

## Internal Impact and Scope of Work Assessment to motivate or discourage an Environmental Impact Study

### Scope of work

The locating, establishing, constructing, maintaining, repairing, and operating a fibre optic network and networking equipment by means of existing servitudes within the area known as Farm Grootfontein 394-JR, also containing areas known as Rietvlei View Country Estates and Grootfontein Country Estates.

Two types of infrastructure have been considered and will be deployed where economically and technically appropriate to do so.

Type A: The installation and maintenance of buried fibre optic conduit, cable, required infrastructure and enclosures located within the already established 'Servitude of Right of Way in Favour of The General Public' but not within private residences or spaces. Such infrastructure shall be classified as an electronic telecommunications facility as outlined in the electronic communications act of 2014.

Type B: The installation and maintenance of wooden poles, aerial fibre optic cable, required infrastructure and enclosures located within the already established 'Servitude of Right of Way in Favour of The General Public' but not within private residences or spaces. Such infrastructure shall be classified as an electronic telecommunications facility as outlined in the electronic communications act of 2014.

### Factors and estimated outcomes considered

Resource Category	Impact Evaluation
Noise	<ul style="list-style-type: none"> <li>• Temporary construction-related noise during daytime hours</li> <li>• Not anticipated to exceed current traffic-related noise</li> <li>• No significant direct impacts</li> <li>• No indirect or secondary impacts</li> </ul>
Air Quality	<ul style="list-style-type: none"> <li>• Temporary emissions from hand-held construction equipment</li> <li>• No new stationary GHG sources</li> <li>• No significant direct impacts</li> <li>• No indirect or secondary impacts</li> </ul>
Climate, Greenhouse Gases and Global Warming	<ul style="list-style-type: none"> <li>• Minor, short-term increase of GHG emissions resulting from hand-held construction equipment</li> <li>• GHG emissions do not exceed presumptive effects threshold</li> <li>• No significant direct, indirect or secondary impacts</li> </ul>
Geology and Soils	<ul style="list-style-type: none"> <li>• No direct or indirect conversion of farmland, roads, paths or public/private ways</li> </ul>

	<ul style="list-style-type: none"> <li>• Minor direct ground disturbance impacts in the form of trenching and holes dug for the placement of poles</li> <li>• Ground disturbance shall be:             <ul style="list-style-type: none"> <li>o Limited to portions defined as ‘Servitude of Right of Way in Favour of The General Public’</li> <li>o Limited to previously disturbed areas</li> <li>o Limited, previously-disturbed areas would be disturbed at any one time</li> <li>o Erosion and sedimentation best management practices would be followed</li> <li>o Disturbed areas would be restored to preconstruction condition</li> </ul> </li> <li>• No indirect or secondary impacts, regardless of ground disturbance</li> </ul>
Water Resources	<ul style="list-style-type: none"> <li>• No significant direct or indirect impacts due to minor ground disturbance and pre-identified utility locations</li> <li>• In the event of ground and utility disturbance:             <ul style="list-style-type: none"> <li>o Industry-standard best management practices for conduit and pipe repair/replacement</li> <li>o Tshwane Public Works for Water and Sanitation to be notified and best management practices followed for repairing underground conduit in public water supply</li> </ul> </li> <li>• No impact to known rivers, streams, dams, wetlands, watercourses, aquifers, or flood hazard zones</li> </ul>
Biological Resources	<ul style="list-style-type: none"> <li>• No significant direct, indirect or secondary impact to wildlife or protected vegetation</li> <li>• All work within existing Servitudes</li> <li>• All work within existing occupied peri-urban environment</li> <li>• No endangered or threatened species or associated habitat present in the project area</li> <li>• In the event that a bird nest is encountered and must be disturbed to install fibre:             <ul style="list-style-type: none"> <li>o Confirm bird species by a wildlife biologist or ornithologist</li> <li>o Act based on wildlife biologist or ornithologist advise</li> </ul> </li> </ul>
Historical and Cultural Resources	<ul style="list-style-type: none"> <li>• No significant direct or indirect impacts due to limited ground disturbance</li> <li>• Project area is a working farm historically with no known marked sites of significance</li> <li>• If earth disturbing activities uncover cultural materials (i.e. structural remains, historic artifacts, or prehistoric artifacts), work shall cease and Tshwane Public Works/University of</li> </ul>

	Pretoria Anthropology & Archaeology department to be notified immediately
Aesthetics and Visual Resources	<ul style="list-style-type: none"> <li>• No significant deviation from the current established area infrastructure</li> <li>• Existing utility poles present, used to facilitate the distribution of electrical services</li> <li>• Existing utility poles used as a deployment guide for fibre poles to maintain the existing aesthetic value of the area</li> <li>• In areas where trenching to be conducted, ground to be returned to its previous state, no more intrusive than existing utility installations</li> </ul>
Land Use	<ul style="list-style-type: none"> <li>• No significant direct impacts</li> <li>• Minor temporary impacts during fibre installation</li> <li>• Work within existing servitudes for the general right of way and public services will not alter land use</li> <li>• No indirect or secondary impacts</li> <li>• No limiting, obstruction, entering of private property</li> </ul>
Infrastructure	<ul style="list-style-type: none"> <li>• No significant direct, indirect or secondary adverse impacts</li> <li>• Project utilizes existing servitudes for the general right of way and public services</li> <li>• No anticipated impact to waste disposal services due to limited construction and demolition waste</li> <li>• Beneficial impact to local broadband communication infrastructure</li> <li>• Beneficial impact to critical infrastructure/key resource addition for local residents</li> </ul>
Socioeconomic Resources	<ul style="list-style-type: none"> <li>• No significant negative direct, indirect or secondary adverse impacts</li> <li>• No disproportionate impacts to environmentally sensitive populations</li> <li>• Significant improvement to reducing the “digital divide”</li> <li>• Anticipated direct and indirect economic benefits, including creation of jobs</li> </ul>
Human Health and Safety	<ul style="list-style-type: none"> <li>• No significant direct, indirect, or secondary impacts</li> <li>• Contact with hazardous waste unlikely and only in event of extensive ground disturbance</li> <li>• No known health issues associated with fibre optic cable</li> <li>• Worker safety standards and procedures adhered to</li> </ul>
Cumulative Effects	<ul style="list-style-type: none"> <li>• Minor cumulative effect to utility infrastructure. The addition of poles, ducting</li> </ul>

	and fibre cables will result in less available space for future cables and utilities <ul style="list-style-type: none"><li>• Beneficial cumulative impacts to public health and safety and socioeconomic resources across the population</li></ul>
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Based on the above considered factors and their effects it is determined that the project will have no significant impact on the environment nor will the project have significant negative impact on local stake holders.

It is therefore considered that no third-party environmental impact assessment is required due to the low sensitivity of the area in question as well as the low impact of works to be carried out.