



# Lost Hills Kickoff Meeting

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Study of Neighborhood Air near  
Petroleum Sources (SNAPS)

JONATHAN BLUFER

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WONDERFUL PARK RECREATION BUILDING

# Outline



Introduction and Motivation

Scope of Work

Monitoring Site and Equipment

Communicating Results

Next Steps

Q&A

# What is SNAPS?

**S**tudy  
of  
**N**eighborhood  
**A**ir  
near  
**P**etroleum  
**S**ources



# Motivation for SNAPS

- Exposure concerns raised by communities
- Aliso Canyon underground natural gas storage leak
- California Council on Science and Technology (CCST) recommendations
- Part of broader CARB effort to understand impacts of oil and gas operations

# SNAPS Scope

## Program Goals

Characterize air quality  
in communities near oil and  
gas operations

Identify pollution sources as  
feasible

Analyze data for  
possible health risks

## Major Pollutants

Toxic Air Contaminants (TACs)

Volatile Organic Compounds (VOCs)

Criteria (Smog Forming) Pollutants  
(particulate matter, carbon monoxide,  
sulfur dioxide, ozone)

Metals

Glycols

Hydrogen Sulfide

Methane

# First Round Communities



# Preliminary Monitoring Timeline

April 2019

- SNAPS trailer located in Lost Hills
- Set-up and calibration of equipment

May 2019

- Intensive air quality monitoring begins
- Community kickoff meeting
- Real-time data displayed on website

Late Spring/  
Summer  
2019

- Early-Mid Summer: Mid-monitoring community meeting
- Late Summer: Conclusion of 3-6 month monitoring period
- Continued data analysis

2020

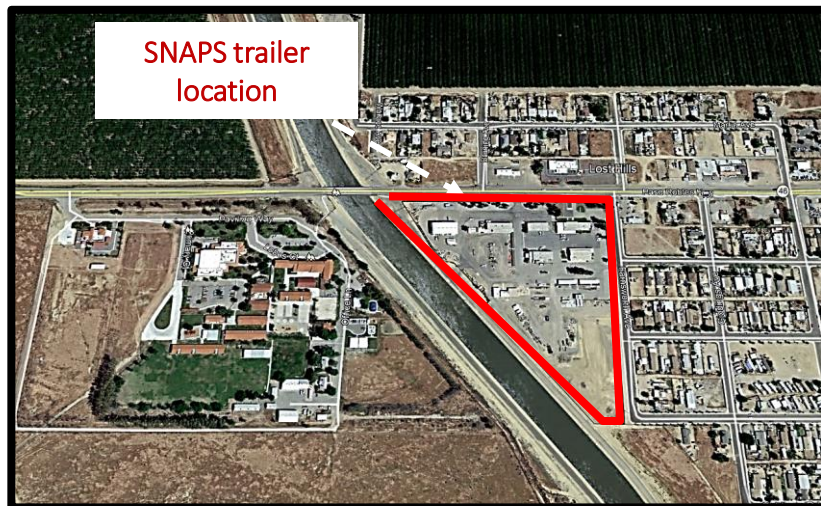
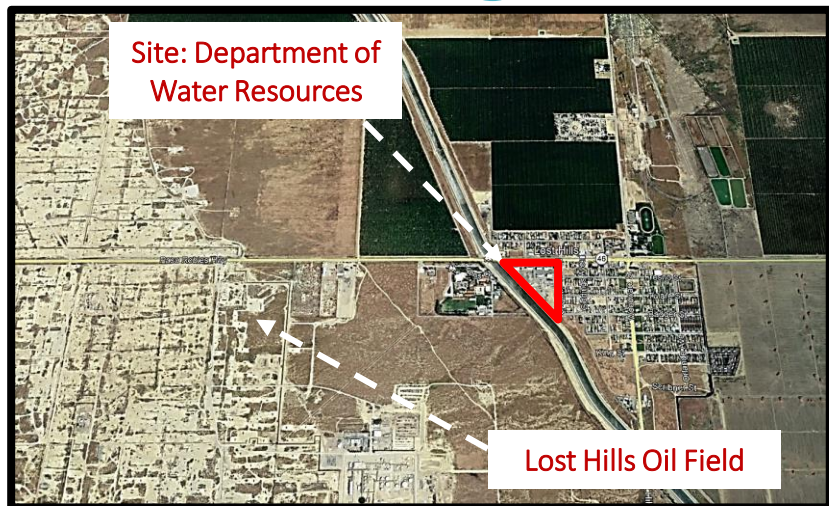
- Final report released
- Community meeting to discuss report and implications

Ongoing

- Next steps: Coordinate with air district and DOGGR to pursue solutions, as appropriate



# Monitoring Location



## Site: Department of Water Resources

Located <1/4 mile from oil field and ~3/4 mile from closest active oil well

Central location in Lost Hills

Potential sources of community air pollution: oil field, agriculture, composting, CA-46, I-5



# Stationary Trailer



Located at the Department of Water Resources  
Limited-term, intensive air pollutant monitoring  
State-of-the-art instrumentation



# Mobile Monitoring Vehicle

Community and near-source air pollutant screening

Provide measurements as needed away from trailer

Can be used to supplement trailer monitoring

Pollutants:

- Methane

- Carbon dioxide/monoxide

- Hydrogen Sulfide

- BTEX

- Speciated VOCs (grab samples)



# Communicating Results

Response Tier	Pollutant/criteria	Time to Public Posting of Data	Agencies included in analysis	Agencies notified
Tier I Data collected in real time	CH <sub>4</sub> , H <sub>2</sub> S, O <sub>3</sub> , CO, Black Carbon, PM <sub>2.5</sub>	Hourly <sup>(1)</sup>	CARB OEHHA	Air districts
Tier II All other data	Toxic air contaminants (TACs), non-TAC VOCs and metals	With published study <sup>(2)</sup>	CARB OEHHA	Air districts CalEPA


Note: If data show potential for immediate health impact, CARB and OEHHA will notify CalOES immediately. If preliminary data show potential levels of concern, CARB and OEHHA will evaluate and inform districts and communities as appropriate.

(1) Results streamed hourly on project website.

(2) Study will be published as quickly as possible.

# Communicating Results

**STUDY OF NEIGHBORHOOD AIR NEAR PETROLEUM SOURCES (SNAPS) COMMUNITY REPORTING**




**We need your voice!**

Lost Hills is the first community to host air monitoring as part of SNAPS, conducted by the California Air Resources Board (CARB). SNAPS seeks to better understand air quality in your community.

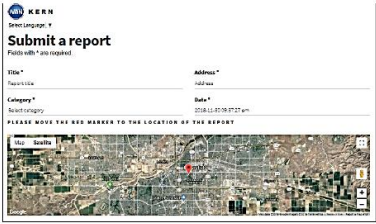
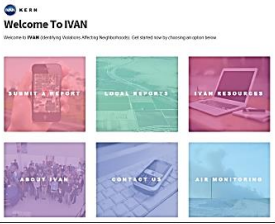
**Do you have odor, environmental, or health concerns?**

We want input from those who know their community best... you!

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 **Reporting is Simple**

- 1: Call SNAPS in English at (916) 323-8053 or Spanish at (916) 323-0180.
- 2: Report to the IVAN KERN mobile app available on the App Store and Google Play or online at [kernreport.org](http://kernreport.org), or call (661) 493-8686.



This is a unique opportunity to collaborate with CARB staff as we study air quality in Lost Hills. For more information on SNAPS, visit [buff.ly/2PYkMPs](http://buff.ly/2PYkMPs).

Report odor, health, and air quality concerns to CARB

Call SNAPS directly:

English: (916) 323-8053

Spanish: (916) 323-0180

Report to the IVAN Kern website, mobile app, or call (661) 493-8686



# What are the next steps?

## Data analysis and Final Report

*CARB*

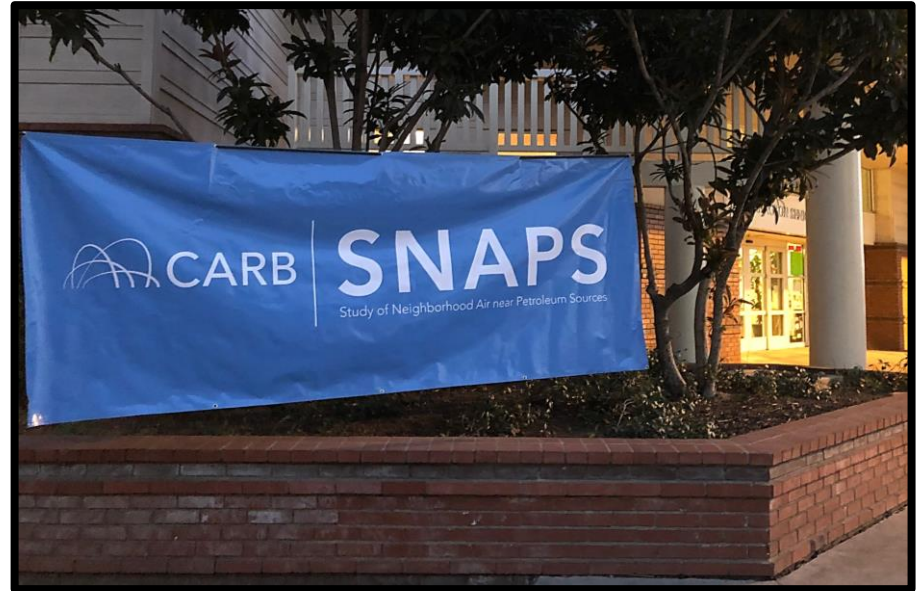
Hold community meeting once final report is released

- Discuss results and conclusions of Lost Hills monitoring

- Explore follow-up measures and broader solutions, as appropriate

## Review of Potential Health Risks

*Office of Environmental Health Hazard Assessment (OEHHA)*





# What are the next steps? (cont.)



If elevated concentrations found:  
Attempt to determine the source

If from oil and gas extraction, CARB will:  
Coordinate with SJVAPCD and DOGGR

Work with operators to pursue solutions

Explore broader solutions, as appropriate

# Resources and Contact Information

- Project webpage  
<https://ww2.arb.ca.gov/our-work/programs/study-neighborhood-air-near-petroleum-sources>
- Visit project webpage to Subscribe and receive email updates
- Call SNAPS community reporting lines or report to IVAN Kern
- Email us at [SNAPS@arb.ca.gov](mailto:SNAPS@arb.ca.gov) or call contacts below:

## Events & General Project Questions

Carolyn Lozo, Branch Chief  
Oil and Gas and Greenhouse Gas Mitigation Branch  
California Air Resources Board  
(916) 445-1104

## Air Monitoring Technical Questions

Walter Ham, Manager  
Advanced Monitoring Techniques Section  
California Air Resources Board  
(916) 322-8116