

# I N D E X

Documents contained in the  
*Digest of Independent Science on Hydro-Fracking*  
Prepared for Governor Andrew Cuomo

Updated October 2014

## Section 1: HEALTH IMPACTS

**1. Natural Gas Operations from a Public Health Perspective** (Colborn, Kwiatkowski, Schultz, Bachran) Human and Ecological Risk Assessment, Sept. 2011

**2. Impacts of Gas Drilling on Human and Animal Health**  
(Bamberger, Oswald) New Solutions, 2012

**3. Understanding Exposure From Natural Gas Drilling Puts Current Air Standards to the Test** (Brown, Weinberger, Lewis, Bonaparte) Reviews on Environmental Health, April 2014

**4. Investigating Links Between Shale Gas Development and Health Impacts Through A Community Survey Project in Pennsylvania** (Steinzor, Subra, Sumi) New Solutions, 2013

**5. Birth Outcomes and Maternal Residential Proximity to Natural Gas Development in Rural Colorado** (McKenzie, Guo, Witter, Savitz, Newman, Adgate) Environmental Health Perspectives, April 2014

**6. Chemical and Biological Risk Assessment for Natural Gas Extraction in New York** (Bishop) March 2011

**7. The Implications of Unconventional Drilling for Natural Gas, A Global Public Health Concern** (Finkel and Hays) Public Health, October 2013

**8. An Exploratory Study of Air Quality Near Natural Gas Operations** (Colburn, Schultz, Herrick, Kwiatkowski) Human and Ecological Risk Assessment, November 2012

**9. Estrogen and Androgen Receptor Activities of Hydraulic Fracturing Chemicals and Surface and Ground Water in a Drilling-Dense Region** (Kassotis, Tillitt, Davis, Hormann, Nagel) General Endocrinology, March 2014

**10. Environmental Public Health Dimensions of Shale and Tight Gas Development** (Shonkoff, Hays, Finkel) Environmental Health Perspectives, August 2014

**11. Fatalities Among Oil and Gas Extraction Workers -- United States 2003-2006** (Node, Conway) CDC MMR Weekly, April 2008

**12. Battlement Mesa Draft HIA** (Colorado School of Public Health) February 2011

**13. Public Health and High Volume Hydraulic Fracturing** (Korfmacher, Jones, Malone, Vinci) New Solutions, 2013

## Section 2: WATER CONTAMINATION

**14. Potential Contaminant Pathways from Hydraulically Fractured Shale of Aquifers** (Myers) National Ground Water Association. Ground Water, April 2012

**15. Methane Contamination of Drinking Water Accompanying Gas-Well Drilling and Hydraulic Fracturing** (Osborn, Vengosh, Warner, Jackson) PNAS 2011

**16. Potential Impacts of Hydraulic Fracturing on Water Resources** (Swackhamer, University of Minnesota) - Power Point document

**17. Investigation of Ground Water Contamination near Pavillion, Wyoming** (draft) - (Summary only) (DiGiulio, Wilkin, Miller, Oberly) Environmental Protection Agency, 2011

**18. Geochemical Evidence For Possible Natural Migration of Marcellus Formation Brine to Shallow Aquifers in Pennsylvania** (Warner, Jackson, Darrah, Osborn, Down, Zhao, White, Vengosh) Proceedings of the National Academies of Science of the United States, 2012

**19. Water Pollution Risk Associated with Natural Gas Extraction from the Marcellus Shale** (Rozell and Reaven) Risk Analysis, August 2012

## Section 3: AIR POLLUTION

**20. Human Health Risk Assessment of Air Emissions from Development of Unconventional Natural Gas Resources** (McKenzie, Witter, Newman, Adgate) Colorado School of Public Health, 2012

**21. Air Pollutant Emissions from Shale Gas Development and Production** (Robinson, Carnegie Mellon) - Power Point document

## Section 4: WASTES / WASTEWATER

**22. Organic Substances in Produced and Formation Water from Unconventional Natural Gas Extraction in Coal and Shale** (Orem, Tatu, Varonka, Lerch, Bates, Engle, Crosby, McIntosh) International Journal of Coal Geology, January 2014

**23. Geochemical Evaluation of Flowback Brine from Marcellus Gas Wells in Pennsylvania, USA** (Haluszczak, Rose, Kump) Applied Geochemistry, October 2012

**24. Analysis of Reserve Pit Sludge from Unconventional Natural Gas Hydraulic Fracturing and Drilling Operations for the Presence of Technologically Enhanced Naturally Occurring Radioactive Material (TENORM)** (Rich and Crosby) New Solutions, 2013

## Section 5: WELLS / RADIATION RISKS

**25. History of Oil and Gas Well Abandonment in New York** (Bishop) SUNY College at Oneonta, 2012

**26. Radium Content of Oil- and Gas-Field Produced Waters in the Northern Appalachian Basin** (Rowan, Engle, Kirby, Kraemer) USGS 2011

## Section 6: CLIMATE IMPACTS

**27. Methane and the Greenhouse Gas Footprint of Natural Gas from Shale Formations** (Howarth, Santoro, Ingraffea) Climate Change, 2011

**28. Venting and Leaking of Methane from Shale Gas Development: Response to Cathles et al** (Howarth, Santoro, Ingraffea) Climate Change, 2012

**29. Coal To Gas: The Influence of Methane Leakage** (Wigley) Climate Change, August 2011

*The documents contained in this digest are the property of the copyright owners and are reprinted for educational purposes only.*

*Compilation prepared by Grassroots Environmental Education, Inc., 52 Main Street, Port Washington, New York 11050*