Appendix 3

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Methodology to Assess Impacts

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15 METHODOLOGY TO ASSESS THE IDENTIFIED IMPACTS

The EIA quantitative impact assessment will further focus on the direct and indirect impacts, as well as impacts associated with standard and non-standard operating procedures.

All impacts will be analysed with regard to their nature, extent, magnitude, duration, probability and significance. The following definitions apply:

Nature (/Status)

The project could have a positive, negative or neutral impact on the environment.

Extent

- Local extend to the site and its immediate surroundings.
- Regional impact on the region but within the province.
- National impact on an interprovincial scale.
- International impact outside of South Africa.

Magnitude

Degree to which impact may cause irreplaceable loss of resources.

- Low natural and social functions and processes are not affected or minimally affected.
- Medium affected environment is notably altered; natural and social functions and processes continue albeit in a modified way.
- High natural or social functions or processes could be substantially affected or altered to the extent that they could temporarily or permanently cease.

Duration

- Short term 0-5 years.
- Medium term 5-11 years.
- Long term impact ceases after the operational life cycle of the activity either because of natural processes or by human intervention.
- Permanent mitigation either by natural process or by human intervention will not occur in such a way or in such a time span that the impact can be considered transient.

Scoping Report (Final)

Probability

- Almost certain the event is expected to occur in most circumstances.
- Likely the event will probably occur in most circumstances.
- Moderate the event should occur at some time.
- Unlikely the event could occur at some time.
- Rare/Remote the event may occur only in exceptional circumstances.

Significance

Provides an overall impression of an impact's importance, and the degree to which it can be mitigated. The range for significance ratings is as follows-

- 0 Impact will not affect the environment. No mitigation necessary.
- 1 No impact after mitigation.
- 2 Residual impact after mitigation.
- 3 Impact cannot be mitigated.