



New Study: Fracking Can Contaminate Rivers and Lakes with Radioactive Material

Scientists from Pennsylvania State University warn that waste water from fracking oil and gas wells can contaminate rivers and lakes with radioactive material and hormone-affecting chemicals. New research shows that water tested downstream of a treatment plant at the Conemaugh River watershed contains high loads of chloride, barium, strontium, and radium.

The vast amount of waste water produced by fracking can contaminate rivers, lakes and other waterways with radioactive material and hormone-affecting chemicals, according to new research.

The study tested sediments and groundwater downstream of a treatment plant in Pennsylvania that was designed to make the water used as part of the fracking process fit for release into the environment.

The scientists, from Pennsylvania State University and other academic institutions, discovered that despite this process there were “high loads of chloride, barium, strontium, radium and organic compounds” in the Conemaugh River watershed.

Stream sediments in Blacklick Creek, just downstream from one treatment plant, were found to contain about 200 times the level of radium upstream of the plant.

The highest concentration of radium found was just 14 per cent below the level at which it would have to be treated as radioactive waste in some US states.

However the researchers said the risks of the pollutants discovered were “difficult to assess”.

[Writing in the journal *Environmental Science & Technology*](#), the scientists said: “Large quantities of oil-and-gas wastewater with high loads of chloride, barium, strontium, radium, and organic compounds have been discharged into the Conemaugh River watershed.

“Stream sediments in Blacklick Creek immediately downstream of centralised waste treatment plant number one were found to contain [radium] levels that were about 200 times greater than activities measured in upstream and background sediments.



“Elevated concentrations of radium and other alkaline earth metals have now been detected in reservoir sediments about 19km farther downstream of this plant.

“Despite several other sources of contaminants such as coal bed methane, coal mine drainage, and flue gas desulfurization releases that can impact surface water quality, we document multiple lines of evidence that indicate the legacy of unconventional oil-and-gas wastewater disposal has impacted stream sediments and porewater [groundwater] on a watershed-scale.”

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They said while the amount of fracking wastewater was “relatively small” compared to the volume of the stream it “nonetheless had a measurable impact”.

“Risks posed by the pollutants buried in the sediment and porewater of the Conemaugh River Lake are difficult to assess,” the paper added. The watershed is not used as a source of drinking water, the researchers added.

Fracking involves forcing water and other substances, which can include radioactive ones, into cracks in porous rocks that contain significant amounts of fossil fuels.

It has become common in the US, accounting for more than half of oil production and two-thirds of gas production.

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Black Lives Matter Calls for Censoring NRA Commercial

The NRA produced a video statement by radio host, Dana Loesch, that calls for the 'clenched fist of truth' to put a stop to the violent protests that are spreading across America. Black Lives Matter and other Marxist minions of George Soros, who organize the violent demonstrations, are condemning the video because – it might incite violence. –GEG

Dana Loesch has found herself the target of Black Lives Matter and women's groups for a [recent NRA ad](#) in which she called on people to resist the left's lies, propaganda and political violence.

Loesch was personally called out in a Black Lives Matter video that urges activists to “produce media, teach students, march and protest to not only protect the First Amendment as fiercely as the NRA protects the Second [Amendment], but to protect our lives from gun-toting racists.”

Also, the organizers behind January's Women's March have planned a new protest at the NRA headquarters, scheduled to start tomorrow. It also was partially in response's to Loesch's ad.

Loesch said it's “incredibly ironic” that these groups claim to be inclusive and support free speech, when that actually couldn't be further from the truth.

She said that Black Lives Matter was started with the noble goal of addressing discord between African-Americans and law enforcement, but now they're fostering more division instead of solving it.

Loesch, who is an NRA spokesperson, pointed out that they're

requesting the NRA pull her ad, which violates her right to free speech.

She added that the Women's March is actually a "discriminatory organization," because they're only for some women, not all women.

She explained that they don't want pro-life women or women who want to be empowered to use the Second Amendment.

"Somehow leftism or progressivism has the patent on being a female, it has the patent on being gay or a lesbian, it has the patent on being black or being a Muslim," Loesch said. "And it doesn't. And that's what I find discriminatory."

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The Vatican Is Rocked by Sex Scandals and Drug Arrests

New scandals have rocked the Vatican, including sexual assault charges against Cardinal Pell, the Treasurer for the Vatican, and the arrest of one of the Pope's top advisors who was caught by police taking drugs and participating in a gay-sex orgy. There also is the unexplained death of Cardinal Joachim Meisner, who vigorously opposed the Pope's acceptance of divorce and "Liberation theology", which is a Marxist-

revolutionary interpretation of Christianity. All of this has raised the question of whether the Church can (or should) survive such extreme departures from traditional doctrine.
-GEG