

May 7, 2015

Dr Ray Gosine

Chair, Hydraulic Fracturing Review Panel

c/o Office of Associate Vice President

Bruneau Centre for Research and Innovation

Memorial University of Newfoundland

St.Johns, NL

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Dr. Gosine and Panel Members;

I am writing to express my concern with Hydraulic Fracturing for the province of Newfoundland and Labrador, particularly the west coast, which is my native home land.

I am an Elder in the Newfoundland Mi'kmaw community and I have both traditional and first hand knowledge based on my experience working in the Oil and Gas Industry.

Here are my concerns, including online links for your review;

1. Increased Air & Water Pollution & related Endocrine Damage to Sustainable Life forms

Theo Colborn, Carol Kwiatkowski, Kim Schultz, & Mary Bachran ((2011) : Natural Gas Operations from a Public Health Perspective, Human and Ecological Risk Assessment: An

International Journal, 17:5, 1039-1056 Available online @ HYPERLINK

["http://cce.cornell.edu/EnergyClimateChange/NaturalGasDev/Documents/PDFs/fracking%20chemicals%20from%20a%20public%20health%20perspective.pdf"](http://cce.cornell.edu/EnergyClimateChange/NaturalGasDev/Documents/PDFs/fracking%20chemicals%20from%20a%20public%20health%20perspective.pdf)

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First Study of Its Kind Detects 44 Hazardous Air Pollutants at Gas Drilling Sites by Lisa Song

HYPERLINK ["http://insideclimatenews.org/news/20121203/natural-gas-drilling-air-pollution-fracking-colorado-methane-benzene-endocrine-health-NMHC-epa-toxic-chemicals"](http://insideclimatenews.org/news/20121203/natural-gas-drilling-air-pollution-fracking-colorado-methane-benzene-endocrine-health-NMHC-epa-toxic-chemicals)

<http://insideclimatenews.org/news/20121203/natural-gas-drilling-air-pollution-fracking-colorado-methane-benzene-endocrine-health-NMHC-epa-toxic-chemicals>

Osborn, SG, A Vengosh, NR Warner, RB Jackson. 2011. HYPERLINK

["http://sites.biology.duke.edu/jackson/pnas2011.html"](http://sites.biology.duke.edu/jackson/pnas2011.html) Methane contamination of drinking water accompanying gas-well drilling and hydraulic fracturing. *Proceedings of the National Academy of Sciences, U.S.A.* 108:8172-8176, HYPERLINK

["http://dx.doi.org/10.1073/pnas.1100682108"](http://dx.doi.org/10.1073/pnas.1100682108) doi:10.1073/pnas.1100682108.

HYPERLINK ["http://sites.biology.duke.edu/jackson/pnas2011.pdf"](http://sites.biology.duke.edu/jackson/pnas2011.pdf)

More research from Duke University's Biology Department: HYPERLINK

["http://sites.biology.duke.edu/jackson/pubs.html"](http://sites.biology.duke.edu/jackson/pubs.html)

<http://sites.biology.duke.edu/jackson/pubs.html>

Research and assessment has not been completed on the West Coast of Newfoundland, although the type of rock here is much different than that in Pennsylvania and other areas where this process is occurring. Therefore, more chemicals may need to be added to detract flow into the well bore and at a higher pressure (wasting more water in the process). There are other radioactive chemicals, isotopes of (URANIUM RADIUM and RADON GAS) and other fracking chemicals (KNOWN and UNKNOWN), that have not to been shared with the public because of alarms regarding water pollution. The list goes on, BUT this list has been concealed from public information.

2. Potential and likely leaks from the fracking fields.

As has been demonstrated elsewhere time and time again.

3. Flaring, explosions and fire

Many wells are closed due to excess methane which then impacts safe drinking water for residents to DRINK.

The SHALE formation in Western Newfoundland the Geology has only a foot in the sand on their study (IF ANY), only what you see on governments MAPS, and are far from studies of sunlight that creates Ozone, which is toxic, X12-15 more Global Warming effect then C02.

4 Condensation Tanks and their contents

1. Flow back fluids (deliberately withdraw containing fracking chemicals).
2. Produced fluids (which come up with the OIL and GAS including -Cadmium
Lead, Arsenic Radioactive Isotopes, Uranium, Radium, and Radon: Many other lesser amounts.
3. High Salinity.

5. STRESS: stress ,stress

1. NOISE /24 HRS. a day on and near drilling and fracking sites
2. Lights /24 HRS a day.
3. Smell, and pollutants.
4. Insomnia.
5. Worry and Anxiety.

6. Long term Impact on Community.

We must consider the long term impact not only for our grand children but for all of us who remain to live a healthy and well being in our communities.

Without adequate listening, cautionary practices, understanding and transparency by government, faith in government by community members will continue to deteriorate and threaten our democracy.

While we know that some procedures can be done safe in the Oil and Gas industry, as of today 50% of wells fail. If we take this course of action, in 50 years the animals will die, the trees will disappear and our home land will be destroyed...don't any one take this lightly. Ke-Please.

Sincerely,

Pikto'l Sa'ke'j Miu's / Victor James Muise.