## 2. IDENTIFICATION, ASSESSMENT AND RANKING OF IMPACTS TO REACH THE PROPOSED ALTERNATIVES INCLUDING THE <u>PREFERRED ALTERNATIVE</u> WITHIN THE SITE

**Note:** In this section the focus is on the identified issues, impacts and risks that influenced the identification of the alternatives. This includes how aspects of the receiving environment have influenced the selection.

(a) List the identified impacts and risks for each alternative.

Alternative 1:	<b>Tree Mast</b> - Preferred Alternative: Noise (Very-low negative); Visual (Low-medium negative); Cultural Historical (low-negative); Socio-economic (low-positive); Ecological aspect (Negligible)	
Alternative 2:	Lattice Mast: Not Preferred Alternative: Noise (Very-low negative); Visual (high – medium negative); Cultural Historical (low-negative) Socio-economic (low-positive); Ecological aspect (Negligible)	
Alternative 3:	Monopole Mast: Not Preferred Alternative: Noise (Very-low negative); Visual (high – medium negative); Cultural Historical (low-negative) Socio-economic (low positive); Ecological aspect (Negligible)	
No-go Alternative:	Socio-economic (Low-negative)	

(b) Describe the impacts and risks identified for each alternative, including the nature, significance, consequence, extent, duration and probability of the impacts, including the degree to which these impacts can be reversed; may cause irreplaceable loss of resources; and can be avoided, managed or mitigated.

The following table serves as a guide for summarising each alternative. The table should be repeated for each alternative to ensure a comparative assessment. (The EAP has to select the relevant impacts identified in blue in the table below for each alternative and repeat the table for each impact and risk).

Alternative 1:	Proposed 30m high Tree Mast – (Preferred)
PLANNING, DESIGN AND DEVELOPMENT PHASE	
Potential impact and risk:	Noise (Very-Low negative)
Nature of impact:	Noise impact from machinery on the property and neighbouring residential properties during construction.
Extent and duration of impact:	Local, Duration of construction phase
Consequence of impact or risk:	Localised noise disturbance on the site
Probability of occurrence:	Probable
Degree to which the impact may cause irreplaceable loss of resources:	Negligible
Degree to which the impact can be reversed:	Definite
Indirect impacts:	Slight increase in localised ambient noise levels (negligible)
Cumulative impact prior to mitigation:	Very – Low negative
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low negative
Degree to which the impact can be avoided:	Medium
Degree to which the impact can be managed:	<ul> <li>The following measures should be implemented amongst others:         <ul> <li>The Contractor shall endeavour to keep noise generating activities to a minimum.</li> <li>Construction only to take place during normal working hours. No construction on Sundays.</li> <li>Compliance with the appropriate legislation with respect to noise shall be mandatory.</li> <li>Implementation of the EMPr.</li> </ul> </li> </ul>
Degree to which the impact can be mitigated:	Low
Proposed mitigation:	The following measures should be implemented amongst others:  The Contractor shall endeavour to keep noise generating activities to a minimum.  Construction only to take place during normal working hours. No construction on Sundays.  Compliance with the appropriate legislation with respect to noise shall be mandatory.  Implementation of the EMPr.
Residual impacts:	Negligible
Cumulative impact post mitigation:	Very-Low negative
Significance rating of impact after mitigation	Very-Low negative
(e.g. Low, Medium, Medium-High, High, or Very-High)	· •
Potential impact and risk:	The activity is not expected to have any noise impacts during the operational phase.
Nature of impact:	F 1111

Extent and duration of impacts	
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation	
(e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:  Significance rating of impact after mitigation	
(e.g. Low, Medium, Medium-High, High, or Very-High)	
DECOMMISSIONING AND CLOSURE PHASE	
	The project as proposed does not require 'decommissioning' or 'closure',
Potential impact and risk:	as such the potential impacts thereof is considered irrelevant.
Nature of impact:	
Extent and duration of impact:	
Consequence of impact or risk:	
Consequence of impact or risk:  Probability of occurrence:	
Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:	
Probability of occurrence:  Degree to which the impact may cause irreplaceable	
Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:	
Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:	
Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation	
Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:	
Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:	
Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:  Degree to which the impact can be mitigated:	
Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:	
Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:  Degree to which the impact can be mitigated:	
Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:  Degree to which the impact can be mitigated:  Proposed mitigation:	
Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be mitigated:  Proposed mitigation:  Residual impacts:  Cumulative impact post mitigation:  Significance rating of impact after mitigation	
Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be mitigated:  Proposed mitigation:  Residual impacts:  Cumulative impact post mitigation:	
Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:  Degree to which the impact can be mitigated:  Proposed mitigation:  Residual impacts:  Cumulative impact post mitigation:  Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be mitigated:  Proposed mitigation:  Residual impacts:  Cumulative impact post mitigation:  Significance rating of impact after mitigation	Proposed 30m high Tree Mast – (Preferred)

Alternative 1:	Proposed 30m high Tree Mast – (Preferred)
PLANNING, DESIGN AND DEVELOPMENT PHASE	
Potential impact and risk:	Visual impact: Low-Medium negative. The proposed cellular mast appears to have an overall moderate to low visual impact, due to the topography and landscape elements as well as the fact that the tree design is in context with the landscape elements. The development is thus within acceptable levels of change and will not detract from the visual value of the area.
Nature of impact:	Unsightly views due to construction site
Extent and duration of impact:	Local, Duration of construction phase
Consequence of impact or risk:	Localised visual disturbance on site
Probability of occurrence:	Definite
Degree to which the impact may cause irreplaceable loss of resources:	Negligible
Degree to which the impact can be reversed:	Low
Indirect impacts:	Very-Low negative
Cumulative impact prior to mitigation:	Low-negative
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low-Medium negative
Degree to which the impact can be avoided:	Medium
Degree to which the impact can be managed:	Visual impact mitigation measures will be dealt with in the Environmental Management Programme ("EMPr"). The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others:

	The combinator should reduce all his makinking memberials
	<ul> <li>The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.</li> <li>Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation.</li> <li>The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO.</li> <li>Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape.</li> <li>Construction only to take place during normal working hours.</li> <li>Implementation of the EMPr.</li> </ul>
Degree to which the impact can be mitigated:	Probable
Proposed mitigation:	<ul> <li>The following measures should be implemented amongst others:         <ul> <li>The Contractor shall endeavour to keep noise generating activities to a minimum.</li> <li>Construction only to take place during normal working hours. No construction on Sundays.</li> <li>Compliance with the appropriate legislation with respect to noise shall be mandatory.</li> <li>Construct a 30m high tree mast which will be located adjacent to some tall bluegum trees.</li> <li>Implementation of the EMPr.</li> </ul> </li> </ul>
Residual impacts:	Very Low-negative
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Cumulative impact post mitigation:	Low - negative
Significance rating of impact after mitigation	Low – Medium negative
(e.g. Low, Medium, Medium-High, High, or Very-High)	
OPERATIONAL PHASE	
Potential impact and risk:	Visual impact: Low-Medium negative  Visual impact: High-Medium negative. The development of the mast will
Nature of impact:	have a visual impact because of the height of the mast (30m in height) and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.
Nature of impact:  Extent and duration of impact:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel
Extent and duration of impact:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent
Extent and duration of impact:  Consequence of impact or risk:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent
Extent and duration of impact:  Consequence of impact or risk:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely  Negligible (Possibly during the harvesting season and holiday season).  Low-Medium - negative
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely  Negligible (Possibly during the harvesting season and holiday season).
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely  Negligible (Possibly during the harvesting season and holiday season).  Low-Medium - negative
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely  Negligible (Possibly during the harvesting season and holiday season).  Low-Medium - negative  Low-Medium - negative
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely  Negligible (Possibly during the harvesting season and holiday season).  Low-Medium - negative  Low-Medium - negative  Highly Unlikely (Low)
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:  Degree to which the impact can be mitigated:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely  Negligible (Possibly during the harvesting season and holiday season).  Low-Medium - negative  Low-Medium - negative  Highly Unlikely (Low)  Medium  Medium  • Restrict the height of the mast to only 30m; • Construct a tree mast; • Construct the mast adjacent to existing mature trees; and • Implementation of the EMPr.
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be mitigated:  Proposed mitigation:  Residual impacts:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely  Negligible (Possibly during the harvesting season and holiday season).  Low-Medium - negative  Low-Medium - negative  Highly Unlikely (Low)  Medium  Medium  • Restrict the height of the mast to only 30m; • Construct a tree mast; • Construct the mast adjacent to existing mature trees; and • Implementation of the EMPr.  Very Low - negative
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:  Degree to which the impact can be mitigated:  Proposed mitigation:  Residual impacts:  Cumulative impact post mitigation:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely  Negligible (Possibly during the harvesting season and holiday season).  Low-Medium - negative  Low-Medium - negative  Highly Unlikely (Low)  Medium  Medium  • Restrict the height of the mast to only 30m; • Construct a tree mast; • Construct the mast adjacent to existing mature trees; and • Implementation of the EMPr.
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:  Degree to which the impact can be mitigated:  Proposed mitigation:  Residual impacts:  Cumulative impact post mitigation:  Significance rating of impact after mitigation	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely  Negligible (Possibly during the harvesting season and holiday season).  Low-Medium - negative  Low-Medium - negative  Highly Unlikely (Low)  Medium  Medium  • Restrict the height of the mast to only 30m; • Construct a tree mast; • Construct the mast adjacent to existing mature trees; and • Implementation of the EMPr.  Very Low - negative
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be managed:  Degree to which the impact can be mitigated:  Proposed mitigation:  Residual impacts:  Cumulative impact post mitigation:  Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely  Negligible (Possibly during the harvesting season and holiday season).  Low-Medium - negative  Low-Medium - negative  Highly Unlikely (Low)  Medium  Medium  • Restrict the height of the mast to only 30m; • Construct a tree mast; • Construct the mast adjacent to existing mature trees; and • Implementation of the EMPr.  Very Low - negative  Very Low - negative
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:  Degree to which the impact can be mitigated:  Proposed mitigation:  Residual impacts:  Cumulative impact post mitigation:  Significance rating of impact after mitigation	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely  Negligible (Possibly during the harvesting season and holiday season).  Low-Medium - negative  Low-Medium - negative  Highly Unlikely (Low)  Medium  Medium  • Restrict the height of the mast to only 30m; • Construct a tree mast; • Construct the mast adjacent to existing mature trees; and • Implementation of the EMPr.  Very Low - negative  Very Low - negative
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:  Degree to which the impact can be mitigated:  Proposed mitigation:  Residual impacts:  Cumulative impact post mitigation:  Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  DECOMMISSIONING AND CLOSURE PHASE  Potential impact and risk:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely  Negligible (Possibly during the harvesting season and holiday season).  Low-Medium - negative  Low-Medium - negative  Highly Unlikely (Low)  Medium  Medium  • Restrict the height of the mast to only 30m; • Construct a tree mast; • Construct the mast adjacent to existing mature trees; and • Implementation of the EMPr.  Very Low - negative  Very Low - negative  Low - Medium negative
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:  Degree to which the impact can be mitigated:  Proposed mitigation:  Residual impacts:  Cumulative impact post mitigation:  Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  DECOMMISSIONING AND CLOSURE PHASE  Potential impact and risk:  Nature of impact:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely  Negligible (Possibly during the harvesting season and holiday season).  Low-Medium - negative  Low-Medium - negative  Highly Unlikely (Low)  Medium  Medium  • Restrict the height of the mast to only 30m; • Construct a tree mast; • Construct the mast adjacent to existing mature trees; and • Implementation of the EMPr.  Very Low - negative  Very Low - negative  Low - Medium negative
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:  Degree to which the impact can be mitigated:  Proposed mitigation:  Residual impacts:  Cumulative impact post mitigation:  Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  DECOMMISSIONING AND CLOSURE PHASE  Potential impact and risk:  Nature of impact:  Extent and duration of impact:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely  Negligible (Possibly during the harvesting season and holiday season).  Low-Medium - negative  Low-Medium - negative  Highly Unlikely (Low)  Medium  Medium  • Restrict the height of the mast to only 30m; • Construct a tree mast; • Construct the mast adjacent to existing mature trees; and • Implementation of the EMPr.  Very Low - negative  Very Low - negative  Low - Medium negative
Extent and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Indirect impacts:  Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:  Degree to which the impact can be mitigated:  Proposed mitigation:  Residual impacts:  Cumulative impact post mitigation:  Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  DECOMMISSIONING AND CLOSURE PHASE  Potential impact and risk:  Nature of impact:	and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.  Local, Permanent  Low-Medium negative  Definite  Low - negative  Very Likely  Negligible (Possibly during the harvesting season and holiday season).  Low-Medium - negative  Low-Medium - negative  Highly Unlikely (Low)  Medium  Medium  • Restrict the height of the mast to only 30m; • Construct a tree mast; • Construct the mast adjacent to existing mature trees; and • Implementation of the EMPr.  Very Low - negative  Very Low - negative  Low - Medium negative

Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	

(e.g. Low, Medium, Medium-High, High, or Very-High)	
Alternative 1:	Proposed 30m high Tree Mast – (Preferred)
PLANNING, DESIGN AND DEVELOPMENT PHASE	
Potential impact and risk:	Socio-Economic (Low - Positive)
Nature of impact:	Temporary jobs will be created in the construction industry during the construction phase.
Extent and duration of impact:	Local, Duration of construction phase
Consequence of impact or risk:	Low - Positive (temporary job creation)
Probability of occurrence:	Definite
Degree to which the impact may cause irreplaceable loss of resources:	N/A. This is a positive impact
Degree to which the impact can be reversed:	N/A. This is a positive impact
Indirect impacts:	Very - Low - Positive (contribute to temporary construction jobs).
Cumulative impact prior to mitigation:	Low - Positive
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low - Positive
Degree to which the impact can be avoided:	N/A. This is a positive impact. Temporary jobs will be created during the construction phase.
Degree to which the impact can be managed:	N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required.
Degree to which the impact can be mitigated:	N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required.
Proposed mitigation:	N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required.
Residual impacts:	Low – Positive (Temporary jobs to be created during the construction phase).
Cumulative impact post mitigation:	Low - Positive
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low - Positive
OPERATIONAL PHASE	
Potential impact and risk:	Socio-economic aspect (Medium – Positive)
Nature of impact:	The proposed activity will increase the coverage of telecommunications services, including providing a more reliable and wider coverage. The proposed mast will have a positive impact on the socio-economics of the surrounding area as it will provide communication users with the option of faster internet coverage, cheaper cellular rates and available, stable network coverage which could be critical in the case of an emergency.
Extent and duration of impact:	Regional, Long-term
Consequence of impact or risk:	Please see above. The activity will increase the cellular network coverage within the area. Medium – Positive
Probability of occurrence:	Highly Probable
Degree to which the impact may cause irreplaceable loss of resources:	N/A. Unlikely to cause any loss of resources. This is a positive impact.
Degree to which the impact can be reversed:	N/A. This is a positive impact.
Indirect impacts:	Low – Positive indirect impacts associated with the activity. Improved mobile network coverage within the surrounding area.
Cumulative impact prior to mitigation:	Medium - Positive
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low - Positive
Degree to which the impact can be avoided:	N/A. This is a positive impact that will improve the cellular network coverage within the surrounding area.
Degree to which the impact can be managed:	N/A. This is a positive impact.
Degree to which the impact can be mitigated:	N/A. This is positive impact.

Proposed mitigation:	N/A. This is a positive impact. No mitigation measures required.
Residual impacts:	Low - Positive
Cumulative impact post mitigation:	Low - Positive
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low - Positive
DECOMMISSIONING AND CLOSURE PHASE	
Potential impact and risk:	The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant.
Nature of impact:	
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	

Alternative 1:	Proposed 30m high Tree Mast – (Preferred)
PLANNING, DESIGN AND DEVELOPMENT PHASE	
Potential impact and risk:	Heritage and Cultural-Historic Aspects – Due to the site location and nature of the activity, the activity is expected to have very low impact on heritage and cultural-historic aspects.
Nature of impact:	The loss of heritage, cultural or historic aspects during construction.
Extent and duration of impact:	Local, Duration of construction phase
Consequence of impact or risk:	Low - negative
Probability of occurrence:	Probable
Degree to which the impact may cause irreplaceable loss of resources:	Low
Degree to which the impact can be reversed:	Medium
Indirect impacts:	Very - Low Negative
Cumulative impact prior to mitigation:	Low - Negative
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low - Negative
Degree to which the impact can be avoided:	Medium (Likely)
Degree to which the impact can be managed:	<ul> <li>If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC.</li> <li>Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed.</li> <li>Implementation of the EMPr.</li> </ul>
Degree to which the impact can be mitigated:	Medium (Likely)
Proposed mitigation:	<ul> <li>If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and</li> </ul>

Residual impacts:  Cumulative impact post mitigation:  Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  OPERATIONAL PHASE  Potential impact and risk:	must not be disturbed further until the necessary approval has been obtained from HWC.  • Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed.  • Implementation of the EMPr.  Negligible  Low - Negative  Heritage and Cultural-Historic Aspects – Due to the site location and nature of the activity, the activity is expected to have a low impact on heritage
Nature of impact:	and cultural-historic aspects.  The loss of heritage, cultural or historic aspects during the operational
	phase
Extent and duration of impact:	Local, Duration the operational phase
Consequence of impact or risk:	Low - Negative
Probability of occurrence:	Probable
Degree to which the impact may cause irreplaceable loss of resources:	Very-Low negative
Degree to which the impact can be reversed:	Medium
Indirect impacts:	Very – Low Negative
Cumulative impact prior to mitigation:	Low - Negative
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low - Negative
Degree to which the impact can be avoided:	Medium (Likely)
Degree to which the impact can be managed:	bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC.  Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed.  Implementation of the EMPr.
Degree to which the impact can be mitigated:	Medium (Likely)
Proposed mitigation:	<ul> <li>If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC.</li> <li>Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed.</li> <li>Implementation of the EMPr.</li> </ul>
Residual impacts:	Negligible
Cumulative impact post mitigation:	Low – Negative
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low – Negative
DECOMMISSIONING AND CLOSURE PHASE	
Potential impact and risk:	The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant.
Nature of impact:	The process of the second seco
Extent and duration of impact:	

Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	

(e.g. Low, Medium, Medium-High, High, or Very-High)	
Alternative 1:	Proposed 30m high Tree Mast – (Preferred)
	Troposed don't light free mass. (Treferred)
PLANNING, DESIGN AND DEVELOPMENT PHASE	1
Potential impact and risk:	Ecological aspect (negligible)
Nature of impact:	Due to the site location and nature of the activity, the activity is not expected to have any impacts on ecological or biodiversity aspects. The proposed site is not located within a Critical Biodiversity Area ("CBA") or Ecological Support Area ("ESA") and is totally transformed from its natural state due to past development activities on the property. The site contains no indigenous vegetation and is covered with kikuyu grass.
Extent and duration of impact:	Local, Duration of construction phase
Consequence of impact or risk:	Negligible
Probability of occurrence:	Highly Unlikely
Degree to which the impact may cause irreplaceable loss of resources:	Highly Unlikely
Degree to which the impact can be reversed:	Definite
Indirect impacts:	Insignificant
Cumulative impact prior to mitigation:	Negligible
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Negligible
Degree to which the impact can be avoided:	Low (Highly Likely)
Degree to which the impact can be managed:	<ul> <li>The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others: <ul> <li>The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.</li> <li>No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area.</li> <li>Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation.</li> <li>The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO.</li> <li>Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape.</li> <li>Construction only to take place during normal working hours.</li> <li>Implementation of the EMPr.</li> </ul> </li> </ul>
Degree to which the impact can be mitigated:	Medium
Proposed mitigation:	The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others:

	<ul> <li>The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.</li> <li>No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area.</li> <li>Construction material must be stored in areas designated by</li> </ul>
	the site agent and in a neat and orderly manner and must not damage natural vegetation.  The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO.  Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape.  Construction only to take during normal working hours.
Residual impacts:	Negligible
Cumulative impact post mitigation:	Negligible
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Negligible
OPERATIONAL PHASE	Due to the site together and nature of the maticity the maticity is not
Potential impact and risk:	Due to the site location and nature of the activity, the activity is not expected to have any impacts on ecological or biodiversity aspects during the operational phase.
Nature of impact:	
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
DECOMMISSIONING AND CLOSURE PHASE	
Potential impact and risk:	The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant.
Nature of impact:	
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	

Cumulative impact post mitigation:	
Significance rating of impact after mitigation	
(e.g. Low, Medium, Medium-High, High, or Very-High)	

Alternative 2:	Lattice Mast (30m in height) – Not Preferred
PLANNING, DESIGN AND DEVELOPMENT PHASE	, , , , , , , , , , , , , , , , , , , ,
`	Notes (Law pagethics)
Potential impact and risk:	Noise (Low-negative)  Noise impact from machinery on the property and neighbouring
Nature of impact:	residential properties during construction.
Extent and duration of impact:	Local, Duration of construction phase
Consequence of impact or risk:	Localised noise disturbance on site
Probability of occurrence:	Probable
Degree to which the impact may cause irreplaceable loss of resources:	Negligible
Degree to which the impact can be reversed:	Definite
Indirect impacts:	Slight increase in localised ambient noise levels (negligible)
Cumulative impact prior to mitigation:	Low-negative
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low negative
Degree to which the impact can be avoided:	Medium
Degree to which the impact can be managed:	<ul> <li>The following measures should be implemented amongst others:         <ul> <li>The Contractor shall endeavour to keep noise generating activities to a minimum.</li> <li>Construction only to take place during normal working hours. No construction on Sundays.</li> <li>Compliance with the appropriate legislation with respect to noise shall be mandatory.</li> <li>Implementation of the EMPr.</li> </ul> </li> </ul>
Degree to which the impact can be mitigated:	Medium
Proposed mitigation:	<ul> <li>The following measures should be implemented amongst others:         <ul> <li>The Contractor shall endeavour to keep noise generating activities to a minimum.</li> <li>Construction only to take place during normal working hours. No construction on Sundays.</li> <li>Compliance with the appropriate legislation with respect to noise shall be mandatory.</li> <li>Implementation of the EMPr.</li> </ul> </li> </ul>
Residual impacts:	Negligible
Cumulative impact post mitigation:	Low - negative
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Very-low negative
OPERATIONAL PHASE	
Potential impact and risk:	The activity is not expected to have any noise impacts during the operational phase.
Nature of impact:	
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
DECOMMISSIONING AND CLOSURE PHASE	

Potential impact and risk:	The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant.
Nature of impact:	
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	

Alternative 2:	Lattice Mast (30m in height) – Not Preferred
PLANNING, DESIGN AND DEVELOPMENT PHASE	
Potential impact and risk:	Visual impact: High-Medium negative. The development of the mast will have a visual impact because of the height of the mast (30m in height) and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.
Nature of impact:	Unsightly views due to construction site
Extent and duration of impact:	Local, Duration of construction phase
Consequence of impact or risk:	Localised visual disturbance on site
Probability of occurrence:	Definite
Degree to which the impact may cause irreplaceable loss of resources:	Negligible
Degree to which the impact can be reversed:	Low
Indirect impacts:	Low
Cumulative impact prior to mitigation:	Low-Medium negative
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	High - Medium - negative
Degree to which the impact can be avoided:	Medium
Degree to which the impact can be managed:	Visual impact mitigation measures will be dealt with in the Environmental Management Programme ("EMPr"). The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others:  • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.  • Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation.  • The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO.  • Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape.  • Construction only to take place during normal working hours.  • Implementation of the EMPr.
Degree to which the impact can be mitigated:	Probable
Proposed mitigation:	The following measures should be implemented amongst others:  • The Contractor shall endeavour to keep noise generating activities to a minimum.

Residual impacts:  Cumulative impact post mitigation:  Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  OPERATIONAL PHASE	Construction only to take place during normal working hours. No construction on Sundays.  Compliance with the appropriate legislation with respect to noise shall be mandatory.  Construct a 30m high lattice mast.  Implementation of the EMPr.  Very Low-negative  Low - negative  High-Medium negative
Potential impact and risk:	Visual impact: Medium-negative
Nature of impact:	Visual impact: Medium negative. The development of the mast will have a visual impact because of the height of the mast (30m in height) and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.
Extent and duration of impact:	Local, Permanent
Consequence of impact or risk:	Low-Medium negative
Probability of occurrence:	Definite
Degree to which the impact may cause irreplaceable loss of resources:	Low - negative
Degree to which the impact can be reversed:	Very Likely
Indirect impacts:	Negligible (Possibly during the harvesting season and holiday season).
Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Medium - negative  Medium - negative
Degree to which the impact can be avoided:	Highly Unlikely (Low)
Degree to which the impact can be managed:	Medium
Degree to which the impact can be mitigated:	Medium
Proposed mitigation:	<ul> <li>Restrict the height of the mast to only 30m;</li> <li>Construct a lattice mast; and</li> <li>Implementation of the EMPr.</li> </ul>
Residual impacts:	Very Low - negative
Cumulative impact post mitigation:  Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low - negative  Medium - negative
DECOMMISSIONING AND CLOSURE PHASE	The project or proposed does not require (decomposition in all or (-1
Potential impact and risk:  Nature of impact:	The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant.
•	
Extent and duration of impact:  Consequence of impact or risk:	
Probability of occurrence:  Degree to which the impact may cause irreplaceable	
loss of resources:  Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	

Alternative 2:	Lattice Mast (30m in height) – Not Preferred
PLANNING, DESIGN AND DEVELOPMENT PHASE	
Potential impact and risk:	Socio-Economic (Low - Positive)
Nature of impact:	Temporary jobs will be created in the construction industry during the construction phase.

Extent and duration of impact:	Local, Duration of construction phase
Consequence of impact or risk:	Low - Positive (temporary job creation)
Probability of occurrence:	Definite
Degree to which the impact may cause irreplaceable loss of resources:	N/A. This is a positive impact
Degree to which the impact can be reversed:	N/A. This is a positive impact
Indirect impacts:	Very - Low - Positive (contribute to temporary construction jobs).
Cumulative impact prior to mitigation:	Low - Positive
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low – Positive
Degree to which the impact can be avoided:	N/A. This is a positive impact. Temporary jobs will be created during the construction phase.
Degree to which the impact can be managed:	N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required.
Degree to which the impact can be mitigated:	N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required.
Proposed mitigation:	N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required.
Residual impacts:	Low – Positive (Temporary jobs to be created during the construction phase).
Cumulative impact post mitigation:	Low - Positive
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low – Positive
OPERATIONAL PHASE	
Potential impact and risk:	Socio-economic aspect (Medium – Positive)
Nature of impact:	The proposed activity will increase the coverage of telecommunications services, including providing a more reliable and wider coverage. The proposed mast will have a positive impact on the socio-economics of the surrounding area as it will provide communication users with the option of faster internet coverage, cheaper cellular rates and available, stable network coverage which could be critical in the case of an emergency.
Extent and duration of impact:	Regional, Long-term
·	Please see above. The activity will increase the cellular network
Consequence of impact or risk:	coverage within the area. Medium – Positive
Probability of occurrence:	Highly Probable
Degree to which the impact may cause irreplaceable loss of resources:	N/A. Unlikely to cause any loss of resources. This is a positive impact.
Degree to which the impact can be reversed:	N/A. This is a positive impact.
Indirect impacts:	Low – Positive indirect impacts associated with the activity. Improved mobile network coverage within the surrounding area.
Cumulative impact prior to mitigation:	Medium - Positive
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low – Positive
Degree to which the impact can be avoided:	N/A. This is a positive impact that will improve the cellular network coverage within the surrounding area.
Degree to which the impact can be managed:	N/A. This is a positive impact.
Degree to which the impact can be mitigated:	N/A. This is positive impact.
Proposed mitigation:	N/A. This is a positive impact. No mitigation measures required.
Residual impacts:	Low - Positive
Cumulative impact post mitigation:	Low - Positive
Significance rating of impact after mitigation	Low - Positive
(e.g. Low, Medium, Medium-High, High, or Very-High)  DECOMMISSIONING AND CLOSURE PHASE	
Potential impact and risk:	The project as proposed does not require 'decommissioning' or 'closure',
Nature of impact:	as such the potential impacts thereof is considered irrelevant.
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable	
loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation	
(e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	

Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	

Alternative 2:	Lattice Mast (30m in height) – Not Preferred
PLANNING, DESIGN AND DEVELOPMENT PHASE	
Potential impact and risk:	Heritage and Cultural-Historic Aspects – Due to the site location and nature of the activity, the activity is expected to have a low impact on heritage and cultural-historic aspects.
Nature of impact:	The loss of heritage, cultural or historic aspects during construction.
Extent and duration of impact:	Local, Duration of construction phase
Consequence of impact or risk:	Low - Negative
Probability of occurrence:	Probable
Degree to which the impact may cause irreplaceable loss of resources:	Low
Degree to which the impact can be reversed:	Medium
Indirect impacts:	Very – Low Negative
Cumulative impact prior to mitigation:	Low - Negative
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low - Negative
Degree to which the impact can be avoided:	Medium (Likely)
Degree to which the impact can be managed:	<ul> <li>If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC.</li> <li>Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed.</li> <li>Implementation of the EMPr.</li> </ul>
Degree to which the impact can be mitigated:	Medium (Likely)
Proposed mitigation:	<ul> <li>If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC.</li> <li>Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed.</li> <li>Implementation of the EMPr.</li> </ul>
Residual impacts:	Negligible
Cumulative impact post mitigation:	Low - Negative
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low - Negative
OPERATIONAL PHASE  Potential impact and risk:	Heritage and Cultural-Historic Aspects – Due to the site location and nature of the activity, the activity is expected to have a low impact on heritage and cultural-historic aspects.
Nature of impact:	The loss of heritage, cultural or historic aspects during the operational phase
Extent and duration of impact:	Local, Duration the operational phase
Consequence of impact or risk:	Low - Negative
Probability of occurrence:	Probable

Degree to which the impact may cause irreplaceable loss of resources:	Low
Degree to which the impact can be reversed:	Medium
Indirect impacts:	Very – Low Negative
Cumulative impact prior to mitigation:	Low - Negative
Significance rating of impact prior to mitigation	Low - Negative
(e.g. Low, Medium, Medium-High, High, or Very-High)	M. P. (19. 1.)
Degree to which the impact can be avoided:	Medium (Likely)
Degree to which the impact can be managed:	<ul> <li>If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC.</li> <li>Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed.</li> <li>Implementation of the EMPr.</li> </ul>
Degree to which the impact can be mitigated:	Medium (Likely)
Proposed mitigation:	<ul> <li>If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC.</li> <li>Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed.</li> <li>Implementation of the EMPr.</li> </ul>
Residual impacts:	Negligible
Cumulative impact post mitigation:	Low – Negative
Significance rating of impact after mitigation	
(e.g. Low, Medium, Medium-High, High, or Very-High)	Low – Negative
DECOMMISSIONING AND CLOSURE PHASE	
DECOMINISSIONING AND CLOSURE ITIASE	The project as proposed does not require 'decommissioning' or 'closure',
Potential impact and risk:	as such the potential impacts thereof is considered irrelevant.
Nature of impact:	as seen the perential impacts mercor is considered inelevalit.
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable	
loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Alternative 2:	Lattice Mast (30m in height) – Not Preferred

Alternative 2:	Lattice Mast (30m in height) – Not Preferred
PLANNING, DESIGN AND DEVELOPMENT PHASE	

expected to have any impacts on ecological of biodiversity aspects. The proposed site is not located within a critical Biodiversity Area ("SBA") on Ecological Support Area ("SBA") and is totally transformed from its natural state due to past development activities on the property. The site has no indigenous vegetation and is covered with kikuyu grass.  Extend and duration of impact:  Consequence of impact or risk:  Probability of occurrence:  Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:  Insignificant  Regligible  Probability unlikely  Begree to which the impact prior to mitigation:  Regligible  Negligible  Negligible  Negligible  Negligible  Low (Highly Likely)  The EMPr must be enforced and monitioned by the Environmental Control of Construction and in a near and orderly manner and must not damage and uncertainty and particular attention to its appearance relative to the general landscape.  Construction material must be stored in areas designated by the sufficiency and monitored by the Environment working particular attention to its appearance relative to the general landscape.  Construction activities are removed once the project has been completed. The construction is must be cleared and cleaned to the sufficiency effective the general landscape.  Construction only to take place during normal working hours.  Implementation of the ECO.  Construction only to take place during normal working hours.  Implementation of the EMPr.  The EMPr must be enforced and monitored by the Environmental Control of the EMPr.  Degree to which the impact can be mitigated:  The Contractor and monitored by the Environmental Control of the EMPr.  Property and the property and the environmental Control of the EMPr.	Potential impact and risk:	Ecological aspect (negligible)
Excel and duration of impact in filts	Nature of impact:	Due to the site location and nature of the activity, the activity is not expected to have any impacts on ecological or biodiversity aspects. The proposed site is not located within a Critical Biodiversity Area ("CBA") or Ecological Support Area ("ESA") and is totally transformed from its natural state due to past development activities on the property. The site has no indigenous vegetation and is covered with kikuvu grass.
Consequence of impact or risk:  Degree to which the impact can be reversed:  Degree to which the impact prior to miligation:  Significant control of many the prior of the miligation of the prior of the	Extent and duration of impact:	
Righty Unlikely		
Degree to which the impact and yourself replaceable loss of resources:  Degree to which the impact can be reversed:  Insignificant  Degree to which the impact part of mitigation:  Significance rating of impact part of mitigation (1900).  Begree to which the impact can be avoided:  Degree to which the impact can be avoided:  Degree to which the impact can be avoided:  Degree to which the impact can be managed:  Degree to which the impact can be mitigated:  Degree to which the		
Indignation impacts: Cumulative impact prior to miligation: Significance rating of impact prior to miligation: Negligible Degree to which the impact can be avoided:  Low (Highly Likely)  The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others:  The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.  No further encroachment and the degraded ESA on site, construction area.  Oconstruction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation.  The contractor must ensure that all structures, equipment, materials and facilities used or created an site for or during construction activities are removed once the project has been completed. The construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO.  Immediately after the demolishing of the compsite, the contractor shall restore the site to its original state, paying particular afternion to its appearance relative to the general landscape.  Construction of the EMPr.  Degree to which the impact can be milligated:  The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others:  The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.  No further encoachment and the fact of demarcated construction activities to be clearly restricted to demarcated construction and civilies and orderly manner and must not damage natural vegetation.  The contractor and in a neat and and rest of a designated by the site of t	Degree to which the impact may cause irreplaceable	• • •
Significance roting of Impost prior to miligation:   Significance roting of Impost prior to miligation (E.g., Low, Medium, Medium-High, ter's very-High)   100     Degree to which the impact can be avoided:   100     The EMP: must be enforced and monitored by the Environmental Combo (FECO*). The following measures should be implemented amongst others:   100     The Contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.   100     No further encroachment onto the degraded ESA on site, construction area.   100     Construction material must be stored in areas designated by the site agent and in a need and adelity manner and must not damage natural vegetation.   100     The contractor must ensure that all structures, equipment, materials and facilities used or created on site for a during construction areas designated by the site agent and in a need and adelity manner and must not damage natural vegetation.   100     The contractor must ensure that all structures, equipment, materials and facilities used or created on site for a during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO.   1 Immediately after the demalishing of the campsite, the contractor shall restrict all his activities, materials, and indicates are shall restrict all his activities, materials, and indicates are shall restrict all his activities, materials, equipment, materials, and personnel to within the area specified/demarcated.   100	Degree to which the impact can be reversed:	Definite
Negligible	Indirect impacts:	Insignificant
Leg. Low, Medium-High, High, or Very-High)   Degree to which the impact can be avoided:   Low (Highly Likely)   The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others:	Cumulative impact prior to mitigation:	Negligible
The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others:  • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specifilled (Jemarcated.  • No further encroachment onto the degraded ESA on site, construction area.  • Construction area.  • Construction material must be stored in areas designated by the site agent and in a neat and orderly moner and must not damage natural vegetation.  • The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO.  • Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, positive to the general landscape.  • Construction only to take place during normal working hours.  • Implementation of the EMPr.  Degree to which the impact can be milligated:  Medium  The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others:  • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/ demarcated.  • No further encroachment onto the degraded ESA on site, construction rea.  • Construction in material must be stored in areas designated by the site organization or the project has been completed. The construction site must be cl	(e.g. Low, Medium, Medium-High, High, or Very-High)	Negligible
Officer ("ECO"). The following measures should be implemented amongst others:  • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. • No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction activities to be clearly restricted by the site agent and in a next and orderly manner and must not damage natural vegetation. • The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the solistaction of the ECO. • Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape. • Construction only to take place during normal working hours.  Implementation of the EMPr.  Degree to which the impact can be mitigated:  Medium  The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"), the following measures should be implemented amongst others:  • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. • No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction activities are the project has been completed. The construction activities are removed on the project has been completed. The construction site must be cleared and cleaned to the solitation of within the error of whing construction activities are removed on creditive to the general landscape.  •	Degree to which the impact can be avoided:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Degree to which the impact can be mitigated:  The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others:  The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.  No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area.  Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation.  Proposed mitigation:  The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO.  Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape.  Construction only to take during normal working hours.  Implementation of the EMPr.	Degree to which the impact can be managed:	<ul> <li>The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.</li> <li>No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area.</li> <li>Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation.</li> <li>The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO.</li> <li>Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape.</li> <li>Construction only to take place during normal working hours.</li> </ul>
The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others:  • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.  • No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area.  • Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation.  • The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO.  • Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape.  • Construction only to take during normal working hours.  • Implementation of the EMPr.  Residual impacts:  Negligible	Degree to which the impact can be mitigated:	
	Proposed mitigation:	<ul> <li>The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.</li> <li>No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area.</li> <li>Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation.</li> <li>The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO.</li> <li>Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape.</li> <li>Construction only to take during normal working hours.</li> </ul>
	Residual impacts:	Negligible

Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Negligible
OPERATIONAL PHASE	1
Potential impact and risk:	Due to the site location and nature of the activity, the activity is not expected to have any impacts on ecological or biodiversity aspects during the operational phase.
Nature of impact:	
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation	
(e.g. Low, Medium, Medium-High, High, or Very-High)	
DECOMMISSIONING AND CLOSURE PHASE	T
Potential impact and risk:	The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant.
Nature of impact:	
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation	

Alternative 3:	Monopole Mast (30m in height) – Not Preferred
PLANNING, DESIGN AND DEVELOPMENT PHASE	
Potential impact and risk:	Noise Low-negative
Nature of impact:	Noise impact from machinery on the property and neighbouring residential properties during construction.
Extent and duration of impact:	Local, Duration of construction phase
Consequence of impact or risk:	Localised noise disturbance on the site
Probability of occurrence:	Probable
Degree to which the impact may cause irreplaceable loss of resources:	Negligible
Degree to which the impact can be reversed:	Definite
Indirect impacts:	Slight increase in localised ambient noise levels (negligible)
Cumulative impact prior to mitigation:	Low - negative
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low - negative
Degree to which the impact can be avoided:	Medium

	The following measures should be implemented amongst others:
	The Contractor shall endeavour to keep noise generating
	activities to a minimum.
Degree to which the impact can be managed:	<ul> <li>Construction only to take place during normal working hours.</li> <li>No construction on Sundays.</li> </ul>
	Compliance with the appropriate legislation with respect to
	noise shall be mandatory.
	Implementation of the EMPr.
Degree to which the impact can be mitigated:	Low-negative
	The following measures should be implemented amongst others:
	The Contractor shall endeavour to keep noise generating  Addition to a principle of the contractor of the contracto
	<ul> <li>activities to a minimum.</li> <li>Construction only to take place during normal working hours.</li> </ul>
Proposed mitigation:	No construction on Sundays.
	Compliance with the appropriate legislation with respect to
	noise shall be mandatory.
	Implementation of the EMPr.
Residual impacts:	Negligible
Cumulative impact post mitigation:	Low - negative
Significance rating of impact after mitigation	Low - negative
(e.g. Low, Medium, Medium-High, High, or Very-High)	
OPERATIONAL PHASE	The activity is not expected to have any noise impacts during the
Potential impact and risk:	operational phase.
Nature of impact:	
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation	
(e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:  Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation	
(e.g. Low, Medium, Medium-High, High, or Very-High)	
DECOMMISSIONING AND CLOSURE PHASE	
Potential impact and risk:	The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant.
Nature of impact:	
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation	
(e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
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Alternative 3:	Monopole Mast (30m in height) – Not Preferred
PLANNING. DESIGN AND DEVELOPMENT PHASE	1
Potential impact and risk:	Visual impact: High-Medium negative. The development of the mast will have a visual impact because of the height of the mast (30m in height) and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.
Nature of impact:	Unsightly views due to construction site
Extent and duration of impact:	Local, Duration of construction phase
Consequence of impact or risk:	Localised visual disturbance on site
Probability of occurrence:	Definite
Degree to which the impact may cause irreplaceable loss of resources:	Negligible
Degree to which the impact can be reversed:	Low
Indirect impacts:	Low
Cumulative impact prior to mitigation:	Low-Medium negative
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	High-Medium negative
Degree to which the impact can be avoided:	Medium
Degree to which the impact can be managed:	Visual impact mitigation measures will be dealt with in the Environmental Management Programme ("EMPr"). The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others:  • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.  • Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation.  • The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO.  • Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape.  • Construction only to take place during normal working hours.  • Implementation of the EMPr.
Degree to which the impact can be mitigated:	Probable
Proposed mitigation:	The following measures should be implemented amongst others:  The Contractor shall endeavour to keep noise generating activities to a minimum.  Construction only to take place during normal working hours. No construction on Sundays.  Compliance with the appropriate legislation with respect to noise shall be mandatory.  Implementation of the EMPr.
Residual impacts:	Very Low-negative
Cumulative impact post mitigation:	Medium - Low negative
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low - negative
OPERATIONAL PHASE	I.a
Potential impact and risk:	Visual impact: High-Medium negative
Nature of impact:	Visual impact: High-Medium negative. The development of the mast will have a visual impact because of the height of the mast (30m in height) and is located within an agricultural area of Hemel en Aarde Valley. Hemel en Aarde Scenic Road is located to the north of the site.
Extent and duration of impact:	Local, Permanent
Consequence of impact or risk:	Low-Medium negative
Probability of occurrence:	Definite
Degree to which the impact may cause irreplaceable loss of resources:	Low - negative
Degree to which the impact can be reversed:	Very Likely
Indirect impacts:	Negligible (Possibly during the harvesting season and holiday season).
Cumulative impact prior to mitigation:	Medium - negative

Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Medium - negative
Degree to which the impact can be avoided:	Highly Unlikely (Low)
Degree to which the impact can be managed:	Medium
Degree to which the impact can be mitigated:	Medium
Proposed mitigation:	<ul> <li>Restrict the height of the mast to only 30m;</li> <li>Construct a monopole mast; and</li> <li>Implementation of the EMPr.</li> </ul>
Residual impacts:	Very Low - negative
Cumulative impact post mitigation:	Very Low - negative
Significance rating of impact after mitigation	Medium-Low negative
(e.g. Low, Medium, Medium-High, High, or Very-High)  DECOMMISSIONING AND CLOSURE PHASE	
Potential impact and risk:	The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant.
Nature of impact:	
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	

Alternative 3:	Monopole Mast (30m in height) – Not Preferred
PLANNING, DESIGN AND DEVELOPMENT PHASE	
Potential impact and risk:	Socio-Economic (Low - Positive)
Nature of impact:	Temporary jobs will be created in the construction industry during the construction phase.
Extent and duration of impact:	Local, Duration of construction phase
Consequence of impact or risk:	Low - Positive (temporary job creation)
Probability of occurrence:	Definite
Degree to which the impact may cause irreplaceable loss of resources:	N/A. This is a positive impact
Degree to which the impact can be reversed:	N/A. This is a positive impact
Indirect impacts:	Very - Low - Positive (contribute to temporary construction jobs).
Cumulative impact prior to mitigation:	Low - Positive
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low – Positive
Degree to which the impact can be avoided:	N/A. This is a positive impact. Temporary jobs will be created during the construction phase.
Degree to which the impact can be managed:	N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required.
Degree to which the impact can be mitigated:	N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required.
Proposed mitigation:	N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required.
Residual impacts:	Low – Positive (Temporary jobs to be created during the construction phase).
Cumulative impact post mitigation:	Low - Positive
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low - Positive
OPERATIONAL PHASE	
Potential impact and risk:	Socio-economic aspect (Medium – Positive)

Nature of impact:	The proposed activity will increase the coverage of telecommunications services, including providing a more reliable and wider coverage. The proposed mast will have a positive impact on the socio-economics of the surrounding area as it will provide communication users with the option of faster internet coverage, cheaper cellular rates and available, stable network coverage which could be critical in the case of an emergency.
Extent and duration of impact:	Regional, Long-term  Please see above. The activity will increase the cellular network coverage
Consequence of impact or risk:	within the area. Medium – Positive
Probability of occurrence:	Highly Probable
Degree to which the impact may cause irreplaceable loss of resources:	N/A. Unlikely to cause any loss of resources. This is a positive impact.
Degree to which the impact can be reversed:	N/A. This is a positive impact.
Indirect impacts:	Low — Positive indirect impacts associated with the activity. Improved mobile network coverage within the surrounding area.
Cumulative impact prior to mitigation:	Medium - Positive
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low – Positive
Degree to which the impact can be avoided:	N/A. This is a positive impact that will improve the cellular network coverage within the surrounding area.
Degree to which the impact can be managed:	N/A. This is a positive impact.
Degree to which the impact can be mitigated:	N/A. This is positive impact.
Proposed mitigation:	N/A. This is a positive impact. No mitigation measures required.
Residual impacts:	Low - Positive
Cumulative impact post mitigation:	Low - Positive
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low - Positive
DECOMMISSIONING AND CLOSURE PHASE	
Potential impact and risk:	The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant.
Nature of impact:	
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	

Alternative 3:	Monopole Mast (30m in height) – Not Preferred
PLANNING, DESIGN AND DEVELOPMENT PHASE	
Potential impact and risk:	Heritage and Cultural-Historic Aspects – Due to the site location and nature of the activity, the activity is expected to have a low impact on heritage and cultural-historic aspects.
Nature of impact:	The loss of heritage, cultural or historic aspects during the operational phase
Extent and duration of impact:	Local, Duration of construction phase
Consequence of impact or risk:	Low - Negative
Probability of occurrence:	Probable
Degree to which the impact may cause irreplaceable loss of resources:	Low
Degree to which the impact can be reversed:	Medium
Indirect impacts:	Very – Low Negative
Cumulative impact prior to mitigation:	Low - Negative
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Low - Negative

Degree to which the impact can be avoided:	Medium (Likely)
209/00 to which the impact carries avoided.	If any archaeological remains (including but not limited to fossil
Degree to which the impact can be managed:	bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC.  • Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed.
Degree to which the impact can be mitigated.	Implementation of the EMPr.  Adaptive (Hisab)
Degree to which the impact can be mitigated:  Proposed mitigation:	If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC.  Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed.  Implementation of the EMPr.
Residual impacts:	Negligible
Cumulative impact post mitigation:	Low - Negative
Significance rating of impact after mitigation	¥
(e.g. Low, Medium, Medium-High, High, or Very-High)	Low – Negative
OPERATIONAL PHASE	Heritage and Cultural-Historic Aspects – Due to the site location and nature
Potential impact and risk:	of the activity, the activity is expected to have an impact on heritage and cultural-historic aspects.  The loss of heritage, cultural or historic aspects during the operational
Nature of impact:	phase
Extent and duration of impact:	Local, Duration the operational phase
Consequence of impact or risk:	Low - Negative
Probability of occurrence:	Probable
Degree to which the impact may cause irreplaceable loss of resources:	Low
Degree to which the impact can be reversed:	Medium
Indirect impacts:	Very – Low Negative
Cumulative impact prior to mitigation:	Low - Negative
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Medium - Negative
Degree to which the impact can be avoided:	Medium (Likely)     If any archaeological remains (including but not limited to fossil
Degree to which the impact can be avoided:  Degree to which the impact can be managed:  Degree to which the impact can be mitigated:	bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC.  • Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed.  • Implementation of the EMPr.  Medium (Likely)

Proposed mitigation:	<ul> <li>If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC.</li> <li>Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed.</li> <li>Implementation of the EMPr.</li> </ul>
Residual impacts:	Negligible
Cumulative impact post mitigation:	Low – Negative
Significance rating of impact after mitigation	Low – Negative
(e.g. Low, Medium, Medium-High, High, or Very-High)	
DECOMMISSIONING AND CLOSURE PHASE	The second of th
Potential impact and risk:	The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant.
Nature of impact:	
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation	
(e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation	
(e.g. Low, Medium, Medium-High, High, or Very-High)	Monopole Mast (30m in height) – Not Preferred
Alternative 3:	Monopole Masi (som in neigni) – Noi Fleienea
PLANNING, DESIGN AND DEVELOPMENT PHASE	
Potential impact and risk:	Ecological aspect (negligible)
Nature of impact:	Due to the site location and nature of the activity, the activity is not expected to have any impacts on ecological or biodiversity aspects. The proposed site is not located within a Critical Biodiversity Area ("CBA") or Ecological Support Area ("ESA") and is totally transformed from its natural state due to past development activities on the property. The site contains no indigenous vegetation and is covered with kikuyu grass.
Extent and duration of impact:	Local, Duration of construction phase
Consequence of impact or risk:	Negligible
Probability of occurrence:	Highly Unlikely
Degree to which the impact may cause irreplaceable loss of resources:	Highly Unlikely
Degree to which the impact can be reversed:	Definite
Indirect impacts:	Insignificant
Cumulative impact prior to mitigation:	Negligible
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	Negligible
Degree to which the impact can be avoided:	Low (Highly Likely)
Degree to which the impact can be managed:	The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others:  • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.

	No further encroachment onto the degraded ESA on site,     construction activities to be clearly restricted to demarcated
	<ul> <li>construction area.</li> <li>Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation.</li> <li>The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO.</li> <li>Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape.</li> <li>Construction only to take place during normal working hours.</li> <li>Implementation of the EMPr.</li> </ul>
Degree to which the impact can be mitigated:	Medium
Proposed mitigation:	<ul> <li>The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others: <ul> <li>The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.</li> <li>No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area.</li> <li>Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation.</li> <li>The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO.</li> <li>Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape.</li> <li>Construction only to take during normal working hours.</li> <li>Implementation of the EMPr.</li> </ul> </li> </ul>
Residual impacts:	Negligible
Cumulative impact post mitigation:  Significance rating of impact after mitigation	Negligible
(e.g. Low, Medium, Medium-High, High, or Very-High)  OPERATIONAL PHASE	Negligible
Potential impact and risk:	Due to the site location and nature of the activity, the activity is not expected to have any impacts on ecological or biodiversity aspects during the operational phase.
Nature of impact:	
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:  Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:  Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)  Degree to which the impact can be avoided:  Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:  Residual impacts:	
Cumulative impact post mitigation:	
Comolalive impact post miligation.	

Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
DECOMMISSIONING AND CLOSURE PHASE	
Potential impact and risk:	The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant.
Nature of impact:	
Extent and duration of impact:	
Consequence of impact or risk:	
Probability of occurrence:	
Degree to which the impact may cause irreplaceable loss of resources:	
Degree to which the impact can be reversed:	
Indirect impacts:	
Cumulative impact prior to mitigation:	
Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	
Degree to which the impact can be avoided:	
Degree to which the impact can be managed:	
Degree to which the impact can be mitigated:	
Proposed mitigation:	
Residual impacts:	
Cumulative impact post mitigation:	
Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High)	

Note: The EAP may decide to include this section as Appendix J to the BAR. (This section was added as Appendix J to the BAR).