

# FRACKING WASTE CAN BE *RADIOACTIVE*



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## DO NOT:

- Transport it on Rivers
- Inject it Underground
- Dump it in Landfills
- Spread it on Roads

## WE HAVE A RIGHT TO CLEAN WATER!

Contact: Citizens to Preserve Ligonier Valley

What would we do with fracking waste?

With calls to expand fracking for gas in PA in order to lower prices, it is essential to consider how our PA environment, and residents' and gas workers' health would be affected by increased fracking. **One gas well can produce one to two million gallons of wastewater, and Fracking waste can be toxic and RADIOACTIVE.**

We already know enough about the risks from radioactive substances to know we should be concerned about choosing the easy answer, fracking, an activity that will increase our exposure to radioactive material, without examining other options.

What should we do with that radioactive waste? Put it in landfills where leachate is produced? Inject it into a well in your town?

Consider:

\*Loopholes let the oil and gas industry label most of its annual [18 billion barrels](https://www.nrdc.org/onearth/small-towns-battle-against-radioactive-fracking-waste) of waste fluids, even radioactive waste, the same as household waste. <https://www.nrdc.org/onearth/small-towns-battle-against-radioactive-fracking-waste>

\*Salts are found in the frack brine as well as chemicals such as barium, strontium, arsenic, and naturally occurring radioactive material (NORMS)

\*At the Josephine Brine Treatment Facility, Blacklick Creek in Indiana County, concentrations of radium, a highly radioactive substance, were 200 times higher than background levels.

\*A New York Times report found three-quarters of more than 240 PA and WVA gas wells studied produced wastewater with high levels of radiation, including 116 wells with levels

hundreds of times EPA drinking water standards and at least 15 wells with levels thousands of times the standards.

\*In each landfill that accepted **TENORM** from fracking, that DEP tested, radiation was detected in the leachate. In one location, Radium-226 was measured at 378 pCi/Liter. EPA safe drinking water level is 5pCi/Liter.

**TENORM** - Technologically Enhanced Naturally Occurring Radioactive Material, is defined as, "Naturally occurring radioactive materials that have been concentrated or exposed to the accessible environment as a result of human activities such as manufacturing, mineral extraction, or water processing."

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