**IDENTIFICATION, ASSESSMENT AND RANKING OF IMPACTS TO REACH THE PROPOSED ALTERNATIVES INCLUDING THE PREFERRED ALTERNATIVE WITHIN THE SITE**

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| Alternative 1: | **Lattice Mast** - Preferred Alternative: Visual (low-medium negative); Socio-economic (Low positive) |
| Alternative 2: | **Tree Mast**: Visual (Low-medium negative); Socio-economic (Low positive) |
| Alternative 3: | **Monopole Mast**: Visual (Low-medium negative); Socio-economic (Low positive) |
| No-go Alternative: | Socio-economic (Low-negative) |

| **Alternative 1:** | **Proposed 30m high Lattice Mast – (Preferred)** |
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| **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) | **Medium - Low negative** |
| Degree to which the impact can be avoided: | **Medium** |
| Degree to which the impact can be managed: | **The following measures should be implemented amongst others:**<br>• **The Contractor shall endeavour to keep noise generating activities to a minimum.**<br>• **Construction only to take place during normal working hours. No construction on Sundays.**<br>• **Compliance with the appropriate legislation with respect to noise shall be mandatory.**<br>• **Implementation of the EMPr.** |
| Degree to which the impact can be mitigated: | **Medium** |
| Proposed mitigation: | **The following measures should be implemented amongst others:**<br>• **The Contractor shall endeavour to keep noise generating activities to a minimum.**<br>• **Construction only to take place during normal working hours. No construction on Sundays.**<br>• **Compliance with the appropriate legislation with respect to noise shall be mandatory.**<br>• **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** | |
| **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: | |

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| 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 1:** | **Proposed 30m high Lattice Mast – (Preferred)** |
| **PLANNING, DESIGN AND DEVELOPMENT PHASE** | |
| **Potential impact and risk:** | **Visual impact: Medium-negative** |
| 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) | **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:**<br>• **The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.**<br>• **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.**<br>• **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.**<br>• **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.**<br>• **Construction only to take place during normal working hours.**<br>• **Implementation of the EMPr.** |
| Degree to which the impact can be mitigated: | **Probable** |
| Proposed mitigation: | **The following measures should be implemented amongst others:** |

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| | • **The Contractor shall endeavour to keep noise generating activities to a minimum.**<br>• **Construction only to take place during normal working hours. No construction on Sundays.**<br>• **Compliance with the appropriate legislation with respect to noise shall be mandatory.**<br>• **Implementation of the EMPr.** |
| Residual impacts: | **Very Low-negative** |
| 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:** | **Visual impact: Medium-negative** |
| Nature of impact: | **The development of the mast will most probably have a visual impact because of the height of the mast (30m in height) located within an agricultural area of Aan De Doorns, Worcester.** |
| 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: | • **Restrict the height of the mast to only 30m;**<br>• **Construct a lattice mast; and**<br>• **Implementation of the EMPr.** |
| Residual impacts: | **Very Low - negative** |
| Cumulative impact post mitigation: | **Very 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: | |
| 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 1:** | **Proposed 30m high Lattice 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** |

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| 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: | |

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| 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 Lattice Mast – (Preferred)** |
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| **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 not expected to have any impacts 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: | **Very Low - negative** |
| Probability of occurrence: | **Highly unlikely, no cultural or historic aspects of significance were identified on site.** |
| Degree to which the impact may cause irreplaceable loss of resources: | **Highly Unlikely** |
| Degree to which the impact can be reversed: | **N/A** |
| Indirect impacts: | **Negligible; activity unlikely to have a negative indirect impact** |
| 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) | **Very - Low Negative** |
| Degree to which the impact can be avoided: | **Low (Likely)** |
| Degree to which the impact can be managed: | • **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.**<br>• **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.**<br>• **Implementation of the EMPr.** |
| Degree to which the impact can be mitigated: | **Medium (Likely)** |
| 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.**<br>• **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.**<br>• **Implementation of the EMPr.** |
| Residual impacts: | **Negligible** |
| Cumulative impact post mitigation: | **Very Low - Negative** |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | **Negligible** |
| **OPERATIONAL PHASE** | |
| **Potential impact and risk:** | **No heritage or cultural aspects are expected to be impacted during the operational phase since no cultural or historic aspects were identified on site.** |
| 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: | |

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| 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 1:** | **Proposed 30m high Lattice Mast – (Preferred)** |
| **PLANNING, DESIGN AND DEVELOPMENT PHASE** | |
| **Potential impact and risk:** | **Ecological aspect** |
| 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. Even though the site is located within a degraded ESA, the activity will have no impact on the ESA as the site is totally transformed from its natural state due to past development activities on the property.** |
| 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:**<br>• **The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.**<br>• **No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area.**<br>• **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.** |

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| | • **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.**<br>• **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.**<br>• **Construction only to take place during normal working hours.**<br>• **Implementation of the EMPr.** |
| 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:**<br>• **The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.**<br>• **No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area.**<br>• **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.**<br>• **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.**<br>• **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.**<br>• **Construction only to take during normal working hours.**<br>• **Implementation of the EMPr.** |
| 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** | |
| **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: | |

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| 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:** | **Tree Mast** |
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| **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 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: | **Lo-negative** |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | **Medium – Low negative** |
| Degree to which the impact can be avoided: | **Medium** |
| Degree to which the impact can be managed: | **The following measures should be implemented amongst others:**<br>• **The Contractor shall endeavour to keep noise generating activities to a minimum.**<br>• **Construction only to take place during normal working hours. No construction on Sundays.**<br>• **Compliance with the appropriate legislation with respect to noise shall be mandatory.**<br>• **Implementation of the EMPr.** |
| Degree to which the impact can be mitigated: | **Medium** |
| Proposed mitigation: | **The following measures should be implemented amongst others:**<br>• **The Contractor shall endeavour to keep noise generating activities to a minimum.**<br>• **Construction only to take place during normal working hours. No construction on Sundays.**<br>• **Compliance with the appropriate legislation with respect to noise shall be mandatory.**<br>• **Implementation of the EMPr.** |
| Residual impacts: | **Negligible** |

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| 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:** | **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) | |

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| **Alternative 2:** | **Tree Mast** |
| **PLANNING, DESIGN AND DEVELOPMENT PHASE** | |
| **Potential impact and risk:** | **Visual impact: Medium-negative** |
| 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) | **Medium - negative** |
| Degree to which the impact can be avoided: | **Medium** |

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| 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:**<br>• **The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.**<br>• **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.**<br>• **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.**<br>• **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.**<br>• **Construction only to take place during normal working hours.**<br>• **Implementation of the EMPr.** |
| Degree to which the impact can be mitigated: | **Probable** |
| Proposed mitigation: | **The following measures should be implemented amongst others:**<br>• **The Contractor shall endeavour to keep noise generating activities to a minimum.**<br>• **Construction only to take place during normal working hours. No construction on Sundays.**<br>• **Compliance with the appropriate legislation with respect to noise shall be mandatory.**<br>• **Implementation of the EMPr.** |
| Residual impacts: | **Very Low-negative** |
| 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:** | **Visual impact: Medium-negative** |
| Nature of impact: | **The development of the mast will most probably have a visual impact because of the height of the mast (30m in height) located within an agricultural area of Aan De Doorns, Worcester.** |
| 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: | • **Restrict the height of the mast to only 30m;**<br>• **Construct a lattice mast; and**<br>• **Implementation of the EMPr.** |
| Residual impacts: | **Very Low - negative** |
| Cumulative impact post mitigation: | **Very 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: | |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |

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| 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:** | **Tree Mast** |
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| **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.** |

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| 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) | |

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| **Alternative 2:** | **Tree Mast** |
| **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 not expected to have any impacts 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: | **Very Low - negative** |
| Probability of occurrence: | **Highly unlikely, no cultural or historic aspects of significance were identified on site.** |
| Degree to which the impact may cause irreplaceable loss of resources: | **Highly Unlikely** |
| Degree to which the impact can be reversed: | **N/A** |
| Indirect impacts: | **Negligible; activity unlikely to have a negative indirect impact** |
| 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) | **Very - Low Negative** |
| Degree to which the impact can be avoided: | **Low (Likely)** |
| Degree to which the impact can be managed: | • **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.**<br>• **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.**<br>• **Implementation of the EMPr.** |
| Degree to which the impact can be mitigated: | **Medium (Likely)** |
| 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** |

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| | **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.**<br>• **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.**<br>• **Implementation of the EMPr.** |
| Residual impacts: | **Negligible** |
| Cumulative impact post mitigation: | **Very Low - Negative** |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | **Negligible** |
| **OPERATIONAL PHASE** | |
| **Potential impact and risk:** | **No heritage or cultural aspects are expected to be impacted during the operational phase since no cultural or historic aspects were identified on site.** |
| 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 2:** | **Tree Mast** |
| **PLANNING, DESIGN AND DEVELOPMENT PHASE** | |
| **Potential impact and risk:** | **Ecological aspect** |
| 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. Even though the site is located within a degraded ESA, the activity will have no** |

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| | **impact on the ESA as the site is totally transformed from its natural state due to past development activities on the property.** |
| 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:**<br>• **The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.**<br>• **No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area.**<br>• **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.**<br>• **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.**<br>• **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.**<br>• **Construction only to take place during normal working hours.**<br>• **Implementation of the EMPr.** |
| 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:**<br>• **The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.**<br>• **No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area.**<br>• **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.**<br>• **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.**<br>• **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.**<br>• **Construction only to take during normal working hours.**<br>• **Implementation of the EMPr.** |
| 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** | |

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| **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) | |

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| **Alternative 3:** | **Monopole Mast** |
| **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) | **Medium - Low negative** |
| Degree to which the impact can be avoided: | **Medium** |
| Degree to which the impact can be managed: | **The following measures should be implemented amongst others:**<br>• **The Contractor shall endeavour to keep noise generating activities to a minimum.** |

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| | • **Construction only to take place during normal working hours. No construction on Sundays.**<br>• **Compliance with the appropriate legislation with respect to noise shall be mandatory.**<br>• **Implementation of the EMPr.** |
| Degree to which the impact can be mitigated: | **Medium** |
| Proposed mitigation: | **The following measures should be implemented amongst others:**<br>• **The Contractor shall endeavour to keep noise generating activities to a minimum.**<br>• **Construction only to take place during normal working hours. No construction on Sundays.**<br>• **Compliance with the appropriate legislation with respect to noise shall be mandatory.**<br>• **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** | |
| **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) | |

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| **Alternative 3:** | **Monopole Mast** |

| PLANNING, DESIGN AND DEVELOPMENT PHASE | |
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| **Potential impact and risk:** | **Visual impact: Medium-negative** |
| 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) | **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:**<br>• **The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.**<br>• **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.**<br>• **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.**<br>• **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.**<br>• **Construction only to take place during normal working hours.**<br>• **Implementation of the EMPr.** |
| Degree to which the impact can be mitigated: | **Probable** |
| Proposed mitigation: | **The following measures should be implemented amongst others:**<br>• **The Contractor shall endeavour to keep noise generating activities to a minimum.**<br>• **Construction only to take place during normal working hours. No construction on Sundays.**<br>• **Compliance with the appropriate legislation with respect to noise shall be mandatory.**<br>• **Implementation of the EMPr.** |
| Residual impacts: | **Very Low-negative** |
| 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:** | **Visual impact: Medium-negative** |
| Nature of impact: | **The development of the mast will most probably have a visual impact because of the height of the mast (30m in height) located within an agricultural area of Aan De Doorns, Worcester.** |
| 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** |

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| Proposed mitigation: | • **Restrict the height of the mast to only 30m;**<br>• **Construct a lattice mast; and**<br>• **Implementation of the EMPr.** |
| Residual impacts: | **Very Low - negative** |
| Cumulative impact post mitigation: | **Very 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: | |
| 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** |
| **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** |

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| 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) | |

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| **Alternative 3:** | **Monopole Mast** |
| **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 not expected to have any impacts 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: | **Very Low - negative** |
| Probability of occurrence: | **Highly unlikely, no cultural or historic aspects of significance were identified on site.** |
| Degree to which the impact may cause irreplaceable loss of resources: | **Highly Unlikely** |
| Degree to which the impact can be reversed: | **N/A** |
| Indirect impacts: | **Negligible; activity unlikely to have a negative indirect impact** |
| 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) | **Very - Low Negative** |
| Degree to which the impact can be avoided: | **Low (Likely)** |
| Degree to which the impact can be managed: | • **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** |

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| | **immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC.**<br>• **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.**<br>• **Implementation of the EMPr.** |
| Degree to which the impact can be mitigated: | **Medium (Likely)** |
| 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.**<br>• **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.**<br>• **Implementation of the EMPr.** |
| Residual impacts: | **Negligible** |
| Cumulative impact post mitigation: | **Very Low - Negative** |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | **Negligible** |
| **OPERATIONAL PHASE** | |
| **Potential impact and risk:** | **No heritage or cultural aspects are expected to be impacted during the operational phase since no cultural or historic aspects were identified on site.** |
| 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: | |

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| 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** |
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| **PLANNING, DESIGN AND DEVELOPMENT PHASE** | |
| **Potential impact and risk:** | **Ecological aspect** |
| 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. Even though the site is located within a degraded ESA, the activity will have no impact on the ESA as the site is totally transformed from its natural state due to past development activities on the property.** |
| 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:**<br>• **The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.**<br>• **No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area.**<br>• **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.**<br>• **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.**<br>• **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.**<br>• **Construction only to take place during normal working hours.**<br>• **Implementation of the EMPr.** |
| 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:**<br>• **The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated.**<br>• **No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area.**<br>• **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.**<br>• **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** |

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| | **completed. The construction site must be cleared and cleaned to the satisfaction of the ECO.**<br>• **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.**<br>• **Construction only to take during normal working hours.**<br>• **Implementation of the EMPr.** |
| 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** | |
| **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) | |