**Sample Email to Provincial/Local Stewards of Environmental Protection:**

Dear \_\_\_\_\_\_\_,

Thank you for the work you do to protect the natural world. I too care deeply about our environment, and am committed to insuring that advances in technology support and do not harm nature. To that end, I am writing to alert you to the growing body of science regarding the disturbing effects 5G wireless radiation frequencies can have on our natural world.

**Effects of Radiation on Wildlife**

The [effects of radio frequency radiation on wildlife](https://www.sciencedirect.com/science/article/abs/pii/S0048969714010912?via%3Dihub), [flora](https://pubmed.ncbi.nlm.nih.gov/27650031/) and [fauna](https://www.sciencedirect.com/science/article/pii/S0160412012002334), have been found everywhere scientists have looked. [Trees](https://www.hindawi.com/journals/ijfr/2010/836278/), [birds](https://royalsocietypublishing.org/doi/full/10.1098/rsif.2014.1103), [bees](https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0223614), [other insects](https://www.sciencedirect.com/science/article/pii/S0048969720384461?dgcid=author) and [wildlife](https://www.tandfonline.com/doi/full/10.3109/15368371003685363) will be affected by the high frequency radiation the newest technologies emit which [interferes with navigation](https://www.sciencedirect.com/science/article/abs/pii/S0048969715002296?via%3Dihub) and [orientation](https://royalsocietypublishing.org/doi/full/10.1098/rsif.2014.1103). Scientists warn that electromagnetic frequencies — and the modulations and pulses from the data they carry — are [disrupting the magnetic compass](https://royalsocietypublishing.org/doi/full/10.1098/rsif.2014.1103) on which living creatures depend. Because of their small size, insects are particularly affected by the millimeter wave frequencies associated with 5G.

**Other Effects on the Planet**

The full toll of the 5G/Internet of Things rollout has yet to be calculated but goes well beyond the effects of radiation on wildlife. Other harms include the mega [increase in energy consumption](https://theecologist.org/2020/apr/30/smart-techs-carbon-footprint) (largely obtained from burning fossil fuels) to manufacture and support an internet-connected world. Moreover, to connect everything wirelessly consumes a lot more energy than connecting by wires. There is also [e-waste and fallout of hazardous chemicals](https://www.somagnews.com/dirty-side-digital-age-know-old-pc-will-end/) from the [manufacture and disposal](https://phys.org/news/2018-05-e-waste-wrong.html) of all these IoT “things,” devices, and infrastructure.

Satellites bring a host of problems of their own: [depletion of the ozone layer](https://www.sciencedirect.com/science/article/abs/pii/S0959652620302560); [pollution from rocket launches](https://eos.org/features/the-coming-surge-of-rocket-emissions) and from “dead” satellites burning up in the atmosphere; [satellite collisions](https://www.livescience.com/satellite-near-collision-miss-over-pittsburgh.html), and the resultant cascading space debris which in turn will cause yet more collisions ([Kessler Effect](https://www.scienceabc.com/nature/universe/what-is-kessler-syndrome-definition-example-effects-solution.html)); effects on wildlife from rocket launches; [permanent compromise of the night sky](https://thecalm.ca/wp-content/uploads/2020/02/Astronomers-Concerns-Intensify-With-SpaceXs-Latest-Starlink-Launch.pdf); interference with [astronomical research](https://astronomersappeal.wordpress.com/) and [weather prediction](https://phys.org/news/2020-09-5g-wireless-inaccurate-weather.html); [radiation levels](https://stop5ginternational.org/wp-content/uploads/2021/01/Exhibit-2-Declaration-by-Ben-Levi-and-Paul-Heroux-In-regard-to-the-SpaceX-Starlink-network-May-10-2020.pdf) that will exceed even the [antiquated “safety” limits of ICNIRP](https://ehtrust.org/wp-content/uploads/ICNIRP-report-FINAL-JUNE-2020.pdf), [Health Canada](https://thecalm.ca/wp-content/uploads/2019/02/Safety-Code-6-Fact-Sheet.pdf) and the FCC; impacts on the electromagnetic field of the Earth itself upon which all life forms depend — for we are all [“electrical beings”](https://www.facts-are-facts.com/article/migratory-birds-magnetic-fields-deadly-interference).

**A Smart Solution**

Wired technologies such as fiber or coaxial cable are [far superior to wireless](https://thecalm.ca/reinventing-wires-1-25-18) as they are faster, more reliable, resilient, and energy efficient. Above all, wired connections are significantly less hazardous to our health and to other life forms with whom we share this planet.

Please see the informational flyer attached, which includes some of the science regarding bees and insects. Many more studies have examined the impacts on birds, trees and other aspects of the environment.

I respectfully urge [*insert provincial department name or local environmental committee name*] to investigate this issue further and advocate for communities to stop the deployment of 5G antennas until such time as the environmental effects of this new, powerful technology have been thoroughly examined and fully understood.

Thank you for your attention to this critical matter.

Sincerely,

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