

**ENVIRONMENTAL MONITORING REPORT**  
**GRAVEL MINING ACTIVITIES ON GRAVEL MINING ON PORTION B**  
**OF SWAKOPMUND TOWN AND TOWNLANDS NO. 41, IN THE**  
**NONIDAS AREA**



**PREPARED FOR**

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**PERIOD:**

APRIL 2018 TO APRIL 2021

**PREPARED BY:**



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**SUBMITTED TO:**

The Environmental Commissioner  
Ministry of Environment, Forestry and  
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# 1. Introduction and Background

## 1.1 Introduction

This report constitutes an environmental monitoring report for gravel mining activities conducted by Refuse Solutions Pty Ltd on Portion B of Swakopmund Town and Townlands No. 41 for the period 24 April 2018 to 24 April 2021. The site is located at about 11.5 km east of Swakopmund, about less than a kilometre north of the B2 national road in the Nonidas area. The proposed site allocated to Refuse Solutions cc measures about 12.8764 hectares, of which hectares has been mined so far.

## 1.2 Environmental monitoring and reporting

To ensure continual improvement in environmental performance and reduce adversity of potential negative impacts the proponent does keep monitoring of certain environmental receptors. The monitoring is done at different intervals as indicated in the table below.

Issue to be monitored	Monitoring objectives	What needs to be monitored	Frequency and Monitoring	Responsibility
<b>Pollution</b>	-Avoid littering, pollution etc.	-litter, spillage and leakages	Daily	ECO
<b>Soil</b>	-Ensure soil conservation and prevent erosion	-Soil exposure, pollution, contamination, and soil erosion by windy conditions and water	Monthly	ECO-
<b>Vegetation</b>	-Avoid land degradation and encroachment	-Monitor the presence of any new plant species at the mined area and removal of any invading species i.e., <i>prosopis</i>	Annually (after rainy season)	MEFT-DoF
<b>Air quality</b>	-Ensure air quality	-Dust emission	Daily	ECO
<b>Noise level</b>	-Ensure noise level is at the required standard (85dB)	-Ambient noise level at mining site	Daily	ECO
<b>Implementation of the EMP</b>	-Ensure compliance to this EMP and adherence to the regulative measures	-Adherence to the EMP and legal requirements	Quarterly reports	ECO

## 2. Progress Report on Current Activities

### 1.1 Mining process

The gravel mining process is taking place in a simplified method which involves using a Front-End-Loader to excavate overburden material at a maximum depth of 1.5 metres and load it onto the sieve to separate any unwanted residues from the fine sand. The excavated aggregates are loaded into haulage trucks by means of front end and are transported straight to the pipeline section where it is required. No further processing is required for the mined material. only the required materials are excavated at a time and transported to the construction site.

#### A). The site before mining took place



#### B). Site after mining



## 1.2 Resource extraction

The main natural resource extracted from the site is Gravel (G6). The amount extracted varies from year to year, depending on the market demand.

Year	2018	2019	2020	2021 (Jan-June)
Quantity	565 m <sup>3</sup>	12315 m <sup>3</sup>	324m <sup>3</sup>	15 m <sup>3</sup>

## 1.3 Infrastructure Development

No new infrastructure development took place between April 2018 to April 2021. The mining site is still accessible via the informal road linking to the Swakopmund-Windhoek main road (B2).

## 1.4 Human resources

The company employs 10 employees for the gravel mining activities. This includes operators, labourer, site foreman and administrator. Despite the impact of COVID 19 which started in early 2020, no retrenchment has occurred.

## 1.5 Health and Safety

A health and safety representative takes care of the day-to-day toolbox talks and is responsible for recording incidences should they occur. No injuries or accidents have been recorded for the period under review. PPE is provided to all personnel while on duty.

## 1.6 Air Quality Management

No dedicated weather station was commissioned for providing weather data for the mine. Air quality monitoring is done by means of physical observation.

## 1.7 Noise & Vibration Management

Routine maintenance of the plant will ensure that the machinery meets a minimum standard for personnel working at the plant or in mobile plant for long periods of time.

## 1.8 Biodiversity Management

No incidents related to the damage or destruction of biodiversity was reported during the reporting period.

## 1.9 Visual Management

The mining site is kept neat and tidy and the personnel practice good housekeeping. No complaints from stakeholders have been received.

## 1.10 Archaeology / Heritage Management

No material of archaeological or heritage importance has been unearthed during the reporting period.

### **1.11 Traffic Management**

The objective of this management measures is to reduce the potential for safety and vehicle related impacts on road users. There are no high priority tasks currently. Haulage of material to Swakopmund occurs regularly from the site.

### **1.12 Waste Management**

All domestic waste is removed off site from the mine site and accommodation camp each week and taken to the Swakopmund landfill site. No waste rock or other waste generated from the mining activities.

### **1.13 Social**

## **3. Conclusion**

The proponent will continue with regular compliance monitoring of importance environmental parameters as listed above and submit biannual reports to MEFT.