

# SEWAGE SLUDGE/BIOSOLIDS

## A serious look at the impact of Sewage Sludge (Biosolids) on human health and the environment

It is essential to remember that sewage sludge (biosolids) is NOT just human excrement – it is a concentration of all domestic and industrial pollutants that go down the drains and sewers.

So, whilst sewage sludge may have some beneficial factors for plants to use, the problem is that it also contains hundreds of thousands of other harmful contaminants, toxins, pathogens, chemicals, heavy metals, dioxins.

There is overwhelming evidence, some of which has been detailed below, including research from independent scientists and experts. We would urge you to take the time to read and watch to enable you to make up your own minds and own decisions that is based on facts and concrete evidence.

Let's get on the right side of history; let's use this waste resource to make energy rather than covering our natural world with our toxic sewage sludge.

### BIOSLUDGED 2018 Documentary

<https://www.youtube.com/watch?v=advvil5BkqQ>

#### Links to scholarly articles and reports on regulatory failures and risks:

**Dr. Thomas Maler: An Overview of the Dangers of Sewer Sludge (Biosolids) by Thomas Maler, Ph.D.**  
<https://bit.ly/2kehQIP>

Dr. Caroline Snyder: *“Land-applied municipal sewage sludge (biosolids) is a highly complex and unpredictable mixture of biological and chemical pollutants. Biosolids generated in our large industrialized urban centers is very likely the most pollutant-rich waste mixture of the 21st century.”*  
[http://www.sludgefacts.org/testimony\\_to\\_pa.pdf](http://www.sludgefacts.org/testimony_to_pa.pdf)

**Sewage Sludge (Biosolids) — land application, health risks, and regulatory failure**

<https://bioscienceresource.org/sewage-sludge-biosolids-land-application-health-risks-and-regulation-2/>

Dr. Richard Honour: *“Few in any governments appreciate that nearly all chronic diseases are caused by long-term exposure to low levels of environmental contaminants and pollutants. We should be trying to minimize this exposure, not amplifying it. It is time to end land disposal of Toxic Sewer sludge, and look at cleaner, greener alternatives – gasification / pyrolysis.”*

<http://biosolidsbattleblog.blogspot.com/2017/02/dr-richard-honour-reflects-on-tss-toxic.html>

**Scientific American:**

<https://www.scientificamerican.com/article/drugs-chemicals-seep-deep-into-soil-from-sewage-sludge/>

## **Prominent Scientists and Universities outline the Dangers of Biosolids:**

UK Scientists- Aberdeen / Glasgow Universities:

[https://www.wte-ltd.co.uk/sewage\\_sludge\\_biosolids.html](https://www.wte-ltd.co.uk/sewage_sludge_biosolids.html)

Cornell University: <http://cwmi.css.cornell.edu/case.pdf>

Yale University: <https://pubs.acs.org/doi/full/10.1021/acs.est.5b01931>

Canadian Scientists Open Letter on the dangers of biosolids – open letter to The Hamilton Spectator 1<sup>st</sup> March 2016: <https://bit.ly/1sb2qOP>

## **YouTube interviews & documentaries:**

Little Things Matter: The impact of toxins on the developing brain

<https://www.youtube.com/watch?v=E6KoMAbz1Bw>

**Unacceptable Levels:** <https://www.youtube.com/watch?v=1jz0LIFEFSs> (*For the section of the film dealing with Toxic Sludge start at the 32.40 minute point*) In the USA, the EPA determined that sewage sludge was too toxic and too contaminated to dump at sea, to landfill or to incinerate. However, as there's some nitrogen in it, despite the overwhelming evidence of the toxic chemicals and contaminants it contains, they have allowed it to be distributed for free on farm land across America under the re-branded name 'Biosolids' and now around 75% of all the toxic sewage sludge in the USA is dumped this way.

Natural health expert and Mercola.com founder Dr. Joseph Mercola interviews Dr. David Lewis, a microbiologist with a PhD in Microbial Ecology who spent three decades working as an Environmental Protection Agency (EPA) scientist: <https://www.youtube.com/watch?v=OEhI57IoaPo>

Canadian National Film Board - Crapshoot: The Gamble with our wastes:

[https://www.nfb.ca/playlists/fun\\_films\\_about\\_science\\_and\\_technology/viewing/crapshoot\\_the\\_gamble\\_with\\_our\\_wastes/](https://www.nfb.ca/playlists/fun_films_about_science_and_technology/viewing/crapshoot_the_gamble_with_our_wastes/)

Sludge Diet: <https://www.youtube.com/watch?v=zYvU15dwFeA>

*'We may well find in the long run that tinned food is deadlier than the machine gun.'* George Orwell