

**UCLA**

**Aliso Canyon Disaster  
Health Research Study**

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# **Community Meeting #1**

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# Welcome

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# Agenda

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- **Welcome**
- **Agenda**
- **Introduction to the UCLA Team**
- **Health Study Overview**
- **Air Monitoring**
- **Community Engagement Plan**
- **Additional Q&A (Time Permitting)**

# Q&A

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- **Click the Q&A icon on the bottom of your screen to:**
  - Enter your questions or comments
  - View questions asked by others
  - View written answers to some questions
- **Upvote questions by clicking the thumbs up icon under each question** 



# Meeting Guidelines

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- **Treat all meeting participants, comments, and questions with respect.**
- **Use common conversational courtesy. Inappropriate language will not be permitted.**
- **Stay focused on today's agenda.**
- **Honor time.**

# UCLA Team Partners

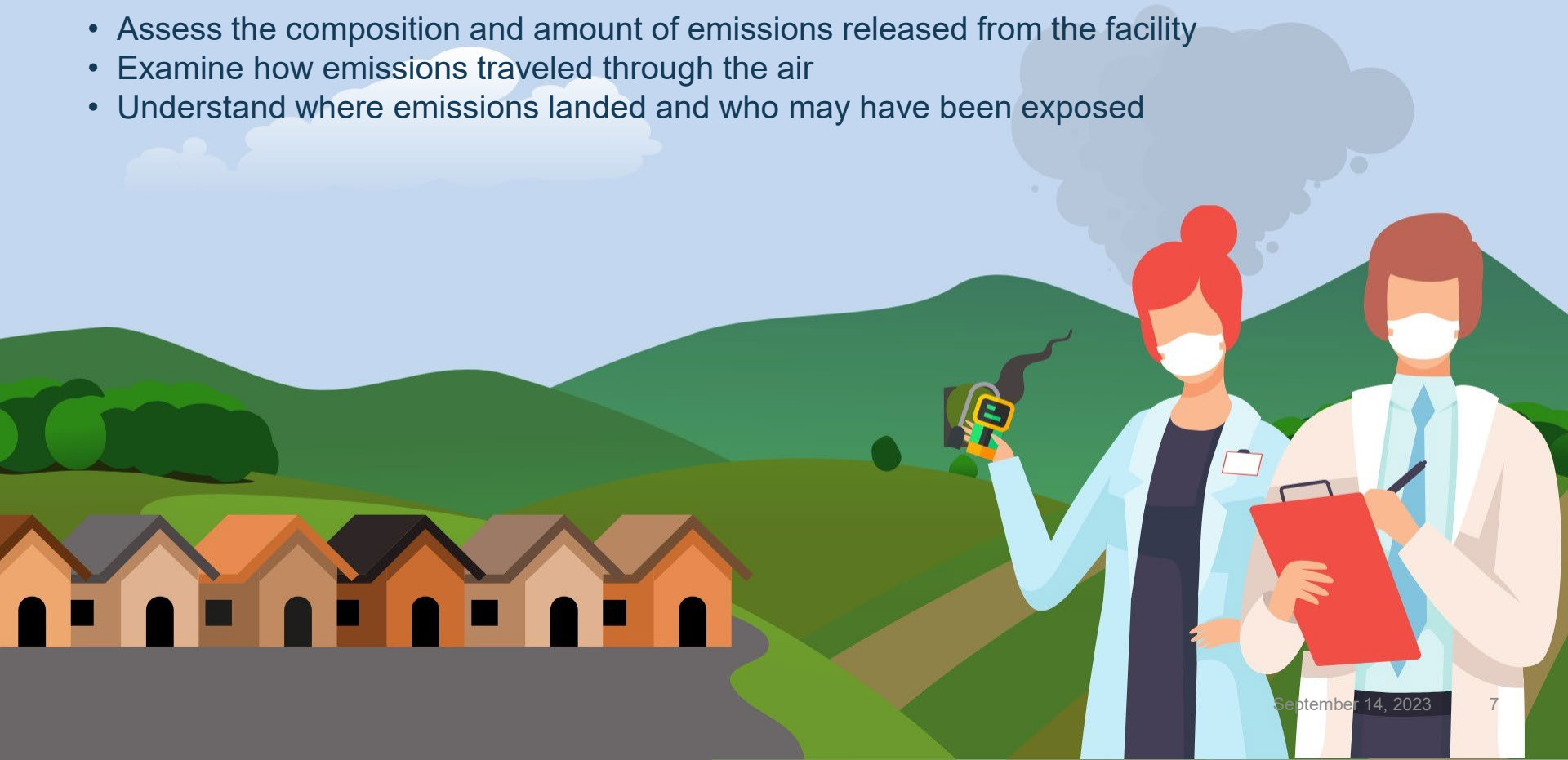
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- **University of California, Berkeley**
- **University of California, Davis**
- **California State University, Sacramento**
- **University of Arizona**
- **New York University**
- **Oregon State University**
- **Emory University**
- **McGill University**
- **Scientific Telephone Samples (STS)**
- **Carbon Mapper**
- **PSE Healthy Energy (PSE)**

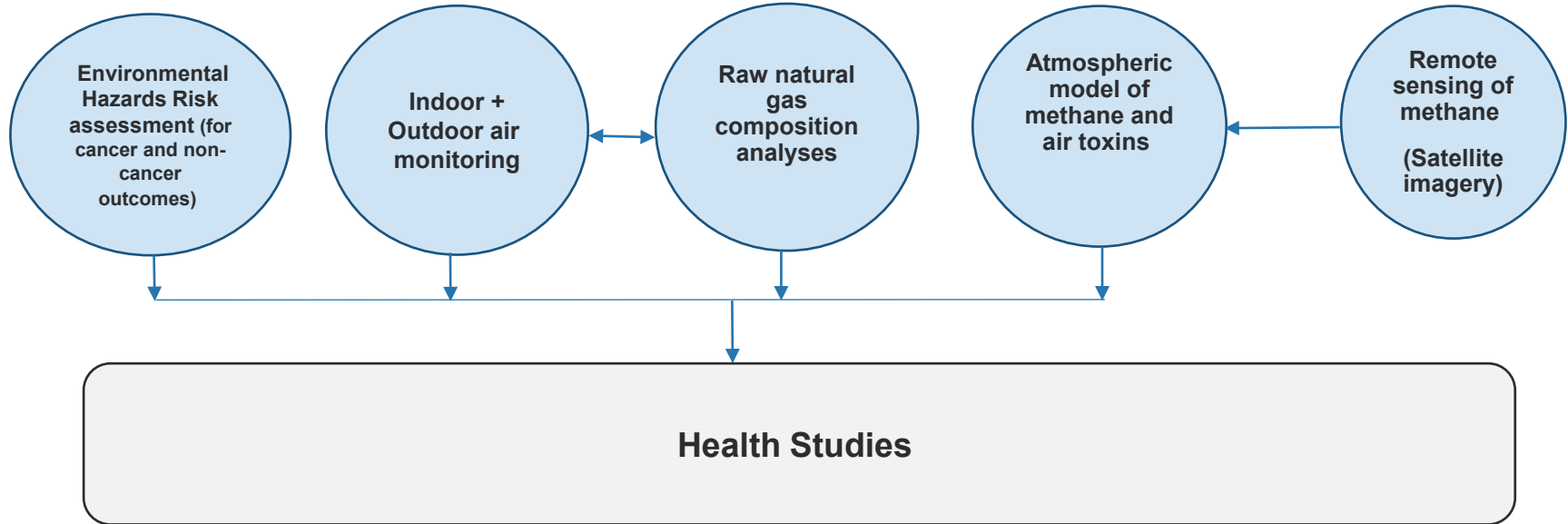
***Totaling more than fifty (50) investigators and staff.***

# Environmental Exposures

- Assess the composition and amount of emissions released from the facility
- Examine how emissions traveled through the air
- Understand where emissions landed and who may have been exposed



# Exposure Assessment Components





# Health and Well-Being

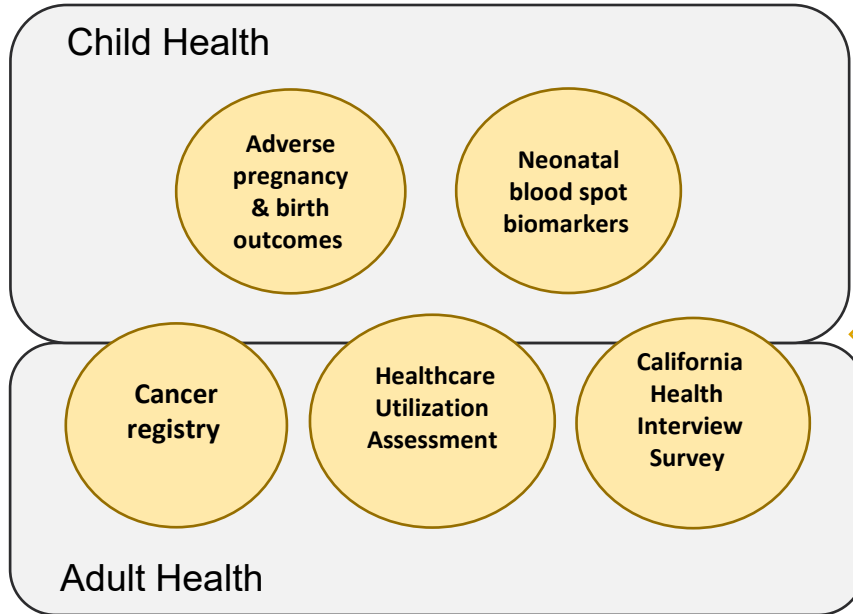
- Search for evidence of emissions exposure in blood samples
- Ask residents about their physical and mental health experiences and well-being
- Conduct clinical examination of residents
- Examine changes in health and mental health status over time
- Examine changes in patterns of health care use over time
- Study prevalence and incidence of cancer



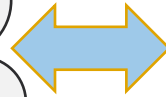
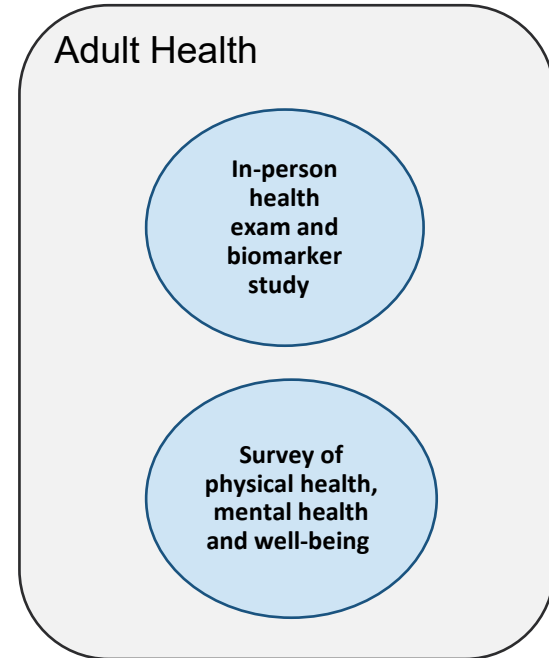
# We will compare health in the affected community to other similar places

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## Existing Data



## Newly Collected Data



# Health Study Overview: Timeline

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## Detailed Timeline



### Year 1 – 2023

- Set up needed data and research infrastructure.
- Gather and begin analyzing existing survey and environmental data.
- Begin engaging the community.
- Collect new environmental data.
- Recruit households for community air quality monitoring.
- Begin assessment of birth outcomes.
- Solicit technical expertise and guidance from the SOC during regular meetings.

# Health Study Overview: Timeline

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## Year 2 – 2024

- Recruit residents and conduct clinical exams.
- Begin survey of residents on health and well-being.
- Continue analysis of existing health and environmental data.
- Solicit technical expertise and guidance from the SOC during regular meetings.



## Year 3 – 2025

- Continue survey of health and well-being.
- Analyze new health and environmental data.
- Prepare available results for publication.
- Share available findings with community stakeholders.
- Solicit technical expertise and guidance from the SOC during regular meetings.
- At the end of the year, the SOC will evaluate whether the study is on track to meeting its goals and determine if it should continue.

# Health Study Overview: Timeline

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## Year 4 – 2026

Pending approval from the SOC in the prior year, the following activities will continue:

- Continue survey of health and well-being.
- Integrate and analyze data.
- Prepare available results for publication.
- Share available findings with community stakeholders.
- Solicit technical expertise and guidance from the SOC during regular meetings.




## Year 5 – 2027

- Complete data analysis.
- Prepare results for publication.
- Share findings with community stakeholders.
- Solicit technical expertise and guidance from the SOC during regular meetings.

# Q&A

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# Air Monitoring

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- **Purpose:** To characterize local & residential air quality at various distances from the Aliso Canyon Storage Field.
- **Methods:**
  - Air quality measurement devices placed inside and directly outside homes and, for qualified homes, measurements taken directly from gas cooking stoves.
  - Residents complete a survey about their homes.
- **Timeframe:**
  - Air Sampling:
    - Two weeks in Fall/Winter 2023
    - Two weeks in Spring/Summer 2024
  - Stove Sampling: Every other month in between for indoor home gas sampling.
- **Pollutants Measured:**
  - Air samples: PM<sub>2.5</sub>, metals, and other air pollutants.
  - Indoor natural gas samples (from stove): Benzene, hexane, methane, sulfur odorants, volatile organic compounds, and other hazardous air pollutants.
- **Recruitment:** Mid-September until 40 residences sampled.

Sign up for our email list on our Contact Us page to learn more: <https://alisostudy.ucla.edu/>

# Indoor and Outdoor Air Monitoring

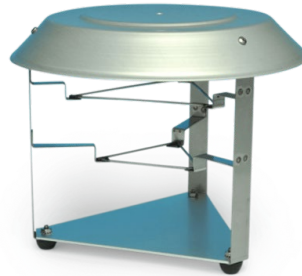
Instruments	UPAS	PurpleAir sensor	Passive air sampler
Collection Media	37 mm Teflon filter	Real-time PM <sub>2.5</sub> – PM <sub>10</sub>	Polyurethane foam disk
Laboratory Analysis	PM <sub>2.5</sub> , metals, oxidative potential	NA	PAHs



UPAS



PurpleAir sensor



Passive air sampler (indoor)

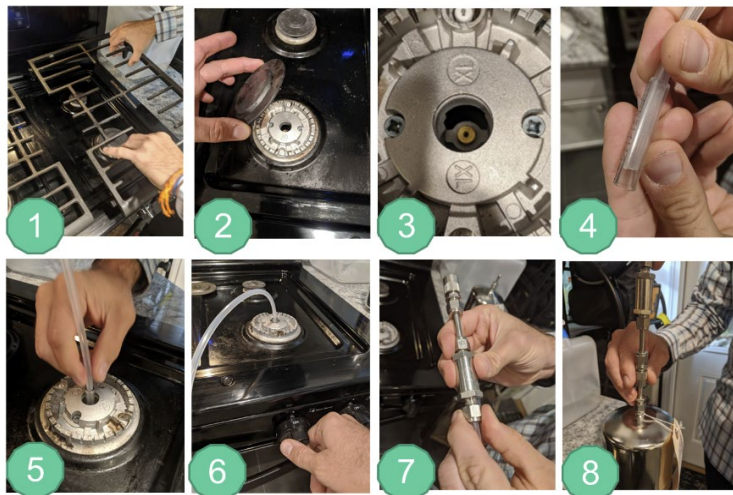


Passive air sampler (outdoor)



# Home Gas Sampling

Collect 200 samples of unburned gas directly from gas stove



## TESTING FOR:

- Gas quality
- BTEX and other pollutants in gas
- Gas markers ( $\delta^{13}\text{C}$ )
- Sulfur odorants

## TESTING DETAILS:

- 22 Participants
- 6 samples/year
- Gas leak survey
- Compensation!

# Community Engagement

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**OUR JOB IS TO PROVIDE FREQUENT,  
REGULAR, EASY, AND TRANSPARENT  
COMMUNICATION BETWEEN THE STUDY AND  
YOUR COMMUNITY**

- Community Engagement Support and Advice Network
- Facebook, Emails, Website
- Community Meetings

# Community Engagement

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- Website: <https://alisostudy.ucla.edu/>
- Facebook: <https://www.facebook.com/profile.php?id=61550564015502>
- Emails sign-up: <https://lp.constantcontactpages.com/su/cewB1xE/alisostudy>
- Feedback link here: <https://bit.ly/46pWnJx>

# Thank You

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