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| **Environmental Enlightenment #209**By Ami Adini - Reissued June 21, 2017

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| This is a SHORT, LIGHT and SIMPLE newsletter. Its purpose is to rekindle in the initiated terminology they have once learned, and enlighten the uninitiated on terms they may have heard but never knew the meaning of. |
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| **Power of SimplicityThe EPA’s Citizen’s Guide to Cleanup Technologies**http://amiadini.com/NewsletterArchive/170621-NL209/envEnl-209_clip_image001.png***Series 8: Fracturing for Site Cleanup*** |

See our Newsletter, [*Environmental Enlightenment #200*](http://amiadini.com/NewsletterArchive/170419-NL200/envEnl-200.html)*,* for introduction to one highly valuable, plainly written series of Citizen’s Guides published by the EPA at <http://www.clu-in.org/products/citguide>With this issue we introduce the EPA’s *Citizen’s Guide to Fracturing for Site Cleanup.* You can reach it through the hyperlink under the blue header below.http://amiadini.com/NewsletterArchive/170621-NL209/envEnl-209_clip_image002.png<http://www.clu-in.org/download/Citizens/a_citizens_guide_to_fracturing_for_site_cleanup.pdf>Environmentally*, fracturing* has become a loaded word.One should differentiate between *fracturing* for exploration of oil and gas and *fracturing* for *remediation* of contaminated soil or groundwater.It’s the same word, but with applications wide apart.Formations that contain oil and gas are deep, on the order of hundreds to thousands of feet.http://amiadini.com/NewsletterArchive/170621-NL209/envEnl-209_clip_image004.jpg Source: U.S. EPA, <http://www2.epa.gov/hfstudy/hydraulic-fracturing-water-cycle>And they involve complex operations injecting fraccing fluids and treatment or decontamination of millions of gallons of wastewaters generated in the process.http://amiadini.com/NewsletterArchive/170621-NL209/envEnl-209_clip_image006.png Illustration by Mike Norton and licensed under the Creative Commons Attribution-Share Alike 3.0 Unported license.Formations contaminated from man-made spills are shallow.http://amiadini.com/NewsletterArchive/170621-NL209/envEnl-209_clip_image008.jpg<http://www.maine.gov/dacf/mgs/explore/water/facts/aquifer.htm>Fracturing to clean up contaminated sites operates in depths on the order of tens of feet and rarely exceeds 100 feet .http://amiadini.com/NewsletterArchive/170621-NL209/envEnl-209_clip_image010.pngGo to the EPA’s *Citizen’s Guide to Fracturing for Site Cleanup at* <http://www.clu-in.org/download/Citizens/a_citizens_guide_to_fracturing_for_site_cleanup.pdf>for the rest. It is simple and fun to read.http://amiadini.com/NewsletterArchive/170621-NL209/envEnl-209_clip_image012.jpg |
| You can find past issues of our "Environmental Enlightenment" at [amiadini.com](http://www.amiadini.com/) Wealth of information about environmental site assessments in the real estate transactions and issues concerning assessment and cleanup of contamination in the subsurface soil and groundwater. |

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| Call me if you have any questions. There are **no obligations.**Ami Adini Environmental Services, Inc.Environmental Consultants & General Engineering ContractorsCalifornia Lic. #1009513 A B HAZ ASB**818-824-8102**; **mail@amiadini.com**[www.amiadini.com](http://amiadini.com/)Ami Adini is a veteran environmental practitioner with over 40 years of experience. He carries a Bachelor of Science degree (B.Sc.) in Mechanical Engineering including academic credits in Nuclear and Chemical Engineering and postgraduate education in these fields. His career includes design and construction of nuclear plant facilities, chemical processing plants and hazardous wastewater treatment systems. He is a former California Registered Environmental Assessor Levels I & II in the 1988-2012 registry that certified environmental professionals in the assessment and remediation of environmentally impacted land, and a Registered Environmental Professional (REP) since 1989 with the National Registry of Environmental Professionals (NREP). He is a California Business & Professions Code Qualifying Responsible Managing Officer (RMO) in the General Engineering Contractor classification with Hazardous Substance Removal and Asbestos certifications, and president of AMI ADINI ENVIRONMENTAL SERVICES, INC. (AAES), a general engineering contractor and consulting firm specializing in environmental site assessments, rehabilitation of contaminated sites and removal of environmental risks from real-estate transactions. (Contact Ami for a complete resume.) **AAES provides practical solutions to environmental concerns using the highest standards of ethics and integrity while providing its clients with maximum return on their investments.** |

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