

SUMMARY OF THE PROPOSED PROSPECTING OPERATION.

1. List of activities applied for

All prospecting related activities for the recovering of sand by means of trenching:

- Drilling – NEMA GNR 983, Listed 1, Activity 20
- Sampling – NEMA GNR 983, Listed 1, Activity 20
- Rehabilitation – NEMA GNR 983, Listed 1, Activity 20
- Ablution facility – NEMA GNR 983, Listed 1, Activity 20
- Vehicle storage – NEMA GNR 983, Listed 1, Activity 20
- Domestic waste facility – NEMA GNR 983, Listed 1, Activity 20
- Access road – NEMA GNR 983, Listed 1, Activity 20
- Mine roads – NEMA GNR 983, Listed 1, Activity 20

2. Scale and extent of activities

- Drilling – ± 0.1 ha
- Sampling – -
- Rehabilitation – ± 0.3024 ha
- Ablution facility – ± 0.0024 ha
- Vehicle storage – -
- Domestic waste facility – -
- Access road – ± 0.2 ha
- Mine roads – -

3. Typical impacts of activities

- Vegetation loss – a total area of 1000 m² ha will be cleared for prospecting related structures (drilling) and 24 m² for ablution facility and 2000 m² for access road establishment. The impact can be regarded as low to medium, with no long term effects. If rehabilitation of these areas is done correctly full recovery of the environment is possible.
- Noise disturbance – during auger drilling is noise generated by the machinery. Again the noise will be much localized and should have no impact on the surrounding environment.
- Air quality loss – dust will be generated during the prospecting activities. The dust generated may have an impact on the air quality, but with localized effects and should not have an effect on the surrounding environment. For this the impact can be regarded as low.
- Soil pollution – chemical soil pollution is always a possibility during mechanical prospecting operations. Working machinery and storage facilities bears a risk for chemical spillage and the impact thereof may be very severe.

- Soil compaction – heavy vehicles driving off-road bears a great risk to the trampling of vegetation and the compaction of the soil. If not rehabilitated vegetation re-growth is unforeseen and poses a medium risk to the environment.
- Littering pollution – littering during the prospecting activities can happen and may have a low to medium impact on the environment depending on the type of littering and the remediation thereof.

4. Duration of each activity

All of the listed activities will be occurring concurrently and the time frame applied for at the Department of Mineral Resources is 2 years which is the duration of the prospecting right.

5. Details regarding intended operation

The following methodological process has been implemented to ensure cost effective prospecting as well as successful rehabilitation:

- Phase 1 – Geological investigations (4 months)
 - Geological investigations (months 1 to 4)

Initial geological investigations will be in the form of desktop studies using existing literature, available data of the area and satellite imagery. From these information obtained the current geological maps is updated to be more area specific.

Field visits will also be conducted for the purpose of geological surveys for determining the existence of specific trace minerals as well as outcrop evaluation. All findings will be digitally captured and geological models drafted.
 - Geological overview (month 5)

All results obtained during the first phase activities are communicated and explained within the geological overview. Within this report all data is summarized and final drilling positions determined and recommended.
- Phase 2 – Auger Drilling (13 months)
 - Auger Drilling (months 7 to 22)

The initial drilling proposed is done to demarcate the commodity body with its boundaries. 25 Holes is proposed to a maximum depth of 5 meters each.

Drilling will be conducted by means of Auger drilling. All drill holes will be logged every meter containing information such as hole location, hole depth, sand depth and other geological structures encountered within the hole. The sand samples will be taken and stored within sealed plastic bags and safeguarded for future referencing.
 - Rehabilitation (months 7 to 22)

Once each hole is completely drilled it will be fully rehabilitated before moving to the next drill hole location. Rehabilitation will be done by the back filling of the

extracted material as close as possible to their respective manner. In this way rehabilitation is time and cost effective.

- Phase 3 – Geological Report (6 months)
 - Data input and mapping (months 19 to 22)

All data obtained during the proposed activities will be digitally captured and already existing maps updated to form more detailed and accurate models of the study area.
 - Geological Report writing (months 23 to 24)

All findings and results will be drafted and explained within a geological report. The geological models created will be used for the purpose and also be included within the report. The report will further include recommendations on future activities.