From:
 Chris Hawke

 To:
 fracking inquiry

 Subject:
 Re: Fracking chemicals harm kids- your NT Inquiry response

 Date:
 Monday, 30 October 2017 9:52:48 AM

Thankyou for your prompt response alerting me to the lack of attachment or link.

The link is

https://www.ecowatch.com/study-fracking-chemicals-harm-kids-brains-2501275054 html? utm_source=EcoWatch+List&utm_campaign=bf227e1467-EMAIL CAMPAIGN&utm_medium=email&utm_term=0_49c7d43dc9-bf227e1467-86041473

I am deeply concerned about risks especially for all remote children on pastoral stations and Remote Aboriginal Communities.

Will this be dealt with openly in any report that you make in coming weeks.

Could you please confirm receiving this.

Again thanks for letting me know that link was missing.

Chris Hawke

On Mon, Oct 30, 2017 at 9:25 AM, fracking inquiry <fracking.inquiry@nt.gov.au> wrote:

Dear Mr Hawke

Thank you for your email to the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory.

Please note that the email below does not contain an attached document or a link to an external article; please resend with the article or link to the article.

Alternatively, submissions can be uploaded directly to the Inquiry through the 'have your say' tab on the Inquiry homepage.

Thank you

Regards

Hydraulic Fracturing Inquiry

e ... fracking.inquiry@nt.gov.au

w ... https://frackinginquiry.nt.gov.au/

THE SCIENTIFIC INQUIRY INTO HYDRAULIC FRACTURING IN THE NORTHERN TERRITORY



Confidentiality and Disclaimer Statement:

Use or transmittal of the informa ion in this email other than for authorised NT Government business purposes may constitute misconduct under the **NT Public Sector Code of Conduct** and could potentially be an offence under the **NT Criminal Code**. If you are not the intended recipient, any use, disclosure or copying of this message or any attachments is unauthorised. If you have received this document in error, please advise the sender. No representation is given that attached files are free from viruses or other defects. Scanning for viruses is recommended.

From: Chris Hawke [mailto
Sent: Friday, 27 October 2017 6:15 AM
To: fracking inquiry <<u>fracking.inquiry@nt.gov.au</u>>
Subject: Fracking chemicals harm kids- your NT Inquiry response

Dear Fracking Inquiry

What is your response to this article as I do not wish to have any child or person in the NT subjected to this reality or risk...especially when we have renewable energy alternatives available.

Can you please confirm that you have received this request and article.

Chris Hawke

EcoWatch



latural gas flaring near a school. Kellly Finar

Study: Fracking Chemicals Harm Kids' Brains

A new study from the Center for Environmental Health adds to the growing body of evidence that unconventional oil and gas (UOG), which includes fracking, is harmful to human health and especially hazardous to vulnerable populations, including newborns and children.

During the fracking process, a mixture of water, sand and chemicals is directed at high pressures into shale beds to release petroleum resources. This slurry involves the use of nearly 700 chemicals, the U.S. Environmental Protection Agency found.

The new research, published Wednesday in Reviews on Environmental Health, examined five particular air and water pollutants that are widely used in or byproducts of UOG development and operations—heavy metals, particulate matter, polycyclic aromatic hydrobcarbons, BTEX (benzene, toluene, ethylbenzene, xylenes), and endocrine disrupting compounds.

"Every stage of the UOG lifecycle, from well construction to extraction, operations, transportation and distribution can lead to air and water contamination," the paper notes.

Dauntingly, the researchers found that early life exposure to these substances has been linked to potentially permanent learning and neuropsychological deficits, neurodevelopmental disorders and neurological birth defects.

"Given the profound sensitivity of the developing brain and central nervous system, it is reasonable to conclude that young children who experience frequent exposure to these pollutants are at particularly high risk for chronic neurological diseases."

This is the first literature review to focus explicitly on the effects of the UOG industry on the neurodevelopmental and neurological health of infants and children. In other words, this is the first time researchers have examined how children's brains are affected by living near fracking sites.

Ellen Webb of the Center for Environmental Health and lead author of the study explained to Environmental Health News that the research on children's health near oil and gas sites is "slowly emerging" but that "it's only reasonable to conclude that young children with frequent exposure to these pollutants would be at high risk for neurological diseases."

The authors warn that people living near such operations can suffer from increased exposure to elevated concentrations of air and water pollutants. About 17.6 million Americans live within one mile of an active oil or gas well, a separate study found.

The Center for Environmental Health research team suggested a setback of at least one mile between drilling sites and buildings such as schools, hospitals and other spaces where infants and children might spend a substantial amount of time. The researchers also recommended more research on how low levels of long term exposure from multiple drilling chemicals might affect people's health, mandatory testing of industrial chemicals used on sites, and more transparency of chemicals used in UOG.