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- US Environmental Protection Agency
 - "Green completion" to capture fugitive air emissions (VOCs, methane, etc.)
 - Adopted April 18, 2012 under Clean Air Act
- US Department of Interior
 - Revised draft released May 11, 2013
 - Applies to all federal and tribal lands
 - Well-bore integrity
 - Disclosure of chemicals
 - Management of flowback and produced water
 - Public comment period extended to Aug. 23, 2013

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Moving Forward – Federal Actions (Cont)

- Four federal bills introduced
 - H.R. 1921 (DeGette and Gibson) &
 - S. 332 (Sanders and Boxer)
 - Repeal Safe Drinking Water Act exemption
 - Disclose hydraulic fracturing chemicals
 - H.R. 1154 (Polis)
 - Repeal Clean Air Act exemption for aggregation of emissions from oil and gas sources
 - Add hydrogen sulfide as hazardous air pollutant
 - H.R. 1175 (Cartwright)
 - Study stormwater impacts associated with oil or gas operations

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Moving Forward –State Actions

- South Coast Air Quality Management District
 - Rule 1148.2 adopted on April 5, 2013
- California Division of Oil, Gas, and Geothermal Resources (DOGGR)
 - Discussion Draft released December 17, 2012
 - Well construction and design criteria
 - Chemical and process disclosure
 - Pre- and post-monitoring
 - Public notification 10-days prior
 - Wastewater handling and disposal
 - Adoption by Summer 2014 (?)

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Moving Forward –State Actions (Cont)

- 14 bills introduced in 2013
 - Only 1 of 9 hydraulic fracturing bills remain
 - SB 4 (Pavley)— Well Stimulation
 - Permit 30-days prior
 - Public notification
 - Pre- and post fracking WQ monitoring upon request
 - Posts data on searchable web site
 - Other related bills
 - Policy of State to develop natural gas (AB 1257 Bocanegra)
 - CO₂ sequestration and enhanced production (SB 34 Calderon)
 - 9.9% severance tax (SB 241 Evans)
 - Well bonding requirements (SB 665 Wolk)
 - Reaffirms Uniform Trade Secrets Act (SB 802 Evans)

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Response to Public Inquiry

- Over 150 constituents routinely monitored
 - Many constituents (e.g., TDS, bromide, chloride, alkalinity, and benzene) serve as early warning indicators for potential contamination from oil and gas development activities
- Consumer Confidence Reports (CCRs) are publically available and mailed to consumers annually
 - Metropolitan's Annual Reports serve as the basis for many utilities' CCR imported water quality data

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Metropolitan's Board Policy

Advocate for the inclusion of source water protection provisions in energy development policies, legislation, and regulations. Covered energy development activities may include, but are not limited to, oil and gas extraction that use enhanced recovery techniques such as hydraulic fracturing

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Other Resources

- FracFocus.org
- Berkeley Law Study
 - "Regulation of Hydraulic Fracturing in California: A Wastewater and Water Quality Perspective"
- United States Environmental Protections Agency
- American Water Works Association
 - Water and Hydraulic Fracturing: A White Paper
- State Water Resources Control Board
 - Groundwater Ambient Monitoring and Assessment Program

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