

EVALUERINGSVERSLAG

Ingevolge Artikels 56, 65 & 66 van die Langeberg Munisipaliteit: Verordening op Grondgebruikbeplanning (PK 264/2015, 30 Julie 2015)

AANSOEK: VERGUNNINGSGEBRUIK: VRYSTAANDE-BASIS TELEKOMMUNIKASIESTASIE (VBTS) OP ERF 139, MONTAGU

Verwysingsnommer	15/4/8/5 (MON139)	Aansoekdatum	11/04/2023	Verslagdatum:	25/11/2024
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DEEL A: SKRYWER BESONDERHEDE

Naam	Jack van Zyl				
Postitel	Senior Stadsbeplanner				
SACPLAN registrasienommerr	A/1170/2000				

DEEL B: BESONDERHEDE VAN EIENDOM

Eiendomsbeskrywing (volgens Titellakte)	Restant Erf 139				
Fisiese adres	Hv Langstraat en Du Toitstraat		Dorp	Montagu	
Huidige sonering	Gemeenskapsone I	Grootte	4.3913Ha	Is daar bestaande geboue op die eiendom?	JA NEE
Toepaslike soneringskema	Langeberg Munisipaliteit Geïntegreerde Soneringskema, 2018 (LIZS)				
Huidige grondgebruik	Laerskool met sportgronde		Titellaktenommer en -datum	T13898/1969 & T107938/2002 (oordrag per endossement)	
Enige beperkende titelvoorwaardes van toepassing?	JA	NEE	Indien JA. lys voorwaarde nommer(s)		
Enige 3de party voorwaardes van toepassing?	JA	NEE	Indien JA, beskryf.		

Enige ongemagtigde grondgebruik / bouwerk?	JA	NEE	Indien JA, verduidelik
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DEEL C: BESKRYWING VAN AANSOEK

Aansoek ingevolge Artikel 15 van die Langeberg Munisipaliteit: Verordening op Grondgebruikbeplanning, 2015 vir 'n vergunning vir 'n Vrystaande basis-telekommunikasiestasie (VBTS) in Gemeenskapsone I op Erf 139, Montagu

Aansoek word ook gedoen vir afwykings van die ontwikkelingsparameters vir Plek van Onderrig ten opsigte van die boulyne en hoogtebeperking. Dié aansoek vir afwykings is egter nie nodig nie, aangesien 'n VBTS aan sy eie ontwikkelingsparameters sal onderhewig wees en nie aan die parameters vir die skool (Plek van onderrig) nie (vergelyk Artikel 20(1) van die LIZS). Die ontwikkelingsparameters vir 'n VBTS is "dieselfde as vir Nutsdiens", wat weer voorgeskryf word as: "soos bepaal deur die Munisipaliteit". Gepaste parameters soos byvoorbeeld hoogtebeperking en boulyne moet dus saam met die wenslikheid van die voorstel oorweeg en neergelê word in geval van goedkeuring.

DEEL D: AGTERGROND & OPSOMMING VAN AANSOEKER SE MOTIVERING

Die voorstel is om 'n 25m hoë selfoonmas, wat soos 'n denneboom kamoefleer sal wees, in die suid-westelike hoek van die Laerskool Montagu-perseel op te rig, 15m vanaf die suidelike erfgrens en op die westelike erfgrens. Volgens die aansoeker se beskrywing sal die mas en twee 2.4m x 2.8m toerustinghouers binne 'n 2.4m hoë 'n staalpallisade omheining van 6.3m x 3.2m geplaas word. Die afmetings in die beskrywing stem naasteby ooreen met die vloeruitlegplan van die grondvloer wat verskaf is (in Bylae C tot die aansoek). (Die aansigplanplan verskil daarvan deurdat dit die mas en 2 toerustingkamers binne 'n 2.4m hoë vraghouer met afmetings van 6.5m x 3.2m toon, met buitemuurse toerusting en 'n 1.5m hoë staalpallisade-heining bo-op).

Die 6.5m lange sy van die omheining / vraghouer sal op die straatgrens in Du Toitstraat wees, met direkte 2.4m wye toegang vanaf die straat. Die vraghouer en staalpallisade word donkergroen geverf. Die **ligging- en aansigplanne** word in **Bylae 1** aangeheg.

Die aansoeker motiveer die voorstel aan die hand van die volgende (volledige **motiveringsverslag** aangeheg in **Bylae 2**):

- Doel is om dekking te verbeter om optimale en doeltreffende data- / stemdekking aan die omliggende gemeenskap in die Montagu-gebied te voorsien.
- Bevolkingstoename in Montagu veroorsaak groter behoefte.
- Klein sakeondernemings het toenemend 'n behoefte aan betroubare internetverbinding, vir elektroniese betalings wat via die internet gedoen word (kaartmasjiene).
- Die dekkingsareas van sellulêre telekommunikasietegnologie is besig om te verklein met die toepassing die jongste tegnologie, en addisionele behoefte aan verhoogde dataspoed en stemkwaliteit.
- Die voorstel sal nie 'n impak op die ontwikkelingsparameters van die LIZS soos parkering, dekking en vloerfaktor hê nie.
- Gekose perseel is volgens 'n spesifieke stel ingenieurswese reëls en - beginsels identifiseer as 'n prima ligging, om die volgende redes:
 - Optimale ligging tussen bestaande en beplande stasies (Geen 5G dekking deur 2 hoof diensverskaffers (MTN en Vodacom))
 - Geografiese kenmerke is geskik
 - Minimale fisiese, natuurlike en visuele impak
 - Vermoë om aantal stasies in die omliggende omgewing te verminder
 - Goeie sekuriteit
 - Geleentheid om infrastruktuur tussen diensverskaffers te deel

- Voldoende ruimte beskikbaar.

- g) Geen titelbeperkings
- h) Geen gesondheidsgefare. Selfoonmaste gebruik nie-ioniserende bestraling, wat volgens die Wêreld Gesondheidsorganisasie en SA Dept Gesondheid, Direktoraat Radiobeheer, nie enige bewese gesondheidsgefare vir die publiek inhou nie. 'n Opname in Gauteng ten opsigte van die bestraling deur 5G infrastruktuur, word voorgehou as verdere ondersteuning.
- i) Sal nie impak op huidige en omliggende gebruike hê nie.
- j) Elektrisiteit kan vanaf bestaande (skool) aansluiting verkry word en alle installasies kan volgens munisipale vereistes gedoen word.
- k) Visuele impak word geminimaliseer deur voorgestelde kamoeflering. Munisipaliteit kan ook enige ander versagende maatreëls vereis, ten opsigte van die ontwerp en hoogte van die mas.
- l) Goeie toegang en min verkeersimpak.
- m) Voldoen aan beginsels van SPLUMA en LUPA

DEEL E: OPSOMMING VAN OPENBARE DEELNAME

Word openbare deelname ingevolge Artikels 45- 49 van die verordening vereis?

JA

NEE

Waar deelname vereis word, noem manier van advertering,

Pers

Kennisgewings

Wyksraadslede

Ander

DEEL F: OPSOMMING VAN KOMMENTAAR ONTVANG GEDURENDE OPENBARE DEELNAME (indien van toepassing)

Daar is **31 besware** van die algemene publiek ontvang binne die voorgeskrewe tydperk vir kommentaar (aangeheg in **Bylae 3**).

Die besware is breedweg gebaseer op die volgende:

1. Inbraak op privaatheid
2. Verwagte negatiewe visuele impak op perseel
3. Afbreuk aan karakter van dorp, met gevolglike negatiewe impak op toerisme, ekonomie en welstand van inwoners
4. Gesondheidsgefare (fisies en sielkundig) van mikrogolfbestraling, veral vir laerskoolkinders. Beswaarmakers betwis die standpunt van Dept Gesondheid en Wêreld Gesondheidsorganisasie (WHO), gebaseer op verskeie ander navorsingsartikels wat aangehaal word en wat ondermeer beweer dat die studies waarop dié standpunt gebaseer is, verouderde data bevat en nie die volledige kumulatiewe impak van selfoontorings ondersoek het nie.
5. Invloed op die natuurlike omgewing, soos voëls en plantegroei in die omgewing, wat ook kan bydra tot negatiewe impak op toerisme en ekonomie van dorp.
6. Daar is ander, meer geskikte persele buite die dorpsgebied waar die impak op mense minder sal wees.
7. Noodsaaklikheid van nog 'n toring word bevraagteken.
8. Waarde van eiendom naby aan die toring gaan benadeel word.
9. Onvoldoende openbare deelname. Een beswaarmaker wil hê daar moet eers openbare vergadering met inwoners wees. Ander beswaarmaker beweer ouers se mening oor die oprig van 'n seltoring by die skool is by 'n vorige geleentheid gevra en die meeste het teen dit gestem. Daar is toe nie voortgegaan met die huurooreenkoms nie. Nou is ouers egter nie weer gevra nie en baie weet moontlik nie van die aansoek nie.
10. Een beswaarmaker verwys na die werklike behoefte vir die toring as deel van 'n komplot deur groot korporasies om netwerke vir sogenaamde "smart control" van die samelewing te skep.

Die **aansoeker** kategoriseer die besware in groepe, te wete (i) omgewingsimpakte (visueel, geografies, ens.), (ii) diensverskaffing, (iii) kommer oor gesondheid en (iv) ander verwante besware en reageer dienoreenkomstig as volg daarop (verkorte weergawe hieronder; volledige **kommentaar** verskyn in **Bylae 4**):

Environmental (Visual, noise, protected areas)

Acknowledges that the application will have a visual impact, but new development will inevitably have a visual impact. The mast location is determined not only by its visual impact, but also by functionality. The proposed mast is ideally placed in terms of various criteria, such as height above sea level, proximity to larger transmission towers outside of town, location with relation to network users, availability of property.

The proposed development is aligned with all the EIA regulations and related listing notices. It falls inside the urban area of Montagu and does not trigger any listed activities in terms of the NEMA Regulations

Services Provision

All network providers will be able to make use of the proposed infrastructure. Wireless services, and underground options still require transmission from one area to the next. It should be noted that telecommunications service provision, similar to electricity provision is a general public service. The proposed infrastructure for telecommunications does not only serve the residents of Montagu. Visitors to the area, businesses and daily commuters will benefit by having access to improved communication facilities.

Health

Refer to Department of Health in a statement dated 19 January 2018 on the Health Effects of cellular communications base stations states that : " ...there is no convincing scientific evidence that the weak RF signals from base stations and wireless networks cause adverse health effects". A WHO fact sheet that was published in June 2011 and reviewed in October 2014 concluded that, based on a large number of studies on the subject: "...to date, no adverse health effects have been established as being caused by mobile phone use." In its statement, Department of Health confirmed that they are "satisfied that the health of the general public is not being compromised by their exposure to the microwave emissions of cellular base stations" and stated that "this also means that local and other authorities, in considering the environmental impact of any particular base station, do not need to and should not attempt, from a public health point of view, to set any restrictions with respect to parameters such as distance to the mast, duration of exposure, height of the mast, etc."

The applicant is therefore of the opinion that health related aspects regarding the proposed base station were taken into consideration and that this proposal will not be in violation of any individual's constitutional right to an environment that is not harmful to their health or general wellbeing.

The Directorate: Radio Control, within the South African Health Products Regulatory Authority (SAHPRA) is the responsible authority regulating cellular base-station effects on health and they confirmed that there are no health dangers related to freestanding base telecommunication station/ cell masts.

General

Base station will have a positive contribution on the immediate area of Montagu, commuters, visitors as well as the surrounding community: • This application is by no means a careless act as health and environmental aspects are taken into consideration with associated proof that this development holds no threat for inhabitants and/or commuters. Most households in the surrounding area depend on the services of the cellular telecommunications providers, including internet and social networking media (Facebook, Twitter etc.). With such a high demand for their products, it follows that service providers are responsible for supplying a high level of network coverage.

DEEL G: OPSOMMING VAN KOMMENTAAR VANAF STAATSINSTELLINGS EN/OF MUNISIPALE DEPARTEMENTE (indien van toepassing)

Elektriese Ingenieursdienste

Die verslag gee geen aanduiding van die hoeveelheid krag wat nodig word nie. Die aansoeker moet asseblief hierdie inligting deurgee sodat ons kan adviseer rakende die beskikbaarheid van voldoende dienste in die area. *[Dié versoek is deurgegee aan die aansoeker, maar geen inligting is ontvang nie. Die aansoeker het wel in die aansoek aangedui dat die bestaande dienste-aansluitings gebruik sal word. Daar word dus aanvaar dat geen opgradering van munisipale dienste-aansluitings nodig sal wees nie].*

Siviele Ingenieursdienste

In beginsel geen beswaar, op voorwaarde dat:

1. Die bestaande water- en rioolaansluitings sal behou bly.
2. Indien 'n nuwe afsonderlike toegang voorsien moet word, sal alle koste hieraan verbonde vir die aansoeker se rekening wees.

Brand- en rampbestuur

Geen kommentaar ontvang

Verkeersdienste

No objection

Boubeheer

1. Approvals: Building Control has reviewed your proposal and has no objections.
2. Any new structures or changes to existing structures must undergo thorough inspections to ensure compliance with structural integrity and safety requirements.
3. Proposed changes must align with the accessibility requirements outlined in the National Building Regulations, ensuring equitable access for all as necessary.
4. Fire safety measures and systems must meet or exceed the standards set by the National Building Regulations to ensure the safety of occupants.
5. Before any Building work, alterations to - and/or use of existing buildings may be started on the property, Building plans must be submitted to and approved by Langeberg Municipality's Building Control Department prior to construction as applicable.

The above includes both proposed new building work and "as-built" building work. Any further developments or alterations must fully adhere to all aspects of the National Building Regulations and approval of this application may not be deemed to be an exemption thereof.

Kaapse Wynland Distriksmunisipaliteit

No objection, subject to approval from Langeberg Municipality regarding the provision of basic services and related matters.

Health nuisance / Risk: The application must comply with the requirements of Cape Winelands District Municipality By-laws Gazette 16 February 2010 and make sure any activity taking place at Erf 139 Long Street Montagu does not create any form of health nuisance.

Wyksraadslid Wyk 7

Geen kommentaar ontvang.

DEEL H: MUNISIPALE BEPLANNINGSEVALUERING (Verwys na Riglyne vir Tersaaklike Oorwegings)

Die beplanningsevaluasie van die aansoek is gegrond op die tersaaklike oorwegings ("relevant considerations") soos uiteengesit in the Wes-Kaapse Departement van Omgewingsake en Ontwikkelingsbeplanning se riglyndokument. 'n Verkorte weergawe van die verduideliking van die begrip "relevant considerations" word aangeheg in Bylae 5.

WENSLIKHEID

Versoenbaarheid met ruimtelike planne

Die Langeberg Ruimtelike Ontwikkelingsraamwerk, (LSDF), 2015 maak nie detail voorstelle vir grondgebruike binne dorpe nie, maar verwys net na voorgestelde stedelike ontwikkeling in die algemeen. Insoverre dit deel vorm van stedelike ontwikkeling, is die voorstel wel versoenbaar met die LSDF.

Sosio-ekonomiese impak

Die oprigting van die VBTS hou ekonomiese voordele in vir die maatskappy wat dit bedryf, sowel as 'n ekstra bron van inkomste vir die skool (R4800 per maand, volgens die Beheerliggaam notule wat by die aansoek ingesluit was) In dié opsig sal dit dus 'n klein ekonomiese voordeel inhou.

Die beswaarmakers voer aan dat die selfoortoring sodanig sal afbreuk doen aan die karakter van die omgewing en die dorp in die algemeen dat dit 'n negatiewe impak op toerisme as ekonomiese sektor kan hê.

Verder word ook aangevoer dat die teenwoordigheid van 'n selfoontoring die waarde van nabygeleë eiendomme negatief kan beïnvloed.

Skaal van kapitale investering

Die oprigting van 'n VBTS is 'n relatief groot kapitale investering. Dit bestaan egter meerendeels uit komponente wat elders vervaardig word en deur kundiges van buite die streek installeer word. Die investering sal dus weinig voordeel vir die plaaslike ekonomie inhou.

Versoenbaarheid met omliggende gebruike en karakter van area

Die area onmiddellik rondom die voorgestelde ligging het 'n oorwegend oopruimte-karakter, soos bepaal deur die Kingnarivier-oopruimtestrook (50m - 90m breed) direk suid daarvan, die skool se sportvelde aan die noorde- en oostekant en nog 'n sportveld oorkant die straat aan die westekant. Grondgebruike rondom dié oopruimtes sluit in residensiële na die weste- en suidekant, landbou na die oostekant, sake na die noordweste en die skoolgebou aan die noordekant. Die naaste woonhuise is meer as 100m weg. Sien onderstaande lugfoto.



Die voorgestelde VBTS word beskou as stedelike infrastruktuur wat redelik verwag kan word in verspreide liggings binne die dorpsgebied en definieer op sigself nie die grondgebruikpatroon en -karakter van die gebied nie. Dit sal na verwagting nie inbreuk maak op die karakter van die omliggende omgewing nie, inaggenome dat die visuele impak daarvan reeds beperk sal wees deur die geïsoleerde ligging en bestaande bome in die omgewing, wat verder versag kan word indien die hoogte en ontwerp van die toring en die grondtoerusting beheer word.

Die aansoekperseel is geleë in Area A van die die Montagu Stedelike Bewaringsgebied Oorlegsone, soos van toepassing ingevolge die soneringskema. Die doel van die oorlegsone is om die historiese en argitektoniese karakter van die dorp te beskerm en te bewaar en spesifiek vir Area A om:

- (i) die karakter te behou van vistas wat ervaar word met aankoms in die dorp vanaf Cogmanskloof;
- (ii) die landbousonering van die grond tussen Langstraat en Van Riebeeckstraat te behou;
- (iii) die voorkoms ("*features*") van die ou "watererwe" te behou en te verbeter;
- (iv) die huidige Langstraat omgewing te verbeter d.m.v. 'n boomplantprogram om bome te vervang wat in die verlede tydens 'n padverbredingsprojek verwyder is;
- (v) die grondgebruikpatroon en digtheid van ontwikkeling te bewaar, veral aan die noordekant van Langstraat en tussen Langstraat en die Kingnarivier

Die voorstel sal nie die enige van die doelwitte van die bewaringsarea benadeel nie. Die LIZS maak voorsiening vir 'n Estetiese Komitee as adviserende liggaam wat aanbevelings kan maak oor alle aspekte van ontwikkeling in die Bewaringsgebied-oorlegsone. In die lig daarvan dat hierdie slegs 'n vergunningsgebruik aansoek is in 'n ligging waar geen historiese geboue of – omgewingskarakter beïnvloed word nie en die visuele impak min sal wees, is die Estetiese Komitee nie op aansoekstadium om kommentaar genader nie.

Impak op eksterne ingenieursdienste

Geen verandering aan die eksterne ingenieursdienste word verlang nie en die Departement Siviele Ingenieursdienste het geen vereistes vir die opgradering van dienste gestel nie. Die aansoeker het nie aangedui wat presies die behoefte vir elektrisiteit is nie, maar wel dat krag vanaf die bestaande elektriese aansluiting van die skool voorsien kan word. Daar word dus aanvaar dat geen addisionele elektriese kapasiteit verlang word nie. Indien die aansoek toegestaan word, sal dit onderhewig moet wees aan 'n voorwaarde in dié verband.

Impak op veiligheid, gesondheid en welstand van die omliggende gemeenskap en op die lewenskwaliteit van die inwoners in die onmiddellike omgewing

Veiligheid en gesondheid

Volgens inligting van die Departement van Gesondheid en die Wêreldgesondheidsorganisasie is die tipe – en vlakke van uitstraling binne aanvaarde standaarde en sal geen negatiewe effek op omliggende inwoners se gesondheid hê nie.

Die beswaarmakers bied verskeie verwysings aan na artikels oor die gesondheids- en ander gevare van emf bestraling en veral 5G tegnologie. Die amptelike standpunt van Dept Gesondheid en WHO hierbo is egter steeds onveranderd. (Ek kon ook verskeie onlangse artikels vind waarin aangedui word dat lae frekwensie nie-ioniserende bestraling nie skadelik vir menslike gesondheid is nie - sien lys van artikels in Bylae 6.)

Gegewe die amptelike standpunt van die Dept Gesondheid en WHO, kan die beweerde gesondheidsgehare van 'n VBTS nie as 'n bepalende oorweging vir 'n gebrek aan wenslikheid daarvan in die betrokke ligging beskou word nie.

Visuele impak:

Die VBTS sal duidelik sigbaar wees vanaf 'n beperkte area in Du Toitstraat en die naburige area ten weste daarvan, sowel as van die skoolgebou en -sportvelde. Daar is ook een kort gedeelte van Langstraat (R62) waar dit moontlik waargeneem sal word in die verte, sowat 400m weg. Die bestaande straatbome langs Du Toitstraat sowel as die ±30m hoë bloekombome langs die rivier aan die suidelike grens van die skoolperseel sal die visuele impak beperk.

Die voorgestelde versagtende maatreël om die mas soos 'n boom te kamoefleer, word as 'n gepaste opsie in hierdie geval beskou, veral omdat dit die struktuur beter sal laat inpas by die oopruimtekarakter van die omgewing. In hierdie opsig is dit belangrik dat die skaal van die nagemaakte boom natuurlik vertoon binne die betrokke omgewing. Voorbeelde van soortgelyke gekamoefleerde maste in Bonnievale en McGregor word in Bylae 5 aangeheg. Die aansoeker het geen visuele impakvoorstelling gemaak nie, maar ek sluit my eie voorstelling van hoe hoog 'n 25m hoë boom-mas vanaf verskillende punte kan vertoon, hierby in (Bylae 6). Soos gesien kan word met die Bonnievale-voorbeeld, kan 'n 25m hoë boom-mas buite skaal vertoon, terwyl 'n 15m hoë mas soos in McGregor wel natuurlik inpas en baie minder opvallend sal vertoon. Vir die spesifieke ligging van die aansoek, waar die terrein deur hoë bome begrens word, en daar slegs beperkte uitsigte op die toring sal wees, hoef die mas nie tot 15m beperk te word nie, maar behoort 'n maksimum hoogte van 20m moontlik voldoende wees om die gekamoefleerde mas natuurlik en op skaal te laat vertoon.

Die voorgestelde grondtoerusting van die VBTS – vraghouer en omheining – kan ook 'n negatiewe visuele impak hê vanaf die skoolterrein en aanliggende straat. In die lig van die aansoeker se verskillende voorstelle van hoe dié toerusting gaan lyk, word aanbeveel dat, indien die aansoek goedgekeur word, die voorstel met die minste visuele impak aanvaar word en verdere versagtende maatreëls opgelê word. Moontlike versagtende maatreëls is:

- Alle toerusting en omheining moet slegs op grondvlak wees, met maksimum hoogte van 2.4m.
- Omheining – toegangshek ingesluit - moet aanpas by bestaande omheining van die skoolterrein, naamlik swart clearview heining.
- Omheining binne skoolterrein moet afgeskerm word met plantegroei.
- Aanplant van straatbome om die geboue vanaf die westekant af te skerm.

Verkeersimpak, parkering, toegang en ander vervoerverwante oorwegings

Daar word geen onaanvaarbare negatiewe verkeersimpak verwag nie. Die perseel sal toegang vanaf Du Toitstraat kry, wat (na aanvanklike installering) net sporadies gebruik sal word wanneer onderhoud aan die VBTS gedoen moet word. Die bestaande parkering op die sygaardjie is voldoende vir dié doel.

Behoeftes

Hoof motivering is 5G dekking. Volgens MTN en Vodacom dekkingskaarte is daar reeds volledige LTE/4G dekking in die betrokke area.

Die aansoeker se uitgangspunt is dat daar 'n behoefte bestaan vir verbeterde netwerkdekking in die betrokke area is en dat die aansoekperseel die beste opsie is om daardie behoefte te bevredig. Netwerk-dekkingskaarte van die onderskeie diensverskaffers wat onlangs vanaf hulle webblaaie getrek is, dui egter daarop dat die betrokke area van Montagu wel deur die verskillende diensverskaffers oor volledige 3G en LTE dekking beskik, maar nie 5G nie. Verder word die area ook volledig deur 'n optiese vesel netwerk gedek, wat vinnige internet aan alle huishoudings en besighede in die area kan verskaf. Daar kan dus afgelei word dat die hoofdoel van die voorstel moontlik hoofsaaklik is om 5G dekking in die area te vestig.

Daar is baie faktore wat die optimale verspreiding van selfoontorings in stedelike gebiede beïnvloed en die afstand tussen maste bepaal, bv hoogte van die mas, aantal gebruikers, tipe strukture en plantegroei in die omgewing, tipe tegnologie wat gebruik word, data-behoeftes en tegniese besonderhede van die sender en antenna. Met vorige aansoeke vir VBTS'e in die Langeberg, is die afstand vanaf bestaande torings oorweeg op grond van 'n norm soos afgelei uit verskillende bronne in dié verband. Daarvolgens is 'n normale verspreiding 400-800m in digbeboude stedelike areas en 1.5 – 3km vir voorstedelike areas (https://en.wikipedia.org/wiki/Cell_site; www.rpcompanies.com). Die betrokke area suid van die aansoekperseel kan beskou word as 'n voorstedelike area, gedomineer deur enkelresidensiële erwe. Die area ten noorde van die skoolperseel is residensiël en kommersiël, beide relatiewe lae digtheid.. Daar kan dus aanvaar word dat die optimale afstand tussen stasies minstens in die omgewing van 1.5km sal wees, waarskynlik meer (maw 'n radius van 750m+ rondom elk). Dit blyk dat die voorgestelde VBTS in hierdie geval goed inpas by hierdie norm, soos aangedui op onderstaande foto.



DEEL I: ADDISIONELE BEPLANNINGSEVALUERING VIR OPHEFFING VAN BEPERKINGS (Verwys na OVB riglyne)

NVT

DEEL J: AANBEVELING

Dat die vergunningsgebruik vir 'n Vrystaande Basis-Telekommunikasiestasie op Erf 139, Montagu ingevolge Artikel 60 van die Langeberg Munisipaliteit: Verordening op Grondgebruikbeplanning, 2015 goedgekeur word, onderhewig aan die volgende voorwaardes opgelê ingevolge Artikel 66 van dieselfde verordening:

VOORWAARDES:

1. Die ontwikkeling moet wesenlik geskied volgens die terreinplan gemerk MON139-LBM-TP en die voorstelle in die aansoek, maar onderhewig aan die hoogtebeperkings en versagtende maatreëls volgens die voorwaardes hieronder. Die terreinplan en onderstaande beperkings sal beskou sal word as die toepaslike ontwikkelingsparameters vir die VBTS soos bedoel in die soneringskema.
2. Die maksimum hoogte van die mas word vasgestel op 20m.
3. Volledige bouplanne vir alle nuwe strukture op die terrein moet by die Munisipale Boubeheerafdeling ingedien word en goedgekeur wees voordat enige daarvan opgerig mag word. Die bouplanne mag nie goedgekeur word sonder dat die

estetiese aspekte van die geboue soos uiteengesit in onderstaande voorwaardes gespesifiseer is op die planne en as sulks goedgekeur is deur die Bestuurder Stadsbeplanning nie.

4. Die mas moet gekamoepeer word soos 'n boom. Die akkurate detail van sodanige kamoeffling moet saam met die bouplanne voorgelê word, met foto-voorbeelde van hoe dit in die praktyk gaan lyk. Die Bestuurder Stadsbeplanning moet finale toestemming gee vir die tipe en voorkoms van die kamoeffling, maar is nie verplig om die voorstel te aanvaar nie en kan van die aansoeker vereis om alternatiewe voor te lê.
5. Die volgende versagtende maatreëls geld ten opsigte van die res van omheining en grondtoerusting:
 - 5.1 Alle toerusting en omheining moet slegs op grondvlak wees, met maksimum hoogte van 2.4m.
 - 5.2 Die omheining – toegangshek ingesluit - moet aanpas by bestaande omheining van die skoolterrein, naamlik swart "clearview" heining.
 - 5.3 Die omheining moet afgeskerm word van die skoolterrein met paslike plantegroei, bv struik en rankplante.
 - 5.4 Die aansoeker moet straatbome aanplant soos benodig mag word om die geboue vanaf die westekant van die straat af te skerm.

REDES VIR BESLUIT:

- a) Die voorgestelde VBTS word beskou as stedelike infrastruktuur wat redelik verwag kan word in verspreide liggings binne die dorpsgebied en definieer op sigself nie die grondgebruikpatroon en -karakter van die gebied nie. Dit sal na verwagting nie inbreuk maak op die karakter van die omliggende omgewing nie, inaggenome dat die visuele impak daarvan reeds beperk sal wees deur die geïsoleerde ligging en bestaande bome in die omgewing, wat verder versag kan word indien die hoogte en ontwerp van die toring en die grondtoerusting beheer word.
- b) Die voorstel sal nie die enige van die doelwitte van die Montagu Stedelike Bewaringsgebied Oorlegsone benadeel nie.
- c) Gegewe die amptelike standpunt van die Dept Gesondheid en WHO, kan die beweerde gesondheidsgevaar van 'n VBTS nie as 'n bepalende oorweging vir 'n gebrek aan wenslikheid daarvan in die betrokke ligging beskou word nie.
- d) Die visuele impak word as aanvaarbaar binne die betrokke omgewing beskou, in die lig daarvan dat
 - i) die mas en grondtoerusting slegs vanaf 'n beperkte area duidelik sigbaar sal wees,
 - ii) deur geboue, bestaande straatbome en bome langs die Kingnarivier afgeskerm word,
 - iii) en die impak voldoende versag kan word deur kamoeffling, afskerming en hoogtebeperking van die mas, omheining en grondtoerusting.

DEEL K: BYLAES

Bylae 1 - Terreinplan en aansigte
Bylae 2 - Motivering
Bylae 3 - Besware
Bylae 4 - Aansoeker se reaksie op besware
Bylae 5 – Voorbeelde van bestaande maste in Langeberg area
Bylae 6 – Visuele impak voorstelling
Bylae 7 – Artikel oor veiligheid van EMF uitstraling

DEEL L: SKRYWER HANDTEKENING


.....
J L E R VAN ZYL
SENIOR BEPLANNER
GEREGISTREERDE PROFESSIONELE BEPLANNER – NR. A/1170/2000


.....
DATUM

Terreinplan en aansigte



SITE NAME: MONTAGU PRIMARY SCHOOL

SITE ID:

ATSA1477

REV	DATE	BY	DESCRIPTION
REV 0	18/04/2022	NUT	First Issue

NOTES:

ENGINEER

NAME:

SIGNATURE:

STRICTLY COMPANY CONFIDENTIAL

PROPERTY DESCRIPTION:

Remainder 139, Long Street, Montagu

COORDINATES:

LAT: 33°47'28.1"S

LONG: 20°07'28.8"E

ANSL:

217m

PROJECT:

NEW 3.2m x 6.5m x TELECOMMUNICATION BASE STATION WITH 25m MONOPOLE TREE MAST FOR SBA TOWERS SOUTH AFRICA (PTY) LTD

ADDRESS:

Long Street, Montagu, Western Cape

COUNCIL:

Langeberg Municipality

at: 18 Sunbird Crescent, D'urdamale, 7550
c: 081 718 7436 e: info@highwave.co.za

HIGHWAVE
CONSULTANTS

Town & Soil Engineers
Project Managers
Telecommunications Consultants

DRAWING MUST NOT BE SCALED. ONLY DIMENSIONS TO BE USED. DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCEMENT OF WORK.
ALL WORK TO BE PERFORMED ACCORDING TO BTS SITE INFRASTRUCTURE SPECIFICATION

DRAWN: N. Theunissen

DATE: 16/04/2022

SITE NO: ATSA1477

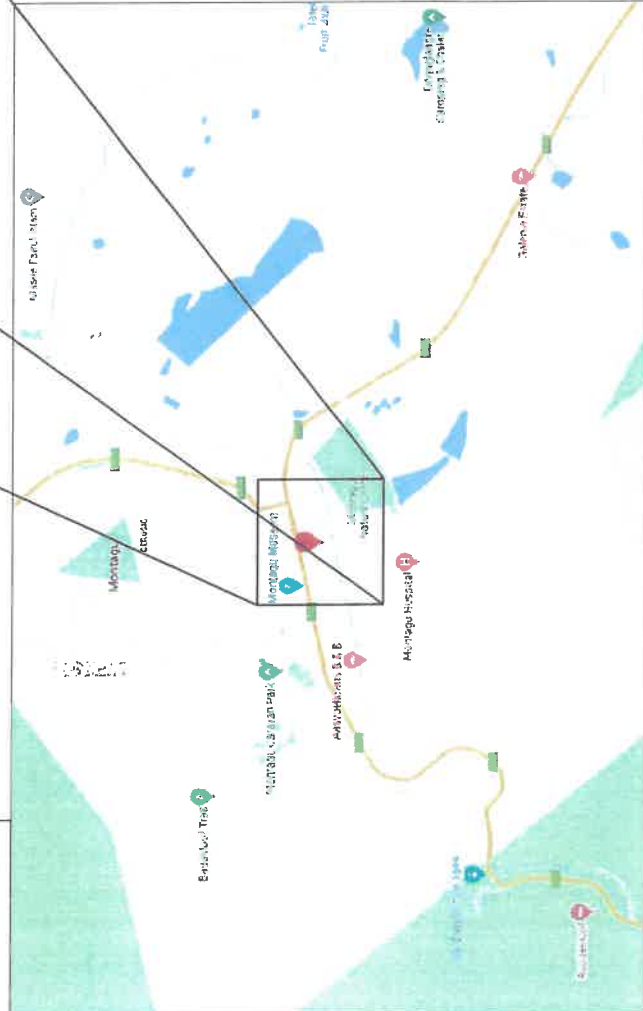
LOCALITY PLAN

SHEET 1 OF 6



AERIAL PLAN

VICINITY PLAN



MON139-LBM-TP

SITE LAYOUT: ERF RE / 139, MONTAGU PRIMARY SCHOOL



GENERAL NOTE:
THESE DRAWINGS ARE FOR INFORMATION AND PERMITTING PURPOSES ONLY.
ALL UNDERGROUND SERVICES (WETHER CABLES, PIPES, ETC.) MUST BE LOCATED AND MARKED PRIOR TO ANY CONSTRUCTION WORK.
THE CLIENT MUST BE RESPONSIBLE FOR THE LOCATION OF ALL SERVICES.
THESE DRAWINGS MUST BE USED IN CONJUNCTION WITH THE SITE SPECIFICATION AND THE SITE LAYOUT.
ALL DIMENSIONS TO BE CONFIRMED ON SITE.
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ALL DIMENSIONS TO BE CONFIRMED ON SITE.

SITE NAME: MONTAGU PRIMARY SCHOOL		
SITE ID: ATSA1477		
REV	DATE	BY
REV 0	21/04/2022	NJT
First Issue		

NOTES:

NEW SBA TOWERS:
8m x 8m TELECOMMUNICATION BASE STATION
WITH A 25m MONOPOLE TREE MAST

RE/139
44068.7m²

Proposed Power Route

5m Building Line

Proposed Fibre Route

Entrance to Site

15m

D

946

947

BOUNDARY LINES IN METERS	
AB	168.13m
BC	236.00m
CD	190.68m
DE	204.68m
EF	22.75m
FA	31.50m



HIGHWAVE
CONSULTANTS

at: 18 Sunbird Crescent, Durbanville, 7550
c: 081 718 7436 e: hwa@highwave.co.za

Team & Regional Managers
Project Manager
Tel: 081 718 7436 Email: hwa@highwave.co.za

PROJECT:
NEW 3.2m x 8.5m x TELECOMMUNICATION BASE STATION
WITH
25m MONOPOLE TREE MAST FOR SBA TOWERS SOUTH AFRICA (PTY) LTD

ADDRESS:
Long Street, Montagu,
Western Cape

COUNCIL:
Lugaberg Municipality

PROPERTY DESCRIPTION:
Remainder 138, Long Street, Montagu

COORDINATES:
LAT: 33°47'28.1"S
LONG: 20°07'28.5"E

ANSL:
217m

ENGINEER
NAME:
SIGNATURE:

DRAWN: N. Theunissen
SCALE: 1:300
DATE: 21/04/2022
SITE NO: ATSA1477

SITE LAYOUT
SHEET 4 OF 6

ACTUAL LAYOUT: ERF RE / 139, MONTAGU PRIMARY SCHOOL

GENERAL NOTES:
 1. THIS DRAWING IS FOR INFORMATION AND PERMITTING PURPOSES ONLY.
 2. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVED CONTRACTS.
 3. ALL UNDERGROUND SERVICES (WHETHER KNOWN OR UNKNOWN) MUST BE IDENTIFIED AND CONFIRMED ON SITE BEFORE COMMENCEMENT OF WORK.
 4. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVED CONTRACTS.
 5. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVED CONTRACTS.
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 9. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVED CONTRACTS.
 10. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVED CONTRACTS.



SITE NAME: MONTAGU PRIMARY SCHOOL

SITE ID: ATSA1477

REV DATE BY DESCRIPTION

REV 0 21/04/2022 N/T First Issue

NOTES:

ENGINEER

NAME:

SIGNATURE:

STRICTLY COMPANY CONFIDENTIAL

PROPERTY DESCRIPTION:

Remainder 139, Long Street, Montagu

COORDINATES:

LAT: 33°47'28.13"

LONG: 20°07'28.95"E

AMSL: 217m

PROJECT:

NEW 3.2m x 6.5m x TELECOMMUNICATION BASE STATION WITH 25m MONOPOLE TREE MAST FOR SBA TOWERS SOUTH AFRICA (PTY) LTD

ADDRESS:

Long Street, Montagu, Western Cape

COUNCIL: Langeberg Municipality

a: 18 Sunbird Crescent, Durbanville, 7550

c: 081 718 7438 e: nico@highwave.co.za

HIGHWAVE CONSULTANTS

Team: A Regional Presence
 Project Manager: Michael van der Merwe

DRAWING MUST NOT BE SCALED. ONLY FIGURED DIMENSIONS TO BE USED. DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCEMENT OF WORK.
 ALL WORK TO BE PERFORMED ACCORDING TO BTS SITE INFRASTRUCTURE SPECIFICATION

DRAWN: N. Thaurissen

DATE: 21/04/2022

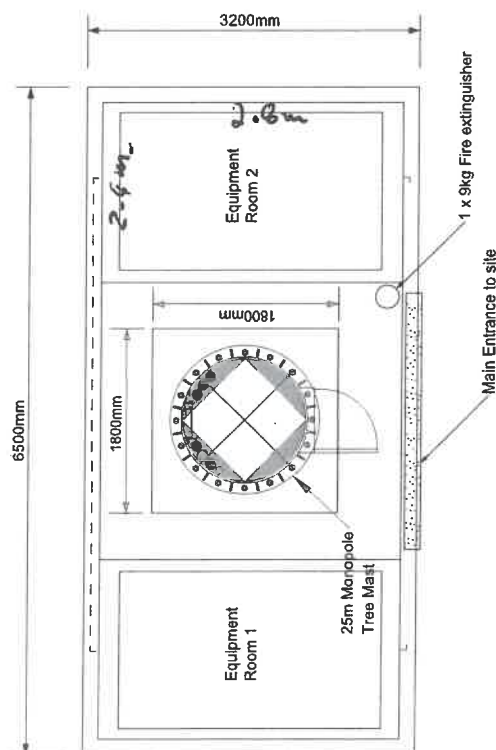
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SITE NO: ATSA1477

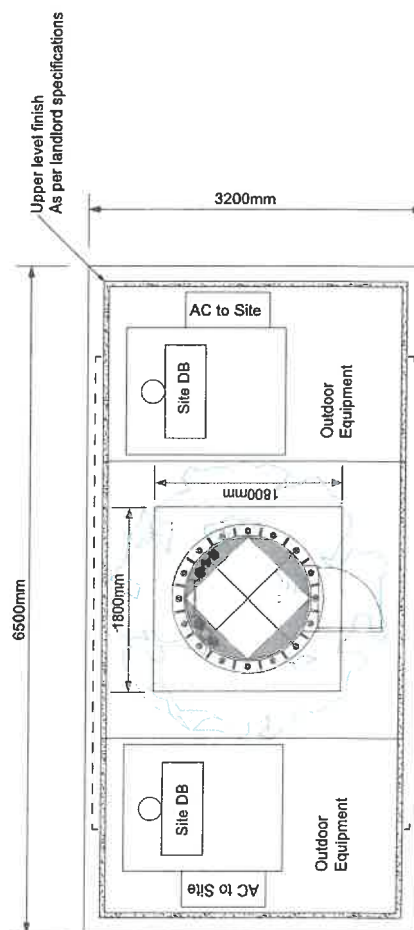
ACTUAL LAYOUT

SHEET 5 OF 8

Lower Level



Upper Level



ELEVATION: ERF RE / 139, MONTAGU PRIMARY SCHOOL



SITE NAME: MONTAGU PRIMARY SCHOOL

SITE ID: ATSA1477

REV DATE BY DESCRIPTION

REV 0 21/04/2022 NJT Final Issue

NOTES:

ENGINEER

NAME:

SIGNATURE:

STRICTLY COMPANY CONFIDENTIAL

PROPERTY DESCRIPTION:

Remainder 139, Long Street, Montagu

COORDINATES:

LAT: 33°47'28.1"S

LONG: 20°07'28.5"E

PROJECT:

NEW 3.2m x 8.5m x TELECOMMUNICATION BASE STATION

25m MONOPOLE TREE MAST FOR SBA TOWERS SOUTH AFRICA (PTY) LTD

ADDRESS:

Long Street, Montagu, Western Cape

COUNCIL: Langeberg Municipality

at: 18 Sunbird Crescent, D'Urbanville, 7550

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DRAWING MUST NOT BE SCALED. ONLY FIGURED DIMENSIONS TO BE USED. DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCEMENT OF WORK.
ALL WORK TO BE PERFORMED ACCORDING TO BT'S SITE INFRASTRUCTURE SPECIFICATION

DRAWN: N. Thaurisan

SCALE: 1:120

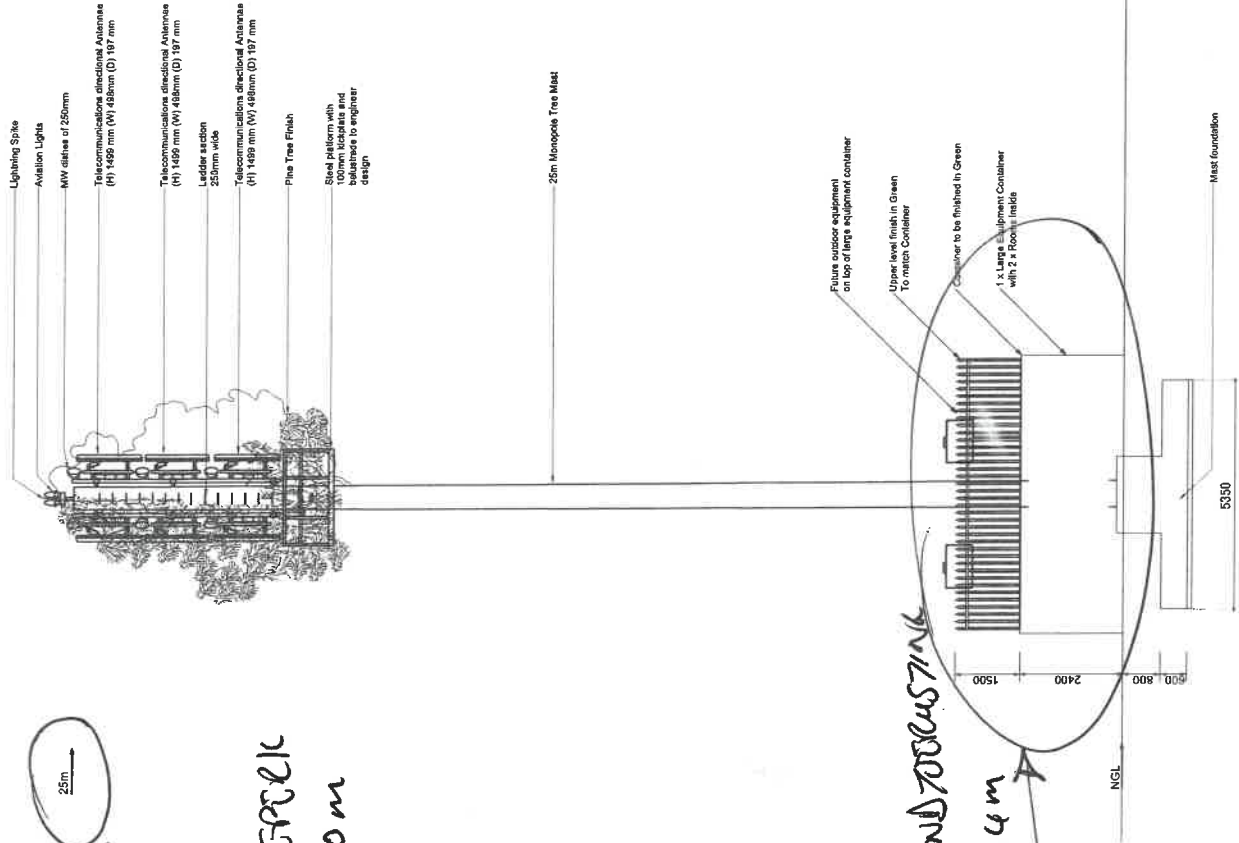
DATE: 21/04/2022

SITE NO: ATSA1477

ELEVATION

SHEET 6 OF 6

GENERAL NOTES:
1. THIS DRAWING IS FOR INFORMATION AND PRELIMINARY PURPOSES ONLY.
2. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
3. ALL DIMENSIONS ARE TO BE CONFIRMED ON SITE BEFORE COMMENCEMENT OF WORK.
4. SET-OUT POINTS AS INDICATED MUST BE VERIFIED ON SITE BEFORE COMMENCEMENT OF WORK.
5. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
6. DIMENSIONS MAY NOT BE SCALED. ALL DIMENSIONS MUST BE VERIFIED ON SITE BEFORE COMMENCEMENT OF WORK.



25m

Handwritten note: *Handwritten note: 20m*

Handwritten note: *Handwritten note: 2.4m*

Motivering

~~18~~

REMAINDER OF ERF 139, MONTAGU
CONSENT USE & PERMANENT DEPARTURE
APPLICATION

**TO ALLOW A FREESTANDING
BASE TELECOMMUNICATION STATION ON
THE REMAINDER OF ERF 139, MONTAGU**



HIGH **WAVE**
CONSULTANTS

JANUARY 2023

VERSION 2. 19

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DEFINITIONS:

FOR THE PURPOSE OF THIS APPLICATION, AND UNLESS IT APPEARS OTHERWISE IN THE TEXT, THE TERMS USED HEREIN ARE AS FOLLOWS:

PROPERTY:

REMAINDER OF ERF 139, MONTAGU, LANGEBERG MUNICIPALITY, WESTERN CAPE PROVINCE.

CLIENT:

SBA South Africa (Pty) LTD.

APPLICANT:

Highwave Consultants (Pty) Ltd

OWNER:

Provincial Government Western Cape

ABBREVIATIONS:

FOR THE PURPOSE OF THIS APPLICATION, AND UNLESS IT APPEARS OTHERWISE IN THE TEXT, THE TERMS USED HEREIN ARE AS FOLLOWS:

ABOVE GROUND LEVEL:

Referred to as (AGL)

LUPA:

Land Use Planning Act (Act 3 of 2014)

Rooftop base telecommunication station:

Rooftop Base Telecommunications Station as defined in the Langeberg Integrated Zoning Scheme (LIZS).

Freestanding base telecommunication station:

Freestanding Base Telecommunications Station as defined in the LIZS.

Telecommunication Infrastructure

Telecommunication Infrastructure as defined in the LIZS

1. THE APPLICATION

Application is hereby made on behalf of our client SBA South Africa (Pty) LTD to allow the following on Remainder of Erf 139, Montagu.

- **Consent use application** in terms of Section 15 (2)(o) of the Langeberg Municipal Land Use Planning By-Law for the purpose of erecting a Freestanding Base Telecommunication station with a 25m tree mast on the above-mentioned erf. And,
- **Permanent Departure application** in terms of Section 15 (2)(b) of the Langeberg Municipal Land Use Planning By-Law for the street boundary line (shared with Du Toit Street) relaxation from 5.0m to 0.0m and for the height relaxation from 12.0m to 25.0m to allow the position of the said development.

2. PROPERTY DESCRIPTION, SIZE AND OWNERSHIP

The subject property relating to the application is identified as Remainder of Erf 139, Montagu with an extent of 4.3913Ha (*Four comma Three Nine One Three hectares*). The property is situated in the town of Montagu. The property is currently owned by the **Provincial Government Western Cape.**

A copy of the Title Deed for Remainder of Erf 139, Montagu containing the details outlined below is contained in Annexure A. *(Please refer to Annexure A: Title Deed)*

TITLE DEED DESCRIPTION:	REMAINDER OF ERF 139, MONTAGU, WESTERN CAPE PROVINCE.
TITLE DEED NUMBER:	T107938/2002
TITLE DEED RESTRICTIONS:	None
PROPERTY SIZE:	4.3913Ha (Four comma Three Nine One Three hectares)
ZONING:	COMMUNITY ZONE 1
PROPERTY OWNER:	Provincial Government Western Cape
SERVITUDES:	None - The proposed developments do not encroach or have an impact on any servitude.

3. CONTEXTUAL INFORMANTS

a. Locality

The concerned property is identified as Remainder of Erf 139, Montagu situated in the Montagu District, forming part of the Langeberg Municipality. The proposed mast is to be located on the western boundary of the said Property.

b. Surrounding Area

The proposal entails the erection of a Freestanding Base Telecommunication station on Remainder of Erf 139, Montagu. The property is currently zoned Community Zone 1 and is being utilised in accordance with the zoning scheme. The surrounding land uses in the area vary from business zoned properties to the west, to residential properties to the north.

c. Land Use

As mentioned, the property is currently zoned Community Zone 1 and the land is used for educational purposes.

4. DEVELOPMENT PROPOSAL

a. Development

It is the intention of our client to apply for the consent use and permanent departure to allow a freestanding base telecommunication station on the above-mentioned property. The application entails the following proposed development parameters:

- Erection of a 25m monopole tree mast situated on the western boundary of the property.
- Installation of 9 triband antennae on the proposed 25m mast.
- Installation of 4 transmission dishes on the proposed 25m mast.
- Construction of 3 x 3.0m (L) x 3.0m (W) concrete plinths and installation of 2 x telecommunications equipment containers measuring 2.4m (L) x 2.8m (W) at ground level.
- The mast & equipment containers will be placed inside an 6.3m (L) x 3.2m (W) compound enclosed off by a 2.4m palisade fence.

(Please refer to attached Annexure H – Plans)

b. Ownership and Power of Attorney

The property is currently owned by the Provincial Government Western Cape. A power of attorney and approval letter was granted by the Trustees and the construction of a telecommunication base station has been approved pre-liminary..

preliminary

c. Access

Access to the proposed freestanding base station will be obtained from Du Toit street via a sliding gate which will not open onto the road reserve. (as seen on the attached drawings) Our client will construct a 2.4m wide gate that will not only grant access to the construction team during the construction phase but the maintenance teams will also utilize this gate every 6 months for scheduled maintenance. The Western Cape Education Department requires that we strictly grant access from outside the property in order to ensure the safety of the children attending the said school.

d. Security

The proposed freestanding base telecommunications station will be constructed on Remainder of Erf 139, Montagu, partially surrounded by wire fences. Extra security to the actual telecommunications base station will be added by a 2,4m high palisade fence. The telecommunications radio and transmission equipment will be installed inside alarm monitored containers, these containers are secure as they are locked at all times. The antennae will be located 20-25m above ground level and are inaccessible to the public. A mast door with a high security lock will be installed ensuring increased security to mast. Access to the equipment and antennae will be limited to registered and qualified personnel only. Health and safety legislation also require restrictive security signage (0, 4 x 0,5m) to be attached to access gate, containers and mast door.

The above safety and security measures have been put in place by telecommunication operators and legal entities to prevent access to the public and greatly reduce vandalism of the equipment.

e. Electricity Requirements

Electricity supply will be obtained from the available on-site supply, technological advances have also seen current telecommunications equipment reduce their electricity usage.

f. Environmental

The National Environmental Management Act (Act 107 of 1998) regulates environmental and social sustainability. According to the National Environmental Management Act Regulations Listing Notice 3 of 2014, which came into effect on 08 December 2014, an Environmental Impact Assessment (EIA) or Record of Decision (ROD) is a ONLY an requirement for:

"The development of masts or towers of any material or type used for telecommunication broadcasting or radio transmission purposes where the mast or tower-

- a) is to be placed on a site not previously used for this purpose; and
- b) Will exceed 15 meters in height.

But excluding attachments to existing buildings and masts on rooftops”.

Listing Notice 3 of 2014 clearly defines the requirements in the **Western Cape**:

“(f) In Western Cape:

- I. All areas outside urban areas; or
- II. Areas designated for conservation use in Spatial Development Frameworks adopted by the competent authority, or zoned for a conservation purpose, within urban areas.

Even though Montagu falls within a conservation area according the Langeberg SDF (2015) and also within the Montagu urban conservation area overlay zone according to the LIZS, 2018. This proposed development will not trigger a listed activity as seen in the attached NEMA Applicability Checklist outcome.

not attached

*Verstel van
ander kopie van
verslag. (Version 1)*

5. MOTIVATION

a. Background

Recent research conducted has indicated that there is not necessary a lack of cellular infrastructure, but the aim is to strengthen the coverage for these remote areas to provide optimal and efficient data/ voice coverage to the surrounding community situated in the Montagu area.

The need for optimal coverage is usually caused by several factors such as the increase of the population of the area. Montagu is a small town that does not grow as much as the bigger hubs but the Socio-Economic Profile, 2017 of the Langeberg Municipality indicated an estimated increase of 4% from 2017 to 2023. That estimate accumulates to an approximate 8% increase in population since the last census (2011). The census information of 2022 was not available at the time of writing thus it is not factored in. The Montagu area have a community which is reliant on communication and on their own business which is in effect reliant on a reliable internet connection, most small businesses have moved to internet reliant payment options such as Yoco. The coverage radius/ footprint for cellular telecommunications technology is reducing due to the latest technology and additional need for increased data speed and voice quality.

In order to provide clarity and for ease of reference, below please find an extract from the Langeberg Zoning Scheme defining a Freestanding Telecommunications base station and telecommunications infrastructure.

CHANGED FROM
VERSION 1

"Freestanding base telecommunication station

Land use description: "freestanding base telecommunication station" means a freestanding support structure on land or anchored to land and used for telecommunication infrastructure to transmit or receive electronic communication signals, and may include access roads to the structure.

Development parameters:

The development parameters applicable to "utility service" apply."

"Telecommunication Infrastructure:

Land use description: "telecommunication infrastructure" means any part of the infrastructure of a telecommunication network for radio or wireless communication and includes—

- a) voice, data and video telecommunications, including antennae, any support structure, equipment room, radio equipment or optical communications equipment (laser or infra-red);*
- b) ancillary structures needed for the operation of telecommunication infrastructure; and*
- c) does not include fibre optic installations and point-to-point copper (cable) installation and rooftop base telecommunication stations."*

b. Proposed Development Parameters

The current and proposed allowable development parameters as per the Langeberg Scheme Regulations are indicated in the tables below:

Development Parameters	Langeberg Municipality Integrated Zoning Scheme (CZ1)	Proposed Development on Remainder of Erf 139, Montagu
Floor Factor	As determined by the Municipality	N/A
Coverage	As determined by the Municipality	N/A
Building Lines	As determined by the Municipality	N/A
	As determined by the Municipality	<i>Departure being applied for.</i>
	As determined by the Municipality	N/A
Parking	As determined by the Municipality	N/A

Height	12m - 6 Ed. Buildings	Departure being applied for.
--------	-----------------------	------------------------------

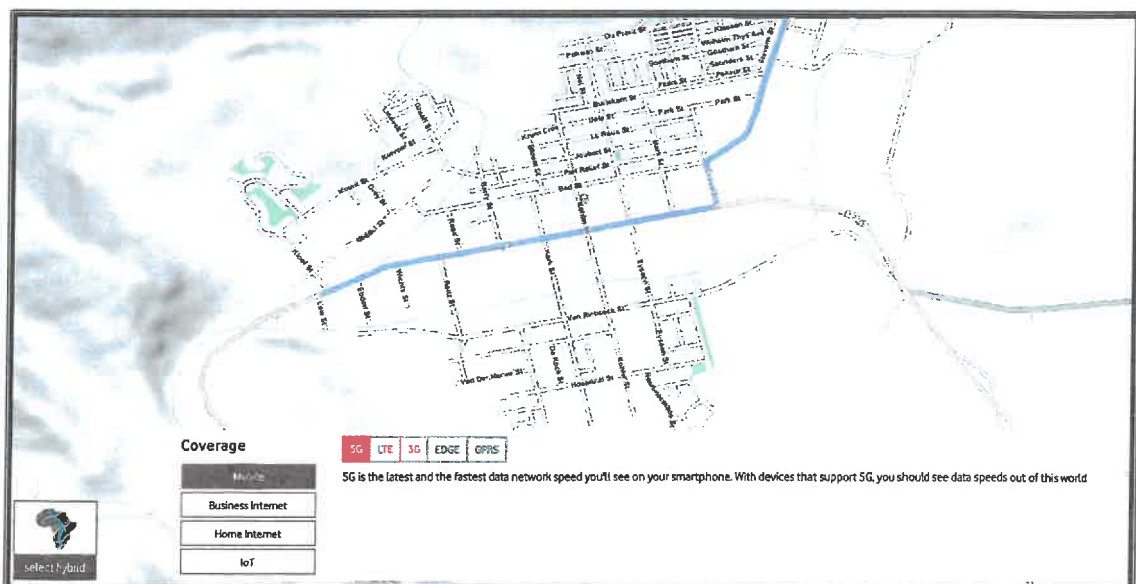
The proposed erection of a freestanding base telecommunication station will **NOT** have an impact on parking, coverage or floor factor as prescribed in accordance with the **Langeberg Municipality Integrated Zoning Scheme**.

c. Physical Characteristics

RF Engineers are subject matter experts and identify sites by utilizing a specific set of engineering rules and principles, Remainder of Erf 139, Montagu was identified as a prime position on the following premise:

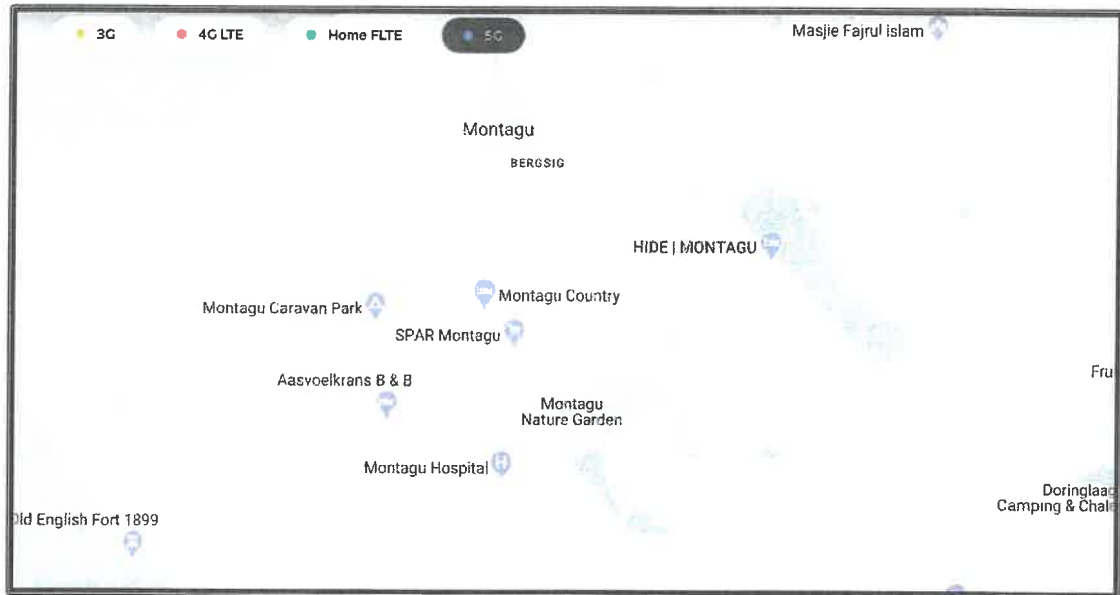
- Property offers the optimal position situated between existing and planned base stations to provide efficient data and voice coverage.

The snippet taken below is from the two main operators (Vodacom and MTN) illustrating the need to extend the 5G coverage:



Source: <https://vccoverage.afrigis.co.za/#/>

As seen above, there is currently no 5G connection in the Montagu area. The following snippet is taken from the MTN coverage map:



Source: <https://www.mtn.co.za/home/coverage/>

- Surrounding geographical aspects are in line with the requirements.
- Minimized physical, natural and visual impact.
- Ability to reduce the number of base stations in the surrounding areas.
- Ability to provide sufficient security to the equipment.
- Capacity to share infrastructure with majority of the operators.
- Sufficient space to erect a freestanding base telecommunications station.

In order to achieve the optimal data and voice coverage objectives base stations in these specific areas needs to be approximately 500m apart on average, this is due to the density of the surrounding areas as well as geographical and physical features.

d. Title Deed Restrictions

In respect of Remainder of Erf 139, Montagu it was found that there are NO restrictive title deed conditions contained in title deed no. T107938/2002 that needs to be removed.

(Please refer to the attached Annexure A: Title Deed)

e. Health

The Directorate: Radio Control, within the South African Department of Health is the responsible authority regulating cellular base-station effects on health. The department of health regulates non-ionizing radiation, and this includes electromagnetic fields (EMF) at frequencies less than 300 GHz.

The Directorate makes use of the World Health Organization's (WHO) International EMF Project (www.who.int/emf) as its primary source of information and guidance with respect to the health effects of EMF and cellular infrastructure.

With reference to EMF there are two relevant publications by the World Health Organization that are of direct relevance.

- (i) International EMF Project Fact Sheet ***"Electromagnetic fields and public health: mobile phones"*** <http://www.who.int/mediacentre/factsheets/fs193/en/index.html> and;
- (ii) The results of the multi-national 10-year long INTERPHONE study on mobile phone use and brain cancer risk (press release – www.iarc.fr/en/mediacentre/pr/pdfs/pr200_E.pdf). The Directorate endorses the exposure guidelines published in 1998 by the International Commission on Non-Ionizing Radiation Protection (ICNIRP).

The World Health Organization has officially endorsed these studies with regards to EMF exposure. ICNIRP states categorically that exposure to EMF at any level below that of the ICNIRP exposure guidelines will protect people against the known adverse health effects of EMF.

In addition, measurement assessments conducted in South Africa and around the world have indicated that the actual levels of public exposure of base station emissions are only a fraction of the percentage as regulated by the ICNIRP guidelines, even in cases where the public have been concerned regarding their exposure to emissions from base stations.

The South African Department of Health is therefore satisfied that the health of the general public is not being compromised by their exposure to the emissions of cellular base stations, at present no confirmed scientific evidence exists that would indicate any hazard to human health in situations that members of the public would typically find themselves in.

The following is an extract from www.arpansa.gov.au and clearly differentiate between two types of radiation, one can cause harm to the human body and the other one pose no threat to the human health. The name of the two are:

- **Ionising Radiation**

This type of radiation refers to the type that carries enough energy to cause ionisations in atoms. This is a much stronger type of radiation compared to non-ionising radiation. This is the dangerous type that you typically will find in gamma rays, x-rays, etc.

- **Non-Ionising Radiation**

This type of radiation refers to types of radiation that do not have enough energy to cause ionisation of the atoms. These types of radiation are the “every day” radiation that everyone experience such as infrared, microwaves and do not have enough energy to cause harm.

It is proven that the proposed cell mast development and every other freestanding base telecommunication station utilise **non-ionising** radiation. The health of the public will not be in danger as the 50m Safety Zone is in effect to make sure that there are no one in direct line with the antennas of the mast.

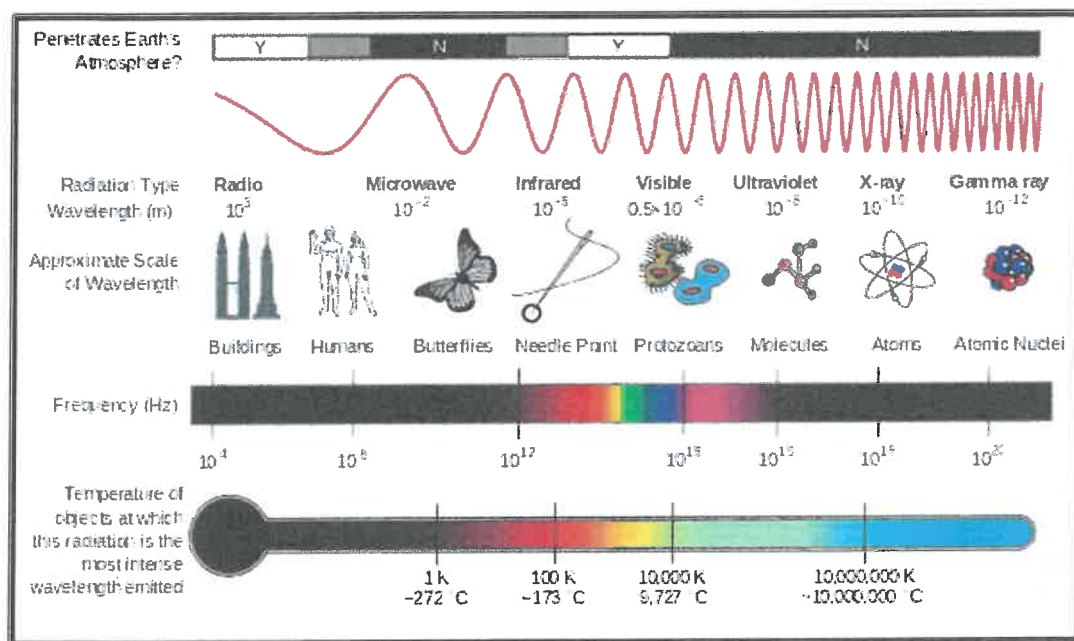
5G and the concerns related to it:

The following was a study that was conducted in South Africa and published on the 6th of September 2021 on My Broadband. (The source is below)

"The electromagnetic radiation you are exposed to when standing close to an active microwave oven is much higher than a 5G cellular tower, a MyBroadband investigation has shown.

Even though the radiation from the microwave was much higher, it remained within the safety thresholds of the International Commission on Non-Ionizing Radiation Protection (ICNIRP). MyBroadband sent a researcher to several cellular masts around the Gauteng area to see if the electromagnetic radiation they emit present any danger to the people living around them. For points of comparison, he also measured the radiation emitted from a microwave oven and Wi-Fi router.

All testing was performed using an [RS Pro IM-195 RF Field Strength Meter](#).



A diagram of the electromagnetic spectrum, showing various properties across the range of frequencies and wavelengths ([Wikipedia](#))

The current scientific understanding is that electromagnetic waves up to the visible light spectrum are unlikely to be harmful to human health below certain power thresholds.

Electromagnetic fields that run at frequencies higher than that of ultraviolet light are known as ionising. Ionising electromagnetic radiation, such as that caused by x-rays and gamma

rays, can damage DNA and are known to cause cancers. Non-ionising radiation does not cause DNA damage as ionising radiation does, but it may be harmful to human health at high enough power levels.

For example, microwave ovens use electromagnetic waves with frequencies around 2.45 gigahertz (GHz). This is in the same vicinity as technologies like Wi-Fi and Bluetooth.

The difference is that microwave ovens emit these waves at a much higher power level, measured in Watt (W), compared to Wi-Fi and Bluetooth devices. Hertz is a measurement of how many times a wave oscillates every second, whereas Watt is a measure of the wave's power.

The ICNIRP defines safe reference levels for the general public at the following power densities. As the frequency of the electromagnetic wave increases, the safe power density increases:

- 900MHz — 4.5 W/m²
- 1.8GHz — 9 W/m²
- 1.9GHz — 9.5 W/m²
- 2.0GHz+ — 10 W/m²

To get a sense of the ambient electromagnetic radiation we are exposed to, we took a baseline reading outside, in a suburban neighbourhood. The measurement varied from about 0.002W/m² to 0.004W/m². We then took measurements at varying distances from a cellphone tower, and the highest reading we got was 0.004W/m² — entirely within what is considered normal.

Our researcher said it wasn't possible to get a proper reading from the tower due to the inverse-square law."

As seen above and recently proven, there are no reasons to be concerned with regards to 5G cellular infrastructure.

Source:

https://mybroadband.co.za/news/science/412846-we-measured-the-radiation-from-a-microwave-and-compared-it-to-a-5g-tower.html?utm_source=newsletter

The placement of the antennas on the freestanding base telecommunication station will be of sort that there will be no building in line within a 50m range thus falling in line with the 50m safety zone. As seen above, the proposal is in line with both the 5m and 50m public exposure zones as indicated in the above-mentioned policy and we therefore do not anticipate any health risks. The applicable legislation clearly stipulates and defines the 50m Safety Zone and the effect on all buildings outside this buffer is considered as very low as it falls outside this area

f. Need & Desirability

In modern times it is become a ~~near~~^{rule} instance where a member of the public only utilizes one cellular phone, majority utilize a cellular phone for personal and an additional phone, iPad or dongle for business purposes, it's on this premise that we believe it to be in both the Langeberg Municipality & the operators interests to address the problem of weak voice and data coverage and to provide the surrounding high traffic commercial & business community with the basic need of effective voice and data coverage, as it has become an integral part of our daily lives.

When selecting a site, special consideration is given to the geographical aspects so that the cellular infrastructure is positioned to ensure optimal functionality and availability to the customer. This reduces the number of base telecommunication stations necessary to provide the best possible experience for the end user.

Our client SBA South Africa (Pty) LTD is an established corporation that pride themselves in ensuring that a positive impact is created in terms of the social, environmental and economic wellbeing of the area. Since the introduction of LTE in South Africa in 2012 there has been greater need for access to faster data, due to the higher penetration of LTE data in commercial and business areas, this has led to lower subscription fees which in itself provide economic sustainability and development. LTE will ultimately address high data traffic requirements and the surrounding community will be the main beneficiary.

The erection of a telecommunication base station does not impact on the current or surrounding land uses of the property. The construction and maintenance phase of the

proposal will provide a positive economic & social impact by ensuring job creation effecting the surrounding community in a positive way.

The increase of individuals in the Montagu area (see above socio-economic profile insert) year on year is busy creating and will continue creating a high demand for effective voice and data requirements. This is an ever evolving industry which will always require the best technology in order to accommodate the community. The commissioning of the proposed telecommunication base station will alleviate the congestion experienced by cellular operator customers and ensure that their needs are accommodated.

g. Electricity

The electricity supply to TI (Telecommunications Infrastructure) must, where practically possible, make use of underground cables. All electrical installations must be as per ESKOM or Langeberg Municipality Electrical Department requirements and standards. Our client will ensure that the proposal will be in line with the above mentioned electrical supply requirements.

h. Visual Impact

Special consideration has been given to the placement of the proposed freestanding base station in order to minimize the visual impact as far as possible however this is challenging at times. The position of the proposed erection of a 25m tree was decided on as the area is being used as a sport ^{field} ~~field~~ and the said position is a piece of unutilized land between the trees.

Highwave Consultants can confirm that we considered a monopole mast but we decided against it as it is our opinion that a tree mast has the best chance in blending in with the existing trees in the area. The agricultural backdrop will also assist in this venture, and we therefore request the Planning Authority to include restrictions should they deem it necessary.

Cognizance needs to be taken of the fact that our client is willing to alter the design and height of the mast should it be deemed necessary. We therefore request the relevant Authority to communicate such request with Highwave Consultants.

i. Access & Traffic considerations

Remainder of Erf 139, Montagu is easily accessible, and access will be obtained from Du Toit street which is considered a medium traffic volume Street as there is a Spar in this street which have daily clients as well as the primary school.

j. Alternative candidates

Cognizance needs to be taken of the fact that the coordinates were given to Highwave and also the first property owner agreed to accommodate such a structure. Thus, no other alternative were looked at.

k. Spatial Planning and Land Use Manage Act Principles

The following table outlines how this proposed development complies with the principles in SPLUMA:

HOW DOES THIS APPLICATION COMPLY WITH THIS PRINCIPLE?	
<u>Principle</u> <u>7a:</u> <i>Spatial Justice</i>	In a broader sense, spatial justice refers to an intentional incorporation of spatial (geographical) aspects. This refers to the fair and equally distributed services and enhanced accessibility of these services. The aim of this proposal is to provide excellent communication service to the inhabitants of the area of Montagu.
<u>Principle</u> <u>7b:</u> <i>Spatial Sustainability</i>	Spatial sustainability is an explicit concept which describe the relations between environmental and socio-economical facets related to a societal environment. Enhanced signal in an area will promote all three the dimensions of sustainability (economic, social and environmental facets). Economically, businesses in the area will benefit from enhanced connectivity. The social facet is addressed as more people will have access to emergency services (e.g., Healthcare, Police, Fire response etc.). The third dimension (Environmental facets) will be promoted as the sensible placement of telecommunication base stations and the possibility of co-location will limit the number of base stations should there be sufficient signal in an area.

<u>Principle</u> <u>7c:</u> Spatial Efficiency	Spatial efficiency relates to the concept of minimum distance to be travelled between a specific location and intended destination. Telecommunication Infrastructure is placed in an area (optimally situated between planned and existing stations) with a reason. This reason is to incorporate various factors (e.g., number of users, quality of service etc.) when considering the placement in order to promote effectiveness and is not merely placed by random.
<u>Principle</u> <u>7d:</u> Spatial Resilience	Spatial resilience can be defined as the ability of a region to withstand possible arising shocks (e.g., economic crisis, social disruptions etc.). However, Telecommunication Infrastructure will be a service that will always be necessary. In a state of crisis, communication plays an integral role in a societal environment.
<u>Principle</u> <u>7e:</u> Good administration	This installation will be lawful and reasonable, following an equal and fair public participation process in order to incorporate the views and opinions of all relevant parties.

6. CONCLUSION

As per the planning By-Law, the application for the consent use and permanent departure to allow a freestanding base telecommunications station on the concerned property will not impact negatively on surrounding uses, heritage or health and safety. As supported by various policies and legislation it is clear that the proposal will have a positive economic and social impact ensuring that the surrounding community benefits from optimal and effective voice and data coverage. The development will not have an impact on parking, coverage or the floor factor. (It should also be noted that the application will aid the Property Owners to regularize the current land use.

Not applicable to this site where there is no existing mast!

Notwithstanding the above, the erection of a Freestanding Telecommunication station will provide an additional passive income to the landowner which in turn can utilize the additional income to uplift the surrounding area.

In light of the above the application has been proven to be desirable and it is hereby kindly requested that the Langeberg Municipality provide their support for the following:

- (i) Consent Use Application in terms of Section 15(2)(o) to allow the additional use of a freestanding base telecommunication station on the above mentioned erf. And, the,**
- (ii) Permanent Departure application in terms of Section 15(2)(b) to allow the street boundary line (shared with Du Toit Street) relaxation from 5.0m to 0.0m and also the height relaxation from 12.0m to 25.0m in order to allow the placement of the proposed development on the Property.**

7. NEXURES

- **ANNEXURE A – TITLE DEED**
- **ANNEXURE B – LUM APPLICATION FORM**
- **ANNEXURE C – POWER OF ATTORNEY**
- **ANNEXURE D - RESOLUTION**
- **ANNEXURE E – S.G. DIAGRAMS**
- **ANNEXURE F – SITE DEVELOPMENT PLAN**
- **ANNEXURE G – DESIGN DRAWINGS**

Besware

Myrna Staal

Beswaar 1

From: Sylvia Theron <sylviatheron@mweb.co.za>
Sent: Thursday, 28 September 2023 09:04
To: Jack van Zyl; Myrna Staal
Subject: Objection to the Proposed Base and Rooftop Station on Rem. Erf 139 (Montagu Primary)
Attachments: Objection to Base Station on Rem erf 139 Montagu_docx was removed from this message

Dear Jack and Myrna,

Re: Objection to the Proposed Freestanding Base Telecommunication Station and Rooftop Base Station on Rem. Erf. 139, Montagu

Please include my objection to the above proposal - see attached for details.

Thank you for your attention.

Kind Regards,

Sylvia Theron

(1A Hospital Street, Montagu)

The Manager: Town Planning,

3 Piet Retief Street,

Montagu,

6720

28 September 2023

Re: Objection to the Proposed Freestanding Base Telecommunication Station (FSBTS) and Rooftop Base Station (RTBS) on the Remainder of Erf 139 (Montagu Primary School), Long street, Montagu

My name is Sylvia Theron (sylviatheron@mweb.co.za), I am a resident and rate payer of Montagu, Western Cape. Reason for comments: I am concerned about the welfare of our community and especially the children.

My objection to the above proposal is based on the following :

- 1) Aesthetics 2) The ICNIRP Exposure Guidelines are Outdated and Deceptive
- 3) Need and Desirability for a Freestanding & Rooftop Base Stations & 5 G
- 4) 5G is a 'silent weapon' 5) Health Risks 6) Legality of 5 G

1) Aesthetics

Highwave's motivation document, point 5 (c) states, that the impact of a base station in our village will have "Minimized physical, natural and visual impact".
This is false!

Montagu is synonymous with mountains, hot springs, mountain climbing, cycling, hiking and swimming - a getaway for visitors, who currently sustain our economy.

If this proposed 35 m base station is approved, it will become the 'centre piece' of our rural village, towering above the single/double storey skyline. It will be marred by an ugly cell tower, covered by an artificial tree and two huge containers, situated right on the road. Children will be playing underneath it, unaware of the

danger of irradiating microwaves above. You just need to measure the radiation with a meter, to understand the gravity of the situation!

2) The ICNIRP Exposure Guidelines are Outdated and Deceptive

Highwave's motivation point 5 e (ii) says the "emissions are only a fraction of the percentage as regulated by ICNIRP" and "non-ionizing radiation is 'every day' radiation"....and does not cause harm. These statements are FALSE (see below)!

- a) The ICNIRP exposure guidelines are based on OUTDATED experiments from 1980, on 5 monkeys and 8 rats, when 1 G was the only 'generation' in use. What about the radiation from addition G's, Wi-fi and 'smart phones'? The 'motivation' states that radiation is safe up to 300GHz!!!
- b) These guidelines are also DECEPTIVE, as they are calculated on exposure of 6 -10 minutes...not 24/7 radiation. In fact, Barrie Tower and Mark Steele, microwave experts, have done the calculations and both say it is an exposure of 6 min/24 hours. However, one must take into consideration that it is an ACCUMULATIVE exposure of slow radiation poisoning. NB: they have only taken the THERMAL effects into consideration and NOT the BIOLOGICAL effects.

[Claire Edwards & Barrie Trower on 5G \(bitchute.com\)](#) (watch 21 – 27.30 min... the fraud and deception

[The ICNIRP - RFInfo:](#)

"The International Commission on Non-Ionizing Radiation Protection (ICNIRP) has long been influential in EMF regulation: its scientific recommendations to WHO were first issued in 1998, updated in 2009, and revised and updated again in March 2020."

"They are based on thermally induced (tissue heating) effects only, which have been undermined by thousands of papers demonstrating serious biological effects at non-thermal levels, and at orders of magnitude below current ICNIRP guideline exposure levels."

"Whilst the guidelines were updated in 2020, these updates increased the maximum exposure times and increased the levels of exposure to allow for further thermal exposure, but continue to ignore the biological effects".

COMMENT

Open Access



Scientific evidence invalidates health assumptions underlying the FCC and ICNIRP exposure limit determinations for radiofrequency radiation: implications for 5G

International Commission on the Biological Effects of Electromagnetic Fields (ICBE-EMF)*

Abstract

In the late-1990s, the FCC and ICNIRP adopted radiofrequency radiation (RFR) exposure limits to protect the public and workers from adverse effects of RFR. These limits were based on results from behavioral studies conducted in the 1980s involving 40–60-minute exposures in 5 monkeys and 8 rats, and then applying arbitrary safety factors to an apparent threshold specific absorption rate (SAR) of 4W/kg. The limits were also based on two major assumptions: any biological effects were due to excessive tissue heating and no effects would occur below the putative threshold SAR, as well as twelve assumptions that were not specified by either the FCC or ICNIRP. In this paper, we show how the past 25 years of extensive research on RFR demonstrates that the assumptions underlying the FCC's and ICNIRP's exposure limits are invalid and continue to present a public health harm. Adverse effects observed at exposures below the assumed threshold SAR include non-thermal induction of reactive oxygen species, DNA damage, cardiomyopathy, carcinogenicity, sperm damage, and neurological effects, including electromagnetic hypersensitivity. Also, multiple human studies have found statistically significant associations between RFR exposure and increased brain and thyroid cancer risk. Yet, in 2020, and in light of the body of evidence reviewed in this article, the FCC and ICNIRP reaffirmed the same limits that were established in the 1990s. Consequently, these exposure limits, which are based on false suppositions, do not adequately protect workers, children, hypersensitive individuals, and the general population from short-term or long-term RFR exposures. Thus, urgently needed are health protective exposure limits for humans and

[Scientific evidence invalidates health assumptions underlying FCC and ICNIRP exposure limits determinations for radiofrequency radiation: implications for 5G \(icbe-emf.org\)](https://icbe-emf.org)

ICNIRP's exposure guideline: [The ICNIRP - RFIinfo](#)

"In 1998 the ICNIRP set a maximum SAR (Specific energy Absorption Rate) level at an energy density of 56 V/m (volts per metre) or 10 W/m² (watts per square meter) for exposure intervals of less than 6 to 30 minutes, as a function of time, to limit temperature rise to below the operational adverse health effect thresholds for both Type-1 and Type-2 tissues averaged on a surface area of the body of only 4cm². This has recently been reviewed but remains unchanged."

“Consider that Peak exposure above about **2 V/m** is **known to be damaging** at a non-thermal level.”

General public exposure:

“Within **50m from a mast** and under 5m drop from the antenna : **for 6 minutes**
!! 87 V/m whole body average”

Occupational exposure:

“Within the **Exclusion Zone**, very close to the mast: **for 6 minutes !! 194 V/m**
whole body average”

Do the maths: 24 hrs x 60 min = 1440 min's in a day / 6 min's = 240 x 86 V/m (ICNIRP's max) = 20 640 V/m of radiation per 24 hours. Their exposure levels are also taken on a surface area of only 4 cm² - their levels of exposure are nonsense and invalid!

WHY HAVE THEY CONTINUED TO USE OUTDATED AND DECEPTIVE EXPOSURE LEVELS, DESPITE THE INCREASE OF RADIATION LEVELS?

Barrie Trower explains: The American Military and Government compiled a document in 1976, using Soviet Research on **biological effects of radiation**. They then warned all Western Governments ('Five eyes') not to alert the public to the harm and to employ the 6 min. rule: **a) to protect profits b) to prevent legal claims by the military c) to allow the military to develop the weapons they wanted.**

[Claire Edwards & Barrie Trower on 5G \(bitchute.com\)](#) (watch 27.30 – 30 min's)

c) Lloyds Insurers Refuse to Cover 5G Wi-Fi Illnesses

NB: Insurance companies are **WARNING**, that should schools and organisations install WI-FI....**THEY** will be held liable for any claims of death /illness caused to students or employees. Read the link below:

[Lloyds Insurers Refuse to Cover 5G Wi-Fi Illnesses – Le Vaud sans antennes – Switzerland](#)

d) Non-Ionizing Radiation:

Highwave's motivation 5 e (ii) states that this kind of radiation is "everyday" and "do not have enough energy to cause harm". This is also false.

Non-ionizing radiation: "Has a carcinogenic power thousands of times greater than that of ionizing radiation." [The ICNIRP - RFInfo](#)

Barrie Trower explains why Non-Ionizing Radiation is so deadly. We have a 'Protein 53 and nuclear pore complex' which is trained to repair radiation from electrical storms. At low levels, it is activated slowly and so radiation poisons accumulate over time - mainly in the brain and immune system. [Claire Edwards & Barrie Trower on 5G \(bitchute.com\)](#) (watch 17 – 20 mins.)

3) Need and Desirability for a Freestanding & Rooftop Base Stations & 5 G:

Highwave's Motivation (point 5a): argues that there is enough coverage for Montagu Village - the base station is needed for 'remote areas'. 5 G technology uses millimetre frequency waves which don't travel far... so, it is all about linking the SMART CONTROL GRID NETWORK - see point 5 (c), it states, that in this specific area base stations need "to be approximately 500 m apart on average".

The Real 'Need' and Agenda for 5G :

The Globalist driving this '2030 agenda' need a technology that can handle VAST amounts of data for their SMART CONTROL GRID.

'WAR ON HUMANITY' - Background:

In May 1954 the first 'Bilderberg meeting' was held in the Netherlands – where WW3 was declared on humanity, using 'Silent Weapons' (see below). Today, those 'silent weapons' include 5 G microwave weapons - 'silent, with invisible radiation'. Their stated goal: *"the engineering of social automation systems (silent weapons) on a national or worldwide scale without implying extensive objectives of social control and destruction of human life, i.e., slavery and genocide."*

TOP SECRET

Silent weapons for quiet wars

Operations Research Technical Manual
TW-SW7905.1

Welcome Aboard

This publication marks the 25th anniversary of the Third World War, called the "Quiet War", being conducted using subjective biological warfare, fought with "silent weapons".

This book contains an introductory description of this war, its strategies, and its weaponry.

May 1979 #74-1120

Security

It is patently impossible to discuss social engineering or the automation of a society, i.e., the engineering of social automation systems (silent weapons) on a national or worldwide scale without implying extensive objectives of social control and destruction of human life, i.e., slavery and genocide.

This manual is in itself an analog declaration of intent. Such a writing must be secured from public scrutiny. Otherwise, it might be recognized as a technically formal declaration of domestic war. Furthermore, whenever any person or group of persons in a position of great power and without full knowledge and consent of the public, uses such knowledge and methodologies for economic conquest - it must be understood that a state of domestic warfare exists between said person or group of persons and the public.

The solution of today's problems requires an approach which is ruthlessly candid, with no agonizing over religious, moral or cultural values.

[SILENT WEAPONS for QUIET WARS.pdf \(stopthecrime.net\)](#)

ALSO, in July 2001 (just before 9/11), NASA put out their 'NASA War Document' in power-point format, listing the war strategies they would be using on the "Enemy after next". These strategies included using 'Low power microwaves', to cause the conditions listed below: Ref. [01-nasa-thefutureof-war-2-up.pdf \(stopthecrime.net\)](#)



EFFECTS OF LOW POWER MICROWAVES (U.S. ARMY, SRI, WALTER REED)

- Behavioral performance decrements
- Seizures
- Gross alteration in brain function
- 30 % to 100 % increases in brain blood flow
- Lethality
 - Interactions between low power (microwatts per sq. cm./4 to 3 GHz) MW and brain function

Center Strategic Studies, 1998

The Role of 5 G in this 'War':

3(a) 5 G To Power the 'Fourth Industrial Revolution' Infrastructure

In order to impose their New World Order on society, the 'Elites' have to deploy a mechanism POWERFUL enough to collect ALL the data from their 'smart control grid'. Enter 5G base stations and Starlink satellites.

The Stated Purpose of 5 G from the World Economic Forum's (WEF) website:

WEF Global Future Council on New Network Technologies 2020.pdf (weforum.org), to power: 'The internet of Things' (IoT), Artificial Intelligence (AI), Augmented reality(AR)/Virtual Reality (VR), other exotic, immersive and futuristic scenarios. They are using 5G (data) to facilitate their 'Fourth Industrial Revolution' ie. TRANS-HUMANISM.

This technology will drive their 'smart grid' of: SMART CITIES (prisons); SMART METERS; ELECTRIC VEHICLES; 15 MINUTE CITIES; DIGITAL CURRENCY; FACIAL RECOGNITION; MIND AND 'HEALTH' CONTROL.

3(b) The Interface of 5G and the Covid-19 Injections:

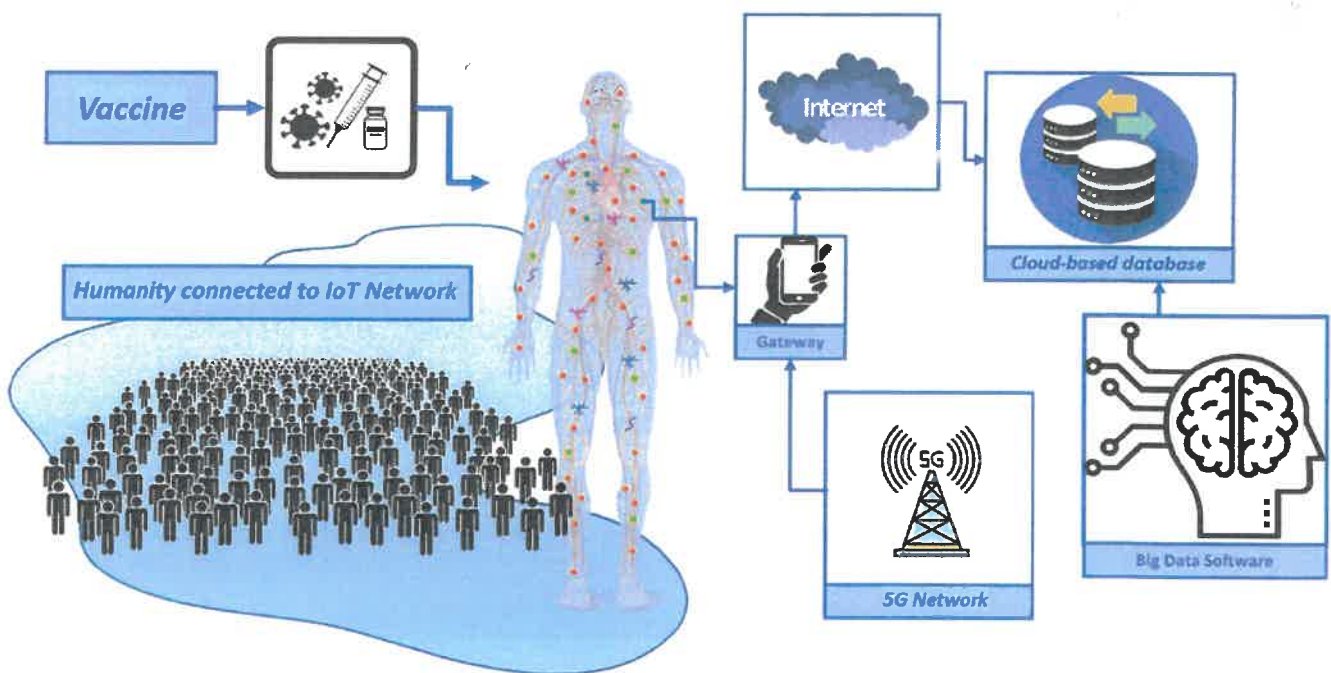
"COVID 19 vaccine, polluted with a Nano antenna technology to hook the victim up to the 5G network". Mark Steele:

5G INFO – StopTheCrime

The idea is to hook everything /everyone to the 'Internet of Things' network. Internal Nano Routers are now emitting MAC addresses, via Bluetooth, in individuals who have taken the covid-19 injections.

Wiki 'MAC':

"A media access control address (MAC address) is a unique identifier assigned to a network interface controller (NIC) for use as a network address in communications within a network segment."



3(b) The Interface between 5 G and the Covid -19 'operating systems' will serve to drive:

- i) The Central Bank Digital Currencies (CBDC) will be operated through injected nano software – Microsoft patent W0202060606.
- ii) Digital Passports to show your 'health' and vaccination status.
- iii) Surveillance, track and tracing and more.

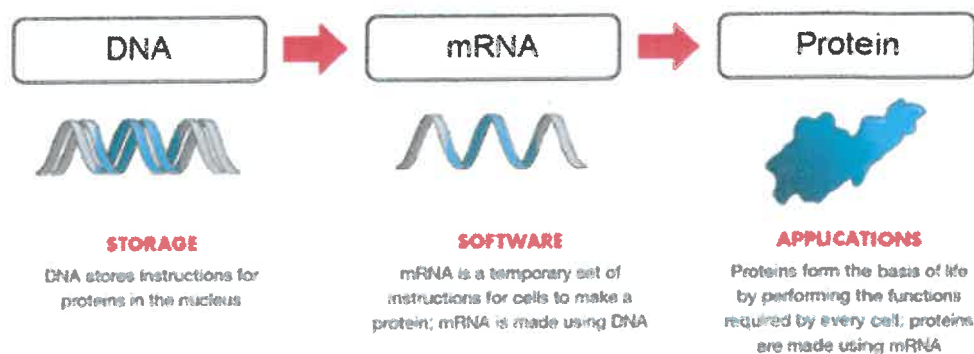
50

<https://www.modernatx.com/mrna-technology/mrna-platform-enabling-drug-discover...>

Our Operating System

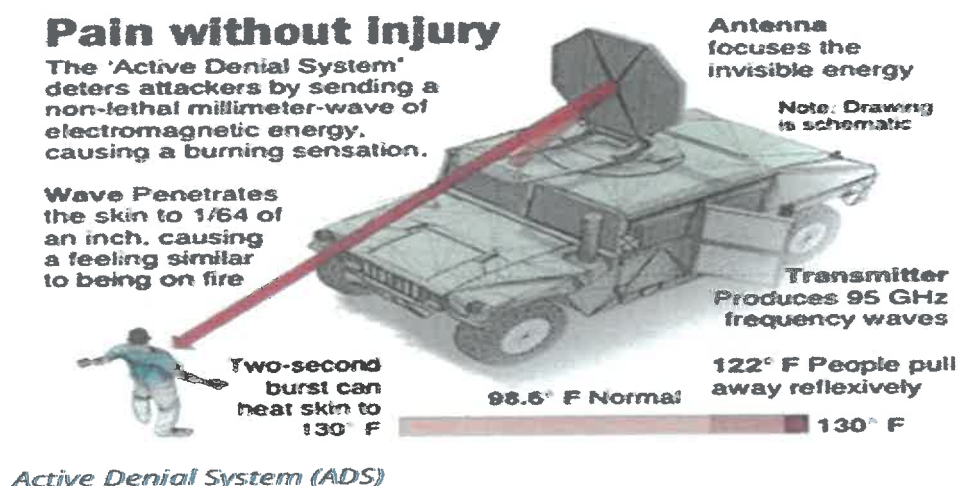
Recognizing the broad potential of mRNA science, we set out to create an mRNA technology platform that functions very much like an operating system on a computer. It is designed so that it can plug and play interchangeably with different programs. In our case, the "program" or "app" is our mRNA drug - the unique mRNA sequence that codes for a protein.

We have a dedicated team of several hundred scientists and engineers solely focused on advancing Moderna's platform technology. They are organized around key disciplines and work in an integrated fashion to advance knowledge surrounding mRNA science and solve for challenges that are unique to mRNA drug development. Some of these disciplines include mRNA biology, chemistry, formulation & delivery, bioinformatics and protein engineering.



4) 5G is a 'silent weapon' – the enforcer/control mechanisms; for depopulation, sterilization and mind control

- a) The U.S. Military has a 'crowd control weapon' (using the same millimetre waves) called 'Active Denial' as 5G.

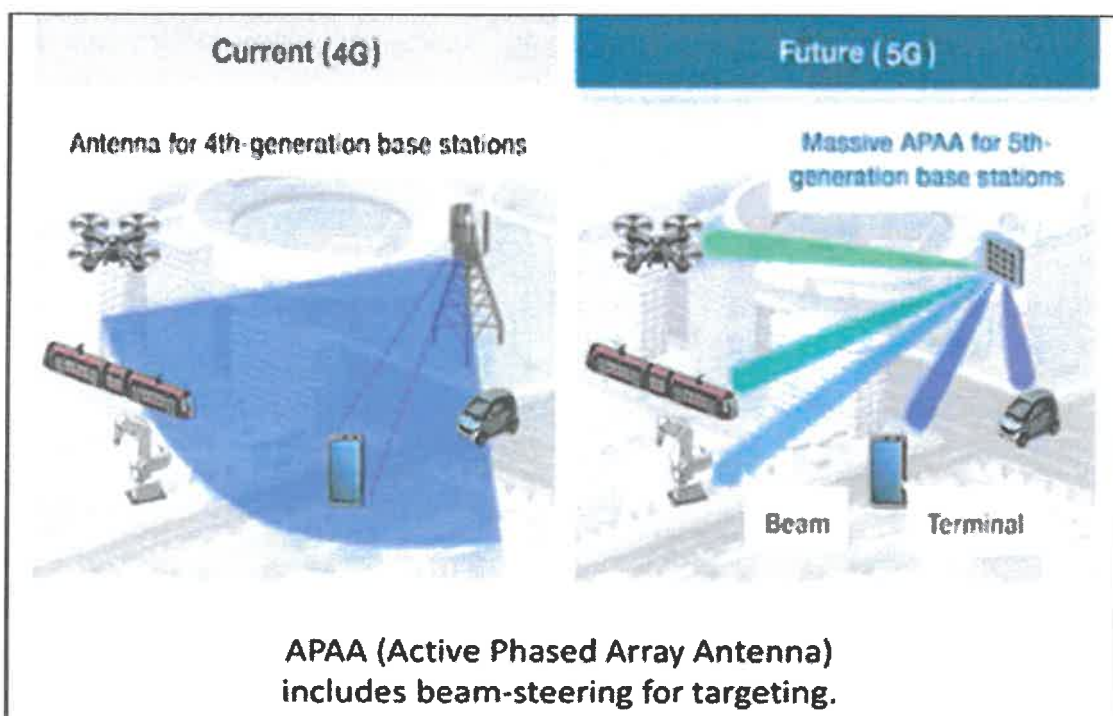


<https://www.knowingthetruth.com/5g-and-active-denial-systems-the-truth-about-the-5g-rollout/>

Israeli research studies presented at an international conference reveal that the same electromagnetic frequencies used for crowd control weapons form the foundation of the latest network – branded as 5G – that will tie together more than 50 billion devices as part of the Internet of Things. Current investigations of wireless frequencies in the millimeter and submillimeter range confirm that these waves interact directly with human skin, specifically the sweat glands. Dr. Ben-Ishai of the Department of Physics, Hebrew University, Israel recently detailed how human sweat ducts act like an array of helical antennas when exposed to these wavelengths. Scientists cautioned that before rolling out 5G technologies that use these frequencies, research on human health effects needed to be done first to ensure the public and environment are protected.

5G and Active Denial Systems: The Truth About The 5G Rollout : Knowing The Truth

- b) **Targeting people** through DNA profiles. Everything has a frequency signature, so they can target crowds or individuals – they are DEW's (Directed Energy Weapons). The diagram below is from Elana Freeland, author of many books on Geo-engineering and Trans-humanism.



- c) The unique properties of 60 GHz, which can literally suck the O₂ availability to us, right out of the air. This frequency excites the O₂ molecules, resulting in the hemoglobin in your blood not being able to utilize these oxygen molecules. This is an existential threat!



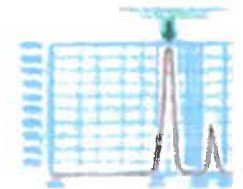
News | April 10, 2001



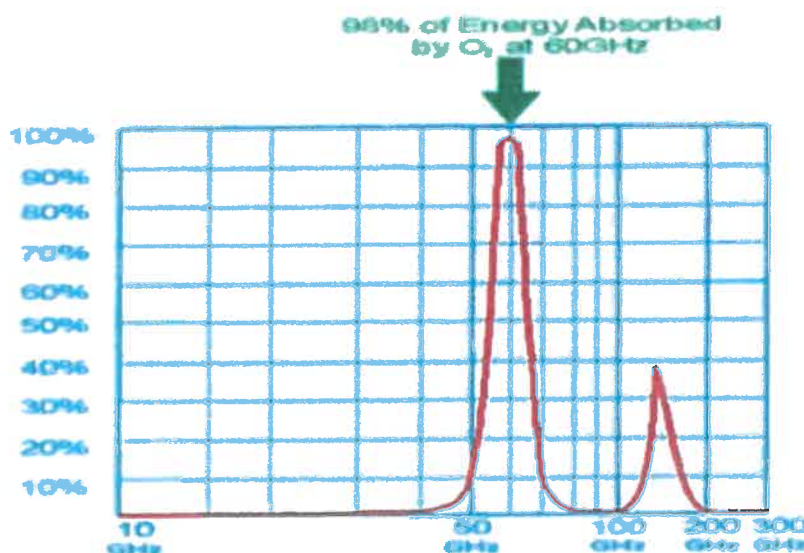
Fixed Wireless Communications at 60GHz Unique Oxygen Absorption Properties

by Shigeaki (Shey) Hokusui, President, Harmonix Corporation

The demand for bandwidth is growing at a rapid pace. International Data Corporation projects that Internet commerce in the United States will grow from \$74 billion in 1999 to \$708 billion in 2003, with the number of computer users more than doubling from 21 million to 121 million in the U.S. alone. Due to the



Enlarged graph from article above.



- d) Sterilization: Barrie Trower, a microwave expert, explains that little girls are born with a set number of eggs in their life time. If these eggs are constantly irradiated, it will result in DNA defects (which will be passed on to the next generation)... or sterility. Microwaves cook from the inside out.

[Barrie Trower: Wireless technology damages children and future generations - YouTube](#)

- [Claire Edwards & Barrie Trower on 5G \(bitchute.com\)](#)

- ## 5G – S.M.A.R.T. = Secret Militarized Armaments in Residential Technology



- i) **The Invisible Rainbow: "A History of Electricity and Life" written by Arthur Firstenberg** argues that: 'flu-like symptoms' are caused by 'radiation poisoning'. When changes in the electromagnetic frequencies of the earth happen, due to the installation of new equipment (man-made frequencies), 'dis-ease' follows, as the body tries to expel the toxins/radiation poison. See examples below. The 'Schumann Resonance' of 7,83 Hz is the 'earth's heartbeat'. Nature is in tune with this resonant frequency.

In 1889 we had the installations of POWER LINES and 'Russian Flu'
In 1918 we had the Radio Era – 'Spanish Flu'

In 1957 we had the Radar Era – ‘Asian Flu’

In 1968 we had the Satellite Era – ‘Hong Kong Flu’

In 2019 we had the roll out of 5G – COVID-19, which started in Wuhan, China, where they switched on the first 5 G towers!

Since the ‘jabs’ were actually developed by the U.S. DOD (Department of Defence) , perhaps ‘COVID-19’ was an acronym for ‘Certificate Of Vaccination IDentification 2019’ and had nothing to do with ‘health’, but everything to do with their agenda!

[!\[\]\(339a16584d5da0f0a3ca4e9ec17bf6a1_img.jpg\) BOMBSHELL: New FOIA Documents Reveal the COVID Pandemic Was a DoD Operation Dating Back to Obama \(rumble.com\)](#) (planned from 2012/2013)

- ii) *The Kaznacheyev Effect: “As Kaznacheyev's experiments showed, any death or disease pattern can be induced upon an electromagnetic carrier -- specifically, upon the near-ultraviolet as an example.”*

“It thus appears reasonable that, by placing the proper frequency pattern in the modulations of the substructure waves feeding into the translator/transmitter, the scalar ray or beam can be made highly selective as to body part affected and the effect generated or kindled in the body.

By this means, specifically tailored attacks on the body can be created.

Strong emotions such as sheer terror, overpowering rage, blind panic, etc. can be induced. Or physical effects such as epileptic seizure, loss of control of internal functions, loss of muscular control, severe weakness, specific failure of an individual organ such as the heart or liver, or blackouts and comas can be induced. In addition, patterns for specific toxins and diseases can be induced. With a strong absorption, these changes can be effected quickly.”

In short: The Kaznacheyev Effect, or cytopathogenic effect – “thousands of experiments proved that: 1) Cellular disease is electromagnetic 2) It can be induced electromagnetically at a distance.”

Of course BENEFICIAL effects can also be accomplished. [Part 4 \(billstclair.com\)](#)

“Future medicine will be the medicine of frequencies.” — Albert Einstein

SS

In the light of the Kaznachev experiments, I found this interesting: in May 2020, at the height of 'COVID', a cell phone technician found these 'COV-19' closed units in a 5G tower. 'Fact checkers' tried to debunk it as 'equipment from an old t.v.'!



h) Microwaves can be used for mind control

Research 'MK- Ultra'; 'Voice to Skull' and 'Entrainment', to name a few.

5) Health Risks to Children in Particular

According to: [What are the Health Risks of 5G? All Your Questions Answered. \(shieldyourbody.com\)](https://shieldyourbody.com/what-are-the-health-risks-of-5g-all-your-questions-answered/)

"A 2014 study, published in *Journal of Microscopy and Ultrastructure*, "Children absorb more MWR [microwave radiation] than adults because their brain tissues are more absorbent, their skulls are thinner and their relative size is smaller."

"The Specific Absorption Rate for a 10-year old is "up to 153% higher than the SAR for the SAM model," says the study. "When electrical properties are considered, a child's head's absorption can be over two times greater, and absorption of the skull's bone marrow can be ten times greater than adults."

"There are other reasons, too, why children are at a higher risk and require more protection. Like the fact that their bodies and brains are still in development. As British physicist Barrie Trower [explains](#), "Children are physiologically and neurologically immature. It takes years for [the blood-brain barrier](#) to form, leaving children more prone to cell-leakage from microwave radiation. And a person's immune system, which fights off damage, takes 18 years to develop."

Barrie Tower references 200 schools in Europe, who installed transmitters on playgrounds - this resulted in several clusters of Leukemia. The threat is real!

6) Legality of 5G

- a) The roll out of 5 G contravenes a number of International Treaties, including **'The Nuremberg Code'**, since it is illegal to experiment on people without their informed consent or knowledge. . 'Ignorance' and 'just following orders' (Nuremberg Code) are not a defence, if you have caused harm!
- b) The **'Precautionary Principle'** should be implemented in this case. This principle shifts the burden of proof to the person who is asserting that the activity would not be harmful.
- c) The ICNIRP's exposure guidelines are fraudulent and outdated.
- d) Know the difference between **'LAWFUL'** and **'LEGAL'**. **'LAWFUL'** is natural/common law, created for sovereign men/women by our creator – the only law you need to remember here is: 'do no harm'.

'Lawful' has jurisdiction over 'legal'.

Government Corporations can therefore make things 'legal', but it doesn't mean they are **LAWFUL** ('do no harm').

'LEGAL' are man-made statutes and policies made for Corporations /legal entities, also known as 'contract law', and are not applicable to sovereign individuals, unless you have contracted with these Government Corporations.

A worldwide movement by 'InPower', is spearheading an initiative to hold perpetrators of harm PERSONALLY responsible, with 'NOTICES OF LIABILITIES', which rely on natural law. Perpetrators can now no longer hide behind their Corporation's might.

[InPower Episode #1: A Mass Action of Liability \(2017\) - YouTube](#)

Initiatives to stop the roll out of 5 G are using the 'BioInitiative Report', which is a compilation of hundreds of peer reviewed papers from 10 countries.

[BioInitiative Report: A Rationale for a Biologically-based Public Exposure Standard for Electromagnetic Fields \(ELF and RF\)](#)

CONCLUSION:

Barrie Trower gives lectures and interviews world-wide. Leaders have told him about the modus operandi used by Telecommunication Corporations. One African Kings described the infiltration /take-over of his country as follows: they enter your country with lies and promises. After 100 000 transmitters were installed, we noticed the loss of our ant populations.... then the pollinating insects. Soon crops began to fail and people became sick and hungry. The Corporations then promised food and medicines. Debt followed, and the Corporations started to demand land for military bases and mining rights as payment. Foreign Corporations now dictate the terms of engagement in my country.

[MICROWAVE WEAPONRY'S USE ON PEOPLE EXPLAINED BY DR BARRIE TROWER - YouTube](#)

Claire Edwards, former U.N., proof reader for 18 years and Barrie Trower, discuss safer options than WIFI in schools, work and home, in order to obtain access to the internet.... with FIBRE and a WIRED CONNECTION.

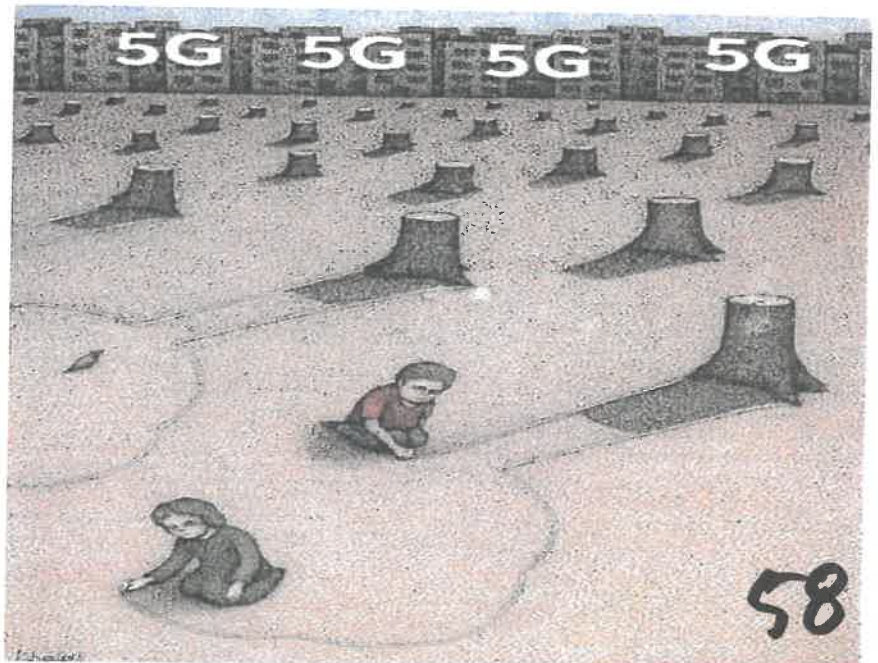
When all the pollinators and trees have gone....humanity will look back (if we are still here) and realize how we were deceived by greed and evil intent!

[Claire Edwards & Barrie Trower on 5G \(bitchute.com\)](#)

Thank you for your attention.

Regards,

Sylvia Theron



From: Sally Gmail <slanham882@gmail.com>
Sent: Monday, 02 October 2023 14:38
To: Jack van Zyl; Myrna Staal
Subject: PROPOSAL CELL TOWER ON THE GROUNDS OF THE MONTAGU PRIMARY SCHOOL
Attachments: EMFscientist.org - Home.pdf

Langeberg Municipality
Montagu, 6720 Western Cape

2 October, 2023

Attn: Mr. J van Zyl & Ms M Staal

Good day Ms van Zyl and Staal,

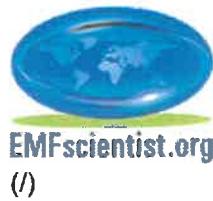
OBJECTION TO THE ERECTION OF A TOWER ON THE GROUNDS OF THE MONTAGU PRIMARY SCHOOL
SALLY ANN LANHAM, RESIDENT AND PROPERTY OWNER OF MONTAGU OBJECTION DUE TO DANGERS OF CELL
TOWERS IN RESIDENTIAL AREAS

I hereby record my objection to the above proposal due to the following:

1. The document submitted in support of the application of the above, tables a report in respect of the dangers of the radiation emitted by these towers and states these are not significant. On the contrary, I wish to make reference to the website EMF Scientists.Org wherein over 250 doctors and scientists from 44 countries, have provided evidence as to the dangers of wireless radiation, especially to children.
2. The properties surrounding this tower will be negatively impacted both in terms of value and radiation exposure as a result of this tower.

Yours faithfully,

SA Lanham
083 959 1048
Slanham882@gmail.com



Welcome to EMFscientist.org

The International EMF Scientist Appeal serves as a credible and influential voice from EMF (electromagnetic field) scientists who are urgently calling upon the United Nations and its sub-organizations, the WHO and UNEP, and all U.N. Member States, for greater health protection on EMF exposure.

**To: His Excellency Antonio Guterres, Secretary-General of the United Nations;
Honorable Dr. Tedros Adhanom Ghebreyesus, Director-General of the World Health Organization;
Honorable Inger Andersen, Executive Director of the UNEP Environment Programme;
U.N. Member Nations**

As of July 14, 2023, 259 EMF scientists from 44 nations and 15 Supporting Scientists from 11 nations have signed the Appeal.

GO TO THE APPEAL PAGE (</index.php/emf-scientist-appeal>)

The Advisors to the Appeal sent a letter to the U.N. Human Rights Advisory Committee commenting on its July 2019 Resolution, entitled "New and Emerging Digital Technologies and Human Rights":

"Wireless communication technologies are rapidly becoming an integral part of every economic sector. But there is a rapidly growing body of scientific evidence of harm to people, plants, animals, and microbes caused by exposure to these technologies.

It is our opinion that adverse health consequences of chronic and involuntary exposure of people to non-ionizing electromagnetic field sources are being ignored by national and international health organizations despite our repeated inquiries as well as inquiries made by many other concerned scientists, medical doctors and advocates.

This constitutes a clear violation of human rights, as defined by the United Nations:

"Human rights are rights inherent to all human beings, regardless of race, sex, nationality, ethnicity, language, religion, or any other status. Human rights include the right to life and liberty, freedom from slavery and torture, freedom of opinion and expression, the right to work and education."



Comment letter sent to the U.N. Human Rights Advisory Committee on October 15, 2019 (/images/docs/UN-Human-Rights-letter-10-15-19.pdf)

U.N. Environment Programme Urged to Protect Nature and Humankind from Electromagnetic Fields (EMF)

4G/5G antenna densification is escalating health risks - a global crisis

New York, NY, July 22, 2019. The Advisors to the International EMF Scientist Appeal, representing 248 scientists from 42 nations, have resubmitted **The Appeal** to the United Nations Environment Programme (UNEP) Executive Director, Inger Andersen, requesting the UNEP reassess the potential biological impacts of next generation 4G and 5G telecommunication technologies to plants, animals and humans.

There is particular urgency at this time as new antennas will be densely located throughout residential neighborhoods using much higher frequencies, with greater biologically disruptive pulsations, more dangerous signaling characteristics, plus transmitting equipment on, and inside, homes and buildings. The Advisors to **The Appeal** recommend UNEP seriously weigh heavily the findings of the independent, non-industry associated EMF science

The Advisors to the International EMF Scientist Appeal - Annie Sasco, MD, Dr.PH., Henry Lai, Ph.D., Joel Moskowitz, PhD., Ronald Melnick, Ph.D. and Magda Havas, Ph.D., call upon the UNEP to be a strong voice for the total environment of the planet, and an effective catalyst within the United Nations with regards to the biological and health effects of electromagnetic pollution.

 [**The complete Press Release is here and it links to the recent letter to the UN Environment Programme \(UNEP\).**](#)
[**\(/EMF_Scientist_Press_Release_22_July_2019.pdf\)**](#)

The press release has been translated in 11 different languages. For further translations, scroll to translator at the bottom of this page.

 [**Press Release - Arabic**](#)
[**\(/images/docs/EMFscientist_Arabic_4068561c.docx\)**](#)

 [**Press Release - Dutch**](#)
[**\(/images/docs/EMFscientist_Dutch_summary_4068561c.docx\)**](#)

 [**Press Release - French**](#)
[**\(/images/docs/EMFscientist_French_4068561c.docx\)**](#)

 [**Press Release - German**](#)
[**\(/images/docs/EMFscientist_German_4068561c.docx\)**](#)



Press Release - Italian

(/images/docs/EMFscientist_Italian_summary_4068561c.docx)



Press Release - Japanese

(/images/docs/EMFscientist_Japanese_4068561c.docx)



Press Release - Korean

(/images/docs/EMFscientist_Korean_4068561c.docx)



Press Release - Portuguese

(/images/docs/EMFscientist_Portuguese_4068561c.docx)



Press Release - Simplified Chinese

(/images/docs/EMFscientist_Simplified_Chinese_4068561c.docx)



Press Release - Spanish

(/images/docs/EMFscientist_Spanish_4068561c.docx)



Press Release - Traditional Chinese

(/images/docs/EMFscientist_Traditional_Chinese_4068561c.docx)

Summary of the Appeal

The **Appeal** is being signed by scientists who have published **peer-reviewed papers on the biological or health effects of non-ionizing electromagnetic fields**, part of the electromagnetic field (EMF) spectrum that includes extremely low frequency fields (ELF) emitted by electrical devices; and, radiofrequency radiation (RFR), used for wireless communications. Scientists who have published peer-reviewed papers in related fields and have been significantly engaged in EMF education, are recognized as Supporting Scientists.

The Appeal urgently calls upon the United Nations, the WHO, UNEP and the UN Member States to:

- **Address the global public health concerns** related to exposure to cell phones, power lines, electrical appliances, wireless devices, wireless utility meters and wireless infrastructure in residential homes, schools, communities and businesses.

The scientific findings identified by the signators and others justify this appeal. The World Health Organization (WHO) is encouraged to exert strong leadership in fostering the development of more protective EMF guidelines, to call for precautionary measures, and to educate the public about health risks, particularly risks posed to children and to normal fetal development. **By not taking action, the WHO is failing to fulfil its role as the preeminent international public health agency.**

- The United Nations Environmental Programme (UNEP) is the U.N.'s "**voice for the environment**" and is uniquely positioned to take a planetary view of the potential for harm that EMF pollution presents to, biology -- evolution, health, well being, and very survival of all living organisms world-wide.

- We encourage the U.N. to ask UNEP to evaluate the scientific evidence and initiate an assessment of alternative exposure standards and practices that could substantially lower human exposures to non-ionizing electromagnetic fields.



Note: The Appeal was initially submitted on May 11, 2015



Press Release announcing International EMF Scientist Appeal (May 11, 2015)

(https://www.emfscientist.org/images/docs/EMF_Scientist_Press_Release_5-1-2015.pdf)

The National Toxicology Program (NTP) concluded in two final reports (<https://ntp.niehs.nih.gov/results/areas/cellphones/index.html>) released November 1, 2018, that there is clear evidence that male rats exposed to high levels of radio frequency radiation (RFR), like that used in 2G and 3G cell phones, developed cancerous heart tumors. There was also some evidence of tumors in the brain and adrenal gland of exposed male rats.

For more information, see [here](https://www.emfscientist.org/index.php/science-policy/emf-science-and-related-policy-developments) (<https://www.emfscientist.org/index.php/science-policy/emf-science-and-related-policy-developments>).

Statement by the Advisors to the International EMF Scientist Appeal August 18, 2017

In addition to the technological advancements that have been transforming the electrical power and telecommunications industry over the last few decades, we are now witnessing a new infrastructure deployment – 5th generation (5G) wireless broadband, and the Internet of Things - that promises to establish a globally connected world. Some parts of 5G will operate at much higher frequencies than before, into the millimetre range. This new infrastructure will be transmitting through the environment with a multitude of low powered micro-sensors (emitters and sensors).

There is scientific evidence to cause concern among independent scientists, that this new infrastructure, on top of existing electrical and wireless infrastructures, will cause more harm to mankind and nature. People who suffer from electrical sensitivity are facing the reality that they may have no place to go that is free from EMF hazards.

New U.N. Guiding Principles on Business and Human Rights, issued in June 2017, realize that “the human rights of all” are an important aspect to achieving the U.N’s Sustainable Development Goals. These principles hold that business and investment do not come at the cost of human rights, based on the three pillars of “Protect, Respect and Remedy”. The current practice of deploying new technologies, without first completing an investigation to ensure there is no possible harm, violates these principles.

We recommend that, in keeping with the U.N. Guiding Principles on Business and Human Rights, to “Protect, Respect and Remedy”, 5G technologies must be subjected to an independent health and safety assessment before they are launched.

Open the document,

(http://www.ohchr.org/Documents/Publications/GuidingPrinciplesBusinessHR_EN.pdf)

We invite you to view a three-minute video of the late **Dr. Martin Blank** (1933-2018) announcing the Appeal. Dr. Blank brought over 30 years of experience conducting EMF research at Columbia University and served as president of the Bioelectromagnetics Society. In his own words, Dr. Blank gives a compelling explanation of the global public health crisis we are now facing due to increasing levels of environmental pollution from electrical and wireless infrastructures and devices that are supported by a multitude of EMF sources.

**VIDEO: International Scientist Appeal on Electromagnetic
Spokesperson**

ElectromagneticHealth.Org



Video: Dr. Martin Blank's presentation dubbed in French

(http://videos.next-up.org/EhsTvNews/CEM_Appeal_Scientifiques_UNU_11_Mai_2015/) (Next-up.org (<http://www.next-up.org/NewsOfTheWorld/BioInitiativeIntro.php>))



Video: Dr. Martin Blank's presentation dubbed in Spanish

(<https://vimeo.com/129816006>) (Avaate.org (<http://www.avaate.org/spip.php?article2615>))



Complete script of Dr. Martin Blank's presentation

([/images/docs/Script-Introduction_to_the_United_Nations_EMF_Appeal_Delivered_by_Martin_Blank.pdf](#))

Do you want to sign the International EMF Scientist Appeal?

If you are interested in signing the Appeal, we invite you to contact us at info@EMFscientist.org (<mailto:info@EMFscientist.org>).
(<mailto:info@EMFscientist.org>.)

- You are qualified to sign the Appeal as an EMF scientist if you have published peer-reviewed papers in science journals on the biological and health effects of non-ionizing radiation.
- You are qualified to sign the Appeal as a Supporting Scientist if you have published peer-reviewed papers in a related field and have contributed in a sustained manner to increased understanding about EMF science and the need for more protective policies.
- Please provide accompanying citations.

Regards,

Elizabeth Kelley, MA

Director, EMFscientist.org

On behalf of the Scientific Advisors to the International EMF Scientist Appeal: Magda Havas PhD., Henry Lai PhD., Ronald Melnick PhD., Joel Moskowitz PhD., and Annie Sasco, M.D., DR PH.

To contact us, click [here \(/index.php/emfscientist-about-us#form\)](#).

"Never doubt that a small group of thoughtful, committed citizens can change the world; indeed, it's the only thing that ever has."

Margaret Mead

Translate this site in your language

Select Language



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bunker&bunker (<http://www.bunkerbunker.it>)



From: Jack van Zyl
Sent: Tuesday, 03 October 2023 14:49
To: Myrna Staal
Subject: FW: Objection to 5g towers in Montagu

Jack van Zyl
Professionele Beplanner (A/1170/2022)
Senior Stadsbeplanner



023 614 8000
jvzyl@langeberg.gov.za

From: David Olivier <hrdavidolivier@gmail.com>
Sent: Tuesday, October 3, 2023 2:17 PM
To: Jack van Zyl <JvZyl@langeberg.gov.za>
Subject: Objection to 5g towers in Montagu

Dear Mr. Van Zyl,

I wish to table my objection to the planned 5g cellphone towers in Montagu. The tower on the premises of the primary school at 35m height would be such an eyesore as to completely change the look of our town. If historical buildings are worth preserving, then so much more the quaint look our town is well known for. The radiation emitted by 5g is far greater than current 4g towers. Medical professionals in Germany have proven even wifi to have negative medical consequences and convinced the German government to ban wifi in schools. The scientific facts are irrefutable. Even a cursory enquiry about cell phone radiation causing damage to people's health is sufficient to warrant the rejection of these planned towers in our town.

Thank you and kind regards,
David Olivier
0729665514

Objection to proposed erection of 5G tower within the proximity of young children whilst at school.

Attention The Manager: Town Planning, Montagu.

Name of Objector:- Clive AT Gullifer

2nd October 2023

Resident of Montiki Hoog Str. Montagu.

I wish to place on record that I have accumulated several scientific studies based on the detrimental effect of high frequency transmissions, such as those emitted by 5G equipment on the health of humans, and more specifically, children.

The proposed "Free standing Base Station" and the "Rooftop Base Station", according to scientific studies referenced later in this objection, will have a dramatic detrimental impact on the health, and lives of such young children at the Montagu Primary School.

The future legal liability for proven damage to these children's health, will rest firmly with the person, or persons approving the aforementioned application.

I am supplying the minimal of references as there are over 100 peer review studies, and Court cases which have been won, in proving the damaging effects of 5G. Now that all parties to this proposal have been informed of the proven scientific research results, by means of this objection, there is sufficient evidence to ensure criminal negligence of any person or body approving this installation in any school.

It is further determined that the 5G equipment, is not required, or necessary, for the education or wellbeing of our children in Montagu.

I therefore request that Montagu Municipality reject this application for the installation of 5G, in the vicinity of the Montagu Primary School.

Yours sincerely,



Clive AT Gullifer

(2)

Links to a minimal amount of evidence relating to the potential damage that could be inflicted by 5G radiation.

[Https://youtu.be/4NTSejTc?feature=shared](https://youtu.be/4NTSejTc?feature=shared)

www.Globalresearch.ca/wireless-radiation-stop-the-5G-network-on-earth-and-in-space-devastating-impacts-on-health-and-the-environment/565066

Plus over 100 peer reviewed research papers, and many Court cases of findings against the damage being caused by 5G, if required.

Delivered by hand

Berwaar 5

To: The Municipal Manager, Town Planning

3 Piet Retief St

Montagu, 6720

Western Cape

23-10-05

Dear Sir,

I am appalled that this site has even been considered for a 5-G Tower. The reasons given do not convince me of its necessity in the first place.

Any educator or parent signing such a petition has obviously not studied the implication of having such a tower for every minute that their children spend on the premises. Same goes for the adults.

From my point of view the cons far outweigh the pros. I object to this idea and sincerely hope that it is NEVER allowed here. If such a tower DOES end up in Montagu, may it be on the mountain side where people may pass by, spending just a few minutes within its toxic range. May it NEVER be within 500 meters of residential, commercial and other inhabited areas.

Thank you for your attention to this serious matter.



Cate O'Rourke

41 Berg St

Montagu

From: Zanne Kriel <zannekriel4@gmail.com>
Sent: Thursday, 05 October 2023 16:11
To: Jack van Zyl
Cc: Myrna Staal
Subject: Seltoring by Laerskool

Geagte Heer/Dame

Seltoring by Laerskool Montagu

Hierdie is skrywe is as teenkanting teen die oprigting van toring.

Die nadele vir mense en veral kinders met blootstelling aan 5G is nie voldoende bespreek vir die oprigting van so 'n toring naby 'n konsentrasie van mense en veral kinders nie. Daar is vele skrywes met bewyse dat bestraling plaasvind wat nadelig is vir mense. Daar is selfs die moontlikheid dat dit kanker kan veroorsaak. Kan nie dink dat 'n klein gemeenskap soos Montagu se munisipaliteit nie meer moeite doen om die nadele van so 'n toring te ondersoek nie. Die blootstelling aan straling van so 'n toring is basies in Montagu se besigste sentra.

Ouers is ook nie voldoende ingelig oor die nadele van so 'n toring naby skoolgaande kinders nie. Dit sluit die Hoërskool Montagu ook in. Die voordeel van 5G kan nie die enigste oorweging wees nie, want die moontlike langtermyn gesondheidsrisiko's is net te groot.

By voorbaat dank

SJ Kriel
Montagu

Sent from my iPhone

Myrna Staal

Beswaar 7

From: John Montagu <2johnmontagu@gmail.com>
Sent: Thursday, 05 October 2023 16:04
To: Jack van Zyl; Myrna Staal
Subject: OBJECTION of 5G Tower / Montagu School

To Langeberg Municipality

Hereby please note my OBJECTION to the 5 G tower that is being considered for implementation in the Montagu area.

These towers are an unproven science and we do not know what the side effects will be. I find it quite disgusting that governments all over the world are sticking these towers at schools, amongst the vulnerable ie: our developing children.

In Peru these towers are being dismantled, due to the children and public getting very sick since their roll out. These frequencies are not required, are harmful until proven otherwise and I say NO!

Regards
Nadja Engel
30 Joubert Street, Bergsig
0833242700

Sent from [Outlook for Android](#)

From: Olivier, Juanita <Juanita.Olivier@nov.com>
Sent: Thursday, 05 October 2023 15:43
To: Jack van Zyl; Myrna Staal
Subject: Remainder erf 139 Longstreet _ freestanding base Telecommunication Station. -
Vote NO

I wish to table my objection to the planned telecommunication station in Longst. in Montagu .
Please ensure that this vote is counted.

1. The tower on the premises of the primary school at 35m height would be such an eyesore as to completely change the look of our town. If historical buildings are worth preserving, then so much more the quaint look our town is well known for.
2. The radiation emitted by 5g is far greater than current 4g towers. Medical professionals in Germany have proven even wifi to have negative medical consequences and convinced the German government to ban wifi in schools. So much more on these towers.

Juanita Olivier | *Region Counsel – Africa*

National Oilwell Varco

Legal Department | Corporate

1st Floor, Building E | Plattekloof Office Park | 1 Blouelie Crescent, Plattekloof | Cape Town, 7500 | South Africa

M South Africa: +27.72. 448.7052

T South Africa: +27.21.831.6247

E Juanita.Olivier@nov.com

Connect with us on [Facebook](#) | [LinkedIn](#) | [Twitter](#)

Myrna Staal

Beswaar 9

From: Gail Whitehead <dwind@lando.co.za>
Sent: Thursday, 05 October 2023 15:43
To: Jack van Zyl; Myrna Staal
Subject: WIFI tower in Montagu - NO!

Dear Jack

I am writing this to STRONGLY object to even the consideration of putting up a WIFI tower anywhere in Montagu.

It is a resounding NO from me. This WiFi company tried us years ago for space as well.

We will never change our minds

Thank you for reading

Kind Regards
Gail Whitehead
+27 82 424 3111
Sent from my Samsung Galaxy smartphone.

From: Roy McCarthy <royomccarthy@gmail.com>
Sent: Thursday, 05 October 2023 15:24
To: Jack van Zyl; Myrna Staal
Subject: Proposed cell tower on erf 139

Dear Sir/Madam,

I hereby wish to express in the strongest possible terms our absolute opposition to the proposed erection of the cell tower on erf 139 Montagu.

Scientists from 39 independent countries have concluded that the radiation emitted from these towers are harmful and in particular cause cancer, neurological damage immune suppression and infertility to those receiving the direct impact of such towers.

In addition to this, Montagu as a known tourist destination will be adversely affected by the construction of this nonstrous tower. The skyline forever marred.

Our property is in direct sight and close proximity to the proposed site.

We strongly urge you not to allow the approval of this application.

Trusting that sanity will prevail.

Yours sincerely,

Roy and Roziera McCarthy
2E Kohler Street,
Montagu.

From: Jack van Zyl
Sent: Thursday, 05 October 2023 14:30
To: Myrna Staal
Subject: FW: 5g toring beswaar

Jack van Zyl
Professionele Beplanner (A/1170/2022)
Senior Stadsbeplanner

023 614 8000
jvzyl@langeberg.gov.za

-----Original Message-----

From: RA Knipe <knipe@lando.co.za>
Sent: Thursday, October 5, 2023 12:33 PM
To: Jack van Zyl <JvZyl@langeberg.gov.za>
Subject: 5g toring beswaar

Jack.

Soos vele navorsing wat nie deur selfoonmaatskappye geborg is nie bewys dat WGO se aanbeveling netso eensydig is.

Ons dorp se inwoners wat baie internet verkeer gebruik het meestal optiesevesel lyn toegang, aldus die verbeterde sein toegang. Hoofsaaklik voetgangers gebruik internet sein.

Omdat 5 g so nadelig is, laat ons nou n fluitspeler van Hamlet in ons skoolterrein toe.

Ons tyd om te reageer is te min.

Laat die inwoners besluit of hulle 5g wil he in ons dorp eerder as dit inforseer word deur die sein sektor.

Hiermee my beswaar teen enige 5g torings in dorp.

Dankie

R Knipe

Myrna Staal

Reswar 12

From: Pete Ferreira <pete.ferreira@diffmining.com>
Sent: Thursday, 05 October 2023 09:38
To: Jack van Zyl; Myrna Staal
Subject: Cell Tower on Erf 139 Montagu school - Objection to this position

Dear Sir

I herewith object to the installation/ construction of the proposed Cell Tower on Erf 139, Montagu.

This would be an unhealthy and unsafe position for humans and our children.

This tower is at a school with young children and teachers.

A deemed to be safe distance away from people is in excess of 400m to get to below a reasonable low level of radiation exposure.

Rather erect a Cell tower slightly out of town perhaps at or near the electricity distribution centre and away from general town residents and population to make it safer.

Objection should be noted.

Kind regards

From: Ninon Roos <ninon.roos@gmail.com>
Sent: Thursday, 05 October 2023 14:17
To: Jack van Zyl; Myrna Staal
Subject: Cell Tower Re Erf 139 Montagu

I hope this letter finds you well. I am writing to express my strong disagreement and concerns regarding the proposed installation of a cell tower on Erf 139 in Montagu, Western Cape.

First and foremost, I would like to highlight the potential adverse effects that the installation of a cell tower can have on the local environment. Montagu is renowned for its natural beauty and scenic landscapes, which are essential not only for the residents' well-being but also for tourism, a significant economic driver in the region. The introduction of a cell tower on Erf 139 could disrupt these picturesque views and negatively impact the town's aesthetics, potentially deterring visitors and affecting property values in the area.

Moreover, there are legitimate concerns about the potential health risks associated with prolonged exposure to electromagnetic radiation emitted by cell towers. While there is an ongoing debate about the extent of these risks, the uncertainty alone is a cause for concern. Residents of Montagu have the right to live in an environment free from any potential harm to their health, and the introduction of a cell tower so close to residential areas raises valid concerns.

Additionally, the decision to install a cell tower on Erf 139 Montagu seems to have been made without adequate consultation with the local community. It is essential for any development of this nature to involve the affected residents and businesses in the decision-making process, allowing them to voice their concerns and explore alternative locations or technologies that might be less intrusive.

I urge you to reconsider the decision to install a cell tower on Erf 139. It is crucial to strike a balance between the need for improved telecommunications and the preservation of the natural beauty, health, and well-being of Montagu's residents and visitors.

I kindly request that you organize a public meeting or consultation process to discuss this matter further with the community and consider their input before proceeding with any plans for the cell tower installation. This way, we can ensure that the decision made takes into account the best interests and concerns of all stakeholders involved.

Thank you for taking the time to consider my views on this matter. I hope that we can work together to find a more suitable solution that benefits our community without compromising our environment and health.

Sincerely,

Ninon Roos
023 6141895

Regenerate

Myrna Staal

Beswaar 14

From: Jan van Brummelen <janvanbrummelen1@gmail.com>
Sent: Thursday, 05 October 2023 09:35
To: Myrna Staal
Subject: Wifi toring

Ek maak beswaar teen die opsit van die toring in ons dorp en by die laerskool.

Die emf is skadelik vir menslike emf is uiterlik skadelik vir menslike en diere gesondheid, asook die natuur soos voël lewe.

Dis baie gevaarlik vir ons kinders se gesondheid en lei tot allerhande gesondheids krissise.

Daar is talle publikasies op Pubmed wat die teendeel bewys van die WHO se studies

Ons dorp is n natuurdorp en toeruste afhanklik en ons moet ons mense en diere asook se gesondheid beskerm.

J van Brummelen
Cogmans close 7
Montagu
615062169

Myrna Staal

Barwaar 15

From: lynette burnhams <ralynburn@gmail.com>
Sent: Thursday, 05 October 2023 11:37
To: Myrna Staal
Subject: Fwd: Objection to the cell phone tower

----- Forwarded message -----

From: lynette burnhams <ralynburn@gmail.com>
Date: Thu, Oct 5, 2023 at 11:35 AM
Subject: Objection to the cell phone tower
To: jvzyl@langeberg.gov.za <jvzyl@langeberg.gov.za>

Dear Sir,

We object to the 35m cell tower planned to be erected at the Montagu Primary School. Besides being very unsightly it is a health hazard to the residents living nearby.

Can this not be erected away from the town?

Regards

Ralph and Lynette Burnhams

23, Long Street

Montagu

From: Linda Ferreira <lindapf.za@gmail.com>
Sent: Thursday, 05 October 2023 10:42
To: Jack van Zyl
Cc: Myrna Staal
Subject: Objection to Freestanding Base Telecommunication Station on Remainder of Erf 139 Montagu WC

Dear Sir

Kindly note my objection to such an installation within school grounds.

Although a recognised study has yet to be done, there is enough serious observational evidence to suggest that the long term exposure to radiation within such a short distance will severely impact the health and wellbeing of both the young children and all staff. Bear in mind, a primary school child is at school for the majority of the day, at least 9 months of each year for 12 years. As a cancer patient, I'm personally well aware of the impact of radiation.

By all means, install the tower. There is plenty of sufficient open space in the Montagu area, where the risk to human and animal quality of life is out of reach of the impact of radiation.

Regards
Linda Ferreira

Beswaar 17

6 October 2023.

To whom it may concern

I hereby lodge my objection to the installation of a 5G tower in or close to the Montagu primary school.

I believe that it is harmful and dangerous for anyone and especially children to be exposed to 5G frequencies.

Signed on the 6th day of October 2023 at Montagu, Western Cape.

Signed 

ID 601130 0067 080

Beswaar 18

6 October 2023.

To whom it may concern

I hereby lodge my objection to the installation of a 5G tower in or close to the Montagu primary school.

I believe that it is harmful and dangerous for anyone and especially children to be exposed to 5G frequencies.

Signed on the 6th day of October 2023 at Montagu, Western Cape.

Signed

ID 490827 5043 081

Myrna Staal

From: Myrna Staal
Sent: Tuesday, 10 October 2023 12:10
To: 'Amanda Breedt'
Subject: RE: 5g tower

Good day

I herewith confirm receipt of your objection.

Vriendelike groete / Kind regards

Myrna Staal
Stadsbeplanning / Town Planning
Tel: 023 614 8000

Beswaar 19

From: Amanda Breedt <amandabreedt71@gmail.com>
Sent: Tuesday, October 10, 2023 12:03 PM
To: Jack van Zyl <JvZyl@langeberg.gov.za>
Cc: Myrna Staal <mstaal@langeberg.gov.za>
Subject: 5g tower

Good day

I have a daughter at Laerskool Montagu and i vote NO to the 5g tower that they want to put up at the school

Thank you
Amanda Breedt

OBJECTION 5G TOWER ERF139 MONTAGU

2023-10-23

Good day to whom this may concern;

My Objection of the installation of the 5G Tower is the following;

- 1) It will interfere with our Privacy.
- 2) Emitting High Dangerous Wireless Radiation, this will Affect our Health and everyone in the near Vicinity, Including our Youth at the School.
- 3) This will also be an UGLY Construction that will have a Disgusting appearance in the Beautiful Town Montagu.
- 4) As a matter of Concern and Interest that many people are unaware of is the following;
The AMISH people do not have any Micro Towers that EMITS Harmful Waves,
they do not have CANCER OR ANY OTHER SERIOUS ILLNESSES.
THIS IS BECAUSE THEY ARE NOT EXPOSED TO HARMFUL WAVES.
This should make and give everyone sufficient reason to the OBJECT this TOWER.
We trust that this will be given the Utmost Consideration in this regard.

Kind regards,



Mike Hamargren

Email hammargrenmike9@gmail.com

083 320 8911

Myrna Staal

From: Myrna Staal
Sent: Thursday, 26 October 2023 08:17
To: 'Mike ad Carla'
Cc: Jack van Zyl
Subject: RE: RE :OBJECTION TO CELL TOWER AT ERF 139 LONG STREET

Good morning Mr and Mrs Cole

I herewith confirm receipt of your objection.

Vriendelike groete / Kind regards

Myrna Staal
Stadsbeplanning / Town Planning
Tel: 023 614 8000

From: Mike ad Carla <mikecarla@absamail.co.za>
Sent: Wednesday, October 25, 2023 1:20 PM
To: Jack van Zyl <JvZyl@langeberg.gov.za>; Myrna Staal <mstaal@langeberg.gov.za>
Cc: eduandt@gmail.com; dtsuzaae@gmail.com; mtheron@gmail.com; theronalbert@gmail.com; pmbtheron@gmail.com
Subject: RE :OBJECTION TO CELL TOWER AT ERF 139 LONG STREET
Importance: High

To Jack Van Zyl and Myrna Staal.

This letter serves to object to the application for a Cell phone tower to be erected at the Laerskool Montagu. Please note that the email addresses included are all for different people who are also objecting.

year or so ago, all parents of the Laerskool did a survey on who supported the tower being erected at the school and many of the parents objected. This time, there was no notification to the parents and no chance to see the objections. Many people don't even know about this application.

Firstly a 35m cell tower will be an eyesore in our beautiful village. It will need to be erected on the mountains perhaps so as not to ruin the charm of Montagu.

Young children's brains are still developing and the skull has not begun hardening until minimum the age of 12. The Laerskool looks after children from babies until 14 with the majority being under the age of 12.

No studies have been done to access how much damage the radiation will cause to children. The studies done on adults show that the cell phone masts offer no health benefit. Plants die that are close to the mast, so I can only imagine what damage it will do to our children. Due to varying socio-economics, the Laerskool has children that are already under-nourished and face enough toxins on a daily basis, through our tap water and air that is polluted from spraying of crops etc.

There is increased risk of cancer and damage to the developing brain.

Thank you for your time and consideration in this matter and hope a solution can be found where the mast is put up on the mountains and not in our beautiful, safe village.

Yours sincerely

Carla and Michael Cole



Virus-free www.avast.com

From: Myrna Staal
Sent: Thursday, 02 November 2023 08:41
To: 'Marlé Theron'
Subject: RE: 5g tower

Good day

I herewith confirm receipt of your objection.

Vriendelike groete / Kind regards

Myrna Staal
Stadsbeplanning / Town Planning
Tel: 023 614 8000

From: Marlé Theron <mtheron0@gmail.com>
Sent: Wednesday, November 1, 2023 8:14 PM
To: Jack van Zyl <JvZyl@langeberg.gov.za>
Cc: Myrna Staal <mstaal@langeberg.gov.za>
Subject: 5g tower

Good evening

I hereby submit my objection to the proposed erection of a 5g cell tower in the school grounds or anywhere in the Montagu area.

Effects documented in scientific research include:

Irradiation of brain cells -

Changes in your DNA, which can make you more prone:

cancer

cardiovascular stress

Sleep disorders

Nausea and loss of appetite

Depression and other neurological problems

Poor concentration

Fatigue

Loss of libido

Dizziness and irritability

increased

cellular stress

headaches

genetic damage

changes to the reproductive system such as low sperm count and infertility.

memory deficits, and impacts to the nervous system

Everything that children are exposed to can directly affect their development because their brains and skulls are still developing.

Many experts surmise that cell phone towers located near schools can cause an increase in autism
leukemia
brain tumors.

There is a negative effect on property values when cell phone towers are close to the homes.

Cell tower radiation can disrupt bird patterns and stunt the growth of trees.

In view of the above research, I vote no to the proper erection of any 5g cell towers in Montagu.

From: Myrna Staal
Sent: Thursday, 02 November 2023 08:08
To: 'Monique Du Plessis'
Cc: Jack van Zyl
Subject: RE: Objection 5G Montagu Laerskool

Tracking:	Recipient	Delivery
	'Monique Du Plessis'	
	Jack van Zyl	Failed: 2023/11/02 08:08

Good day

I herewith confirm receipt of your objection.

Vriendelike groete / Kind regards

Myrna Staal
Stadsbeplanning / Town Planning
Tel: 023 614 8000

-----Original Message-----

From: Monique Du Plessis <duplessismoniquet@gmail.com>
Sent: Wednesday, November 1, 2023 2:04 PM
To: Jack van Zyl <JvZyl@langeberg.gov.za>
Cc: Myrna Staal <mstaal@langeberg.gov.za>
Subject: Objection 5G Montagu Laerskool

Good morning,

I hereby submit my objection to the proposed erection of a 5g cell tower in the school grounds or anywhere in the Montagu area.

Effects documented in scientific research include:

Irradiation of brain cells -

Changes in your DNA, which can make you more prone:
cancer

cardiovascular stress

Sleep disorders

Nausea and loss of appetite

Depression and other neurological problems Poor concentration Fatigue Loss of libido Dizziness and irritability
increased cellular stress headaches genetic damage changes to the reproductive system such as low sperm count
and infertility.

memory deficits, and impacts to the nervous system

Everything that children are exposed to can directly affect their development because their brains and skulls are still developing.

If this goes ahead I will take my children out of Montagu Laerskool.

Many experts surmise that cell phone towers located near schools can cause an increase in autism leukemia brain tumors.

There is a negative effect on property values when cell phone towers are close to the homes.

Cell tower radiation can disrupt bird patterns and stunt the growth of trees.

In view of the above research, I vote no to the proper erection of any 5g cell towers in Montagu.

Regards

Monique Testa du Plessis

8603270123089

11 van Riebeek street, Montagu, 6720

Myrna Staal

Beswaar 24

From: Myrna Staal
Sent: Thursday, 02 November 2023 08:06
To: 'Diane Worthington'
Cc: Jack van Zyl
Subject: RE: Objection to 5G cell tower in Montagu

Tracking:	Recipient	Delivery
	'Diane Worthington'	
	Jack van Zyl	Failed: 2023/11/02 08:06

Good day

I herewith confirm receipt of your objection.

Vriendelike groete / Kind regards

Myrna Staal
Stadsbeplanning / Town Planning
Tel: 023 614 8000

From: Diane Worthington <diane.worthington7@gmail.com>
Sent: Wednesday, November 1, 2023 1:19 PM
To: Myrna Staal <mstaal@langeberg.gov.za>; Jack van Zyl <JvZyl@langeberg.gov.za>
Subject: Objection to 5G cell tower in Montagu

Dear Jack and Myrna,

You have obviously received many such emails, but as a resident of Montagu I object in the strongest manner possible, to the erection of a 5G cell tower in Montagu, or in fact anywhere at all! We all know how harmful they are and I'm not going to list all the many reasons for my objection - you won't read it anyway.

Just to say - if you're not concerned about your own well-being, health safety etc, at least try and consider other people. As in with so much else in this country and this world, the powers that be tell us we can "object" to this or that, but it falls on deaf ears and no-one actually cares. Nevertheless, I feel compelled to add my bit here and at least try and make a difference.

God will judge every man (as in every person) at the end of their lives. No-one can evade death and final judgement by the God of all creation and the King of kings who owns everything. Let each man look deep within himself or herself and know that whatever evil is allowed to perpetuate, God will be your Judge if you were a part of that. "Evil flourishes when "good" (no-one is actually good except God) men do nothing".

Kind regards,
Diane Worthington

94

Myrna Staal

Beswaar 25

From: Myrna Staal
Sent: Thursday, 02 November 2023 08:05
To: 'Larry Every'
Cc: Jack van Zyl
Subject: RE: Objection 5g tower

Tracking:	Recipient	Delivery
	'Larry Every'	
	Jack van Zyl	Failed: 2023/11/02 08:05

Good day

I herewith confirm receipt of your objection.

Vriendelike groete / Kind regards

Myrna Staal
Stadsbeplanning / Town Planning
Tel: 023 614 8000

From: Larry Every <every@imagineit.co.za>
Sent: Wednesday, November 1, 2023 9:27 AM
To: Jack van Zyl <JvZyl@langeberg.gov.za>
Cc: Myrna Staal <mstaal@langeberg.gov.za>
Subject: Objection 5g tower

Dear Sir/madam,

I hereby enter my objection to the above tower being installed near our schools or anywhere in Montagu.

Too many side affects and health risks involved.

Children who are exposed to this can be affected in their developement as their brains and skulls are still growing.

Both my wife and I vote against the installation anywhere in the Montagu area.

Regards

Larry and Gloria Every.

From: Myrna Staal
Sent: Thursday, 02 November 2023 08:05
To: 'salome@metexep.co.za'
Cc: Jack van Zyl
Subject: RE: Erection of 5g cell tower

Tracking:	Recipient	Delivery
	'salome@metexep.co.za'	
	Jack van Zyl	Failed: 2023/11/02 08:05

Good day

I herewith confirm receipt of your objection.

Vriendelike groete / Kind regards

Myrna Staal
Stadsbeplanning / Town Planning
Tel: 023 614 8000

From: salome@metexep.co.za <salome@metexep.co.za>
Sent: Wednesday, November 1, 2023 9:59 AM
To: Jack van Zyl <JvZyl@langeberg.gov.za>; Myrna Staal <mstaal@langeberg.gov.za>
Subject: Erection of 5g cell tower

Good morning

I hereby submit my objection to the proposed erecting of the 5G cell tower in the school grounds or anywhere in the Montagu area.

Research have shown that there is a negative effect from the radiation that disrupt bird patterns and stunts the growth of trees and vegetation. Since Montagu's residents main income is from our environment (birding, hiking, farming) this will have a major impact on all our residents and the future of our town.

Due to children's' brains and skulls still developing, everything that they are exposed to can directly affect their holistic development.

Many experts surmise that cell phone towers located near schools can cause an increase in

- autism
- leukemia
- brain tumors

Additionally, the effects documented in scientific research where people were exposed to 5G towers include

Irradiation of brain cells -

Changes in your DNA, which can make you more prone to:
cancer
cardiovascular stress
Sleep disorders

Nausea and loss of appetite
Depression and other neurological problems
Poor concentration
Fatigue
Loss of libido
Dizziness and irritability
increased
cellular stress
headaches
genetic damage
changes to the reproductive system such as low sperm count and infertility.
memory deficits, and impacts to the nervous system

In view of the above research, I vote **NO** to the proper erection of any 5G cell towers in Montagu.

Kind Regards
Salome Erasmus
0646078833

Myrna Staal

Beswaar 27

From: Myrna Staal
Sent: Thursday, 02 November 2023 08:04
To: 'Noelani Whitehead'
Cc: Jack van Zyl
Subject: RE: 5G tower objection

Tracking:	Recipient	Delivery
	'Noelani Whitehead'	
	Jack van Zyl	Failed: 2023/11/02 08:04

Good day

I herewith confirm receipt of your objection.

Vriendelike groete / Kind regards

Myrna Staal
Stadsbeplanning / Town Planning
Tel: 023 614 8000

From: Noelani Whitehead <springforthcreative@gmail.com>
Sent: Wednesday, November 1, 2023 9:42 AM
To: Jack van Zyl <JvZyl@langeberg.gov.za>
Cc: Myrna Staal <mstaal@langeberg.gov.za>
Subject: 5G tower objection

Good morning Jack van Zyl and Myrna Staal.

Please note that as a citizen living in Montagu, I object to the 5G tower.

I do not believe that it should be erected anywhere in town.
I sincerely hope this project and options for 5G tower is stopped swiftly.

Thank you for noting my objection.

Have a good day.
Noelani Whitehead

Myrna Staal

Beswaar 28

From: Myrna Staal
Sent: Thursday, 02 November 2023 08:03
To: 'Veronica Beth Stevens'
Cc: Jack van Zyl
Subject: RE: Objection to proposed 5g cell tower in Montagu

Tracking:	Recipient	Delivery
	'Veronica Beth Stevens'	
	Jack van Zyl	Failed: 2023/11/02 08:03

Good day

I herewith confirm receipt of your objection.

Vriendelike groete / Kind regards

Myrna Staal
Stadsbeplanning / Town Planning
Tel: 023 614 8000

From: Veronica Beth Stevens <veronicabethstevens@gmail.com>
Sent: Wednesday, November 1, 2023 9:00 AM
To: Jack van Zyl <JvZyl@langeberg.gov.za>
Cc: Myrna Staal <mstaal@langeberg.gov.za>
Subject: Objection to proposed 5g cell tower in Montagu

Good morning Mr van Zyl

I hereby submit my objection to the proposed erection of a 5g cell tower in the school grounds or anywhere in the Montagu area.

I vote no to the erection of any 5g cell towers in Montagu.

Kind regards

Veronica Stevens
Montagu resident

Myrna Staal

Beswaar 29

From: Myrna Staal
Sent: Thursday, 02 November 2023 08:02
To: 'Jenni Davies'
Subject: RE: OBJECTION TO 5G CELL TOWER

Good day

I herewith confirm receipt of your objection.

Vriendelike groete / Kind regards

Myrna Staal
Stadsbeplanning / Town Planning
Tel: 023 614 8000

From: Jenni Davies <Jennidavies1@outlook.com>
Sent: Wednesday, November 1, 2023 8:55 AM
To: Myrna Staal <mstaal@langeberg.gov.za>
Subject: OBJECTION TO 5G CELL TOWER

Good morning,

I hereby submit my objection to the proposed erection of a 5g cell tower in the school grounds or anywhere in the Montagu area.

Effects documented in scientific research include:

Irradiation of brain cells -

Changes in your DNA, which can make you more prone:
cancer

cardiovascular stress

Sleep disorders

Nausea and loss of appetite

Depression and other neurological problems

Poor concentration

Fatigue

Loss of libido

Dizziness and irritability

increased

cellular stress

headaches

genetic damage
changes to the reproductive system such as low sperm count and infertility.
memory deficits, and impacts to the nervous system

Everything that children are exposed to can directly affect their development because their brains and skulls are still developing.

Many experts surmise that cell phone towers located near schools can cause an increase in
autism
leukemia
brain tumors.

There is a negative effect on property values when cell phone towers are close to the homes.

Cell tower radiation can disrupt bird patterns and stunt the growth of trees.

In view of the above research, I vote no to the proper erection of any 5g cell towers in Montagu.

Sincerely

Jennifer Davies
8 Barry Street, Montagu

Sent from [Outlook for Android](#)

From: Myrna Staal
Sent: Thursday, 02 November 2023 08:46
To: 'Suzanne du Toit'
Subject: RE: Objection of the 5g cell tower

Good day

I herewith confirm receipt of your objection.

Vriendelike groete / Kind regards

Myrna Staal
Stadsbeplanning / Town Planning
Tel: 023 614 8000

From: Suzanne du Toit <dtsuzanne@gmail.com>
Sent: Thursday, November 2, 2023 7:20 AM
To: Myrna Staal <mstaal@langeberg.gov.za>; Jack van Zyl <JvZyl@langeberg.gov.za>
Subject: Objection of the 5g cell tower

Good morning,

I hereby submit my objection to the proposed erection of a 5g cell tower in the school grounds or anywhere in the Montagu area.

Effects documented in scientific research include:

Irradiation of brain cells -
Changes in your DNA, which can make you more prone:
cancer
cardiovascular stress
Sleep disorders
Nausea and loss of appetite
Depression and other neurological problems
Poor concentration
Fatigue
Loss of libido
Dizziness and irritability
increased
cellular stress
headaches
genetic damage
changes to the reproductive system such as low sperm count and infertility.
memory deficits, and impacts to the nervous system

Everything that children are exposed to can directly affect their development because their brains and skulls are still developing.

Many experts surmise that cell phone towers located near schools can cause an increase in autism
leukemia
brain tumors.

There is a negative effect on property values when cell phone towers are close to the homes.

Cell tower radiation can disrupt bird patterns and stunt the growth of trees.

In view of the above research, I vote no to the proper erection of any 5g cell towers in Montagu.

Kind regards Suzanne Du Toit

OBJECTION 5G TOWER ERF139 MONTAGU

2023-10-31

Good day to whom this may concern;

My Objection of the installation of the 5G Tower is the following;

- 1) It will interfere with our Privacy.
 - 2) Emitting High Dangerous Wireless Radiation, this will Affect our Health and everyone in the near Vicinity.
 - 3) This will also be an UGLY Construction that will have a Disgusting appearance in the Beautiful Town Montagu.
 - 4) As a matter of Concern and Interest that many people are unaware of is the following; The AMISH people do not have any Micro Towers that EMITS Harmful Waves, they do not have CANCER OR ANY OTHER SERIOUS ILLNESSES. THIS IS BECAUSE THEY ARE NOT EXPOSED TO HARMFUL WAVES.
 - 5) This money should be spent on REPLACING THE MAIN WATER PIPES that are of more importance of the amount of water that is lost from leaking pipes, we are a DROUGHT area and need to save the LOSS OF WATER. This should make and give everyone sufficient reason to the OBJECT this TOWER. We trust that this will be given the Utmost Consideration in this regard.
- Kind regards,

M.M. Hamargren

Marie Hamargren

Email mikehammargren@gmail.com

083 320 8911



Aansoeker se reaksie op besware

8 Duthie Street
Malmesbury
7300

3 February 2024

DIRECTOR: INFRASTRUCTURE AND PLANNING
LANGEBERG MUNICIPALITY
03 PIET RETIEF STREET,
MONTAGU,
6720

Dear Sir/ Madam

**RE: RESPONSE TO OBJECTIONS RECEIVED ON THE APPLICATION FOR CONSENT
USE AND PERMANENT DEPARTURE TO PERMIT A FREESTANDING COMMUNICATION
BASE STATION ON THE REMAINDER OF ERF 139 MONTAGU (MONTAGU PRIMARY
SCHOOL) ON 54 LONG STREET, MONTAGU.**

This letter serves as a response to letter dated 2 November 2024

In terms of sections 44-48 of the Langeberg Municipality Amended By-Law on Municipal Land Use Planning, 2018 members of the general public and various departments were invited to share any comments/ objections regarding this application. During this public participation phase, thirty-one (31) letters/ emails of objection was received from the general public.

The objections from the general public mainly refer to (i) *Environmental impacts (Visual, Geographic etc.)*, (ii) Service provision, (iii) Health concerns, and (iv) *other related objections*. This document aims to address these concerns accordingly.

LIST OF OBJECTERS:

1. S. Theron
2. S.A. Lanham
3. D. Olivier
4. C.A.T. Gullifer
5. C. O'Rorke
6. S.J. Kriel
7. N. Engel
8. J. Olivier
9. G. Whitehead
10. R. & R. McCarthy
11. R. Knipe
12. P. Ferreira
13. N. Roos
14. J. Van Brummelen
15. L. & R. Burnhams
16. L. Ferreira
17. K. Kohler
18. ID 4908275043081
19. A. Breedt
20. M. Hamargren
21. M. & C. Cole
22. M. Theron
23. M. T. Du Plessis
24. D. Worthington
25. L. & G. Every
26. S. Erasmus
27. N. Whitehead
28. V. Stevens
29. J. Davies
30. S. Du Toit
31. M.M. Hamargren

Objectors	Objection	Environmental (Visual, noise, protected areas)	Response / Resolution
1, 10, 15, 20, 26, 27, 28	<i>Highwave's motivation document, point 5 (c) states, that the impact of a base station in our village will have "Minimized physical, natural and visual impact". This is false!</i> Montagu is synonymous with mountains, hot springs, mountain climbing, cycling, hiking and swimming - a getaway for visitors, who currently <u>sustain our economy</u>. If this proposed 35 m base station is approved, it will become the 'centre piece' of our rural village, <u>towering above the single/double storey skyline</u>. It will be marred by an ugly cell tower, covered by an artificial tree and two huge containers, situated right on the road. Children will be playing underneath it, unaware of the danger of irradiating microwaves above. You just need to measure the radiation with a meter, to understand the gravity of the situation!	The applicant acknowledges that the application will have a visual impact, but visual impacts for any new development are inevitable. The mast location is determined not only by the impact it will have visually, but also its functionality. The proposed mast is ideally placed in terms (Height above sea level, proximity to larger transmission towers outside of town, location with relation to network users). The existing services provision (i.e., Vodacom, MTN, Cell C etc) is lacking. Providing a mast will alleviate pressure on the existing telecommunications infrastructure. Additional infrastructure will reduce the strain and upkeep on the existing infrastructure and make provision for more users in Montagu. If more users are accommodated the overall service provision cost can be reduced	
8	The tower on the premises of the primary school at 35m height would be such an eyesore as to completely change the look of our town. If historical buildings are worth preserving, then so much more the quaint look our town is well known for.		The property in question was selected based on the following selective list of criteria: - Height above sea level. - Proximity to larger transmission towers outside of town. - Location with relation to network users. - Availability of property.
12, 25	By all means, install the tower. There is plenty of sufficient open space in the Montagu area, where the risk to human and animal quality of life is out of reach of the impact of radiation.		
16, 19	This tower is at a school with young children and teachers. A deemed to be safe distance away from people is in excess of 400m to get to below a reasonable low level of radiation exposure.		
3	I rather erect a Cell tower slightly out of town perhaps at or near the electricity distribution centre and away from general town residents and population to make it safer.		The Remainder of Erf 139, Montagu is zoned for Community Zone I. One of the additional uses listed in the Langeberg Municipality Zoning Scheme specifically states that the property can be utilized to erect a transmission tower, with consent from the municipality. The uses proposed does not deviate from the permissible rights as set out in zoning scheme. The zoning scheme was approved to include these provisions, and should have been disputed during the commenting period for the Langeberg Municipality Zoning Scheme
9	I wish to table my objection to the planned 5g cellphone towers in Montagu. The tower on the premises of the primary school at 35m height would be such an eyesore as to completely change the look of our town. If historical buildings are worth preserving, then so much more the quaint look our town is well known for.		
	I am writing this to STRONGLY object to even the consideration of putting up a WIFI tower anywhere in Montagu.		The proposed development is aligned with all the regulations in the The

13	First and foremost, I would like to highlight the potential adverse effects that the installation of a cell tower can have on the local environment. Montagu is renowned for its natural beauty and scenic landscapes, which are essential not only for the residents' well-being but also for tourism, a significant economic driver in the region. The introduction of a cell tower on Eri 139 could disrupt these picturesque views and negatively impact the town's aesthetics, potentially deterring visitors and affecting property values in the area.	<i>National Environmental Management Act (Act 107 OF 1998) (NEMA) – published in Government Notice No. R324. When read together with the National Environmental Management Act Regulations Listing Notice 3 of 2017 (promulgated April 2017) and the proposed development falls inside the urban area in Montagu Highway Consultants are of the opinion that this venture does not trigger any listed activities in terms of the NEMA Regulations.</i>
11	Ons dorp se inwoners wat baie internet verkeer gebruik het meestal optiese vesel lyn toegang, aldus die verbeterde sein toegang. Hoofsaaklik voetgangers gebruik internet sein.	Services Provision In this regard the applicant submits that all network providers will be able to make use of the proposed infrastructure. Wireless services, and underground options still require transmission from one area to the next. It should be noted that telecommunications service provision, similar to electricity provision is a general public service. The proposed infrastructure for telecommunications may be proposed in Montagu but does not only serve the residents of Montagu.
1, 6, 10, 13, 14, 15, 17, 18, 20, 22, 23, 26	2) <u>The ICNIRP Exposure Guidelines are Outdated and Deceptive</u> <u>Highwave's motivation point 5 e (ii) says the "emissions are only a fraction of the percentage as regulated by ICNIRP" and "non-ionizing radiation is 'every day' radiation"....and does not cause harm. These statements are FALSE (see below)!</u> a) The ICNIRP exposure guidelines are based on OUTDATED experiments from 1980, on 5 monkeys and 8 rats, when 1 G was the only 'generation' in use. What about the radiation from addition G's, Wi-Fi and 'smart phones'? The 'motivation' states that radiation is safe up to 300GHz!!! b) These guidelines are also DECEPTIVE, as they are calculated on exposure of 6 -10 minutes....not 24/7 radiation. In fact, Barrie Tower and Mark Steele, microwave experts, have done the calculations and both say it is an exposure of 6 min/24 hours. However, one must take into consideration that it is an ACCUMULATIVE exposure of slow radiation poisoning. NB: they have only taken the THERMAL effects into consideration and NOT the BIOLOGICAL effects.	Health A statement made by the Department of Health dated 19 January 2018 on the Health Effects of cellular communications base stations states the following (see letter attached in application): " Considering the very low exposure levels and research results collected to date, there is no convincing scientific evidence that the weak RF signals from base stations and wireless networks cause adverse health effects" . Also mentioned in the statement of the Department of Health another WHO fact sheet was published in June 2011 and reviewed in October 2014 (i.e. Electromagnetic fields and public health: mobile phones viewable online at http://www.who.int/mediacentre/factsheets/fs193/en/) and subsequently concluded the following: "A large number of studies have been performed over the last two decades to assess whether mobile phones pose a potential health risk. To date, no adverse health effects have been established as being caused by mobile phone use."

2	<u>"The International Commission on Non-Ionizing Radiation Protection (ICNIRP) has long been influential in EMF regulation: its scientific recommendations to WHO were first issued in 1998, updated in 2009, and revised and updated again in March 2020."</u> <u>"They are based on thermally induced (tissue heating) effects only, which have been undermined by thousands of papers demonstrating serious biological effects at non-thermal levels, and at orders of magnitude below current ICNIRP guideline exposure levels."</u> <u>"Whilst the guidelines were updated in 2020, these updates increased the maximum exposure times and increased the levels of exposure to allow for further thermal exposure, but continue to ignore the biological effects."</u>	Further on in the document (attached to this response – Annexure A: Letter from Health Department), the Department of Health goes on to say that: "The Department is therefore satisfied that the health of the general public is not being compromised by their exposure to the microwave emissions of cellular base stations. This also means that local and other authorities, in considering the environmental impact of any particular base station, do not need to and should not attempt, from a public health point of view, to set any restrictions with respect to parameters such as distance to the mast, duration of exposure, height of the mast, etc."
3	The document submitted in support of the application of the above, tables a report in respect of the dangers of the radiation emitted by these towers and states these are not significant. On the contrary, I wish to make reference to the website EMF Scientists.Org wherein over 250 doctors and scientists from 44 countries, have provided evidence as to the dangers of wireless radiation, especially to children. The properties surrounding this tower will be negatively impacted both in terms of value and radiation exposure as a result of this tower. The radiation emitted by 5g is far greater than current 4g towers. Medical professionals in Germany have proven even will to have negative medical consequences and convinced the German government to ban wifi in schools. The scientific facts are irrefutable. Even a cursory enquiry about cell phone radiation causing damage to people's health is sufficient to warrant the rejection of these planned towers in our town.	We are therefore of the opinion that health related aspects regarding the proposed base station were taken into consideration and that this proposal will not be in violation of any individual's constitutional right to an environment that is not harmful to their health or general wellbeing. The Directorate: Radio Control, within the South African Health Products Regulatory Authority (SAHPRA) is the responsible authority regulating cellular base-station effects on health and they confirmed that there are no health dangers related to freestanding base telecommunication station/ cell masts. Please see below letter "SAHPRA Letter on Health Effect_2022":
4, 7	HEALTH EFFECTS OF CELLULAR BASE STATIONS AND HANDSETS The Directorate Radiation Control is the section – previously within the National Department of Health and currently as part of the South African Health Products Regulatory Authority (SAHPRA) – that is responsible, from the viewpoint of human health, for regulating electronic products producing non-ionising electromagnetic fields (EMF), i.e. where the frequency of such EMF is less than 300 GHz. In carrying out its responsibility, the Directorate has been utilising the World Health Organization's (WHO) International EMF Project (www.who.int/emf-emfi) as its primary source of information and guidance with respect to the health effects of EMF. The International EMF Project was established by the WHO in 1996 to (i) assess the scientific evidence for possible adverse health effects of non-ionising electromagnetic fields on an on-going basis, (ii) initiate and coordinate new research in this regard, (iii) compile health risk assessments for different parts of the electromagnetic spectrum, and (iv) advise national authorities on EMF radiation protection. The Department of Health has been a member of the International Advisory Committee of the International EMF Project since 1998. In June 2005 the International EMF Project hosted a workshop that was specifically aimed at considering the possible health consequences of the emissions from cellular base stations and wireless networks. The findings of this workshop were summarised in a 2-page Fact Sheet (http://www.who.int/emf-emfi/publications/facts/fs04/en/). The following extract from this Fact Sheet is still considered by the WHO as a summary	The Directorate: Radio Control, within the South African Health Products Regulatory Authority (SAHPRA) is the responsible authority regulating cellular base-station effects on health and they confirmed that there are no health dangers related to freestanding base telecommunication station/ cell masts. Please see below letter "SAHPRA Letter on Health Effect_2022":

4

I wish to place on record that I have accumulated several scientific studies based on the detrimental effect of high frequency transmissions, such as those emitted by 5G equipment on the health of humans, and more specifically, children.

The proposed "Free standing Base Station" and the "Roof-top Base Station", according to scientific studies referenced later in this objection, will have a dramatic detrimental impact on the health, and lives of such young children at the Montagu Primary School.

The future legal liability for proven damage to these children's health, will rest firmly with the person, or persons approving the aforementioned application.

I am supplying the minimal of references as there are over 100 peer review studies, and Court cases which have been won, in proving the damaging effects of 5G. Now that all parties to this proposal have been informed of the proven scientific research results, by means of this objection, there is sufficient evidence to ensure criminal negligence of any person or body approving this installation in any school.

It is further determined that the 5G equipment, is not required, or necessary, for the education or wellbeing of our children in Montagu.

I therefore request that Montagu Municipality reject this application for the installation of 5G, in the vicinity of the Montagu Primary School.

From my point of view the cons far outweigh the pros. I object to this idea and sincerely hope that it is NEVER allowed here. If such a tower DOES end up in Montagu, may it be on the mountain side where people may pass by, spending just a few minutes within its toxic range. May it NEVER be within 500 meters of residential, commercial and other inhabited areas.

Although a recognised study has yet to be done, there is enough serious observational evidence to suggest that long term exposure to radiation within such a short distance will severely impact the health and wellbeing of both the young children and all staff. Bear in mind, a primary school child is at school for the majority of the day, at least 9 months of each year for 12 years. As a cancer patient, I'm personally well aware of the impact of radiation.

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16

The Directorate Radiation Control is not able to make any pronouncements about the specific levels of EMF that a member of the public would experience at any particular base station site when it is in operation. However, generally speaking unless a person would climb to the top of a mast (or other structure supporting an antenna) and position him/herself not more than a few meters away right in front of the active antenna, such a person would have no real possibility of being exposed to even anywhere near the above-mentioned ICNIRP guideline limits. Since these base stations are typically cordoned off by means of barbed wire fencing and locked gates/doors in order to protect the sensitive and expensive technology, getting to a mast and actually climbing it despite the above-mentioned security measures would certainly not be considered responsible behaviour. Even then the only real threat to the health of the person would be falling at any height from the structure in question. Based on the results of numerous global and local surveys, the experience has been that the exposure to base station EMF at ground level is typically well below the above-mentioned ICNIRP guideline limits. Against this background of available data, there would be no scientific grounds to support any allegation that adverse health effects might be suffered by a responsible member of the public due to the EMF emitted by a base station.

Although the Directorate Radiation Control currently neither prescribes nor enforces any compulsory exposure limits for electromagnetic fields, the Directorate does advise all concerned (whether they be a government department, the industry or the public) that voluntary compliance with the above-mentioned ICNIRP exposure guidelines is the recommended and science-based way to deal with any situation involving human exposure to the non-ionising electromagnetic fields emitted by cellular base stations and handsets.

of the findings to date, i.e. **"Considering the very low exposure levels and research results collected to date, there is no convincing scientific evidence that the weak RF signals from base stations and wireless networks cause adverse health effects."**

Another WHO Fact Sheet was published in June 2011 and reviewed in October 2014, i.e. *Electromagnetic fields and public health: mobile phones*. This Fact Sheet can be found at <http://www.who.int/mediacentre/factsheets/fs193/en/> and the conclusion is stated as follows: **"A large number of studies have been performed over the last two decades to assess whether mobile phones pose a potential health risk. To date, no adverse health effects have been established as being caused by mobile phone use."**

The WHO recommends utilising internationally recognised exposure guidelines such as those that were published in 1988 by the International Commission on Non-Ionizing Radiation Protection (ICNIRP) and reconfirmed in 2009. The 1988 guidelines were replaced by the updated 2020 version for the frequency range 100 kHz – 300 GHz (i.e. including all the frequencies employed by the cellular industry). The Directorate Radiation Control likewise recommends the use of these ICNIRP guidelines to protect people against the known adverse health effects of EMF.

On 27 January 2020 the WHO published a statement on their website with respect to **"Radiation: 5G mobile networks and health"**. Below are extracts from the Q&A section of that statement:

"5G, or fifth Generation, is the latest wireless mobile phone technology, first widely deployed in 2019. 5G is expected to increase performance and a wide range of new applications, including strengthening e-Health (telemedicine, remote surveillance, telesurgery)."

5G represents an evolution in telecommunication standards. To enable increased performance, 5G will extend into higher frequencies around 3.5 GHz and up to a few tens of GHz. The higher frequencies are new to mobile phone networks, but are commonly used in other applications, such as point-to-point radio links and body-scanners for security checks.

31, 20	As a matter of Concern and Interest that many people are unaware of is the following: The AMISH people do not have any Micro Towers that EMITS Harmful Waves, they do not have CANCER OR ANY OTHER SERIOUS ILLNESSES. THIS IS BECAUSE THEY ARE NOT EXPOSED TO HARMFUL WAVES. This should make and give everyone sufficient reason to the OBJECT this TOWER. We trust that this will be given the Utmost Consideration in this regard. Young children's brains are still developing and the skull has not begun hardening until minimum the age of 12. The Laerskool looks after children from babies until 14 with the majority being under the age of 12. No studies have been done to access how much damage the radiation will cause to children. The studies done on adults show that the cell phone masts offer no health benefit. Plants die that are close to the mast, so I can only imagine what damage it will do to our children. Due to varying socio-economics, the Laerskool has children that are already under-nourished and face enough toxins on a daily basis, through our tap water and air that is polluted from spraying of crops etc. There is increased risk of cancer and damage to the developing brain.	The Directorate Radiation Control is not able to make any pronouncements about the specific levels of EMF that a member of the public would experience at any particular base station site when it is in operation. However, generally speaking unless a person would climb to the top of a mast (or other structure supporting an antenna) and position himself not more than a few meters away from the active antenna, such a person would have no real possibility of being exposed to even anywhere near the afore-mentioned ICNIRP guideline limits. Since these base stations are typically cordoned off by means of barbed wire fencing and locked gates/doors in order to protect the sensitive and expensive technology, getting to a mast and actually climbing it despite the afore-mentioned security measures would certainly not be considered responsible behaviour. Even then the only real threat to the health of the person would be falling at any height from the structure in question. Based on the results of numerous global and local surveys, the experience has been that the exposure to base station EMF at ground level is typically well below the afore-mentioned ICNIRP guideline limits. Against this background of available data, there would be no scientific grounds to support any allegation that adverse health effects might be suffered by a responsible member of the public due to the EMF emitted by a base station. Although the Directorate Radiation Control currently neither prescribes nor enforces any compulsory exposure limits for electromagnetic fields, the Directorate does advise all concerned (whether they be a government department, the industry or the public) that voluntary compliance with the afore-mentioned ICNIRP exposure guidelines is the recommended and science-based way to deal with any situation involving human exposure to the non-ionising electromagnetic fields emitted by cellular base stations and handsets. This development complies with the required Health and Safety regulations as stipulated by ICNIRP. The American Cancer Association asks the question "Do cellular phone towers cause cancer?" and answers the question with the following points: • The energy level of the radiofrequency waves is relatively low especially compared to radiation that are known to increase cancer risk like gamma rays, x-rays etc. • The second part of the answer is wavelengths. Radiofrequency waves are known to have long wavelengths, which can only be concentrated to about 2.5cm or 5cm in size. This makes it impossible to be concentrated enough to affect body tissue. • Thirdly, even if the radiofrequency waves were able to affect human cells in the body at higher doses, the levels of radiofrequency waves present on ground level is very low and well below the recommended levels.
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HIGHWAVE

CONSULTANTS

In short, the answer is NO and inconclusive to whether cellphone towers cause cancer. Energy absorption in a human exposed to RF radiation from base stations is typically hundreds to thousands of times below the international safety guidelines (ICNIRP). The figure below illustrates the energy absorption rates.

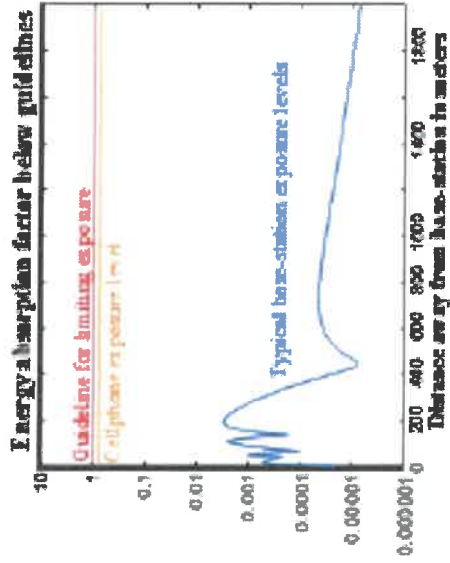


Figure 3: Typical base station exposure levels

This also include being on the ground close to the base station or in a close proximity of the base station. Energy levels in front of the antennas will usually approach the energy absorption guidelines levels. The exposure in the immediate vicinity of these equipment boxes are thousands of times below the international safety guidelines as seen in the figure above.

Source:

https://mybroadband.co.za/news/science/412846-we-measured-the-radiation-from-a-microwave-and-compared-it-to-a-5g-tower.html?utm_source=newsletter

	Other
13 Additionally, the decision to install a cell tower on Erf 139 Montagu seems to have been made without adequate consultation with the local community. It is essential for any development of this nature to involve the affected residents and businesses in the decision-making process, allowing them to voice their concerns and explore alternative locations or technologies that might be less intrusive. I kindly request that you organize a public meeting or consultation process to discuss this matter further with the community and consider their input before proceeding with any plans for the cell tower installation. This way, we can ensure that the decision made takes into account the best interests and concerns of all stakeholders involved.	Please be advised that due course was followed in notifying the public as per the requirements of the Langeberg Amended By-Law on Land Use Planning.
21 year or so ago, all parents of the Laerskool did a survey on who supported the tower being erected at the school and many of the parents objected. This time, there was no notification to the parents and no chance to see the objections. Many people don't even know about this application.	The Langeberg Municipality Zoning Scheme 2013 makes provision the applicant to apply for consent to obtain the required land use rights to erect a transmission tower. The municipality, at their own discretion may then make a ruling as to it will be suited for the area.
24 Just to say - if you're not concerned about your own well-being, health safety etc, at least try and consider other people. As in with so much else in this country and this world, the powers that be tell us we can "object" to this or that, but it falls on deaf ears and no-one actually cares. Nevertheless, I feel compelled to add my bit here and at least try and make a difference.	

There is a negative effect on property values when cell phone towers are close to the homes.

Some concerns from the general communities are that the property values will fall with the proposed development of a freestanding base telecommunication station in the area. A property evaluation report was drafted based on properties in Durbanville, Cape Town where the increase in value are substantially more than the smaller areas and the following was derived:

Property evaluation report (1) information relating to residential property sales situated in close proximity of freestanding base telecommunication station:

PROPERTY ADDRESS	LOCATION	VALUATION YEAR	VALUATION PRICE (BEFORE CONSTRUCTION)	VALUATION PRICE AFTER FSBTS CONSTRUCTION	VALUATION YEAR AFTER FSBTS CONSTRUCTION	DISTANCE TO EXISTING MAST
16 VERONA STREET, DURBANVILLE		1999	R 190 380.00	N/A		150 M
PROPERTY EVALUATION SIMILAR IN CHARACTERISTICS AS THE ABOVE PROPERTY						
10 HAMPTON CRESCENT, DURBANVILLE		2015	R 350 000.00		R 4 100 000.00	150 M
17 VERONA STREET, DURBANVILLE		2001	R 167 000.00	N/A		150 M
12 HAMPTON CRESCENT, DURBANVILLE		2007	R 350 000.00		R 4 000 000.00	150 M

DETAILS OF MAST IN CLOSE PROXIMITY OF ABOVE VALUATIONS:

- 1) ADDRESS – LA VERONA CLOSE
- 2) DATE OF CONSTRUCTION – 2002
- 3) HEIGHT – 25M
- 4) TYPE – LATTICE DESIGN



CONCLUSION REGARDING RESIDENTIAL PROPERTY VALUES IN CLOSE PROXIMITY OF MASTS PRIOR TO AFTER CONSTRUCTION:

- BOTH EVALUATED PROPERTIES ARE SITUATED WITHIN 150M FROM THE EXISTING MAST WITH ANTICIPATED PROPERTY VALUE GROWTH OF MORE THAN A 100% OVER A PERIOD OF 7 TO 13 YEARS. THE FACTUAL INFORMATION OBTAINED FROM PROPERTY 24 CONFIRMS THAT FSBTS SITUATED IN CLOSE PROXIMITY OF RESIDENTIAL AREAS ACTUALLY INCREASES THE VALUES OF PROPERTIES RATHER THAN DETERING GROWTH.

Property evaluation report (1) information relating to residential property sales that are not situated in close proximity of a freestanding base telecommunication station:

PROPERTY LOCATION/ ADDRESS	VALUATION YEAR/ VALUE	PROPERTY LOCATION/ ADDRESS	VALUATION YEAR/ VALUE	DISTANCE TO EXISTING MAST
4 KORING STREET, DURBANVILLE	2001/ R 379 000.00	2 KORING STREET, DURBANVILLE	2016/ R 2 100 000.00	500 M

11 KORING STREET, DURBANVILLE	2001/ R 145 000.00	16 KORING STREET, DURBANVILLE	2011/ R 1 450 000.00	700 M
ALL EVALUATED PROPERTIES ARE SITUATED WITHIN 700M FROM THE EXISTING MAST WITH ANTICIPATED PROPERTY VALUE GROWTH OF MORE THAN A 60 % OVER A PERIOD OF 7 TO 13 YEARS. THE FACTUAL INFORMATION OBTAINED FROM PROPERTY 24 CONFIRMS THAT FSBTS SITUATED IN CLOSE PROXIMITY OF RESIDENTIAL AREAS ACTUALLY INCREASES THE VALUES OF PROPERTIES RATHER THAN DETERING GROWTH.				

This subject has been debated for years and at present no confirmed evidence exists that properties situated in proximity of a base station would result in the decrease of property value. There are various residential properties situated in proximity of affluent areas such as Durbanville (case study) where property value has not decreased as stated by the researchers.

Considering the above factual evidence provided vs not factual perceived statements of the objectors, clear evidence exist that properties situated in proximity of a telecommunication base station vs properties situated further away has no impact on property values.

CONCLUSION:

We would like to emphasise the positive contribution this base station will have on the immediate area of Montagu, commuters, visitors as well as the surrounding community:

- This application is by no means a careless act as health and environmental aspects are taken into consideration with associated proof that this development holds no threat for inhabitants and/or commuters.*
- Most households in the surrounding area depend on the services of the cellular telecommunications providers, including internet and social networking media (Facebook, Twitter etc.). With such a high demand for their products, it follows that service providers are responsible for supplying a high level of network coverage.*
- Please note that the residents in the area are not the only ones being provided with these services. Visitors to the area, businesses and daily commuters will benefit by having access to improved communication facilities.*
- Mobile communication has become an important safety and security element in modern society. In an emergency, such as housebreaking, medical alert or fire, a member of a household can quickly and easily contact the emergency services for help. However, if the coverage of mobile service providers' is poor, then contacting emergency services becomes a difficult task.*

Finally, we would like to emphasize that communications companies deliver an important service to the wider public, and in terms of their license with ICASA they have to meet certain standards in order to retain their licenses. One of these standards is to supply adequate network coverage to their demanding customers. The proposal also allows for all other service providers to share this installation and refrain from constructing another base station in this area.

It is clear that the proposed application meets the applicable desirability criteria and precedents set and it is therefore recommended that the application be supported by the relevant authorities.

Voorbeelde van bestaande maste in Langeberg area

WATERKANTSTRAAT, BONNIEVALE

25m hoë mas

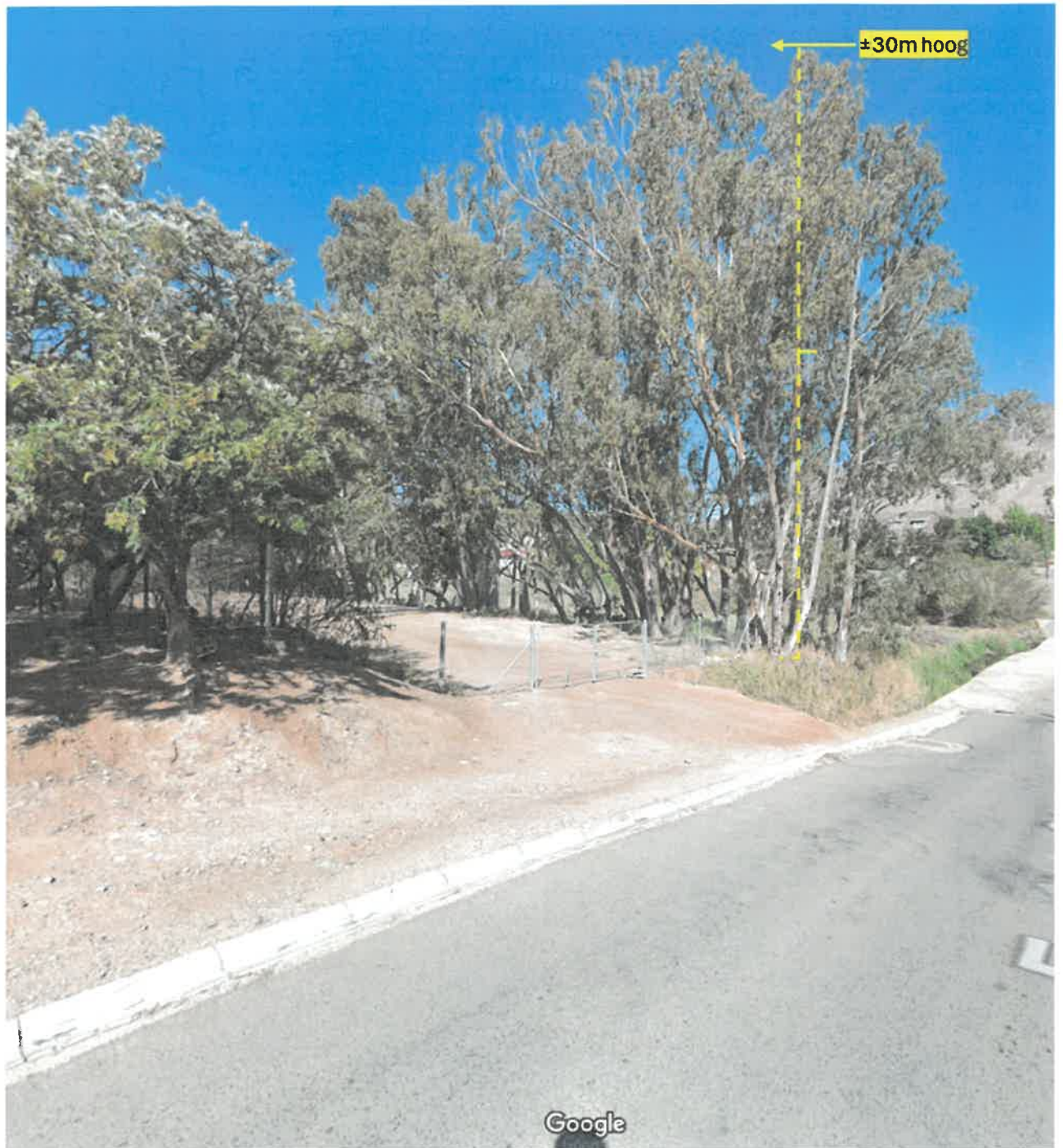


KANTOORSTRAAT, MCGREGOR

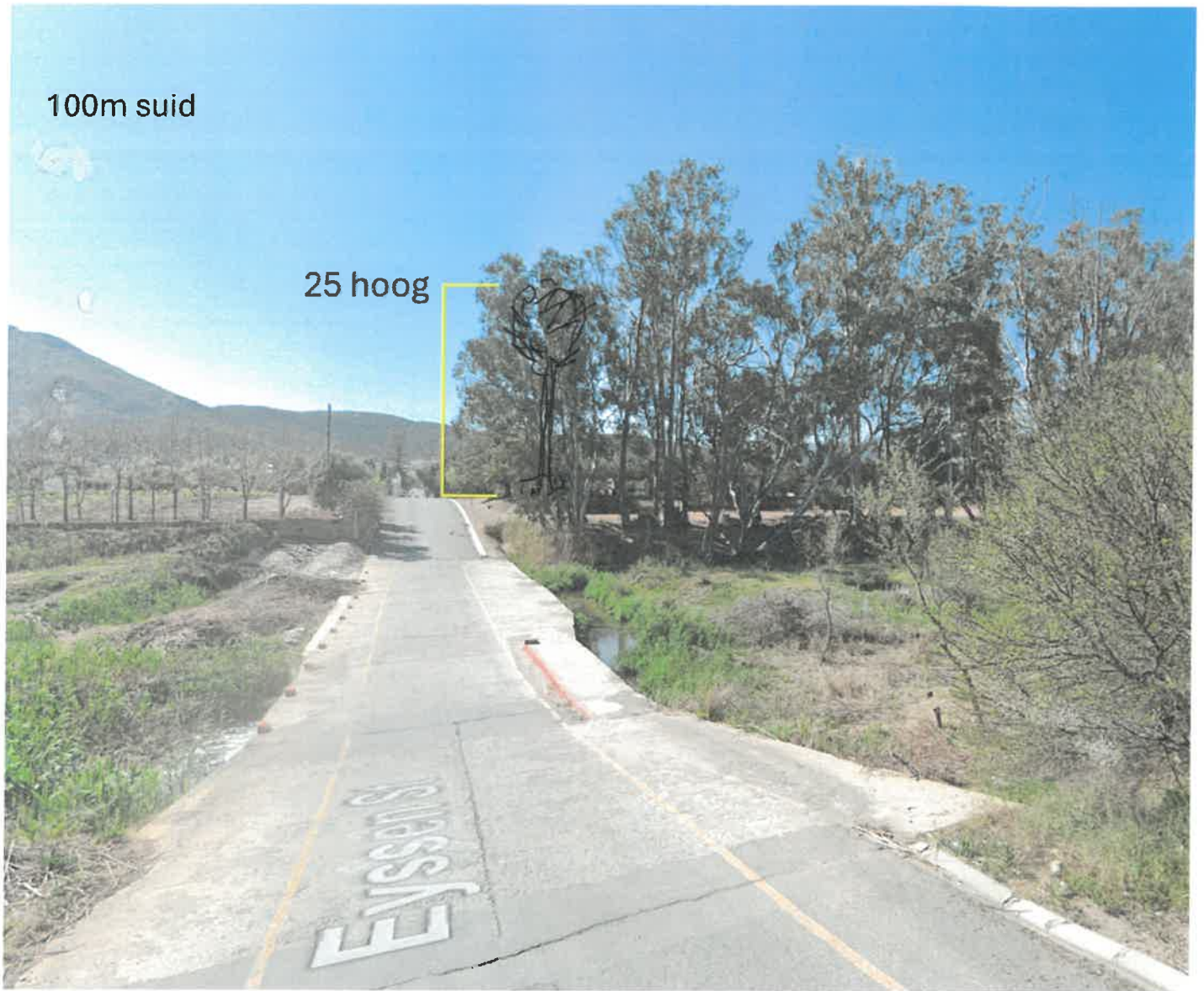
15m hoë mas



Visuele impak voorstelling



BLOEKOMBOME LINGS KINGNARIÛR DIEN AS
AGTERGRONDS EN AFSKERMING





PROJEKSIE VOLGENS HOOGTE VAN RUGBYPLEE OP SPORTVEZDE

Search Google Maps



63 Long St

Montagu, Western Cape



Google Street View

Jul 2023

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WITSIG VINDT KORT GEDEELTE VAN LANGSTRAAT (R62) -
SOWAT 400m WEG.

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Artikel oor veiligheid van EMF uitstraling

Cell Phone Towers

The widespread use of cell phones in recent decades has led to a large increase in the number of cell phone towers (also known as **base stations**) being placed in communities. These towers have electronic equipment and antennas that receive and transmit cell phone signals using [radiofrequency \(RF\) waves](#)¹.

- [How do cell phone towers expose people to RF waves?](#)
- [Do cell phone towers cause cancer?](#)
- [What about 5G networks?](#)

Cell phone towers are still relatively new, and many people are understandably concerned about whether the RF waves they give off might possibly have health effects.

At this time, there's no strong evidence that exposure to RF waves from cell phone towers causes any noticeable health effects. However, this does not mean that the RF waves from cell phone towers have been proven to be absolutely safe. Most expert organizations agree that more research is needed to help clarify this, especially for any possible long-term effects.

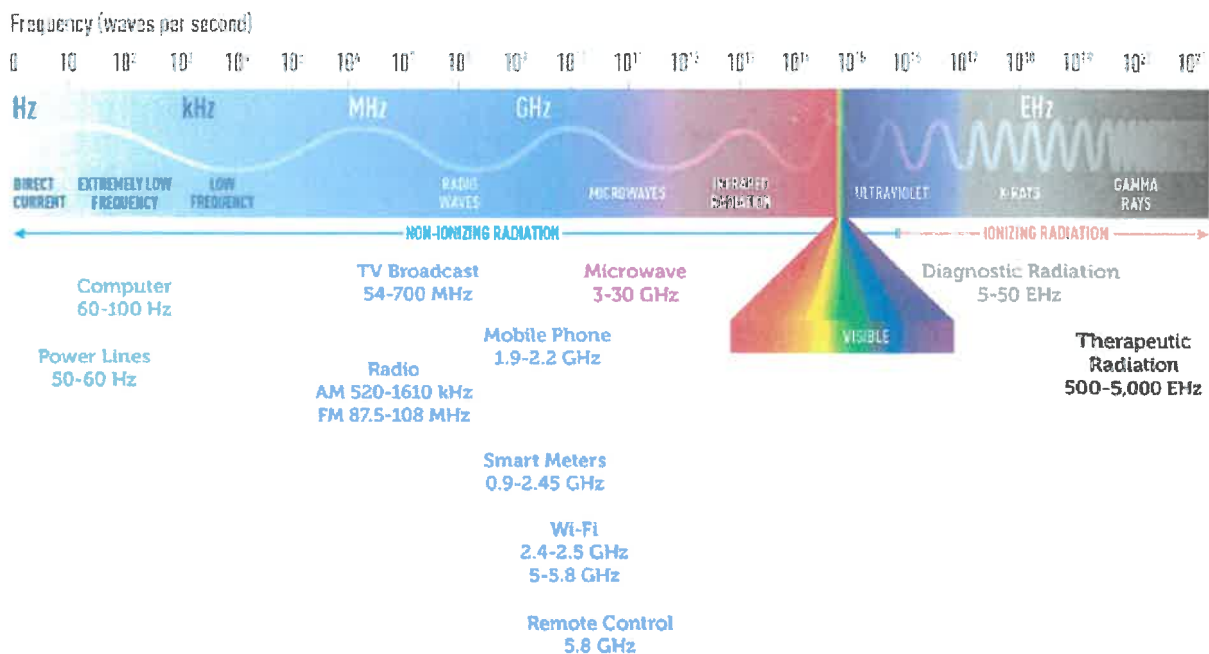
How do cell phone towers expose people to RF waves?

Cell phone base stations can be free-standing towers or mounted on existing structures, such as trees, water tanks, or tall buildings. The antennas need to be high enough to adequately cover a certain area. Base stations are usually from 50 to 200 feet high.

Cell phones communicate with nearby cell towers mainly through RF waves, a form of energy in the electromagnetic spectrum between FM radio waves and microwaves. Like FM radio waves, microwaves, visible light, and heat, they are forms of **non-ionizing radiation**. This means they do not directly damage the DNA inside cells, which is how

stronger (**ionizing**) types of radiation such as [x-rays](#), [gamma rays](#)², and [ultraviolet \(UV\) rays](#)³ are thought to be able to cause cancer.

ELECTROMAGNETIC SPECTRUM



The electromagnetic spectrum illustration above shows the possible frequencies of electromagnetic energy, ranging from extremely low frequencies (such as those from power lines) to extremely high frequencies (such as x-rays and gamma rays), and includes both non-ionizing and ionizing radiation.

At very high levels, RF waves can heat up body tissues. But the levels of energy used by cell phones and towers are much lower.

When a person makes a cell phone call, a signal is sent from the phone's antenna to the nearest base station antenna. The base station responds to this signal by assigning it an available RF channel. RF waves transfer the voice information to the base station. The voice signals are then sent to a switching center, which transfers the call to its destination. Voice signals are then relayed back and forth during the call.

When RF signals are transmitted back and forth to the base station during calls, the RF waves produced at the base station are given off into the environment, where people can be exposed to them.

On the ground near a cell phone tower

RF waves from a cell phone tower antenna, like those from other telecommunication antennas, are directed toward the horizon (parallel to the ground), with some downward scatter. Base station antennas use higher power levels than other types of land-mobile antennas, but much lower levels than those from radio and television broadcast stations. The amount of energy from RF waves decreases rapidly as the distance from the antenna increases. As a result, the level of exposure to RF waves at ground level is much lower than the level close to the antenna.

At ground level near typical cellular base stations, the amount of energy from RF waves is hundreds to thousands of times less than the limits for safe exposure set by the US Federal Communication Commission (FCC) and other regulatory authorities. It is very unlikely that a person could be exposed to RF levels in excess of these limits just by being near a cell phone tower.

On a roof with a cellular antenna

When a cellular antenna is mounted on a roof, it is possible that a person on the roof could be exposed to RF levels greater than those typically encountered on the ground. But even then, exposure levels approaching or exceeding the FCC safety guidelines are only likely to be found very close to and directly in front of the antennas. If this is the case, access to these areas should be limited.

Indoors with a base station mounted on the outside of the building

The level of energy from RF waves inside buildings where a base station is mounted is typically much lower than the level outside, depending on the construction materials of the building. Antennas are pointed away from the side of the building, and the energy level **behind** the antenna is hundreds to thousands of times lower than in front. On top of this, wood or cement block reduces the exposure to energy from RF waves by a factor of about 10. Therefore, if an antenna is mounted on the side of a building, the exposure level in the room directly behind the wall is typically well below the recommended exposure limits.

Near a 5G base station

Newer, smaller versions of base stations (often referred to as **small cells**), which are part of fifth generation (5G) cellular networks, are discussed below.

Do cell phone towers cause cancer?

Some people have expressed concern that living, working, or going to school near a cell phone tower might increase the risk of cancer or other health problems. At this time, there isn't a lot of evidence to support this idea. Still, more research is needed to be sure.

What expert agencies say

The American Cancer Society (ACS) does not have any official position or statement on whether or not radiofrequency (RF) radiation from cell phones, cell phone towers, or other sources is a cause of cancer. ACS generally looks to other expert organizations to determine if something causes cancer (that is, if it is a carcinogen), including:

- The **International Agency for Research on Cancer (IARC)**, which is part of the World Health Organization (WHO)
- The **US National Toxicology Program (NTP)**, which is formed from parts of several different government agencies, including the National Institutes of Health (NIH), the Centers for Disease Control and Prevention (CDC), and the Food and Drug Administration (FDA)

Other major organizations might also comment on the ability of certain exposures to cause cancer.

What they say about cell phone towers

So far, neither IARC nor the NTP have classified the cancer-causing potential of RF waves from cell phone towers specifically. However, some other agencies have commented on cell tower safety.

The **US Federal Communications Commission (FCC)** has said this about cell phone towers near homes or schools:

"[R]adiofrequency emissions from antennas used for cellular and PCS [personal communications service] transmissions result in exposure levels on the ground that are typically thousands of times below safety limits. These safety limits were adopted by the FCC based on the recommendations of expert organizations and endorsed by agencies of the Federal Government responsible for health and safety. Therefore, there is no reason to believe that such towers could constitute a potential health hazard to nearby residents or students."

What they say about RF radiation in general

Based on a review of studies published up until 2011, the **International Agency for Research on Cancer (IARC)** has classified RF radiation as “possibly carcinogenic to humans,” based on limited evidence of a possible increase in risk for brain tumors among cell phone users, and inadequate evidence for other types of cancer. (For more information on the IARC classification system, see [Known and Probable Human Carcinogens](#)⁴.)

More recently, the **US Food and Drug Administration (FDA)** issued a technical report based on results of studies published between 2008 and 2018, as well as national trends in cancer rates. The report concluded: “Based on the studies that are described in detail in this report, there is insufficient evidence to support a causal association between radiofrequency radiation (RFR) exposure and [tumor formation].”

So far, the **National Toxicology Program (NTP)** has not included RF radiation in its *Report on Carcinogens*, which lists exposures that are known to be or reasonably anticipated to be human carcinogens.

What studies have shown

Researchers generally use two types of studies when trying to determine if something might cause cancer:

- **Studies looking at groups of people**
- **Studies done in the lab (using lab animals or cell cultures)**

The following is a brief summary of the major studies that have looked at this issue to date. However, this is not a comprehensive review of all studies that have been done.

Studies in people living near cell phone towers

So far, not many studies in people have focused specifically on cellular phone towers and cancer risk, and the results of these studies have not provided clear answers.

- A large British study comparing families of young children with cancer with families of children without cancer found no link between a mother’s exposure to the towers during pregnancy (based on the distance from the home to the nearest tower and on the amount of energy from RF waves given off by nearby towers) and the risk of early childhood cancer.

- Researchers in Taiwan compared children with cancer to a group of similar children without cancer. They found slightly higher overall risk of cancer in those who lived in towns that had an estimated RF exposure from cell phone towers that was above the midpoint level in the study. However, this finding was less apparent when RF exposure was categorized in other ways.

Both of these studies relied on estimates of RF exposure. Neither of them measured the actual exposure of people to RF waves from nearby cell phone towers. This limitation makes it harder to know what the results of these studies might mean.

Studies looking at cell phone use

The amount of exposure from living near a cell phone tower typically is many times lower than the exposure from using a cell phone. Several dozen studies have looked at possible links between cell phone use and tumors in people. Most studies to date have not found a link between cell phone use and cancer, although these studies have had some important limitations. This is an area of active research. For more information, see [Cellular \(Cell\) Phones⁵](#).

Lab studies on RF waves

RF waves given off by cell phone towers don't have enough energy to damage DNA directly or to heat body tissues. Because of this, it's not clear how cell phone towers might be able to cause cancer. Some studies have found possible increased rates of certain types of tumors in lab animals exposed to RF radiation, but overall, the results of these types of studies have not provided clear answers so far.

Large studies published in 2018 by the US National Toxicology Program (NTP) and by the Ramazzini Institute in Italy exposed groups of lab rats (as well as mice, in the case of the NTP study) to RF waves over their entire bodies for many hours a day, starting before birth and continuing for most or all of their natural lives. Both studies found an increased risk of uncommon heart tumors called malignant schwannomas in male rats, but not in female rats (nor in male or female mice, in the NTP study). The NTP study also reported possible increased risks of certain types of tumors in the brain and in the adrenal glands.

While both of these studies had strengths, they also had limitations that make it hard to know how they might apply to humans being exposed to RF waves from cell phone towers. A 2019 review of these two studies by the International Commission on Non-ionizing Radiation Protection (ICNIRP) determined that the limitations of the studies

didn't allow conclusions to be drawn regarding the ability of RF energy to cause cancer.

Still, the results of these studies do not rule out the possibility that the RF waves used in cell phone communication might somehow impact human health.

What about 5G networks?

Fifth generation (5G) cellular networks are now being rolled out in many parts of the United States and in other countries. 5G networks are capable of transmitting much larger amounts of data over shorter periods of time than previous generations (4G, 3G, etc.).

Earlier generation networks have used RF wavelengths below 6 gigahertz (GHz). 5G networks will use some wavelengths in this range, but will also use some higher frequency wavelengths, at the lower end of the **millimeter wave** spectrum (which ranges from 30 GHz to 300 GHz). While these RF waves are higher frequency (higher energy) than those used by older generations, they are still forms of **non-ionizing** radiation, so they still lack the ability to directly damage DNA.

The higher frequency waves used by 5G travel shorter distances and don't go through objects (such as buildings, or even tree leaves) as well as lower frequency waves. Because of this, 5G networks require many more, smaller versions of base stations (often referred to as **small cells**) in some places, especially in densely populated areas. These small cells can be mounted on streetlights, utility poles, buildings, and other structures. This could result in the antennas being closer to people, although small cells typically operate at much lower power levels than the larger (macro) base stations.

The addition of the higher wavelengths from 5G networks could also expose people to more RF waves overall.

At the same time, these higher frequency RF waves are less able to penetrate the body than lower frequency waves, so in theory they might be less likely to have any potential health effects. But so far this issue has not been well studied.

At this time, there has been very little research showing that the RF waves used in 5G networks are any more (or less) of a concern than the other RF wavelengths used in cellular communication.

Hyperlinks

1. www.cancer.org/cancer/risk-prevention/radiation-exposure/radiofrequency-radiation.html
2. www.cancer.org/cancer/risk-prevention/radiation-exposure/x-rays-gamma-rays.html
3. www.cancer.org/cancer/risk-prevention/sun-and-uv/uv-radiation.html
4. www.cancer.org/cancer/risk-prevention/understanding-cancer-risk/known-and-probable-human-carcinogens.html
5. www.cancer.org/cancer/risk-prevention/radiation-exposure/cellular-phones.html
6. www.fcc.gov/engineering-technology/electromagnetic-compatibility-division/radio-frequency-safety/faq/rf-safety
7. www.fda.gov/radiation-emitting-products/home-business-and-entertainment-products/cell-phones
8. www.cancer.gov/about-cancer/causes-prevention/risk/radiation/cell-phones-fact-sheet
9. www.cancer.gov/about-cancer/causes-prevention/risk/radiation/electromagnetic-fields-fact-sheet
10. www.niehs.nih.gov/health/topics/agents/emf/index.cfm
11. www.niehs.nih.gov/health/topics/agents/cellphones/index.cfm

Additional resources

Along with the American Cancer Society, other sources of information include:

Federal Communications Commission RF Safety FAQ: www.fcc.gov/engineering-technology/electromagnetic-compatibility-division/radio-frequency-safety/faq/rf-safety⁶

Food and Drug Administration Cell Phones: www.fda.gov/radiation-emitting-products/home-business-and-entertainment-products/cell-phones⁷

National Cancer Institute Cell Phones and Cancer Risk: www.cancer.gov/about-cancer/causes-prevention/risk/radiation/cell-phones-fact-sheet⁸ Electromagnetic Fields and Cancer: www.cancer.gov/about-cancer/causes-prevention/risk/radiation/electromagnetic-fields-fact-sheet⁹

National Institute of Environmental Health Sciences Electric and Magnetic fields: www.niehs.nih.gov/health/topics/agents/emf/index.cfm¹⁰ Cell Phone Radio Frequency Radiation: www.niehs.nih.gov/health/topics/agents/cellphones/index.cfm¹¹

** Inclusion on this list does not imply endorsement by the American Cancer Society*

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