appeal of the Kapteinsklip EIA Decision by DEA&DP**

Planning and managing the public participation in support of the City's appeal to the DEA&DP.

#### **Public Participation, Applicant's Appeal on the Wind Farm and Photovoltaic Facility in Beaufort West issued by DEA**

Planning and managing the public participation in support of the Applicant's appeal to the DEA.

#### **Public Participation, Applicant's Appeal on the Linking Station and two Power Lines and Substations in Beaufort West issued by DEA**

Planning and managing the public participation in support of the Applicant's appeal to the DEA.

#### **Public Participation, Phillipi Horticultural Area Prospecting Permit**

Planning and managing the public participation in support of the prospecting application to the Department of Mineral Resources.

#### **Public Participation, Phillipi Horticultural Area North Prospecting Permit**

Planning and managing the public participation in support of the prospecting application to the Department of Mineral Resources.

#### **Public Participation, Schaapkraal Prospecting Permit**

Planning and managing the public participation in support of the prospecting application to the Department of Mineral Resources.

#### **Public Participation, Environmental Impact Assessment, Saldanha Chlorchem**

Management of the public participation process in support of the proposed chlorine, caustic soda and hydrochloric acid facility in Saldanha.

### **Public Participation for the Proposed Redevelopment of the Kapteinsklip Station Precinct and Mnandi Coastal Node, Mitchells Plain**

Managing the distribution of the final EIR and assimilation and updating and submission of a Public Participation Report, also managed distribution of addendum to the final EIR and updating the Public Participation Report.

## **WATER USE AND WATER SUPPLY AUTHORISATIONS**

### **Boschendal New Retreat**

General Authorisation (GA) for the redevelopment of historic worker cottages for accommodation within a wine farm, near a nature reserve with a river and wetland on the site and a complicated history of removals and the need for redress.

### **Ocean View LSEN School**

General Authorisation (GA)/ Water Use Licence Application (WULA) for the development of a school for Learners with Special Educational Needs (LSEN).

### **Boschendal Pack Shed**

General Authorisation (GA)

### **Western Cape Government: Department of Transport & Public Works**

Compilation of Water Safety Plans for fourteen (14) Western Cape Government: Department of Transport & Public Works critical infrastructure sites.

### **The Proposed IRT Phase 2A Trunk Route: Portion E1, 3.5km of Govan Mbeki Road, Manenberg & Gugulethu**

General Authorisation (GA) for partial infilling of a wetland and works on structures in the Lotus Canal for expansion of Govan Mbeki Road for IRT lanes Work Package E1, City of Cape Town (part of a Basic Assessment process)

### **The Proposed IRT Phase 2A Trunk Route: Portion E3, 3.5km of Govan Mbeki Road, Manenberg & Gugulethu**

General Authorisation for partial infilling of a wetland for expansion of Govan Mbeki Road for IRT lanes Work Package E3, City of Cape Town

### **Protea Village: WULA for Development of Protea Village on Erven 242 and 212, Bishopscourt**

Water use Licence (WULA) for infilling and partial infilling of wetlands as well as installation of stormwater outlets into the Liesbeek River in Bishopscourt, Bethel Partners (part of a Basic Assessment process)

### **Protea Village: GA for Development of Protea Village on Erven 242 and 212, Bishopscourt**

General Authorisation (GA) for infilling of wetlands in Bishopscourt, Bethel Partners (part of a Basic Assessment process)

### **The Proposed Development of Wellington Industrial Park; Drakenstein Municipality.**

Compilation of Water Use Licence Application (WULA) including review and synthesis of specialist reports.

### **The Proposed Development of a Private Residential Estate on Farm 124/39 Kylemore, Stellenbosch**

General Authorisation for works proposed on a river in Kylemore; EZ Trade (part of a Basic Assessment process)

### **Water Use License and a General Authorisation for the development of housing on Erf 212 and Erf 242 respectively for the Protea Village land claim project.**

Marielle also managed financial and timeline aspects of the project.



**General Authorisation for various work packages (i.e. sections along Govan Mbeki Road) as part of the IRT Phase 2A trunk route infrastructure planning approvals.**

Marielle also managed financial and timeline aspects of the project.

**Amended Water Use License Application for the Proposed Biogas Plant at Cape Dairy farm, Malmesbury**

Amendment of the application forms and submission to the authorities, liaison with the authorities and specialists, client and budget management. Marielle also managed financial and timeline aspects of the project.

**Tokai Estate**

Compilation of water use license application for the development of Tokai Estate, liaison with authorities and client. Marielle also managed financial and timeline aspects of the project.

**Kylemore**

Compilation of water use license application for the development of the housing development in Kylemore, liaison with authorities and client. Marielle also managed financial and timeline aspects of the project.

**ENVIRONMENTAL MANAGEMENT SYSTEMS:**

**Environmental Management System for the Cape Town Film Studios**

Assistance in the compilation of an Environmental Management System.

**Maintenance Management Plan for the Emergency Flood Rehabilitation Works, Robertson**

Compilation of a Maintenance Management Plan (MMP) for emergency flood repair at 12 various culverts from Robertson to Ashton. Tasks included drafting of the MMP, managing a Focus Group Meeting, and liaison with various key State Departments, as well as the management of a Freshwater specialist.

**Maintenance Management Plan for the Wellington Industrial Park**

This plan was drafted as part of the Environmental Management Programme for the Basic Assessment process. It addressed the management of the open green areas, potential reshaping of some wetlands, as well as stormwater infrastructure along the Berg River.

**ENVIRONMENTAL MANAGEMENT PROGRAMMES:**

**Environmental Management Programme (EMPr) for the Emergency Flood Rehabilitation Works, Robertson**

Undertaking the compilation of an Environmental Management Programme for the construction phase of the rehabilitation works on 12 culverts in from Robertson to Ashton.

**Environmental Management Programme (EMPr) for the Evergreen Retirement Village, Bergvliet**

Undertaking the compilation of an Operational Environmental Management Plan for the retirement village in accordance with the City of Cape Town requirements. Marielle also managed financial and timeline aspects of the project.

**Environmental Management Programme (EMPr) for a Bird Sanctuary, Tableview**

Undertaking the compilation of an Environmental Management Plan for construction and operational phase of upgrades to the SANCCOB bird sanctuary in accordance with the City of Cape Town requirements.

**Environmental Management Programme (EMPr) for Disa Primary School, Hout Bay**

Undertaking the compilation of an Environmental Management Plan for construction phase of the extension, refurbishment and upgrade of Disa Primary School in accordance with the City of Cape Town requirements. Tasks included the management of a botanical specialist for a tree survey.

**Environmental Management Programme (EMPr) for a Housing Development, Bellville**

Undertaking the compilation of an Environmental Management Plan for construction phase of a housing development in Bellville in accordance with the City of Cape Town requirements.



**Environmental Management Programme (EMPr) for a Housing Development, Somerset West**

Undertaking the compilation of an Environmental Management Plan for construction phase of the Pine Mews housing development in Somerset West (Erf 16644) in accordance with the City of Cape Town requirements.

**Construction Environmental Management Programme (EMPr) for the of a Poco Showroom and Warehouse on Erf 5874, Parklands**

Writing a Construction-phase Environmental Management Plan for the development in accordance with the City of Cape Town and other legislative requirements. The report included focus on the protection of an adjacent watercourse. Marielle also managed financial and timeline aspects of the project.

**Demolition and Construction Environmental Management Programme (EMPr) for the demolition of an existing house and construction of a five-storey apartment block on Erf 122, Camps Bay**

Writing a Construction-phase Environmental Management Plan for the development in accordance with the City of Cape Town and other legislative requirements. The report included focus on demolition management. Marielle also managed financial and timeline aspects of the project.

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**EIA Checklist for Erf 429, Clifton**

Compilation of an EIA Checklist for the demolition and redevelopment of a residential dwelling on Erf 429, Clifton.

**EIA Checklist for Erf 75, Bantry Bay**

Assistance with compilation of an EIA Checklist for the expansion of the footprint for a property in Bantry Bay.

**EIA Checklist for Wine Cellar Expansion, Spier**

Compilation of an EIA Checklist for the expansion of the footprint and capacity of a wine cellar at Spier Estate.

**EIA Checklist for Composting Facility, Spier**

Compilation of an EIA Checklist for the establishment of a composting facility at Spier Estate.

**EIA Checklist for Erf 281, Clifton**

Assistance with compilation of an EIA Checklist for the expansion of the footprint for a property in Clifton.

**EIA Checklist for Erf 5, Clifton**

Assistance with compilation of an EIA Checklist for the expansion of the footprint for a property in Clifton.

**EIA Checklist for Cape Sawmill, Stellenbosch**

Assistance with compilation of an EIA Checklist for the expansion of the footprint and redevelopment of the Cape Sawmill site in Stellenbosch.

**Opportunities and Constraints Analysis for the Proposed IRT Phase 2A Proposed Wynberg Bus Depot on Erf 91191 & Erf 90745-RE, Wynberg**

Compilation of an Opportunities and Constraints Analysis for the Proposed IRT Phase 2A Proposed Wynberg Bus Depot on Erf 91191 & Erf 90745-RE, Wynberg.

**EIA Checklist for development of a special needs school in Retreat (same project in screening, progressed to a checklist)**

Incorporation of inputs from a heritage practitioner, freshwater ecologist, and botanist as well as consideration of the project scope against the requirements of the EIA Regulations, 2014 as amended and compilation of EIA Applicability Checklist. Marielle also manage financial and timeline aspects of the project. *Currently underway.*

**EIA Checklist for the development of a blueberry farm in Western Cape.**

Responsibilities included compilation of an EIA Checklist for the proposed development and the submission thereof to the authorities. Also liaised with client, project team (i.e. architects and town planners) and authorities. Marielle also managed financial and timeline aspects of the project.

**EIA Checklist for redevelopment of a house into an apartment block on Erf 29&30, Clifton**

Compilation of an EIA Checklist for the proposed development and the submission thereof to the authorities. Also liaised with client, project team (i.e. architects and town planners) and authorities. Marielle also managed financial and timeline aspects of the project.

**EIA Checklist for redevelopment of a house into an apartment block on Erf 124, Camps Bay**

Compilation of an EIA Checklist for the proposed development and the submission thereof to the authorities. Also liaised with client, project team (i.e. architects and town planners) and authorities. Marielle also managed financial and timeline aspects of the project.

**EIA Checklist for a Service Station in Kensington**

Compilation of an EIA Checklist for the development of a service station and the submission thereof to the authorities. Marielle also managed financial and timeline aspects of the project.



### **EIA Checklist for the Rezoning and Subdivision of Farm 183/57, Stellenbosch for a Mixed-Use Development Comprising of Retail, Offices, Industrial and Residential Land Uses**

Marielle also managed financial and timeline aspects of the project.

### **EIA Checklist for several erven in Milnerton Foreshore to be redeveloped to mixed use**

Compilation of an EIA Checklist for the proposed development. Marielle also managed financial and timeline aspects of the project.

### **EIA Checklist for the Proposed School Extension, Refurbishment and Upgrade of Disa Primary School, Erf 9858 and Portions of Erf 7309, Hout Bay**

Compilation of an EIA Checklist for the refurbishment and expansion of Disa Primary School and submission thereof to the authorities. Marielle also managed financial and timeline aspects of the project.

### **EIA Checklist for a mixed-use development at the Cape Pine sawmill**

Management of the project and completion and submission of the checklist. This was reviewed by a senior colleague. Marielle also managed financial and timeline aspects of the project.

## **SECTION 24G APPLICATIONS:**

### **Seasons Find Chicken Farm Section 24G Application**

Management of the post-commencement authorisation process, compilation of the Final Environmental Impact Report, liaison with the project team and authorities, and management of the public participation process.

### **Boschendal Weir Section 24G Application**

Taking over the last stages of the application from a previous EAP. Tasks include writing an updated Impact Assessment Report, completing and updated Application Form, managing two specialist reviews of previous work, engagement with authorities and I&APs, as well as resubmitting the Water Use License Application. *Currently underway*

### **Delft Temporary Relocation Area (TRA) Section 24G Application**

**Contactable reference: Andre September**

#### **Housing Development Agency**

Management of the post-commencement authorisation process, compilation of the Draft and Final Environmental Impact Report, planning and management of a noise questionnaire to the TRA residents, liaison with the project team and authorities, and management of the public participation process.

### **Cape Precious Metals Section 24G and Atmospheric Emissions License Application, unlawful commencement of precious metal recovery activities**

Management of the post-commencement authorisation process, compilation of the Application form and Draft and Final Environmental Impact Reports, liaison with specialists, the project team and authorities, and management of the public participation process.

### **Finegold Laboratories Section 24G and Atmospheric Emissions License Application, unlawful commencement of precious metal recovery activities**

Management of the post-commencement authorisation process, compilation of Draft and Final Environmental Impact Reports, liaison with specialists, the project team and authorities, and management of the public participation process.

### **Spier Composting Facility Section 24G and Waste Management License Application, unlawful commencement of a large composting facility**

Management of the post-commencement authorisation process, compilation of the Application form and Draft and Final Environmental Impact Reports, liaison with specialists, the project team and authorities, and management of the public participation process.

### **12 Apostles Hotel and Spa Section 24G Application, unlawful expansion of footprint**

Management of the post-commencement authorisation process, compilation of the Final Environmental Impact Report, liaison with the project team, one specialist and authorities, and management of the public participation process.

### **Elandskloof Section 24G Application, unlawful expansion of footprint and conversion of cottages to tourism accommodation**

Management of the post-commencement authorisation process, compilation of the Final Environmental Impact Report, liaison with the project team, one specialist and authorities, and management of the public participation process.

### **WASTE MANAGEMENT PLANS:**

#### **Integrated Waste Management Plan, Cape Agulhas Municipality**

Drafting of the 3<sup>rd</sup> Generation Integrated Waste Management Plan for the Municipality which included research and updating of the 2<sup>nd</sup> generation plan.

#### **Integrated Waste Management Plan, Martin & East**

Drafting of an Integrated Waste Management Plan for crushing facilities at various waste disposal facilities in support of Martin and East's registration as a waste service provider for the City of Cape Town.

#### **Waste Management Plan, Spier, Stellenbosch**

Drafting of a Waste Management Plan for a proposed new biodynamic micro-winery.

#### **General Authorisation Application, Tokai Estate**

Compilation and submission of a General Authorisation Application to the Department of Water and Sanitation for works along and on the Keysers River.

#### **Waste Management Plan (WMP) for the proposed Biodynamic micro-winery at Spier**

Client liaison and compilation of the WMP. Marielle also managed financial and timeline aspects of the project.

### **SETBACK LINE APPLICATIONS:**

#### **Setback line Application, Glencairn Quarry**

Management of the setback line application process, heritage specialist and supporting public participation as well as completion of application form.

#### **Setback Line Application, Erf 281, Clifton**

Management of the setback line application process, supporting public participation as well as completion of application form.

#### **Setback Line application for redevelopment of a house into an apartment block on Erf 29&30, Clifton (emerged from the EIA Applicability Checklist)**

Compilation of the application form for the proposed development and the submission thereof to the authorities, manage necessary public participation process, liaison with client, project team (i.e. architects and town planners) and authorities. Marielle also manage financial and timeline aspects of the project. *Currently underway.*

#### **Setback Line application for redevelopment of a house into an apartment block on Erf 124, Camps Bay (emerged from the EIA Applicability Checklist)**

Compilation of the application form for the proposed development and the submission thereof to the authorities, manage necessary public participation process, liaison with client, project team (i.e. architects and town planners) and authorities. Marielle also manage financial and timeline aspects of the project. *Currently underway.*

#### **Erf 395 Setback Line Application for the demolition and reconstruction of a bungalow in Clifton**

Management of the setback line application process and supporting public participation as well as completion of application form. Marielle also managed financial and timeline aspects of the project.

#### **Setback Line Application for the development of a Spa at Spier Wine Estate**

Management of the setback line application process and supporting public participation as well as completion of application form. Marielle also managed financial and timeline aspects of the project.

### **Erf 111 Setback Line Application for the demolition and redevelopment of a five-storey apartment block-**

Management of the setback line application process and supporting public participation as well as completion of application form. Marielle also managed financial and timeline aspects of the project.

### **6 Victoria Road Setback Line Application for the redevelopment of an apartment block**

Management of the setback line application process and supporting public participation as well as completion of application form. Marielle also managed financial and timeline aspects of the project.

## **AMENDMENT APPLICATIONS:**

### **Amendment Application Erf 848, Struisbaai**

Undertaking an amendment application for change in holder and extended validity period of appealed Environmental Authorisation for the Proposed Langezandt Quays Development.

### **Amendment Application for the Proposed Establishment of the King David Warehousing, Industrial and Business Development on Erf 112674, Cape Town and the Remainder of Erf 1181, Matroosfontein**

Management of the amendment application process and the completion of the application form. The process also required stakeholder engagement with key parties on certain specific conditions of authorisation.

### **Amendment Application for Revisions to the Development Framework, Faure**

Undertaking an amendment application and combination of the various Records of Decision obtained by the Cape Town Film Studios for revisions to the Development Framework included compilation of the Notice of Intent, Amendment Application Form, liaison with authorities, liaison with specialists (traffic, freshwater, botanical) and project team.

### **Amendments to the Development Framework for Cape Town Film Studios through one Part 2 Amendment Application**

Marielle also managed financial and timeline aspects of the project.

### **Amendment to the Environmental Authorisation and EMPr resulting from the association Section 24G process for Cape Precious Metals to reduce audit frequency**

Compilation of application, liaison with client and authorities as notification of I&APs. Marielle also managed financial and timeline aspects of the project.

### **Amendment to the appeal record of decision for a mariculture facility and restaurant on Erf 248, New harbour, Hermanus through a Part 1 Amendment Application process**

Liaison with client and authorities, manage the process, complete the application forms and management of project budget and programme. Marielle also managed financial and timeline aspects of the project.

### **Amendment Application for a residential development in Tokai.**

Management of the process, client and authority liaison and completion of the application documentation. Marielle also managed financial and timeline aspects of the project.

## **ENVIRONMENTAL MONITORING AND AUDITING:**

### **Environmental Officer (EO), Biogas Plant, Bronkhorstspuit**

EO for the monitoring, auditing and reporting of operational activities against an Environmental Management Programme for a biogas facility in Gauteng. Marielle conducted five of the six audits. Marielle also managed financial and timeline aspects of the project.

### **Environmental Control Officer (ECO), Sir Lowry's Pass Sewer Outfall**

ECO for the monitoring, auditing and reporting of construction activities in accordance with the Environmental Management Programme for the construction of the sewer outfall network in Sir Lowry's Pass, Somerset West. Review reports of Junior Environmental Consultant. Marielle also managed financial and timeline aspects of the project and oversaw a junior consultant, reviewing their reports and sometimes going to site.



### **Cape Precious Metals Registration on SAAILEP and NAEIS Emission Reporting for three years running.**

Completion of the online registration and annual emission reporting forms based on the findings of a specialist study.

### **Cape Precious Metals Environmental Audit**

An audit was conducted in terms of the requirements of the Environmental Authorisation, compliance was established, and recommendations were made to ensure complete compliance. Marielle also manage financial and timeline aspects of the project.

### **Cape Precious Metals Annual Emissions Audit Report**

An audit was conducted in terms of the requirements of the Provision Atmospheric Emission License, compliance was established and recommendations were made to ensure complete compliance. Marielle also manage financial and timeline aspects of the project.

### **Update Environmental Legislation Document, South African Bitumen Association (SABITA)**

Review of legislation applicable to the business activities of SABITA and updating their Environmental Legislation Guideline document accordingly.

### **Environmental Screener for the Proposed Widening of the M3**

The designs provided by the engineers were reviewed and the entire route was analysed, in conjunction with the proposal, to highlight potential environmental sensitivities and associated triggers. The findings were detailed in a report.

### **Environmental Screener for Erf 668-0 for Proposed Warehousing and Filming Activities**

The scope provided by the client was reviewed and the entire site was analysed, in conjunction with the proposal, to highlight potential environmental sensitivities and associated triggers. The findings were detailed in a report.

### **Feasibility Assessment, Integrated Rapid Transport (IRT) Depots**

Conducting a feasibility assessment for a number of sites selected by the City of Cape Town for the establishment of IRT Depots. Assessment included liaison with authorities, desktop research, legislative review and a site visit.

### **Feasibility Assessment, Integrated Rapid Transport (IRT) Feeder Routes (Phase 2A)**

Conducting a feasibility assessment for the establishment of an IRT Feeder network. Assessment included liaison with authorities, desktop research, legislative review, site visit, and specialist management.

### **NEMA Appeal Process Support- Environmental Impact Assessment for an LPG Handling Facility in Saldanha**

Provision of guidance and advice to the client during the appeals phase.

### **Impact Assessment and Rehabilitation Report for Illegal Infilling on Erf 82057**

Conducting a site visit, managing a freshwater specialist, and writing and submitting an Impact Assessment Report and Rehabilitation Plan to the authorities in response to a pre-compliance notice.

### **Impact Assessment and Rehabilitation Report for Placement of Excavated Material on Erf 2252, Camps Bay**

Conducting a site visit, managing a botanical specialist, and writing and submitting an Impact Assessment Report and Rehabilitation Plan to the authorities in response to a pre-compliance notice. Marielle also managed financial and timeline aspects of the project.

### **Proposed Developments and Overall Conceptual Framework at Boschendal, Franschhoek**

Undertaking environmental investigations in terms of applicable environmental legislation and appropriate environmental processes for the Proposed Developments and Overall Conceptual Framework at Boschendal, Franschhoek.

### **Retrospective audit for the first phase of construction for the Wildersview Housing Development in Bellville**

Site visit, review of evidence/documentation provided and compilation of audit report. An addendum was also compiled following the completion of recommendations from the initial audit report by the client in order to close out the audit. Marielle also managed financial and timeline aspects of the project.

#### **Environmental Control Officer (ECO), Emergency Flood Damage Repair to Culverts in Robertson**

ECO for the monitoring, auditing and reporting of construction activities in accordance with the Environmental Management Programme for the repair of structures. Review reports of Junior Environmental Consultant. Marielle also managed financial and timeline aspects of the project and oversaw a junior consultant, reviewing their reports and sometimes going to site.

#### **Environmental Screening exercise to compare the viability and potential opportunities and constraints associated with three sites for the development of a blueberry farm in Western Cape.**

Responsibilities included site visits, drafting of the screening report and associated recommendations and considerations against the requirements of the EIA Regulations, 2014, as amended, as well as liaison with the project team. I also managed financial and timeline aspects of the project.

#### **Environmental Opportunities and Constraints Analysis for the development of a Nelson Mandela Memorial at UCT**

Required management of freshwater ecologist and botanist and incorporation of their studies (as well as input from engineers and town planners) into the Opportunities and Constraints Report, drafting of the Opportunities and Constraints Report as well as liaison with the project team. I also managed financial and timeline aspects of the project.

#### **Environmental Opportunities and Constraints Analysis to inform the design of a Conceptual Framework for the Boschendal Farm**

Required management of freshwater ecologist, faunal specialist and botanist and incorporation of their studies (as well as input from engineers and town planners) into the Opportunities and Constraints Report, drafting of the Opportunities and Constraints Report as well as liaison with the project team and the authorities (i.e. Stellenbosch Municipality and DEA&DP). I also managed financial and timeline aspects of the project.

#### **Environmental screening of a site in Retreat for a special needs school**

Included management of a heritage practitioner, freshwater ecologist, and botanist and incorporation of their findings as well as consideration of the project scope against the requirements of the EIA Regulations, 2014 as amended and compilation of recommendation for the way forward and potential listed activities triggered. I also managed financial and timeline aspects of the project.

#### **High-level Environmental Screening for 134 NMT links in the Overstrand Municipality**

Desktop review of spatial data on environmental sensitivities considered with the project scope against the requirements of the EIA Regulations, as amended as well as the requirements of the National Water Act and National Heritage Resources Act. I also managed financial and timeline aspects of the project.

#### **Preliminary investigation and legislative review for the proposed IRT Feeder Routes**

Provision of opinion on required processes, liaison with the authorities, client and management of project and budget. I also managed financial and timeline aspects of the project.

#### **Feasibility Assessment, Student Accommodation on Erf 24020-RE, Belhar**

Assessment included liaison with the authorities, review of legal requirements, desktop research to establish environmental sensitivities on site as well as a site visit. I also managed financial and timeline aspects of the project.

#### **Feasibility Assessment, Student Accommodation at King Hintsha Campus, East London**

Assessment included liaison with the authorities, review of legal requirements, desktop research to establish environmental sensitivities on site as well as a site visit. I also managed financial and timeline aspects of the project.

#### **Ad Hoc provision of Opinion to the South African Property Owners' Association**

Provision of opinion with regard to the relevance of environmental legislation and activities on proposed development. Opinion has also been provided in terms of the implication of amendments to legislation.

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## APPEALS

Provision of guidance and advice to the client during the appeals phase as well as circulation of additional information for public comment and compilation of the comments and response report. I also managed financial and timeline aspects of the project.

### **Appeals on King Air Amendment Application**

Provision of guidance and advice to the client during the appeals phase as well as providing responses to appeal comments regarding the EIA process. I also managed financial and timeline aspects of the project.

### **Appeals on LPG Handling Facility EIA, Saldanha**

Provision of guidance and advice to the client during the appeals phase as well as providing responses to appeal comments regarding the EIA process. I also managed financial and timeline aspects of the project.

### **Appeals on ad hoc development setback line for 6 Victoria Road, Clifton**

Provision of guidance and advice to the client during the appeals phase as well as providing responses to appeal comments regarding the EIA process. I also managed financial and timeline aspects of the project.

## WATER SAFETY PLANS:

Writing of Water Safety Plans (which includes a review and necessary understanding of geohydrological reports, SANS241-1 standards, technical design reports, water services intermediary requirements of the City of Cape Town, and water treatment plants and related operations) under a contract with Western Cape Government for a number of health facilities in the Western Cape. I wrote the Water Safety Plans for the following facilities:

- o Eerste River Hospital;
- o Grassy Park Community Day Clinic;
- o Michael Mapongwana Community Health Centre;
- o Vredelus House Child and Youth Care Centre;
- o Khayelitsha Hospital; and
- o Gugulethu Community Health Centre.

## WASTE MANAGEMENT LICENSES:

### **Waste Management License Variation Application for the Biogas Plant on Farm Boschkop, Bronkhorstspuit**

Completion of the application form and associated motivation, liaison with client and authorities. Marielle also managed financial and timeline aspects of the project.

### **Waste Management License CSIR Biogas Plant**

Completion of application form and associated assessments as part of the CSIR Biogas EIA listed above. Marielle also managed financial and timeline aspects of the project. This project was eventually put on hold and the process did not run to conclusion.

## PEER REVIEW:

### **Peer Review in terms of the requirements of Regulation 34 and Appendix 7 of GN No. 326 of 2017 of the audit report compiled by GIBB for the triangle light industrial development and amendments to the Kuils River**

Review of the audit report compiled by GIBB while considering its alignment with the regulations and compiling a peer review report. I also managed financial and timeline aspects of the project.

## DEMOLITION PERMIT APPLICATIONS:



### **Application for Demolition of King David Golf Course Clubhouse and associated buildings**

Completion of application form, reviewed by heritage practitioner, and submission to/liaison with HWC. I also managed financial and timeline aspects of the project.

### **Application for Demolition of the Clovelly Station Platform**

Completion of application form, reviewed by heritage practitioner, and submission to HWC. I also managed financial and timeline aspects of the project.

## **REHABILITATION PLANS:**

### **Impact Assessment and Rehabilitation Report for Illegal Infilling on Erf 82057**

Conducting a site visit, managing a freshwater specialist, and writing and submitting an Impact Assessment Report and Rehabilitation Plan to the authorities in response to a pre-compliance notice. Marielle also managed financial and timeline aspects of the project.

### **Impact Assessment and Rehabilitation Report for Placement of Excavated Material on Erf 2252, Camps Bay**

Conducting a site visit, managing a botanical specialist, and writing and submitting an Impact Assessment Report and Rehabilitation Plan to the authorities in response to a pre-compliance notice. Marielle also managed financial and timeline aspects of the project.

## **MAINTENANCE MANAGEMENT PLANS:**

Maintenance Management Plan (MMP) for Emergency Flood Rehabilitation Works, Compilation of a Maintenance Management Plan (MMP) for emergency flood repair at 12 various culverts from Robertson to Ashton. Tasks included drafting of the MMP, managing a Focus Group Meeting, and liaison with various key State Departments, as well as the management of a Freshwater specialist. Marielle also managed financial and timeline aspects of the project.

### **Maintenance Management Plan for Wellington Industrial Precinct**

Writing the EMPr to include the necessary maintenance management aspects and the EA also approved the MMP. I also managed financial and timeline aspects of the project.

## **TENDERS:**

Compilation and drafting of tender documents as well as the management of the process and administrative support.

**GIBB** (May 2012 – November 2013)

### **Environmental Impact Assessment (and EMP) for the proposed construction, operation and decommissioning of a conventional Nuclear Power Station and Associated Infrastructure (Nuclear-1) (SIP Project)**

Provision of assistance with project management, acting project manager for 4 months during restructuring, coordination of 17 specialists, assistance with drafting of the EMP and public consultation, management of project budgets and invoicing, strict quality adherence to ISO19001 as well as NEC2, team liaison, and review of specialist reports.

### **Environmental Impact Assessment for the Expansion of the Iron Ore Corridor from Sishen Mine to the Port of Saldanha (SIP Project)**

Marielle performed the task of Assistant Project Manager for the entire development and managed project finances, the project administrative team, programme management and general project reporting in line with ISO9001 systems and NEC3 requirements.

The project was divided into a number of authorisation processes, of which Marielle was technically involved in the following:

- **EIA for Expansion at the Port of Saldanha**- background research, drafting of the Scoping Report, assistance with drafting the specialist terms of reference, management of the Public Engagement
- **BA for Third Tippler** (not part of the expansion)- background research, public engagement, and authority liaison

**Environmental Impact Assessment (and EMP) for the Wolseley Wind Farm**

Assistance with report and EMP drafting, specialist report review, synthesis of specialist reports as well as specialist liaison and coordination.

**Environmental Impact Assessment (and EMP) for the Caledon (Langhoogte) Wind Farm**

Assistance with report and EMP drafting, specialist report review, synthesis of specialist reports as well as specialist liaison and coordination.

**Environmental Impact Assessment for a Dedicated Isotope Production Reactor (DIPR) for the South African Nuclear Energy Corporation (NECSA)**

The EIA was for a nuclear reactor with associated infrastructure at the NECSA Pelindaba site, North West Province. The nuclear reactor was to be solely utilized for the purpose of producing radio isotopes and not for energy production. Marielle assisted with drafting of the scoping report as well as general project team liaison and task management.

**Basic Assessment for a Road Upgrade in Rawsonville**

Writing of the draft Basic Assessment Report, review of specialist report, management and liaison with specialists, management of project budgets and invoicing, and programme management.

**Environmental Impact Assessment (and EMP) for the Sowa Water Master Plan Update, Botswana**

Project management, compilation of the scoping and environmental impact reports, compilation of the EMP, management and involvement in a thorough Public Consultation Process in Botswana, management of specialists, authority liaison and general team liaison.

**Environmental Impact Assessment for the City of Cape Town Stormwater Upgrades**

The EIA covered all management and maintenance interventions undertaken within City's numerous rivers, canals, vleis, wetlands, estuaries and constructed stormwater systems and includes public participation, aquatic and botanical specialist studies. Marielle performed the role of Public Participation Officer and managed ongoing communications with I&APs as well as the compilation of entire Comments and Response Reports.

**Environmental Impact Assessment for the Groot Drakenstein Sewer Pipeline**

Assistance with report writing and distribution.

**Environmental Impact Assessment for the St. Helena Wind Farm**

Assistance with site research and report compilation.

**Integrated Rapid Transit Infrastructure for the City of Cape Town**

Conducted Environmental site audits and reporting as well as facilitation of public engagement.

**Skoongesig Transmission Line**

Conducted ECO audits and reporting as well as environmental training for workers.

**Millennium Challenge Corporation Mozambique Compact**

Independent environmental services for projects part of the \$507 million Mozambique Compact, which is funded by the Millennium Challenge Corporation (United States of America). Marielle provided assistance with report editing and compilation for the environmental audits conducted in Mozambique by the ECO.

**ACADEMIC RECORD**

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**Degrees**

MSc Environmental Management (UNISA) - ongoing part-time  
BSc (Hons) Environmental Management (UNISA)  
BSc Environmental Management majoring in Zoology and Geography (UNISA)

### **Certificates**

ICDL  
MS Project Level 1  
MS Project Level 2

### **Professional Registration**

SACNASP- Trainee Certificated Natural Scientist, Level B (600001/15)  
EAPASA - 2019/1988

### **Recreation**

Open Water Diver  
Advanced Open Water Diver  
Enriched Air Diver

## **PRESENTATION AT CONFERENCES**

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### **LPG Africa Conference April 2016, Hilton Hotel, Sandton**

Speaker at the conference "EIA Process and Challenges and Opportunities for LPG Facilities"

## **REFERENCES**

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Tommy Brummer  
Tommy Brummer Town Planners  
Tel: 083 251 5143

Muhammed Khan  
Cape Town Film Studios  
Tel: 021 843 2446

Courage Pindurai Karenyi  
SVArchitects  
Tel: 021 421 4276



## **CLAUDETTE MULLER CURRICULUM VITAE**

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### **KEY QUALIFICATIONS**

Claudette is a senior environmental consultant and Environmental Assessment Practitioner (EAP) at Chand. She has a BSc Honours degree in Environmental Science from Rhodes University and an interdisciplinary Master's degree in Environment, Society and Sustainability from the University of Cape Town. Her extensive academic and research history in both natural and social science straddle the fields of ecology, biodiversity-use-and-trade, climate change and environmental law. This diverse background has cultivated a holistic approach to solving developmental challenges situated at the social, economic, environmental nexus, particularly in the South African context. She holds extensive knowledge of Integrated Environmental Management and is well versed in environmental legislation and associated environmental and planning processes.

She has managed a number of Basic Assessment processes and has co-authored Scoping Reports. She is proficient in report writing, synthesis of technical reports, management of specialists and leading public participation processes.

She holds 4.5 years of experience in environmental compliance monitoring and auditing and has fulfilled the role of Environmental Control Officer (ECO) during the construction phase for a range of development projects.

Other key competencies include:

- High level environmental screening and legal reviews;
- Compilation of Environmental Management Programmes (EMPrs);
- Compilation of Environmental Impact Assessment (EIA) applicability checklists;
- Amendment applications for Environmental Authorisations; and
- The management and compilation of Water Use License Applications (WULAs) and water related permitting.

### **APPLICABLE PROJECT EXPERIENCE**

#### **BASIC ASSESSMENTS, SCOPING & EIAS & 24G APPLICATIONS**

**Basic Assessment for the Proposed Development of a Block of Flats (Azalea) in Victoria Road, Clifton**  
Lead EAP responsible for management of Basic Assessment Process (ongoing)

**Basic Assessment for the Servicing of the Founder's Estates, Boschendal**  
Lead EAP responsible for management of Basic Assessment Process (ongoing)

**Basic Assessment for the New Retreat Residential Development at Boschendal Estate**  
Lead EAP responsible for management of Basic Assessment Process (ongoing)

### **Basic Assessment for a Waste Management Licence Application for the Everite Asbestos Waste Site**

Lead EAP responsible for management of Basic Assessment Process (ongoing)

### **Basic Assessment for the City of Cape Town IRT Phase 2A E01 Trunk Route, Gugulethu & Manenberg**

Co-author of Basic Assessment Report and management of public participation process

### **Basic Assessment for The Point – Kalk Bay: Proposed Rehabilitation of the Parking and Recreational Area**

Assistance in the compilation of a Basic Assessment Report, review and synthesis of specialist reports, liaison with the project team and authorities, co-ordination of specialists and management of the public participation process.

### **Basic Assessment for the Proposed Establishment of the King David Warehousing, Industrial and Business Development on Erf 112674, Cape Town and the Remainder of Erf 1181, Matroosfontein**

Assistance in the compilation of the Basic Assessment Report including review and synthesis of specialist reports.

### **Proposed Phase 2 Extension of Houmoed Avenue and Upgrading of Masiphumelele Informal Settlement, Sunnydale and Masiphumelele, Cape Town**

Assistance in the compilation of the Basic Assessment Report and management of the public participation process.

### **Scoping and EIA process for a proposed Gas (LPG) to Power Project, Saldanha**

Compilation of Environmental Application and co-author of Scoping Report.

### **NEMA 24G Retrospection Environmental Authorisation Application Process for a Tented Camp at Boschendal**

Compilation of 24G Report, management of specialists and facilitation of public participation process.

## **PUBLIC PARTICIPATION PROCESSES**

### **Basic Assessment for the Proposed Phase 1 Extension of Houmoed Avenue, from Buller Louw Drive to Lekkerwater Road, Sunnydale, Cape Town**

Management of the Public Participation Process, including liaison with I&APs and compilation of Comments and Responses report.

### **Basic Assessment for the Proposed Phase 2 Extension of Houmoed Avenue & Upgrading of Masiphumelele Informal Settlement**

Management of the Public Participation Process, including liaison with I&APs and compilation of Comments and Responses report.

### **The Upgrade of Kommetjie Road, Sunnydale, Cape Town**

Management of the Public Participation Process, including liaison with I&APs and project team members during the construction phase.

### **The Upgrade of Main Road, Kalk Bay, Cape Town**

Public Liaison Officer during the construction phase.

## **ENVIRONMENTAL MONITORING AND AUDITING**

### **Environmental Control Officer (ECO), The Twelve Apostles Reconfiguration of a Helipad and construction of Two Gazebos**

ECO for the monitoring, auditing and reporting of construction activities in accordance with the Environmental Management Plan.

### **Environmental Control Officer (ECO), King Air Mixed Use Development, Matroosfontein**

ECO for the monitoring, auditing and reporting of construction activities in accordance with the Environmental Management Programme.

**Environmental Control Officer (ECO), Building works for the Aramex Warehouse at Richmond Park**  
ECO for the monitoring, auditing and reporting of construction activities in accordance with the Environmental Management Programme.

**Environmental Control Officer (ECO), Construction of a Traffic Circle and sidewalks at Teubes Road/Kommetjie Road. Kommetjie**  
ECO for the monitoring, auditing and reporting of construction activities in accordance with the Environmental Management Programme.

**Environmental Control Officer (ECO), Residential Development on a Portion of Leeukoppie Estate, Hout Bay, Cape Town**  
ECO for the monitoring, auditing and reporting of construction activities in accordance with the Environmental Management Programme.

**Environmental Control Officer (ECO), Expansion of the Evergreen Retirement Village by 22 Apartments, Bergvliet, Cape Town**  
ECO for the monitoring, auditing and reporting of construction activities including the compilation of required Method Statements in accordance with the conditions of the planning authorisation.

**Environmental Control Officer (ECO), Expansion of the Evergreen Retirement Village by 13 Houses, Bergvliet, Cape Town**  
ECO for the monitoring, auditing and reporting of construction activities including the compilation of required Method Statements in accordance with the conditions of the planning authorisation.

**Environmental Control Officer (ECO), Construction of IRT Phase 2A Electric Bus Charge Facility at Foreshore Staging Area and Depot Enabling Works: Khayelitsha and Mitchell's Plain.**  
ECO for the monitoring, auditing and reporting of construction activities in accordance with the Environmental Management Programme.

**Environmental Audit of the Residential Development on a Portion of Leeukoppie Estate, Hout Bay, Cape Town**  
Conducting a six-month environmental compliance audit and assessment of the EMPr for the construction phase of the development.

**Environmental Audit of the Delft Symphony Housing Project, Delft, Cape Town** Conducting an environmental compliance audit for the operational phase of the development.

**Environmental Audit of the 12 Apostles Hotel and Spa, Camps Bay, Cape Town** Conducting environmental compliance audits for the operational phase of the development.

**Environmental Audit of the Avedia Energy Liquid Petroleum Gas (LPG) Handling Gas Facility, Saldanha.**  
Conducting an environmental compliance audit for the operational phase of the development.

## **WATER USE LICENCES AND WATER RELATED PERMITTING**

**Proposed Phase 2 Extension of Houmoed Avenue and Upgrading of Masiphumelele Informal Settlement, Sunnyside and Masiphumelele, Cape Town**  
Compilation of Water Use Licence Application (WULA) including review and synthesis of specialist reports.

**Proposed Phase 1 Extension of Houmoed Avenue, Sunnyside Cape Town**  
Compilation of Water Use Licence Application (WULA) including review and synthesis of specialist reports.

**The Stellenbosch Square Alternative Water Supply System, Stellenbosch**  
Compilation of Water Use Licence Application (WULA) and synthesis of specialist reports.

**Paul Roos Gymnasium Alternative Water Supply System, Stellenbosch**



Compilation of Water Use Licence Application (WULA) and synthesis of specialist reports.

**Water Management Strategy for the Hospitality Property Fund and Tsogo Sun Hotels**

Compilation of necessary permits and water use authorisations for different water-use management measures at various hotel properties in Cape Town/ Nelson Mandela Bay/Bloemfontein, including liaison with authorities and management of specialists,

**The Proposed Spatial Development Framework for the Wellington Industrial Precinct, Erf 34, Wellington**

Compilation of Water Use Licence Application (WULA) including review and synthesis of specialist reports.

**The 12 Apostles Hotel & Spa water treatment facility; 12 Apostles Hotel**

Compilation of Water Use Licence Application (WULA) and management of Water Services Intermediary (WSI) application process with the City of Cape Town.

**The Implementation of Alternative Water Supply Facilities at various Growthpoint Properties; Growthpoint**

Compilation of Water Use Licence Application (WULA) and management of Water Services Intermediary (WSI) application process with the City of Cape Town.

**The Western Cape Government: Transport & Public Works Department Business Continuity Plan in Response to the Cape Town Drought**

Management of Water Services Intermediary (WSI) application process for alternative water supply systems at fourteen critical infrastructure sites.

**The CTICC Reverse Osmosis (RO) Plant; CTICC**

Compilation of Water Use Licence Application (WULA), Water Services Intermediary (WSI) application and Coastal Waters Discharge Permit (CWDP) including liaison with authorities and management of specialists.

**The Somerset Mall Reverse Osmosis (RO) Plant; Hyprop Investments**

Compilation of Water Use Licence Application (WULA) and management of Water Services Intermediary (WSI) application process with the City of Cape Town.

**EIA APPLICABILITY CHECKLISTS & AMENDMENT APPLICATIONS**

**EIA Applicability Checklist** for the Proposed Nautica Development, Granger Bay Harbour.

**EIA Applicability Checklist** for a Proposed Mixed-Use Zoning Application at The Island, Paarden Eiland

**EIA Applicability Checklist** for the Proposed City of Cape Town IRT Trunk Route: E2.

**Amendment Application** for the Kommetjie Central Development Environmental Authorisation.

**ENVIRONMENTAL SCREENING**

**Desktop Environmental Screener** for the Proposed Upgrade of various NMT facilities by Stellenbosch Municipality.

**Desktop Environmental Screener** for the Proposed Storage of Dangerous Goods at Senmin, Sasolburg.

**Desktop Environmental Screener** for a Proposed High-Density Residential Development on various erven, Hout Bay.

**Desktop Environmental Screener** for a Proposed Blue Berry Farm on Boschendal Estate.



**Desktop Environmental Screener** for the development of a Place of Worship at 2 Liesbeek Avenue.

**Desktop Environmental Screener** for the Phantom Forest Re-development, Knysna.

### **ACADEMIC RECORD**

**MPhil in Environment, Society and Sustainability** (University of Cape Town)

**BSc (Honours) in Environmental Science** (*cum laude*) (Rhodes University)

**BSc in Biodiversity and Ecology** (Stellenbosch University)

### **PUBLICATIONS**

**Perceptions of Climate Change and Barriers to Adaptation amongst Commonage and Commercial Livestock Farmers in the Semi-arid Easter Cape Karoo**, C Muller & SE Shackleton, *African Journal of Range and Forage Science* Vol. 31:1, 2014)