

Building and Supporting a Regional Monitoring Effort

Lessons learned and engagement techniques

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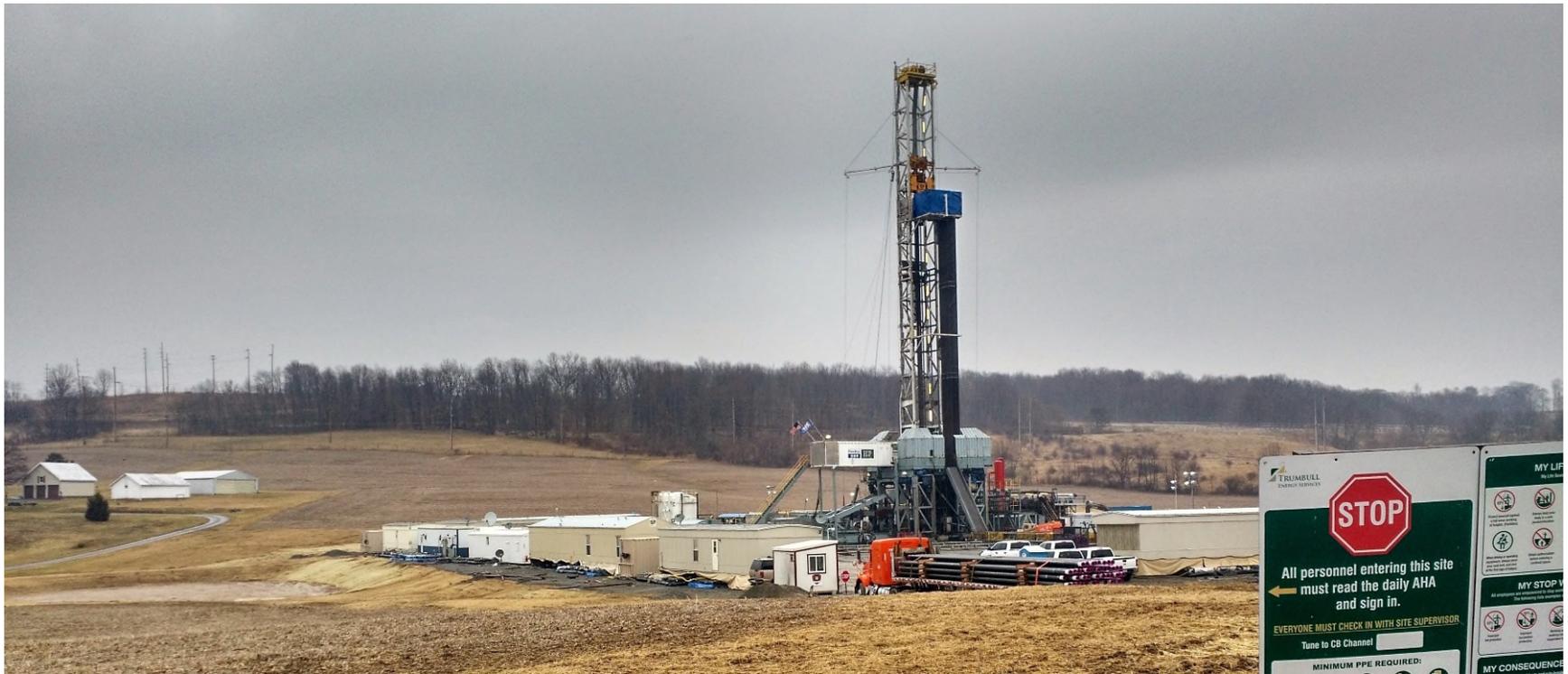
Technical assistance to groups

- Study design creation
- Chemical, physical and biological monitoring
- Quality Assurance/Quality Control
- Data interpretation and program assistance



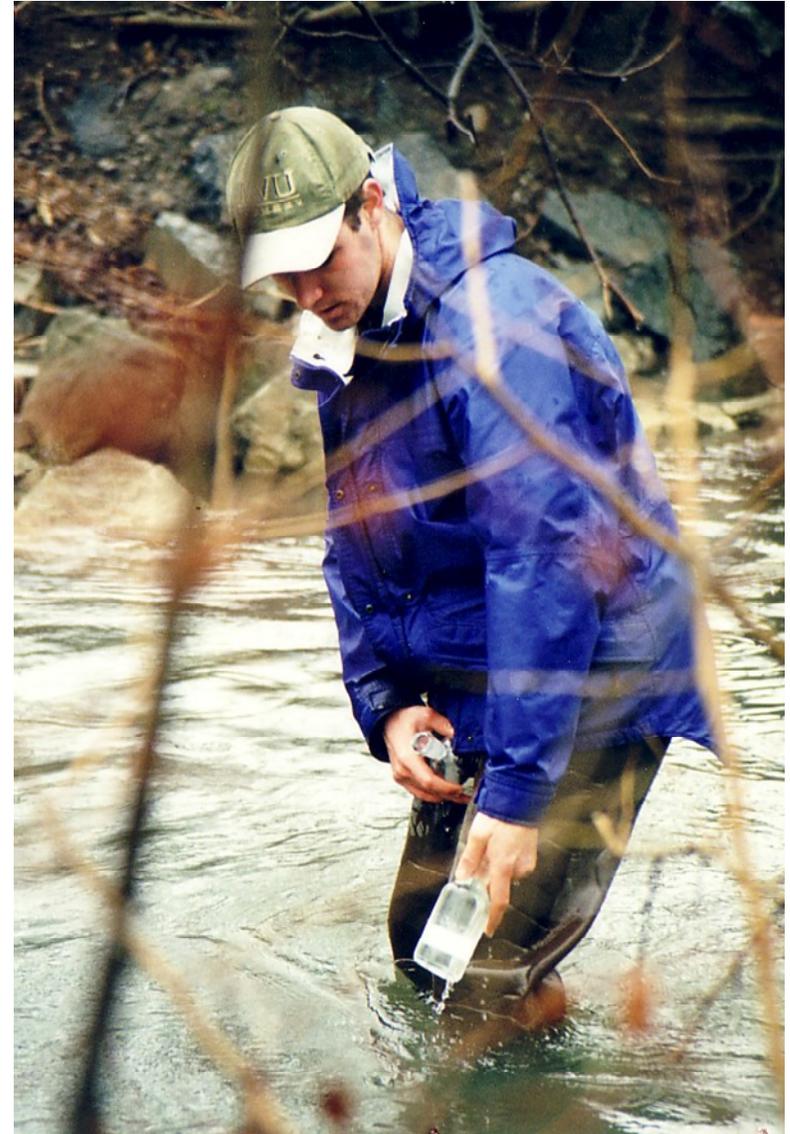
Shale gas (fracking) in Pennsylvania

- 2010, groups contact ALLARM about monitoring streams for impacts from hydraulic fracturing activity



ALLARM's shale gas program

- Monitors measure physical and chemical parameters
- Split-sample QA/QC program
- Designed 'red flag' protocol for reporting potential violations



Changes from traditional assistance

Technical Assistance

- Close (within an hour)
- Little planning for quick meetings
- Volunteers can drop off QA/QC samples
- Easy data management

Shale Gas

- Further than three hours
- Need to plan full day trips for meetings
- Must mail samples or travel to pick up
- Rely on local partners



Integrating local partners

- Partner organizations, County Conservation Districts
- Individuals and organizations can serve as support



Making engagement simple

- Coordinating QA/QC sample pickup and equipment drop off with meetings
- Refreshers at check-ins



Going 'where' the monitors are

- Leveraging online resources as a major means of communication between meetings



Effectively managing staff time

- Planning multiple meetings and/or workshops into one trip is essential



Data management

- Partners coordinated data, moving to online database

The screenshot displays the ALLARM website interface. At the top, a navigation bar includes the ALLARM logo, a home icon, and menu items: My Data, Local Data, Regional Data, Counties, Resources, About, and Contact. On the right side of the navigation bar, it says "Welcome Guest" and provides "Login" and "Register" options. Below the navigation bar is a large banner image of a stream with a black text box in the center that reads: "Monitors regularly collect and analyze water quality samples and record visual observations". A "Learn more" link is positioned below the text box. Underneath the banner is a map of Pennsylvania and surrounding areas, with numerous black location pins indicating monitoring sites. At the bottom of the page, there are three teal buttons: "View Data", "Get Involved", and "Contact Us". The ALLARM logo is also present in the bottom left corner of the page.

Recap

- Leveraging local partners for programmatic support and data management
- Making engagement streamlined and being accessible through multiple channels
- Being efficient with staff time and other resources



Questions?

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