

Pathogens and Vector Attraction in Sewage Sludge

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Environmental Regulations and Technology

Control of Pathogens and Vector Attraction in Sewage Sludge



Pathogens and Vector Attraction in Sewage Sludge



https://cfpub.epa.gov/si/si_public_record_Report.cfm?dirEntryId=356976&Lab=CESER

Office of Research and Development
Washington, D.C.

Statute

- EPA Promulgated sewage sludge regulations 1993 under the authority of the Clean Water Act
- Known as 40 CFR Part 503
- Requires EPA to establish standards for proper treatment, use and disposal of sewage sludge
- Also requires EPA to conduct a review every two years to determine if additional pollutants should be regulated

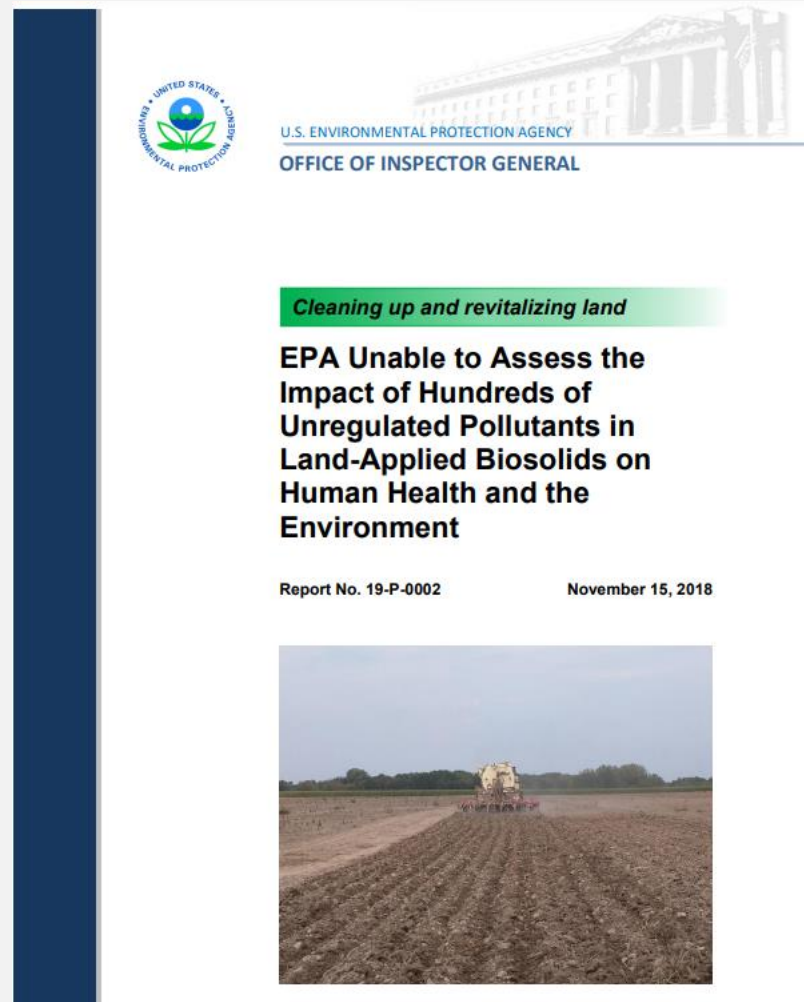
Clean Water Act



Document History

https://www.epa.gov/sites/default/files/2018-11/documents/_epaig_20181115-19-p-0002.pdf

- First Document was published 1992, prior to the 503 rule promulgation.
- Document was updated in 2003.
- 2018 OIG Report
 - Appendix E outlines 13 corrective actions



- **Publish guidance on the methods for the biosolids pathogen alternatives 3 and 4.**
- **Issue updated and consistent guidance on biosolids fecal coliform sampling practices.**

OW is working with the EPA Office of Research and Development to update the 2003 Environmental Regulations and Technology Control of Pathogens and Vector Attraction in Sewage Sludge document to include EPA Methods 1680, 1681 and 1682.

Changes in Current Version

- Changed the order of chapters to make the document flow better
 - Chapter 4 Class A
 - Chapter 5 PFRP (Processes to Further Reduce Pathogens)
 - Chapter 6 Class B
 - Chapter 7 PSRP (Processes to Significantly Reduce Pathogens)

Changes in Current Version

- Added Chapter 3 on Septage
- Added language to clarify the microbial indicators used in biosolids regulation monitoring (Chapters 2, 4,10).
- Added the preferred EPA methods 1680, 1681, and 1682 to the appendixes.
- Provided a list of the approved PFRP / PSRP's
- Removed redundancy throughout the document.

Changes in Current Version

- Added Language to explain that Vector Attraction Reduction (VAR) must occur simultaneously to pathogen reduction or after. It can't precede pathogen reduction!
- Added language that PEC equivalency determination is NOT an endorsement by the EPA.

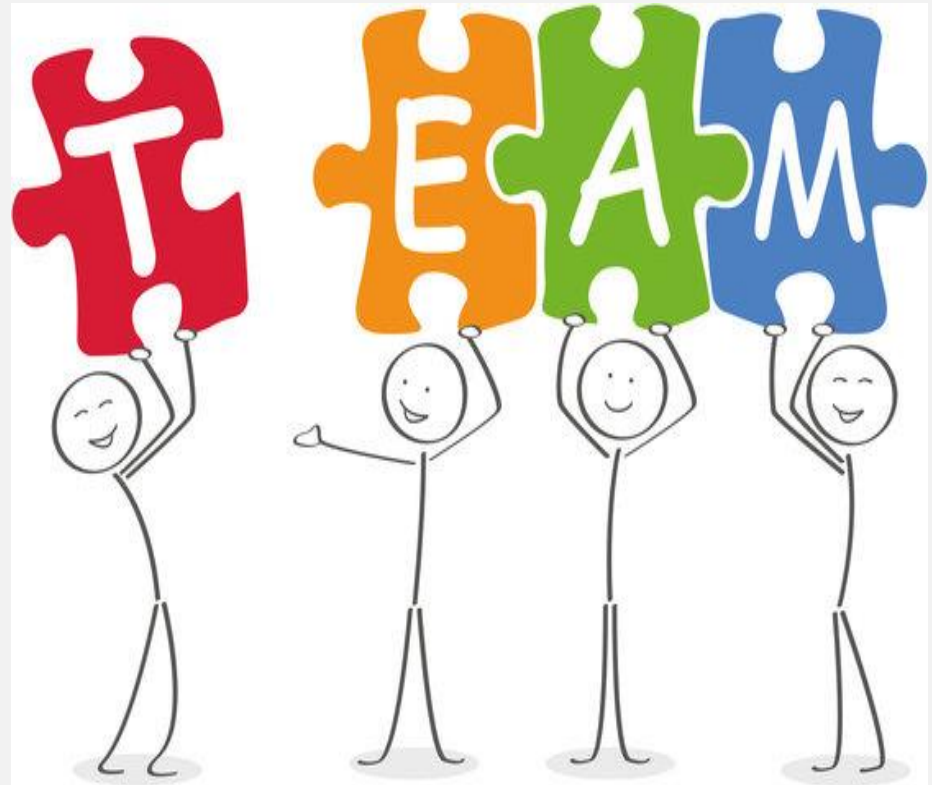
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Questions???



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