

ENVIRONMENTAL MANAGEMENT PLAN (EMP) FOR THE OPERATION AND MANAGEMENT OF DARE DEVIL ADVENTURES

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Compiled by
SM Dynamic Environmental Consultants.



***Dare Devil
Adventures***





“Gear up, ride with nature, and feel the thrill”.

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PURPOSE OF THIS DOCUMENT

This document is the Environmental Management Plan (EMP) for the Operational and Management of Daredevil Adventures in the Dorob National Park, Erongo Region. Daredevil Adventures is a business establishment that offers thrilling adventure sports such as guided quadbike rides on the beautiful dune of the Namib Deserts.

Where to find this EMP:

Electronic copies are available on request at the following address:

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MEFT's EIA Portal

LIST OF ACRONYMS

| | |
|------|--|
| DEA | Department of Environment Affairs |
| EA | Environmental Assessment |
| EAP | Environmental Assessment Practitioner |
| EC | Environmental Commissioner |
| ECC | Environmental Clearance Certificate |
| EIA | Environmental Impact Assessment |
| EMA | Environmental Management Act |
| EMP | Environmental Management Plan |
| ERC | Erongo Regional Council |
| GIS | Geographic Information System |
| MEFT | Ministry of Environment, Forestry Tourism |
| NTB | Namibia Tourism Board |
| MFMR | Ministry of fisheries and Marine Resources |
| RA | Roads Authority |

1. INTRODUCTION & SCOPE

This Environmental Management Plan (EMP) provides an overarching framework for the management and regulation of the Dorob National Park Concession (Daredevil Adventures) in line with the Tourism Development Plan for the Park to conduct and operate the following:

1. Conduct guided quad bike rides in the dunes on predetermined routes
2. Provide public toilet facilities for clients

The primary aim of this EMP is the sustainable utilization of a natural asset with an emphasis on biodiversity management and diverse recreational opportunities in the Dorob National Park.

The EMP specifically aims for the following:

1. Comply with the requirement of the National Conservation Act, 2017 (Act 3 of 2017)
2. Review the current land use practice by identifying and mitigating impacts of clients on biodiversity and heritage resources within the Park
3. Develop guidelines and an associated code of conduct for clients
4. Develop a coordinated approach to implement, monitor and enforce this EMP.
5. Identify the roles and responsibilities of operators and other stakeholders in the implementation and enforcement of the EMP
6. Sustain and strengthen a constructive partnership between operators and Park Management
7. Manage future growth and diversity of quadbike adventures in the Park.

This Environmental Management Plan serves as a managing tool for the operation and management of the already existing Daredevil Adventure Centre. The main objective of this EMP is to assist in outlining measures to be implemented to minimize adverse environmental degradation associated with the current land use activity.

The Dare Devil Adventures has been operating in an area that was formerly the National West Coast Recreation Area on the State Land of Walvis Bay now part of Dorob National Park. The Dare Devil Adventures is a thrilling adventure sports outlet, nestled in the heart of Walvis Bay's scenic Long Beach, which offers unforgettable experiences tailored to the bold and adventurous. Dorob National Park is one of the recently proclaimed protected areas in Namibia. Its proclamation as a national park in 2010 enabled the government to virtually place its entire coastline under legal protection. As the area is now a National Park, the business needs to be regulated in line with the Nature Conservation Amendment Act, 2017 (Act 3 of 2017) and Environmental Management Act, 2007 (Act 7 of 2007). The business has been provisionally awarded an eighteen-year (18-year) Tourism Concession with the following tourism rights pending approval of this EMP:

1. The right to conduct guided quad bike rides in the dunes on predetermined routes.
2. The right to provide public toilet facilities against payment.

Operating a guided quadbike business in a National Park forms part of the listed activities under Government Notice No. 30 of the Environmental Impact Assessment regulations of the Environmental Management Act No.7 of 2007 (EMA). Listed activities refer to a list of activities that may not be undertaken without an Environmental Clearance Certification.

The key objective of the Environmental Management Act (EMA) is to prevent and mitigate impacts, based on the principles outlined in Section:

- ensuring that the significant effects of activities on the environment are considered in time and carefully.
- Ensuring that there are opportunities for timeous participation of interested and affected parties throughout the assessment process; and,
- Ensuring that the findings of an assessment are considered before any decision is made in respect of activities.

The Environmental Management Plan (EMP) is the tool that can assure that the project proponent has made suitable provisions for mitigation. This Environmental Management Plan (EMP) describes the methods and procedures for mitigation and monitoring impacts. This section will contain environmental objectives and targets the project proponent needs to achieve to reduce or eliminate negative impacts. The EMP document can be used throughout the project life. It should be regularly updated to remain aligned with the project as it progresses throughout its operational phase, expansion and decommissioning.

2. OBJECTIVES

- To mitigate adverse impacts on various environmental aspects that have been identified during the assessment phase.
- Enhance the value of the environmental aspects where possible.
- To protect environmental resources where possible.

3. LEGAL REQUIREMENTS

Table 1: Legal Framework

| LEGISLATION | PROVISION AND REQUIREMENTS |
|--|--|
| Article 95 of the Namibian Constitution | Provide overarching guidance in terms of the maintenance and sustainable use of natural resources for the benefit of all Namibians, both present and future. |
| Environmental Management Act No.7 of 2007 | Ensures that the significant effects of activities on the environment are considered carefully and timeously. It promotes the sustainable management of the environment and the use of natural resources by establishing principles for decision making on matters relating to the built environment. |
| Nature Conservation Amendment Act, 2017 (Act 3 of 2017 | To provide for a proper administrative, legal and procedural framework for tourism concessions in protected areas and other State land. |
| National Heritage Act No. 27 of 2004 | Provide for the protection and conservation of places and objects of heritage significance and registration of such places and objects. |
| Public Health and Environmental Act, 2015 | <p>The objective of this Act is to:</p> <ul style="list-style-type: none"> Prevent injuries, diseases, and disabilities Promote individuals and community from public health risks Provide for early detection of diseases and public health risks Promote public health and wellbeing |

4. BACKGROUND ON DAREDEVIL ADVENTURES

Daredevil Adventures has been operating in an area formerly a National West Coast Recreational Area on the State Land of Walvis Bay now the park of Dorob National Park. The Daredevil Adventures is a thrilling adventure sports outlet, nestled in the heart of Walvis Bay's scenic Long Beach, which offers unforgettable experiences tailored to the bold and adventurous. The corporation operates with a fleet of 60 quadbikes and 5 dune buggies. A kiosk is also available where customers can buy certain memorabilia and beverages. All structures such as reception, toilets, offices and storage rooms are constructed using temporal material. The Ministry of Environment Forestry and Tourism has recently awarded an 18-year tourism concession to Daredevil to operate a quadbike business inside Dorob National Park. This award is conditional on submitting a proposal that must contain an Environmental Impact Mitigation Measure and Activity Plan.



Figure 1: Quad Bikes Rental and guided route

The Adventure Centre covers an area measuring approximately 3.5 hectares on State land, under the jurisdiction of Walvis Bay local authority, and established and operating since 2008. Therefore, this EMP only focuses on the Adventure Park's operational activities. The following activities form part of the existing establishment:

1. Kiosk
2. Toilets
3. Parking area

SM Dynamic Environmental Consultants have been appointed to facilitate the application for an Environmental Clearance Certificate (ECC) which is required to continue operating this business in the National Park,

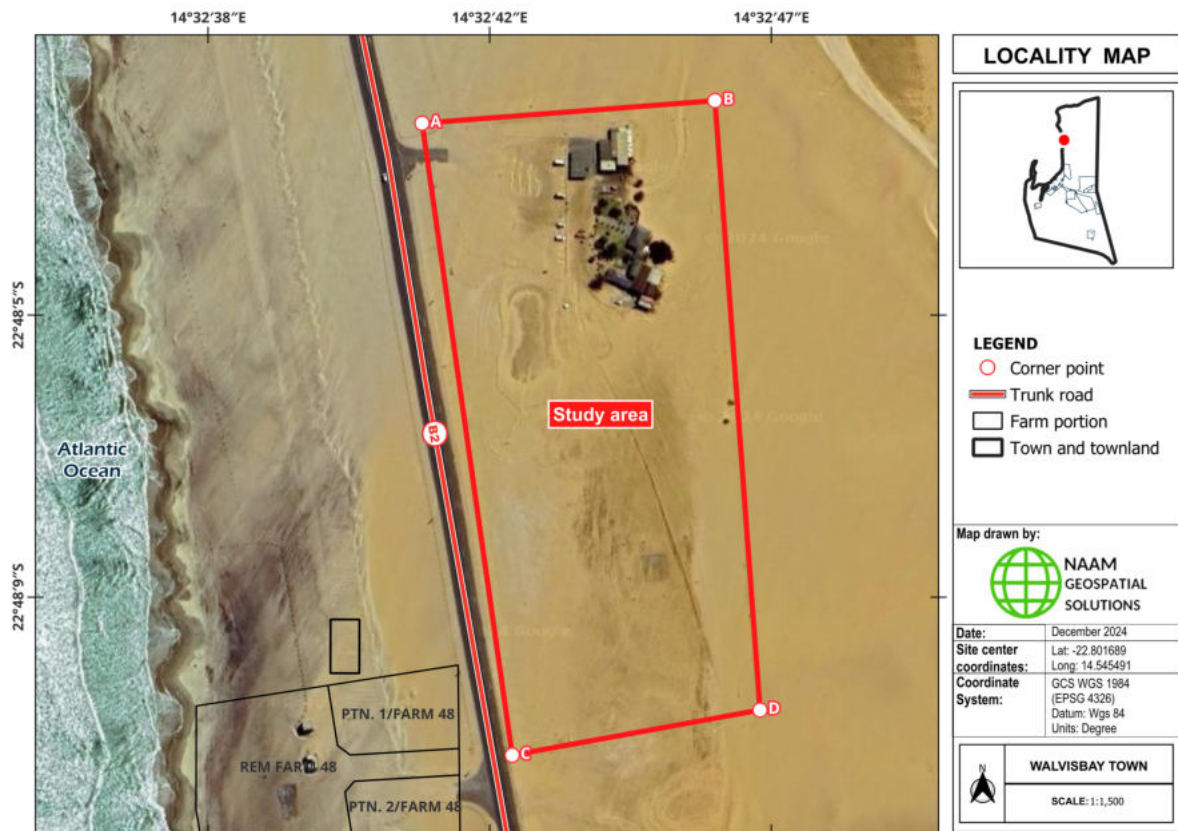


Figure 2: Locality Map

Table 2: Site Coordinates

| Site Coordinates | | |
|------------------|-----------|----------|
| # | Longitude | Latitude |
| A | 14.5447 | -22.8004 |
| B | 14.5460 | -22.8003 |
| C | 14.5462 | -22.8030 |
| D | 14.5451 | -22.8032 |

5. LIMITATION AND ASSUMPTIONS

This Environmental Management Plan (EMP) does not include measures for compliance with statutory health and safety requirements as health and safety is considered out of the scope of this EMP. Should any conflict arise between sections of this EMP, or other legal requirements, the contract and legal framework must be adopted.

6. ENVIRONMENTAL MANAGEMENT PLAN

An Environmental Management Plan is a guidance document to measure and achieve compliance with a planned project's environmental protection and mitigation requirements, as per Environmental Management Act No. 7 of 2007. This EMP document was prepared for the Environmental Clearance Permit application stage for the Tourism Concession in Dorob National Park. The client has agreed to follow management strategies to avoid and mitigate environmental impacts during project work. SM Dynamic has completed several of these management plans taking into consideration specific client's requirements and environmental best management practices for a diverse range of projects, such as township development and property development.

7. RESPONSIBILITIES FOR ENVIRONMENTAL MANAGEMENT

All personnel, including contractors, will be made aware of how the adventure centre is to be operated and managed to ensure compliance with this EMP. Below is a summary of the authority and environmental responsibilities of key personnel for Daredevil Adventures.

Site Manager

- Carefully manage the handling of all hydrocarbons and other hazardous materials.
- Implement the waste management plan.
- Conduct regular inspections of compliance management of this EMP and other related permit requirements.
- Allocate project resources to handle environmental issues.
- Ensure compliance with park rules and regulations.
- Monitor and maintain all equipment and machinery.
- Ensure that staff is controlled through the implementation of security measures.
- Monitor excessive dust and noise levels and implement control measures.
- Maintain complaint register and report incidents to Park Authorities.

8. TRAINING AND AWARENESS

Ensure all site employees (and contractors, where required) receive suitable environmental training to ensure they are aware of their responsibilities and competent to carry out their work.

Environmental requirements are explained to employees as part of their inductions and refresher training. In addition, during site inductions and on an

ongoing basis, training will be provided in meetings and alike. All inductions and ongoing training shall be recorded.

9. ENVIRONMENTAL MONITORING

Regular environmental inspections will be undertaken by the Site Manager to ensure that the environmental controls are been implemented, meet the required specifications, and are maintained accordingly. Compliance reporting is required to produce systematic, comprehensive, and informative reports on the environmental performance because of the operational activities of the adventure centre.

Detailed sampling analytical methods should be well-defined in relevant procedures and work instructions. The implementation of the monitoring requirements is the responsibility of the Site Manager.

10. INCIDENT & EMERGENCY

The main objective of this EMP is to identify potential risks, and develop, and maintain mitigation measures to manage them. The approach to be adopted involves the following, risk analysis, prevention, preparedness, response, and recovery.

Incident notification will depend on the extent of the event and the incident classification and is to take place per the company's incident reporting procedure. Corrective action will be implemented to prevent the recurrence of incidents.

11. EMERGENCY CONTACTS

The following are the internal emergency contacts for the adventure centre which include regulatory authorities, local community, and emergency services.

Table 3: Emergency Contacts

| Position | Phone Number | Mobile number |
|--------------------------------------|--------------------|--------------------------|
| Site Manager | 064 220 158 | 081 128 3310 |
| Fire Department | 064 214 300 | 081922/0815581323 |
| Refuse Collector | 064 2143 00 | 081 129 7178 |
| Police (Yianni Savva Police Station) | 064 203 920 | |
| Sewerage | | 081 128 8324 |

12. COMPLAINTS HANDLING

Close liaison will be maintained between the Site Manager and visitors to provide effective feedback regarding operations at the adventure centre. In this manner, operations can be coordinated where necessary to minimize disturbance to park users and ensure prompt response to complaints, should they occur. The site manager shall record all complaints or reports received externally. These records will be kept for at least four years after the complaint is made.

13. COMMUNICATION AND CONSULTATION

Daredevil Adventures is committed to meaningful stakeholder engagement and continues to work in collaboration with other stakeholders and the local community to resolve issues that impact the local environment. Relevant stakeholders will be kept informed of the centre's future development proactively and responsively through meetings, local newspapers, leaflets, and community notice boards.

14. ACCESS CONTROL AND INFORMATION BOARDS

The sign displays signage to advise visitors of operational times, park rules and contact numbers will be placed at the main entrance. Additional signage include:

- Directional parking area.
- Restrictions and operational times.
- Signage for safety work health and safety requirements.

15. WASTE MANAGEMENT

The Municipality of Walvis Bay is responsible for refuse collection and storage facilities on the premises. Scheduled weekly refuse removals have been set and designated employees ensure the daily litter picking and cleaning of the premises.

Uncontrolled handling of fuel and other chemicals poses a threat to the environment and may result in soil, groundwater, and surface water contamination. Proper storage of these fuels and chemicals must be planned carefully to avoid spillages. The team should implement spill prevention measures immediately, and spill kits must always be available. Spill kits must contain the

following items: absorbent material, sawdust, shovels, heavy-duty plastic bags, and protective clothing (overalls and gloves).



Figure 3: Waste Storage Containers

16. ENVIRONMENTAL ACTIVITY ACTIVITY

The management measures proposed to mitigate potential impacts upon operating this business are as follows:

Action Plan 1: Management of hydrocarbon and related spills.

The objective is to handle and store hydrocarbons in such a manner as to prevent spills. In case of a spillage, the spill must be contained and the contamination cleaned up and disposed of accordingly.

Table 4: Hydrocarbon and related spills

| Activity | Management and mitigation strategy | Action Plan | |
|--|--|---------------------------|---------------------|
| | | Frequency/targeted date | Responsible parties |
| Machinery, quadbikes, dune buggies, generators and equipment | <p>Regular environmental awareness should include potential risks associated with hydrocarbons.</p> <p>Ensure drip trays around machinery, generators and equipment are available.</p> <p>All repairs/services for machineries on site, care must be taken to prevent spillages of oil/diesel by placing proper drip trays of work on impermeable surfaces.</p> <p>Used parts for machineries such as oil filters, pipes, rags cans, must be collected and removed from site and disposed off at a hazard landfill site in Walvis Bay.</p> | Throughout the operations | Center Manager |
| Storage of hydrocarbons | The hydrocarbons shall only be stored in original containers undamaged and sealed appropriately. | Throughout the operation | Center Manager |
| General (spills) | <p>Any spills will be contained and cleaned immediately.</p> <p>Spill kits must be readily available on site. Training must be given to employees on how to use spill kits for remediation of potential pollution incidents.</p> | Throughout the operation | Center Manager |

14 **Action plan 2: Management of waste.**

The objective is to ensure proper storage, removal, transportation and final disposal of all waste types.

Table 5: Waste management

| Activity | Management and mitigation strategy | Action Plan | |
|---|---|---------------------------|---------------------|
| | | Frequency/targeted date | Responsible parties |
| General | <p>Waste shall be stored in appropriate waste containers provided by the municipality of Walvis Bay.</p> <p>No burning of waste will be allowed on site or in the park.</p> <p>Employees must be trained on waste management issued such as the importance of waste minimization, recycling.</p> | Throughout the operations | Center Manager |
| Waste Collection, storage, and disposal | <p>Suitable storage containers are provided by the Municipality of Walvis Bay</p> <p>The Municipality will be responsible for weekly waste collection as per refuse collection calendar.</p> <p>All waste types will be disposed of at Walvis Bay Hazardous Landfill Site.</p> <p>No waste is allowed to be stored or disposed in the park.</p> | Throughout the operation | Center Manager |

Action Plan 3: Visual Impacts

The objective of this mitigation measure is to avoid visual impacts on travellers and the nearby community of Langstrand.

Table 6: Visual Impacts

| Activity | Management and mitigation strategy | Action Plan | |
|----------------------|---|---------------------------|---------------------|
| | | Frequency/targeted date | Responsible parties |
| Daredevil Adventures | Ensure that the operations and facilities are well maintained and kept in good order. | Throughout the operations | Center Manager |
| Buildings | Only wood and canvas infrastructure | Throughout the operations | Center Manager |

Action Plan 4: Air and Noise Pollution

The objective of the mitigation plan is to prevent negative air pollution impacts emitted from the park.

Table 7: Air and Noise Pollution

| Activity | Management and mitigation strategy | Action Plan | |
|-----------------------------------|--|---------------------------|---------------------|
| | | Frequency/targeted date | Responsible parties |
| Emission of Dust as a health risk | Ensure water is regularly sprinkled in areas of the park that emits dust. | Throughout the operations | Center Manager |
| Noise | Regular consultation with the neighbouring community should be done to inform them about the park activities that could temporarily cause noise pollution. | Throughout the operation | Center Manager |

Action Plan 5: Social Issues and Training

The objective of this mitigation strategy is to prevent negative social impacts associated with the workforce.

Table 8: Social Issues and training

| Activity | Management and mitigation strategy | Action Plan | |
|-------------------------|---|---------------------------|---------------------|
| | | Frequency/targeted date | Responsible parties |
| Employees/social issues | Have a zero-tolerance policy for employees with regards to alcohol in the workplace. A First Aid Kit should always be available on site. | Throughout the operations | Center Manager |
| Training & Awareness | All individual who works at the centre must undergo training on the contents of this EMP. | Throughout the operation | Center Manager |
| Socio-economic | All complaints received will be reviewed and addressed for improved performance and feedback will be provided accordingly. | Throughout the operation | Center Manager |

Action Plan 5: Socio-Economic Development

The objective of this mitigation strategy is to enhance positive economic impacts.

Table 9: Socio-Economic Development

| Activity | Management and mitigation strategy | Action Plan | |
|-------------|--|---------------------------|---------------------|
| | | Frequency/targeted date | Responsible parties |
| Recruitment | <p>Utilise recruitment platforms such as the recruitment database from the Ministry of Labour to recruit unemployed members of society.</p> <p>Be gender sensitive and select woman for interview, training and recruitment.</p> | Throughout the operations | Centre Manager |

Action Plan 6: Biodiversity

The objective of this mitigation strategy is to minimise potential impacts on the biodiversity.

Table 10: Biodiversity

| Activity | Management and mitigation strategy | Action Plan | |
|-------------------------|---|---------------------------|---------------------|
| | | Frequency/targeted date | Responsible parties |
| Protection of dune belt | Management should ensure guided quad bike tours are conducted only within the demarcated areas. | Throughout the operations | Centre Manager |

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Action Plan 7: Archaeological/Heritage Areas

The objective of this mitigation strategy is to minimise potential impacts on archaeological sites.

Table 11: Archaeological/Heritage Areas

| Activity | Management and mitigation strategy | Action Plan | |
|-------------------------|--|---------------------------|---------------------|
| | | Frequency/targeted date | Responsible parties |
| Archaeology discoveries | <div>In the event that archaeological resources are discovered, a chance find emergency procedure will be implemented which includes the following:</div> <div><div>1. Operations will be stopped to prevent damage.</div><div>2. An appropriate heritage specialist will be appointed to assess the find and related impacts.</div><div>3. Permit application will be made to relevant authorities if required.</div></div> | Throughout the operations | Centre Manager |

Action Plan 8: Sewerage Management

The objective of this mitigation measure is to minimise potential impacts relating to the management of sewerage systems.

Table 12: Sewerage management

| Activity | Management and mitigation strategy | Action Plan | |
|----------|--|---------------------------|---------------------|
| | | Frequency/targeted date | Responsible parties |
| Sewerage | <p>Only chemical toilets will be allowed in the park. Septic tank constructed on site is for toilets and is regularly emptied to prevent overflow.</p> <p>Plan must be in place to monitor septic tank for damages and leakages and must be done weekly.</p> | Throughout the operations | Centre Manager |

17. CONCLUSIONS AND RECOMMENDATIONS

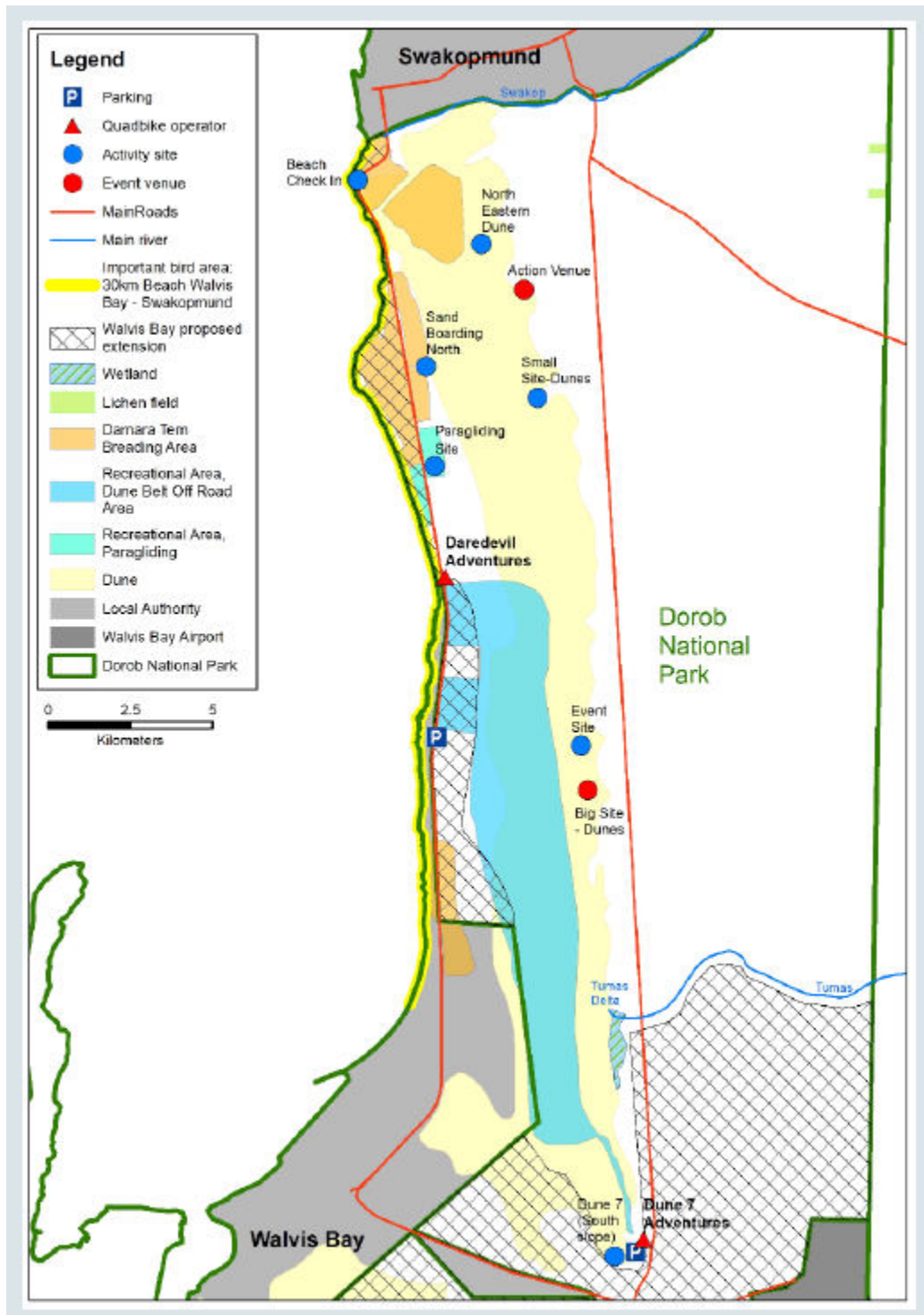
The Environmental Management Plan (EMP) must be implemented and used as an on-site reference manual. Monitoring and review must take place to ensure compliance with environmental commitments. The transgressor must be held accountable for improved performance. Approval of this EMP is required for Daredevil Adventures to be awarded the tourism concession and continue operating for sustainable economic development in this country.

Daredevil is committed to its Corporate Social Responsibility Plan. It has managed to significantly contribute positively towards community development through

education (providing local schools with stationaries and books), employment opportunities (it has a workforce of about 13 employees)

18. LIST OF KEY STAKEHOLDERS

| |
|---|
| Ministry of Environment, Forestry and Tourism |
| Ministry of Works and Transport |
| Walvis Bay municipality |
| Erongo Regional Council |
| Roads Authority |
| Namibia Tourism Board |
| Langstrand Community |



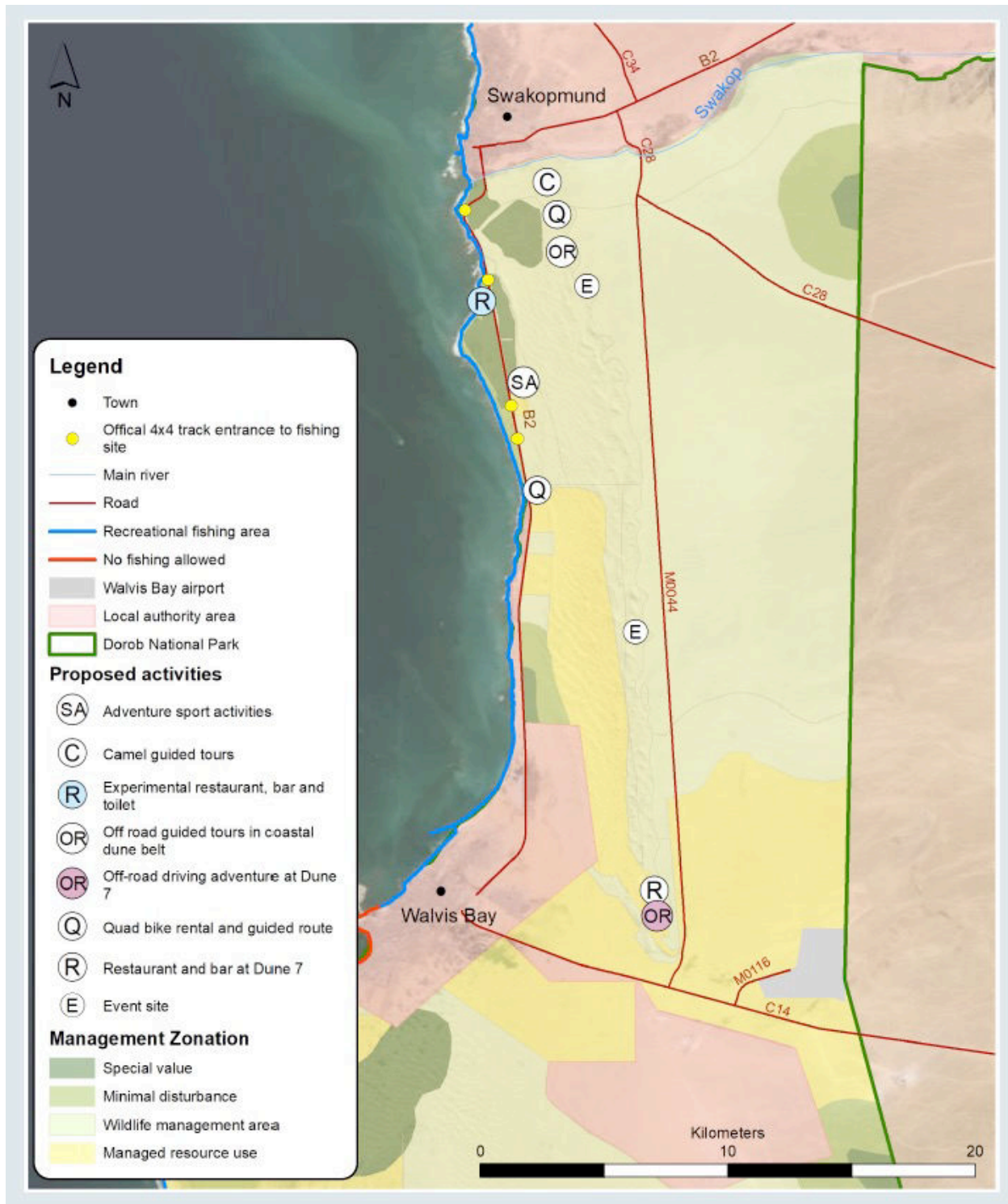
Activity sites in the coastal dune belt of Dorob National Park in relation to local authority areas and proposed expansion of local authority

20. ANNEXURE B



Management zonation of southern Dorob National Park in relation to the existing official access tracks from the public road to the high beach

21. ANNEXURE C



Overview of identified concession opportunities in Dorob National Park and the area south of Swakopmund



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