



MARIELLE PENWARDEN

CURRICULUM VITAE

KEY QUALIFICATIONS

Marielle Penwarden is an environmental consultant at Chand Environmental Consultants. She has five 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 is currently doing her Master of Science in Environmental Management part-time through UNISA and 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

CHAND ENVIRONMENTAL CONSULTANTS (December 2013- Present)

BASIC ASSESSMENT & RELATED PUBLIC PARTICIPATION PROCESSES:

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 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.

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.

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.

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.

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 Decommissioning and Redevelopment of Everite Asbestos Waste Consolidation Site, Brackenfell

Assistance in the compilation of the 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 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 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.

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.

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.

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.

EIA CHECKLISTS:

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.

PUBLIC PARTICIPATION PROCESSES:

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 Mndani 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.

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.

Delft Temporary Relocation Area (TRA) Section 24G Application

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 3rd Generation Integrated Waste Management Plan for the Municipality which included research and updating of the 2nd 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.

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.

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.

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.

Cape Precious Metals Registration on SAAILEP and NAEIS Emission Reporting

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

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.

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.

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.

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.

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.

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

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)

Recreation

Open Water Diver

Advanced Open Water Diver

Enriched Air Diver

PRESENTATION AT CONFERENCES

LPG Africa Conference April 2016, Hilton Hotel, Sandton

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