



LORNAY
ENVIRONMENTAL CONSULTING

Environmental Management Programme

Prepared for:

Prof. I. Siebert
Portion 57 of the Farm 633, Caledon RD
June 2024

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CLIENT: Prof. I Siebert

TITLE: Environmental Management Programme

REFERENCE: EMPr/IS/Rev1

REPORT DATE: June 2024

DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER (“EAP”)

| | | | |
|----------------------------------|---------------------------------------------------------------------------------------------------------|--------------|------|
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| EAP Qualifications: | Bachelor of Science (Hons); Master of Science (Rhodes University), EAPSA., SACNASP., IAIASA., cand APHP | | |
| | SEE CV attached under Appendix A | | |

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1. INTRODUCTION

This Environmental Management Programme (EMPr) serves as a guideline document for the operational phase of the agricultural activities on Portion 57 of the Farm 655, Caledon RD.

This EMPr describes mitigation measures and is prescriptive, identifying specific individuals or organisations responsible for undertaking specific tasks during the agricultural activities, with the aim to ensure that potential impacts on the environment during operation are minimised and / or avoided. The EMPr is an open-ended document and may require updating from time to time and as the activities evolve on site. This EMPr has been compiled as part of the Section 24 G Application submitted to the Competent Authority and is legally binding.

2. OPERATIONAL ACTIVITIES

The subject properties are owned by Prof. I. Siebert, who purchased the property in 2020. No other agricultural activities take place on the property under his ownership.

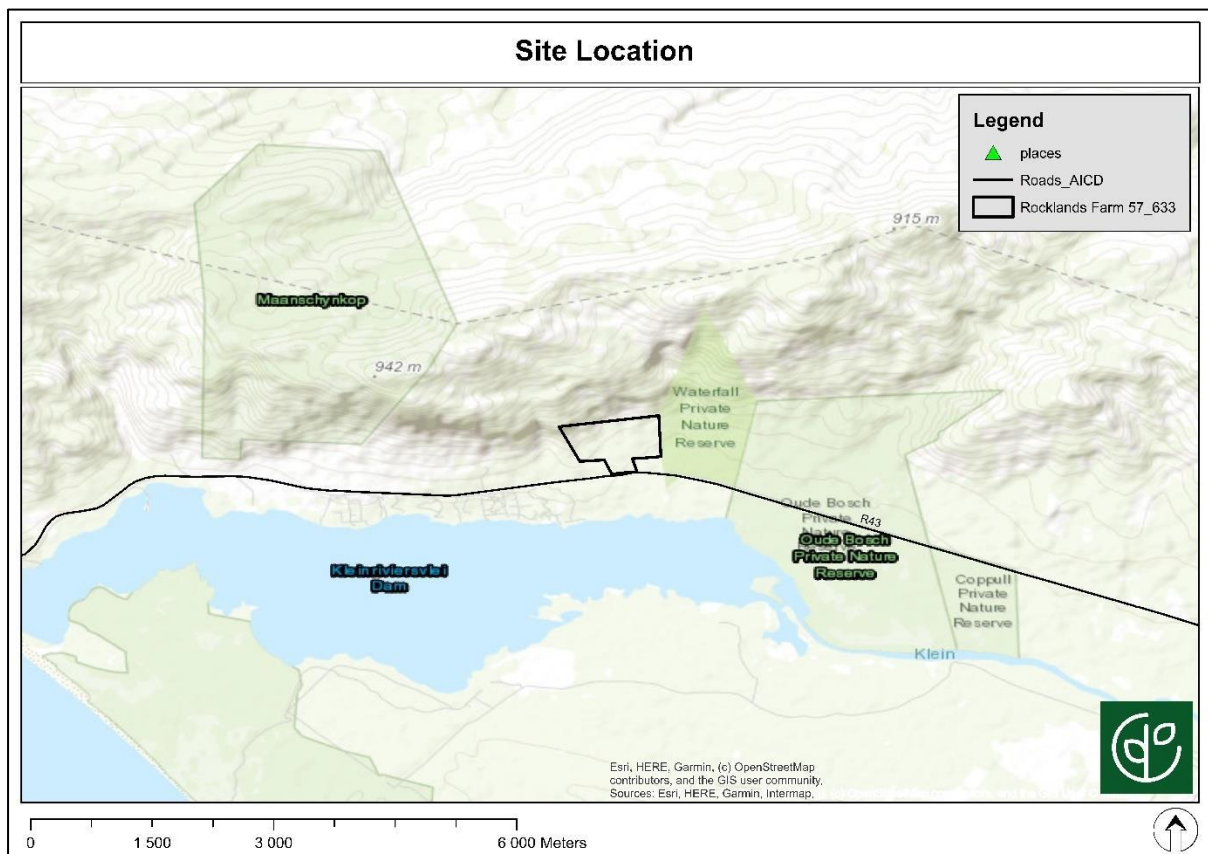


Figure 1. Location of the subject property

The operational activities involve maintenance of the 9ha Macadamia nut grow, and eventual harvesting of the nuts.

3. KEY TERMS AND ABBREVIATIONS

| | |
|--------|-----------------------------------------------------------------------------|
| 24G | Section 24G for the correction of wrongful activities |
| CARA | Conservation of Agricultural Resources Act (Act No. 43 of 1983) |
| DEA&DP | Department of Environmental Affairs and Development Planning (Western Cape) |

| | |
|--------|-------------------------------------------------------------------------|
| EA | Environmental Authorisation |
| EAP | Environmental Assessment Practitioner |
| ECA | Environment Conservation Act (Act No. 73 of 1989) |
| ECO | Environmental Control Officer |
| EIA | Environmental Impact Assessment |
| EMPr | Environmental Management Programme |
| NEMA | National Environmental Management Act (Act No. 107 of 1998) |
| NEM:BA | National Environmental Management Biodiversity Act (Act No. 10 of 2004) |
| NEM:WA | National Environmental Management Waste Act (Act No. 59 of 2008) |
| PPE | Personal Protective Equipment |
| SDS | Safety Data Sheets |
| SHE | Safety Health and Environmental |

Competent authority - The Department of Environmental Affairs and Development Planning (DEA&DP)

Developer / Applicant – Andre Wessels

Environmental Control Officer (ECO) - a suitably qualified person to be appointed by the Developer / Applicant, to oversee the implementation of the EMPr and environmental authorisation through the operational phase and into decommissioning (if applicable)

Environmental Management Programme (EMPr) - this document, approved by the competent authority, to control the implementation of the works on the site in such a way as to ensure that they do not result in undue or reasonably adverse impacts on the environment

General waste - Waste that does not pose an immediate hazard or threat to health or to the environment, and includes domestic waste, building and demolition waste, business waste and inert waste

Hazardous waste - Any waste that contains organic or inorganic elements or compounds that may, owing to the inherent physical, chemical or toxicological characteristics of that waste, have a detrimental impact on health and the environment. Infectious mortalities are also considered hazardous

Project manager - Overall responsible and accountable person for the site during the construction, operation and decommissioning of the facility.

Project Management team - The responsibility of the EMPr implementation resides with this team. This team includes a Project Manager and appointed contractors and consultants.

Safety, Health and Environmental Officer (SHE Representative) - A representative from each contractor, appointed as a Safety Health and Environmental Officer, assisting the construction manager on Safety, Health and Environmental aspects of the project on the construction site.

Site Manager – the employee of the applicant responsible for the day to day control of all activities and operation on site, if applicable. In this instance the site manager is the erf owner.

4. ENVIRONMENTAL CONTROL ON SITE

4.1. Approach

The Table below illustrates the various approaches to be undertaken to manage potential scenarios as a result of the operation of the activity on site:

Table 1: Impact management

| | |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Avoidance | Avoiding activities that could result in adverse impacts and/or resources or areas considered sensitive. |
| Prevention | Preventing the occurrence of negative environmental impacts and/or preventing such an occurrence having negative impacts. |
| Preservation | Preventing any future actions that might adversely affect an environmental resource. |
| Minimisation | Limiting or reducing the degree, extent, magnitude or duration of adverse impacts through scaling down, relocating, redesigning and/or realigning elements of the project. |
| Mitigation | Measures taken to minimise adverse impacts on the environment. |
| Enhancement | Magnifying and/or improving the positive effects or benefits of a project. |
| Rehabilitation | Repairing affected resources, such as natural habitats or water resources. |
| Restoration | Restoring affected resources to an earlier (possibly more stable and productive) state, typically, 'background' or 'pristine' condition. These resources may include soils and biodiversity |
| Compensation | Compensating for lost resources, and where possible, the creation, enhancement or protection of the same type of resource at another suitable and acceptable location. |

4.2. Organisational Structure and Responsibilities

The farm and subsequent operations are managed by the landowner.

Environmental Control Officer

The agricultural activities are already established and active. However, an Environmental Control Officer (ECO) may be required by the Competent Authority to conduct environmental audits, at a stipulated frequency, to determine the compliance with the conditions of the retrospective Environmental Authorisation and this document. This person can be in house.

5. ENVIRONMENTAL AWARENESS PLAN

It is important to ensure that any contractors and employees, new owners, managers or operators associated with the operation of the proposed activity receive the appropriate level of training and awareness to ensure

that continual environmental due diligence and conservation is applied at all levels of operation. Employees, contractors and sub-contractors as well as the operator, must be made aware of their responsibilities in terms of relevant legislation, guidelines, as well as this EMPr and EA.

5.1. Aim of the Environmental Awareness Plan

- Promote environmental education and conservation on site
- Inform employees and any new contractors on the applicable environmental procedures and plans
- Communicate mitigation and management measures which are to be implemented

5.2. Environmental Awareness Training and content

- All personnel should undergo induction, which as a minimum should include Safety, Health and Environmental awareness
- All attendees should sign an acknowledgement register upon receiving and understanding the induction
- Staff should be trained on the implementation of emergency procedures where applicable
- Definitions as used in this EMPr should be provided
- How and why environmental protection is necessary, should be explained
- Management measures required to prevent environmental impacts should be outlined
- Awareness should be made of emergency and spills response procedures

In this particular scenario, a general brief regarding general environmental principles such as reduce, reuse and recycle, as well as protection of flora and fauna, is beneficial. Identification of the required mitigation and management measures should also be communicated. Employees must be aware of areas to be farmed and areas which must not be disturbed. Attention should be applied to possible fringe effects and impacts and caution must be applied to the edges of farmed areas, to prevent slow sprawl into new areas.

Environmental awareness should be implemented immediately and repeated at regular intervals and as required.

6. LEGISLATIVE REQUIREMENTS

A Section 24G process was applicable in terms of the National Environmental Management Act (Act No. 107 of 1998) (NEMA) and the Environmental Impact Assessment (EIA) regulations (2014) (as amended). Appendix 4 of the NEMA EIA Regulations (GN. R982) sets out the minimum requirements for the drafting of an Environmental Management Programme (EMPr). This EMPr has been created in fulfilment of these prescribed requirements for the construction phase of the activity. The implementation of this EMPr will be a condition of approval of the Environmental Authorisation (EA). Failure by the applicant, to comply with this EMPr, will therefore constitute an offence, and the applicant and / or the appointed contractors can be held liable for penalties and / or legal action. It is therefore important that a copy of this EMPr be issued to each contractor, preferably at the appointment stage, in order to allow for the costs of implementing the EMPr, to be included in cost proposals. This will also ensure that the contractor is aware of his responsibilities prior to appointment and commencement. Each appointed contractor involved in the project, as well as the project manager (as applicable), will be required to sign for and thereby acknowledge contents of, the approved EMPr and therefore abide by the specifications of the document and any amendments thereto.

Other applicable legislation

The Constitution of The Republic of South Africa (Act 108 of 1996)

The Constitution of the Republic of South Africa states that everyone has a right to a non-threatening environment and that reasonable measures are applied to protect the environment. This includes preventing pollution and promoting conservation and environmentally sustainable development, while promoting justifiable social and economic development.

National Environmental Management Act (Act 107 of 1998)

The National Environmental Management Act (NEMA), as amended, makes provision for the identification and assessment of activities that are potentially detrimental to the environment and which require authorisation from the relevant competent authorities. NEMA is a National Act, which is enforced by the Department of Environmental Affairs (DEA). These powers are delegated in the Western Cape to the Department of Environmental Affairs and Development Planning (DEA&DP).

National Environmental Management: Biodiversity Act (Act 10 of 2004)

Chapter 4 of the National Environmental Management: Biodiversity Act, 2004 (NEMBA) deals with threatened and protected ecosystems and species. The need to protect listed ecosystems is addressed (Section 54). Section 73 deals with Duty of Care relating to invasive species, while Section 76(2) calls for development of invasive species monitoring, control and eradication plans by all organs of state in all spheres of government, as part of environmental management plans required in terms of Section 11 of NEMA.

National Environmental Management: Waste Act (Act No. 59 of 2008)

The National Environmental Management: Waste Act (NEM:WA) provides for specific waste management measures (disposal and storage) and the remediation of contaminated land.

National Environmental Management: Air Quality Act (Act No. 39 of 2004)

Section 32 provides provision for the control of dust, section 34 provides provision for the control of noise and section 35 provides provision for the control of offensive odours, all which may be experienced during the construction or operation of an applicable development.

Environment Conservation Act (Act No. 73 of 1989)

The Environment Conservation Act (ECA), provides provision for the prevention of littering by employees and subcontractors during construction and the maintenance phases of development.

Occupational Health and Safety Act (Act No. 85 of 1993)

Section 8 outlines the general duties of employers to their employees and section 9 outlines the general duties of employers and self-employed persons, to persons other than their employees.

Hazardous Substances Act (Act No. 5 of 1973)

This Act provides for the definition, classification, use, operation, modification, disposal or dumping of hazardous substances.

7. OPERATIONAL PHASE IMPACTS AND MITIGATIONS

7.1. Activity specific impacts and mitigations

The following activity specific impacts have been identified for the operational phase of the proposed development:

Table 2. Activity specific impacts and mitigations

| IMPACT | DESCRIPTION | MITIGATION | MONITORING | RESPONSIBILITY |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Vegetation | Removal and / or disturbance of CR endangered and En vegetation | <p>Ensure that natural vegetation within the nut grove is maintained and allowed to occur naturally as currently the scenario</p> <p>Ensure that the green approach to farming this area is maintained over time</p> <p>Ensure that the nut grove does not sprawl / increase in size over time, without the necessary approvals.</p> <p>TIMEFRAME: Actions to be implemented upon EA, immediate</p> | <p>- Responsible site manager / foreman is to check areas on a regular basis for adhoc clearing of indigenous areas or sprawl into indigenous areas</p> | Responsible manager / appointed person |
| Watercourse / wetland | Avoid drainage lines / valleys / possible water courses on the remaining areas of the property. These areas must not be targeted for any further agricultural activities | <p>- Ensure that working area are clearly defined and do not extend into drainage lines</p> <p>TIMEFRAME: Actions to be implemented upon EA</p> | - Monitor farming areas | ECO / Operator / Management |
| Job creation | <p>Job creation and skills transfer during operation</p> <p>Risk – labour not sourced locally, therefore local benefit and skills transfer is limited</p> | <p>-Ensure labour and contractors are sourced locally as far as possible</p> <p>-Encourage educational opportunities to employees</p> <p>TIMEFRAME: Actions to be implemented immediately</p> | <p>-Ensure employees are sourced locally as far as possible by checking staff appointments</p> <p>-Encourage the use of local service providers as far as possible</p> | Owner / applicant |

7.2. General operational impacts and requirements

7.2.1. Health and Safety

Responsibility – Owner / operator

Correct Personal Protective Equipment (PPE) must be worn at all times by the personnel on site. Personnel must be trained on the use of PPE. Each contractor should employ their own Safety Officer to monitor the safety conditions during the operations. Suitable warning and information signage should be erected. The handling of hazardous materials should only be done by trained personnel. Safety Data Sheets (SDSs) must be readily available for all hazardous substances on site and employees should be aware of the risks associated with any hazardous materials used. All provisions of the Occupational Health and Safety Act (Act No. 85 of 1993) must be complied with. In the event of an emergency relating to a hazardous substance, procedure details in the SDSs should be immediately implemented.

7.2.2. Fire risk management

Responsibility - Owner / operator

A Fire Officer should be identified, who shall be responsible for ensuring immediate and appropriate actions in the event of a fire and shall ensure that employees are aware of the procedure to be followed. The Fire Officer shall ensure that there is basic fire-fighting equipment available on site at all times. Any fires should be reported to the fire officer immediately. Smoking is not permitted on site.

7.2.3. Fuels and hazardous materials

Responsibility - Owner / operator

Fuels and flammable materials are to be suitably stored, inside the contractor's camp or as appropriate. Impervious materials are to be used in these storage areas to prevent contamination of the ground in the event of spillages or leaks. Quantities of fuels and hazardous materials stored on site should be appropriate to the requirement for these substances on site.

Bulk fuel depots, if required, should be placed within bunded areas to prevent soil contamination in the event of leaks or spills. Bunded areas are to have a holding capacity equal to 110% of the largest fuel container. The relevant Health and Safety requirements for the hazardous materials and fuels should be kept on site in the event of an emergency.

7.2.4. Emergencies protocol

Responsibility - Owner / operator

Fire: The fire officer should be notified of any fires. Employees should be aware of the procedure to be followed in the event of a fire.

Hydrocarbon (fuel & oil) leaks and spillages: Employees should be aware of the procedure to be followed for dealing with spills and leaks, which shall include notifying the project manager / contractor. All vehicles leaking fuel or other liquids should immediately be removed to the maintenance area and repaired. In the event of a hydrocarbon spillage, the soil must be excavated and treated and adequately disposed. The necessary materials and equipment for dealing with spills and leaks are present on site at all times. The clean-up of sewerage spills and any damage caused by the spill or leak shall be for the applicant's account. The applicant shall ensure that the Health and Safety officer is available for the duration of the construction period.

Raw Sewerage spills (from emptying of sewage tank / package plant if required): Employees are to be aware of the procedure to be followed for dealing with spills and leaks. All the necessary materials and equipment for

dealing with spills and leaks are present on site at all times. The clean-up of sewerage spills and any damage caused by the spill or leak shall be for the Applicant's account or contractor collecting the raw sewage.

7.2.5. Equipment maintenance

Responsibility - Owner / operator

All mechanical equipment and work vehicles which are present on site, are to be stored, serviced and refuelled only at designated areas. Within these areas drip trays and other impervious materials, for example plastic or metal sheeting, must be used to prevent contamination of the ground in any way.

7.2.6. Erosion Control

Responsibility - Owner / operator

Action should be taken to prevent erosion of soils on site. Should any erosion be detected on site, the cause of such erosion should be identified, and appropriate remedial action must be immediately implemented.

7.2.7. Architecture / Design

Responsibility - Owner / operator

Dwellings and infrastructure to comply with bylaws. Owners should aim to ensure buildings are in line with architectural norms for the area and do not have a negative contribution to the area as a whole. No expansions should be permitted without the required approvals.

7.2.8. Water Use

Responsibility – Owner / operator

The following water saving principles are recommended for the site and can be implemented over time or as and when current infrastructure requires replacing:

- Rainwater storage tanks can be installed to collect runoff rainwater. Rainwater tanks should be installed in such a way as to prevent visual or landscape intrusion
- Shower and wash basin taps should be fitted with flow reduction devices, aerators and motion sensors to maximise water conservation and reduce wastage
- All internal and external taps on site should be regularly inspected and maintained to prevent water wastage through drips and leaks
- All new toilets should be fitted with a dual flush system, reduced flow should be implemented on existing infrastructure if dual flush is not possible
- Grey water from showers, baths, basins and washing machines, should be collected or redirected for reuse (gardening, outside washing etc.)
- Endemic and indigenous plants should be used for gardens and landscaping to minimize water demand i.e. water wise landscaping
- Should irrigation be required, these should be on timed systems and active at low evaporation hours (early morning, late evening)
- Drains should be fitted with grease traps which remove oils and solids from waste water, to improve the quality of the effluent waste water for reuse
- Dry brushing and / or sweeping should be used in preference to water cleaning, where possible (cleaning pathways, machinery etc.)
- Alien invasive vegetation should be removed from the property to promote healthy and functioning rivers, ground water and wetlands, where applicable
- Efficient water use habits should be encouraged across the property

- Sewerage systems should be regularly monitored and maintained to prevent leaks and pollution of groundwater

7.2.9. Electricity

The following electrical saving principles are recommended:

- Regular light bulbs to be replaced with energy saving bulbs in all structures
- The use of solar power should be maximised as far as possible
- Energy saving geysers should be installed
- Solar water heaters should be installed
- Proper insulation should be used on all new structures and renovations, in order to reduce the need for heating and cooling of dwellings
- Programmed lighting should be implemented to prevent lights being left on unnecessarily

7.2.10. Sewerage

All three effluent discharge pipelines should be removed. Effluent from the package plants should be tested on a regular basis to ensure that it meets the Department of Water and Sanitation (DWS) standards.

7.2.11. General waste and refuse

General waste is transferred to the municipal waste site as required. Waste minimisation strategies should be implemented through avoidance, reduction, reuse, recycling, recovery, treatment or responsible disposal. On site bins should be animal and weather proof. Refuse areas should be secure and screened to avoid visual impacts. Refuse areas should provide for waste sorting (tins, glass, paper etc.). No waste should be stored or disposed of on site.

7.2.12. Site maintenance and repairs

Renovations and maintenance should be conducted in line with a maintenance schedule to ensure that renovations are done effectively with reduced wastage. When using paints, cleaners and other solvents for maintenance, preference should be made for environmentally friendly products, water-based paints and avoidance of harsh chemicals. No building materials or products used during renovations should be disposed of on site.

7.2.13. Alien vegetation management

Alien vegetation management and clearing must take place as currently and as per the site specific alien vegetation management plan. Follow up clearing must take place on a regular basis.

7.2.14. Internal roads and footpaths

No new roads are permitted without the necessary approvals.

7.2.15. Fauna

All wild fauna on site must be protected. No feeding of wild animals should be allowed, and edible refuse should be appropriately disposed of. No poisons or traps should be used as far as possible. Professional help, such as Cape Nature, should be sort for 'problem' animals.

8. NON-COMPLIANCE

The Environmental Authorisation (EA) stipulates that, *“Non-compliance with a condition of this Environmental Authorisation and the EMPr may render the holder liable to criminal prosecution.”* It is therefore important that the conditions are adhered to as outlined in the EA and EMPr. A Penalties scheme can be used during construction for transgressions. A retrospective Environmental Authorisation will be applicable to this case.

Transgressions relate to actions by the contractor whereby damage or harm is inflicted upon the environment or any feature thereof and where any of the conditions or specifications of the EMPr and EA have been infringed upon. In the instance of environmental damage, the damage is to be repaired and rehabilitated using appropriate measures, as far as possible and as directed by appropriate specialists, if required. These remedial actions are for the account of the contractor or other guilty party as identified by the Project Manager, applicant or ECO. Where non-repairable damage is inflicted upon the environment or non-compliance with any of the EMPr / EA obligations is registered, the Contractor may face a monetary penalty to an amount specified by the Project manager / ECO. The Project manager / ECO reserves the right to implement a first offence warning.

If excessive infringement with regard to any of the specifications is registered, the applicant / project manager, reserves the right to terminate the contractor’s contract.

9. MONITORING

The monitoring of works on site is necessary to demonstrate compliance with the specifications of the EMPr and EA and to allow for problems or issues of non-compliance to be identified and remedial actions implemented.

Monitoring should include visual checks by the operator / management on a daily basis or at a frequency considered appropriate. The implementation of regular monitoring will ensure that environmental impacts can be detected early and remedial action implemented.

10. ENVIRONMENTAL AUDITS

The purpose of auditing is to determine and monitor compliance with the EMPr and EA and measure its effectiveness in mitigating environmental impacts. In terms of Regulation 34 of the NEMA EIA Regulations, 2014, the holder of the EA must conduct environmental audits in order to determine compliance with the conditions of the EA and EMPr. Environmental Audit Reports should be submitted to the Competent Authority as stipulated in the EA. The audit reports should be prepared by an independent person. The audit report should also provide recommendations regarding the need to amend the EMPr.

The objective of the environmental audit report is to:

- Report on the level of compliance with the conditions of the EA and the EMPr
- Report on the extent to which the avoidance, management and mitigation measures outlined in the EMP, achieve the objectives and outcomes of the EMPr
- Identify and assess any new impacts and risks as a result of the activity
- Evaluate the effectiveness of the EMPr
- Identify shortcomings in the EMPr
- Identify the need for any changes to the avoidance, management and mitigation measures provided for in the EMPr

An environmental audit report should contain the following:

- Details and expertise of the independent person who prepared the environmental audit report

- A declaration that the auditor is independent
- An indication of the scope of, and the purpose for which, the environmental audit report was prepared
- A description of the methodology adopted in preparing the environmental audit report
- An indication of the ability of the EMPr to sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity as well as to ensure compliance with the provisions of environmental authorisation and EMPr.
- A description of any assumptions made, and any uncertainties or gaps in knowledge
- A description of any consultation process that was undertaken during the course of carrying out the environmental audit report, if required
- A summary and copies of any comments that were received during any consultation process
- Any other information requested by the competent authority.

Environmental audits are not likely to be undertaken for the current operational activities due to the nature of the activity.

11. CONCLUSION

An EMPr has been developed as part of the 24G process to ensure that mitigation and management measures are enforced during the operational phase of the activity, and that the conditions of the EA are upheld. The EMPr should guide all phases of the project to minimize possible negative impacts and assign responsibility for environmental controls. The EMPr provides a tool to recognise the needs of the environment and is intended to be utilised in conjunction with the Environmental Authorisation.

12. DECLARATION OF ACCEPTANCE

I, _____ (name), representing
_____ (company name), have read and
understood the above Environmental Management Programme and hereby acknowledge its contents and
requirements as a framework for my company's environmental performance during the applicable
development.

Signed: _____ Date: _____

APPENDIX A : EAP CV

CURRICULUM VITAE
for
MICHELLE NAYLOR

PERSONAL

Postal address:

Vermont
Hermanus
7201

Residential address:

1 Levine Close, Sundew Villas
Sandbaai
Hermanus
7201

Contact details:

cell: 083 245 6556
Email: michelle@lornay.co.za

Date of birth:

19 July 1985

Nationality:

South African

Languages:

English, Afrikaans

State of health:

Excellent

CAREER RECORD

December 2007

- Arcus Gibb, East London, Student intern
- Completion of Compliance Audit for client including site visit, writing of report and compilation

May 2010 to February 2016

PHS Consulting, Hermanus, Environmental Consultant

- Sole Management and completion of Basic Assessments from Application to Environmental Authorization, including quoting, financial management throughout the project, client liaison, liaison with competent authorities, site visits, report writing, appointment of specialists, mapping and all aspects of public participation

- Sole Management and completion of Environmental Impact Assessments from Application to Environmental Authorisation including project management (Specialist team appointments, report reviews etc.), site visits, report writing, all aspects of public participation and mapping
- Management, preparation and co-ordination of public participation for all Basic Assessments and Environmental Impact Assessments including consultation with authorities, organs of state and general public as well as the compilation of a summary document once complete. Organising and attendance of public meetings when required
- Liaising with client and preparation of quotes, sourcing of new work
- Site visits
- Liaising with and management of specialist team including drafting Terms of Reference and appointment upon client satisfaction
- Environmental Control Office (ECO) including site induction, site inspections and site meetings
- Drafting of Environmental Management Plans (EMP) for Construction and Operation
- Alien Management Plans for the alien clearing required as part of Environmental Authorisation
- Estuarine Management Plans for Construction and Operation of a resort along the Uilkraals Estuary
- Requesting and managing Stewardship Applications if applicable to development proposal
- Completion of Environmental Authorisation conditions
- Completion of Notice's of Intent to Develop (NID) to Heritage Western Cape
- Printing, binding and preparation to submit documents

Reason for leaving – pursue own business venture

February 2016 to current

Lornay Environmental Consulting, Hermanus, Director, owner and EAP

- General business and financial management
- Marketing
- Sole Management and completion of Basic Assessments from Application to Environmental Authorization, including quoting, financial management throughout the project, client liaison, site visits, report writing, appointment of specialists, mapping and all aspects of public participation
- Sole Management and completion of Environmental Impact Assessments from Application to Environmental Authorisation including project management (Specialist team appointments, report reviews etc.), site visits, report writing, all aspects of public participation and mapping

- Management, preparation and co-ordination of public participation for all Basic Assessments and Environmental Impact Assessments including consultation with authorities, organs of state and general public as well as the compilation of a summary document once complete. Organising and attendance of public meetings when required
- Liaising with client and preparation of quotes, sourcing of new work
- Site visits
- Liaising with and management of specialist team including drafting Terms of Reference and appointment upon client satisfaction
- Environmental Control Office (ECO) including site induction, site inspections and site meetings
- Environmental audits
- Drafting of Environmental Management Plans (EMP) for Construction and Operation
- Conservation Management Plans including Alien and Fire Management Plans
- Requesting and managing Stewardship Applications if applicable to development proposal
- Completion of Environmental Authorisation conditions
- Completion of Notice's of Intent to Develop (NID) to Heritage Western Cape
- Clarification of the applicability of NEMA

EDUCATION

| | |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Jan 2010 | Completed Master of Science Degree (Ichthyology and Fisheries Science) at Rhodes University, Grahamstown. Thesis topic: <i>"Spatio-Temporal Dynamics of Ichthyoplankton in the Kowie Estuary, South Africa"</i> |
| Mar 2008 | Obtained Bachelor of Science (Honours) (Environmental Science) at Rhodes University, Grahamstown. Dissertation topic: <i>"Assessment of the water quality of the East Kleinemonde Estuary: Implications for complex systems monitoring"</i> |
| Apr 2007 | Obtained Bachelor of Science (Environmental Science and Zoology) at Rhodes University, Grahamstown |
| Apr 2007 | Placed on Dean's List for 2006 in recognition of academic achievement in the Faculty of Science, Rhodes University |
| Dec 2003 | Matriculated at Hudson Park High School, East London with Merit |

SHORT COURSES / SEMINARS

| | |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sept 2019 | NEMA EIA training / Screening Tool (DEA) |
| Feb 2018 | Water Use Licence Applications Refresher course |
| June 2017 | NEMA EIA 2014 Training (DEA&DP) |
| May 2017 | Water Use Licence Applications – Section 21c&i (Department of Water and Sanitation and Dr Wietsche Roets) |
| Feb 2015 | IWRM, the NWA, Water Use Authorisations and Water Use Licence Applications – Procedures, Guidelines and Pitfalls (Carin Bosman) |
| July 2010 | NEMA EIA Regulations Workshop (DEA&DP) |
| Mar 2010 | Estuary Management short course in Stellenbosch (CSIR and NMMU) |
| Oct 2009 | Annual Department of Ichthyology and Fisheries Science Postgraduate Seminars (Presentation of thesis findings) |
| Oct 2008 | Annual Department of Ichthyology and Fisheries Science Postgraduate Seminars (Presentation of thesis findings) |
| Dec 2007 | Rhodes University Department of Environmental Science and Coastal & Environmental Services (CES) short course, certificate of competence “ <i>Introduction to Environmental Impact Assessment Procedures</i> ” including EIA process and techniques; Environmental Management; Environmental Law; Social Impact Assessment; Public Participation; Resettlement; Environmental Management Plans and Strategic Environmental Assessment |

REGISTRATIONS

| | |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nov 2014 | The Interim Certification Board for Environmental Assessment Practitioners of South Africa (EAPSA) certified Environmental Impact Assessment Practitioner (EAP) |
| Sept 2013 | Registration with South African Council for Natural Scientific Professions (SACNASP): Professional Natural Scientist (Reg. No. 400327/13) |

June 2011 Candidate Member of the Association of Professional Heritage Practitioners (APHP)

June 2010 Professional Member of the International Association for Impact Assessment (IAIA)

CORE COMPETENCIES & SKILLS

- Preparation and completion of Basic Assessment Reports, Scoping Reports and Environmental Impact Assessment Reports from initiation to Authorisation
- Management, preparation, coordination and completion of entire public participation process including, where required, public presentations, discussions with interested and affected parties, organs of state and authorities
- Completion and implementation of Construction and Operational Environmental Management Plans (EMP)
- Drafting of Alien and Fire Management Plans
- Drafting of Conservation Management Plans for undeveloped areas on a site
- Mapping required for environmental assessments and public participation
- Estuarine specialist work including Management Plans
- Management of timeframes on projects
- Financial project management
- Site visits, including Environmental Control Officer and Environmental Auditing
- Preparation of Terms of Reference (ToR) for specialists, specialist appointment, report review
- Quoting and job sourcing
- Uploading of documents onto company website
- Heritage applications (NID)
- Interpretation of the applicability of the National Water Act and including Water Use Licence Applications (WULA) and General Authorisations
- Regular liaison with client, specialists, organs of state, municipalities etc. as required for a specific project

- Regular use and consultation with applicable Policies, Guidelines and Legislation
- Competent use of equipment and data collection in the field including WP2 plankton nets with flow meters, CTD's and YSI's, in field sample collections and preservation and preparation for phytoplankton and chlorophyll- α analysis
- Practical laboratory experience including dissections, microscopy, taxonomy (larval fish and phytoplankton)
- Management of field sampling team
- Excellent report writing skills
- Systems experience including Microsoft Office Word, PowerPoint, Excel, Outlook, Statistica 8 (Moderate), AutoCAD Drawing 2002 (Moderate), TatumGIS, Mapsource, SANBI BGIS, Google Earth Pro, PRIMER 5 (Moderate)
- Drivers license code B

POSITION CURRENTLY HELD

I am the director and owner of Lornay Environmental Consulting. I am the sole EAP currently and I am involved in impact assessments, water licence applications, management plans, heritage applications etc. I am responsible for day to day running of the business and office.

GENERAL

Jan 2010 Two research papers published in peer reviewed journals:

Kruger, M & Strydom N.A. 2011. Spatial and temporal variability in the larval fish assemblage of a warm temperate South African estuary, with notes on the effects of artificial channelling. *African Zoology* **45**(2): 195–212

Kruger, M & Strydom, N.A. 2011. Plankton dynamics associated with the convergence zone of a shear front on the permanently open Kowie Estuary, South Africa. *African Zoology* **46**(1): 47–59

- Sep 2008 Published short communication (popular articles) in two local newspapers regarding my work on local estuaries, including Talk of the Town (Port Alfred) and Eastern Cape Today
- 2008 Rhodes University Underwater Club committee member (Underwater hockey ladies representative) included organizing and coaching teams, and organizing sports tours, development and club events
- 2008/2009 Tutor / demonstrator for second year Ichthyology students at Rhodes University, included sourcing practical materials, demonstrating the practicals and grading students work
- 2008/2009 Led numerous sampling trips for collection of data for MSc. Included organizing sampling trips, management of sampling team, skippering of boat, collection and preservation of samples in the field and budget management
- May 2009 Obtained South African Maritime Safety Authority (SAMSA) certificate of competence skippers license (category R vessel)

M NAYLOR
SEPTEMBER 2023

APPENDIX B : SITE PLAN

