

## Fresh Water Accountability Project

Dedicated to preserving  
and protecting our *freshwater*,  
a basic human need, belonging to us all.

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### **Report Cites Dangers If MWCD Leases Reservoirs for Fracking: Calls for Immediate Moratorium on Fracking Wells in Watersheds with Reservoirs**

A report commissioned by citizens opposed to hydraulic fracturing for oil and gas has identified grave public health and environmental risks in plans to lease public land for hydraulic fracturing (“fracking”) near Muskingum Watershed Conservancy District (MWCD) reservoirs. The report, by Paul Rubin, a high-profile New York Hydrogeologist (President of HydroQuest), warns of toxic water contamination sources which will be created by fracking near and underneath the lakes. It was sent today to the MWCD along with a demand by the citizens that there be an immediate moratorium of indefinite length imposed upon hydraulic fracturing on any MWCD lands and underneath all MWCD reservoirs, and further, that there be a permanent policy of refusing to sell reservoir water for fracking.

Rubin’s report focuses on Seneca Lake, Ohio’s second-largest freshwater lake, as an example of a Muskingum reservoir case study. He concludes that leasing for widespread gas and oil drilling is a “present worst-case scenario” because:

- Gas and oil wells, some drilled more than half a century ago, have weak or failing plugs of questionable integrity. The ability of aging, incomplete and absent well sealant (i.e., plug) materials to keep toxic contaminations out of freshwater aquifers, reservoirs and waterways is poor and short-lived;
- Cement sheaths, steel casing and clay plugs of known wells are failing or will fail within anywhere from a few years to decades, thereby creating new pathways for explosive methane gas and fracking poisons to flow into drinking water sources. Huge fracking pressures will blow out weak clay plugs in old wells, many beneath reservoirs. Earthquakes will further shorten the limited durability and life span of well sealant materials;
- Repeated hydraulic fracturing will result in interconnecting natural and created fractures and old, poorly plugged, gas and oil wells, allowing upward contaminant migration into drinking water supplies, including reservoirs; and
- Toxic hydrofracking fluids injected deeply in the ground will move with groundwater flow systems, eventually moving upward into freshwater aquifers, reservoirs and waterways. Permitting of horizontal gas wells proximal to reservoirs will needlessly jeopardize water quality.

These are among many reasons that HydroQuest recommends an immediate moratorium on leasing for hydro-fracking in the MWCD and gas-rich shales of Ohio and for conducting health and environmental impact assessments.

Investigation is ongoing by other experts into identifiable cancer spikes in neighborhoods in Cambridge, Ohio, which considerably exceed the statewide average for cancers and which may be traceable to historical oil and gas drilling and subsequent leakage into Seneca Lake and its tributaries upstream. Many fracking chemicals are carcinogenic, teratogenic (cause birth defects and poor maternal and fetal health), and toxic to the nervous, respiratory and gastrointestinal tracts. Investigators believe that existing public health problems in the Muskingum River Basin will be intensified by additional water contamination, and will soon report on toxic dangers from fracking.

Hydrogeologist Rubin states: “Considering potential loss of potable water quality, it is difficult to conceive of any worse combination of factors than those proposed for drilling and production of horizontal wells with high pressure and high volume hydro-fracturing next to and under public water supply reservoirs ... This situation is exactly what major water suppliers elsewhere have fought hard to avoid. ... Health risk and assured contamination of ground and surface water supplies is the reason to ban hydraulic fracturing in the Muskingum River Watershed and beyond. The most important reason to ban hydraulic fracturing in the Muskingum River Watershed is that it poses great medical risk to the residents.”

Further, says Rubin, “The problem with Seneca - and I suspect with other Muskingum District reservoirs - is that they pose a ‘worst-case’ scenario now, in real time, and not simply one possible bad outcome of fracking. This watershed is one of the worst situations in the United States, combining high risks to water quality while worsening already-troubling public health risks.”

“On a broad scale,” Rubin continued, “regulators in the State of Ohio may be fostering the Love Canal of today, but on a far, far grander scale. Love Canal was a major Superfund hazardous waste site near Buffalo, NY. Adverse health impacts from hydraulic fracturing, already well-documented by toxicologists and doctors in Pennsylvania, will assuredly occur in the MWCD and then increase as contaminated groundwater reaches major down-gradient aquifers. Once contaminated, groundwater cannot be remediated, even at unlimited cost.”

Lea Harper of Southeast Ohio Alliance to Save Our Water (SOASOW), which commissioned the study, issued this statement: “The potential known risks of contamination of water contained in the Muskingum watershed simply cannot justify hydrofracking. Millions of gallons of poorly-defined toxic and radioactive waste are generated at each drilling site, which also endangers public health. We endorse the many recommendations made by HydroQuest. For starters, we strongly recommend that no gas well permits be given within any watershed with a reservoir, and particularly in settings with relict gas wells beneath reservoirs. We also demand that no further water sales by the Conservancy District be allowed so we don’t lose the benefit of the dilution effect for toxins already present from previous fossil fuel extraction activities in the area.”

*The Rubin report, “Hydrogeologic Concerns Regarding Hydraulic Fracturing within the Muskingum River Watershed in Eastern Ohio with Justification & Recommendations in Support of a Drilling Moratorium within Reservoir Watersheds and Statewide Legislation Banning Hydraulic Fracturing,” is available at <http://hydroquest.com/Hydrofracking/Ohio%20-%20Muskingum%20Watershed%20Hydraulic%20Fracking%20Report%2010-17-12.pdf>*

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*The Fresh Water Accountability Project is committed to preserving clean water and to pre-empting possible environmental degradation while establishing accountability on behalf of those who may be detrimentally affected and deserve compensation if their water and quality of life are adversely affected by hydraulic fracturing activities, including injection wells and waste disposal, which also includes the spreading of “brine” (frack waste) on public roadways.*