

## Community Exposure to Emissions and Noise Near Unconventional Oil and Gas Development: North Front Range, Colorado

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### Study Description

**ABOUT** Fact sheet in [English](#) and [Spanish](#)

**GOAL** Assess how people in the North Front Range community might be exposed to air emissions and noise from unconventional oil and gas development (UOGD).

- This study is part of the Tracking Community Exposures and Releases (TRACER) Collaboration, a three-team research collaboration funded by HEI Energy.



General Study Location

### What's happened?

- Procured noise and air quality monitoring equipment.
- Conducted a project kickoff open house, drawing local community members, government officials, and industry representatives.
- Identified initial well pads for noise and air quality monitoring near Longmont and Aurora, Colorado.
- Analyzed past air quality monitoring data to identify chemical signatures of various UOGD operations.
- Presented study design to Colorado Oil and Gas Conservation Commission. Check out the presentation, [here](#).

### What's new?

- Testing new noise and air quality monitoring equipment for upcoming field deployment.
- Securing permissions for siting monitoring equipment during initial field deployment.
- Collaborating with the [UT Austin](#) team to develop the TRACER model.



Amy Sullivan of Colorado State University at HEI Energy's community open house in Longmont, CO. Sullivan showed attendees mobile air-quality monitoring instrumentation. (Image from a livestream video interview).

### What's next?

- Deploy noise and air quality monitoring equipment during drilling operations at a UOGD well pad near Aurora, CO.
- Develop the TRACER model to represent emissions during UOGD drilling.
- Continue engagement with public and local government stakeholders near Aurora, CO well pad.

### UPCOMING EVENTS

#### Jan 2023

Study lead Jeffrey Collett is the Invited Core Science Keynote Speaker at the [American Meteorological Society Annual Meeting](#)

### LEARN MORE

Study page on [HEI Energy Website](#)