

Stakeholder Engagement for EPA's Hydraulic Fracturing Study

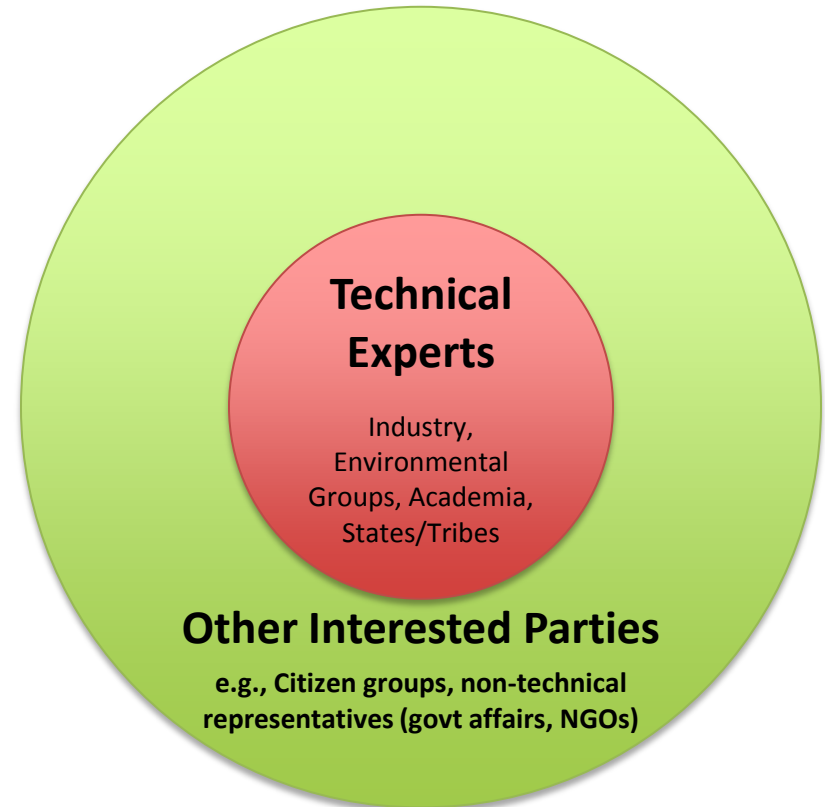
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Stakeholder Engagement Goals

Targeted Interest Groups

1. **Effective, meaningful two-way engagement with technical experts to inform and positively impact EPA's research study.**
2. **Engage broader stakeholder community to provide status updates on the study, report out on technical roundtables and workshops, and to seek information and data to inform the 2014 draft report.**



A transparent, research-driven approach with stakeholder involvement can address questions about hydraulic fracturing.

Key Objectives are to:

- **Increase technical engagement with stakeholder community to assure that EPA has ongoing access to a broad range of expertise and data outside the Agency.**
- **Obtain timely and constructive feedback on data and analysis developed in the study.**
- **Assure that EPA is current on changes in industry practices and technologies.**
- **Improve public understanding of the goals and design of the study.**
- **Provide useful information to stakeholders which can be used to reduce environmental and public health impacts of hydraulic fracturing.**

Stakeholder Involvement in Hydraulic Fracturing Study 2010-13:

- **2010 public meetings held in 4 states and 2011 technical workshops to inform the research.**
- **Webinar consultations with tribal governments and an in-person meeting with the Haudenosaunee Environmental Task Force in 2010 .**
- **2012 Roundtables | 2013 Workshops – 213 individual attendees from 138 organizations, representative of 14 states.**
- **Contacts in person and via phone/email to exchange data and information for research projects.**
- **Responses to information requests through Federal Register Notice and Science Advisory Board reviews.**

Stakeholder Engagement

- **Interact with outside experts**
- **Keep up-to-date on changes in technology and practice**
- **Obtain feedback on current research**

Technical Roundtables

- **Consult with technical representatives from key stakeholder groups**
 - Oil and gas industry, water industry, non-governmental organizations, state/local governments, tribes, academia
- **November 2012**
- **December 9, 2013**

Technical Workshops

- **Engage with subject-matter experts on specific topics:**
 - Analytical chemistry methods
 - Well construction/operation and subsurface modeling
 - Wastewater treatment and related modeling
 - Water acquisition modeling
 - Case studies
- **Winter/Spring/Summer 2013**

Stakeholder Engagement Moving Forward

- **Continue stakeholder outreach**
 - **Reconvene roundtable in 2014**
 - **Increased focus on states: How can EPA's work be useful for state decision making?**
 - **Outreach to tribes**
- **What topics or issues within our scope would stakeholders like to see EPA address in its final report?**

Active States by Play and Region

Region	State	Shale Play
2	NY	Marcellus Shale
3	PA, WV, MD	
5	OH	
	AR	Fayetteville Shale
6	TX/LA	Haynesville-Bossier Shale
	TX	Barnett & Eagle Ford Shale
	CO	Vermejo & Raton Formations
	ND	Bakken Shale
8	UT	Mancos, Manning Canyon, & Hermosa Shale
	WY	Niobarra
9	CA	Monterey Shale

